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HISTORY

OF

LA CROSSE COUNTY,

WISCONSIN,

v. 1

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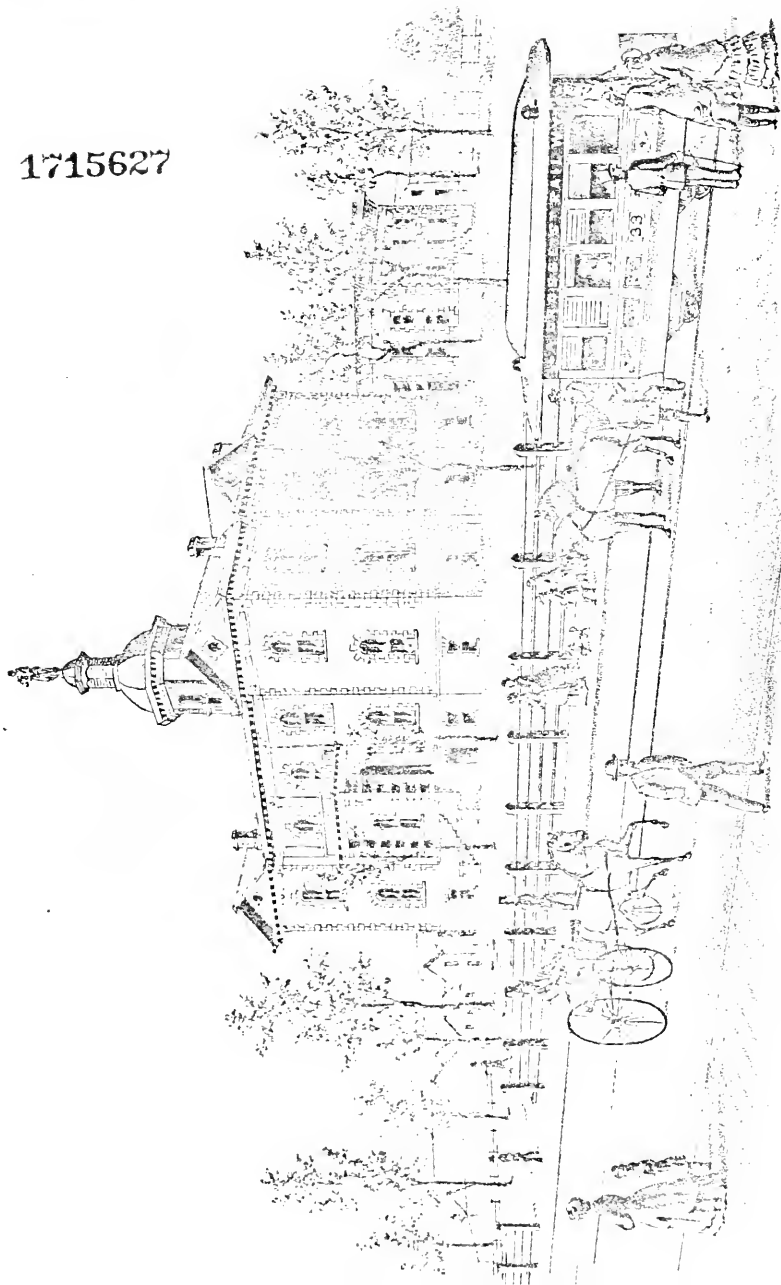
AN ACCOUNT OF ITS SETTLEMENT, GROWTH, DEVELOPMENT AND RESOURCES; AN EXTENSIVE AND MINUTE SKETCH OF ITS CITIES, TOWNS AND VILLAGES--THEIR IMPROVEMENTS, INDUSTRIES, MANUFACTORIES, CHURCHES, SCHOOLS AND SOCIETIES; ITS WAR RECORD, BIOGRAPHICAL SKETCHES, PORTRAITS OF PROMINENT MEN AND EARLY SETTLERS; THE WHOLE PRECEDED BY A HISTORY OF WISCONSIN, STATISTICS OF THE STATE, AND AN ABSTRACT OF ITS LAWS AND CONSTITUTION AND OF THE CONSTITUTION OF THE UNITED STATES.

ILLUSTRATED.

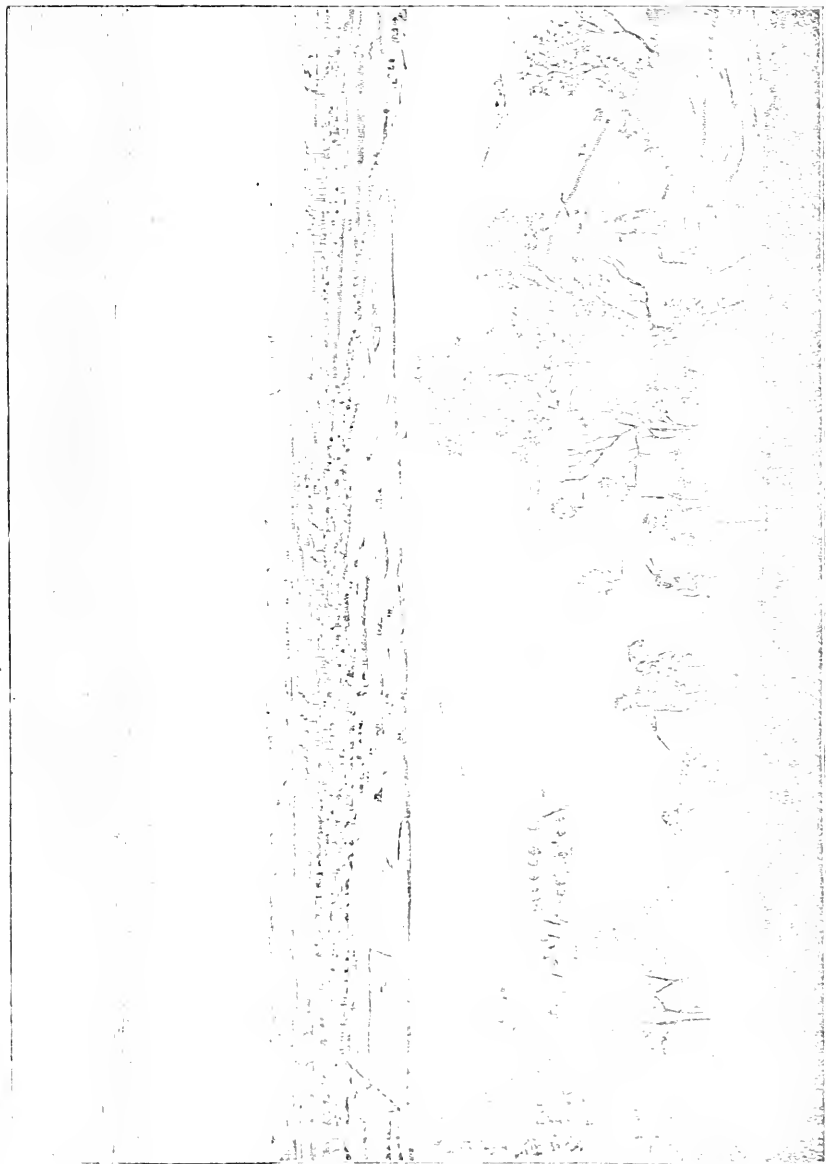
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LA CROSSE COUNTY COURT HOUSE.



LA CROISE, AS SEEN FROM CLIFFWOOD



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P R E F A C E .

IT has been the purpose of the Publishers to condense into the convenient form of a single volume the scattered fragments of local history and to give as an aid to the coming searcher after historical truth a systematic recital of events in their relations to the labor of creating and developing La Crosse County. The labor bestowed upon this work has been patiently performed; it is for the public to determine the degree of success attained.

The elaborate and highly interesting article on the Press, from the pen of Mr. Charles Seymour, is one of the most valuable portions of the book. Therein has a skilled writer drawn a clear-cut analysis of a noted character before the country, and, although himself a political and business opponent of the man, Mr. Seymour has evinced a moral courage that is admirable; he has dared to see and define the good qualities, as well as the mental attributes, of a nature which is worthy of the attention of psychologists. The success of Mark M. Pomeroy must be acknowledged one of the noted journalistic phenomena of this generation: and the facts recorded in Mr. Seymour's sketch will supply the historian of the war-period with most suggestive and significant data from which to draw conclusions. The *La Crosse Democrat* was a representative of an element in the national life which history cannot ignore; and he who writes must turn to La Crosse for a description of that human instrumentality which was the startling embodiment of an idea.

In general terms, thanks are expressed to the Clergy, the Press, the Pioneers and the Public, for cordial co-operation in the compilation of this book.

That the History of La Crosse County as here presented may be satisfactory to all—a sentiment, we confess, that is bold, in view of the freedom and diversity of opinion—is the sincere prayer of

THE PUBLISHERS.

SEPTEMBER, 1881.

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HISTORY OF WISCONSIN.

BY C. W. BUTTERFIELD.

I.—WISCONSIN ANTIQUITIES.

The first explorers of the valleys of the Great Lakes and the Mississippi and its tributaries, seem not to have noticed, to any considerable extent, the existence within these vast areas of monuments of an extinct race. Gradually, however, as the tide of emigration broke through the barriers of the Alleghanies and spread in a widely extended flow over what are now the States of the Northwest, these prehistoric vestiges attracted more and more the attention of the curious and the learned, until, at the present time, almost every person is presumed to have some general knowledge, not only of their existence, but of some of their striking peculiarities. Unfortunately, these signs of a long since departed people are fast disappearing by the never ceasing operations of the elements, and the constant encroachments of civilization. The earliest notices of the animal and vegetable kingdom of this region are to be found in its rocks; but Wisconsin's earliest records of men can only be traced in here and there a crumbling earth-work, in the fragment of a skeleton, or in a few stone and copper implements—dim and shadowy relics of their handicraft.

The ancient dwellers in these valleys, whose history is lost in the lapse of ages, are designated, usually, as the Mound-Builders; not that building mounds was probably their distinctive employment, but that such artificial elevations of the earth are, to a great extent, the only evidences remaining of their actual occupation of the country. As to the origin of these people, all knowledge must, possibly, continue to rest upon conjecture alone. Nor were the habitations of this race confined to the territory of which Wisconsin now forms a part. At one time, they must have been located in many ulterior regions. The earth-works, tumuli, or "mounds," as they are generally designated, are usually symmetrically raised and often inclosed in mathematical figures, such as the square, the octagon, and the circle, with long lines of circumvallation. Besides these earth-works, there are pits dug in the solid rock; rubbish heaps formed in the prosecution of mining operations; and a variety of implements and utensils, wrought in copper or stone, or moulded in clay. Whence came the inhabitants who left these evidences to succeeding generations? In other words, who were the Mound-Builders? Did they migrate from the Old World, or is their origin to be sought for elsewhere? And as to their manners and customs and civilization—what of these things? Was the race finally swept from the New World to give place to Red men, or was it the one from which the latter descended? These momentous questions are left for the ethnologist, the archæologist, and the antiquarian of the future to answer—if they can.

Inlosures and mounds of the prehistoric people, it is generally believed, constituted but parts of one system; the former being, in the main, intended for purposes of defense or religion; the latter, for sacrifice, for temple sites, for burial places, or for observatories. In selecting sites for many of these earth-works, the Mound-Builders appear to have been influenced by motives which prompt civilized men to choose localities for their great marts; hence, Cincinnati, St. Louis, Chicago, Milwaukee and other cities of the West are founded on ruins of pre-existing structures. River terraces and river bottoms seem to have been the favorite places for these earth-works. In such localities, the natural advantages of the country could be made available with much less trouble than in portions of the country lying at a distance from water-courses. In Wisconsin, therefore, as in other parts, the same general idea of selecting points contiguous to the principal natural thoroughfares is found to have prevailed with the Mound-Builders; for their works are seen in the basin of the Fox river of the Illinois, in that of Rock river and its branches, in the valley of Fox river of Green bay, in that of the Wisconsin, as well as near the waters of the Mississippi.

While a few circumvallations and immense mounds, such as are common to certain other portions of the United States, are discoverable in Wisconsin, yet by far the largest number of earthworks have one peculiarity not observable, except in a few instances, outside the State. This characteristic is a very striking one. The fact is revealed that they are imitative in form—resembling beasts, reptiles, birds, fish, man. All these, for convenience, are usually classed under the general name of "animal mounds," although some are in the similitude of trees, some of war clubs, others of tobacco pipes. Generally, these figures are in groups, though sometimes they are seen alone. For what purpose these earth-works were heaped up—they rise above the surface two, four, and sometimes six feet—or what particular uses they were intended to subserve, is unknown. It is, however, safe to affirm that they had some significance. A number resemble the bear; a few, the buffalo; others, the raccoon. Lizards, turtles, and even tadpoles, are outlined in the forms of some. The war eagle, and the war club has each its representative. All this, of course, could not have been a mere happening—the work of chance. The sizes of these mounds are as various as their forms. One near Cassville, in Grant county, very complete in its representation of an animal, supposed to be of the elephant species, was found, upon measurement, to have a total length of one hundred and thirty-five feet. Another in Sauk county, quite perfect in its resemblance to the form of a man, was of equal length—a veritable colossus; prone, it is true, and soon to disappear, if it has not already been destroyed, by ravages of a superior civilization.

In portions of Wisconsin, as well as in a few places outside the State, are found earth-works of another kind, but quite as remarkable as the "animal mounds," which, from their supposed use, have been styled "garden beds." They are ridges, or beds, about six inches in height and four feet in width, ranged, with much apparent method, in parallel rows, sometimes rectangular in shape, sometimes of various but regular and symmetrical curves, and occupying fields of from ten to a hundred acres.

The Mound-Builders have left many relics, besides their earthworks, to attest their presence in Wisconsin in ages past. Scattered widely are found stone and copper axes, spear-heads, and arrow-heads, also various other implement—evidently their handiwork. As these articles are frequently discovered many feet beneath the surface, it argues a high antiquity for the artificers. Whether they had the skill to mould their copper implements is doubtful. Such as plainly show the work of hammering, indicate an art beyond that possessed by the Red men who peopled America upon its first discovery by Europeans. In a few instances, fragments of human skulls have been found so well preserved as to enable a comparison to be drawn between the crania of

this ancient race and those of modern ones; the results, however, of these comparisons throw little, if any, light upon "the dark backward and abysm" of mound-building times.

The evidences of an extinct people of superior intelligence is very strikingly exhibited in the ancient copper mines of the Lake Superior region. Here are to be found excavations in the solid rock; heaps of rubble and dirt; copper utensils fashioned into knives, chisels, and spear and arrow-heads; stone hammers; wooden bowls and shovels; props and levers for raising and supporting the mass copper; and ladders for ascending and descending the pits. These mines were probably worked by people not only inhabiting what is now the State of Wisconsin, but territory farther to the southward. The copper was here obtained, it is believed, which has been found in many places, even as far away as the northern shore of the Gulf of Mexico, wrought into various implements and utensils. But there are no traces in Wisconsin of a "copper age" succeeding a "stone age," discernible in any prehistoric relics. They all refer alike to one age—the indefinite past; to one people—the Mound-Builders.

II.—THE INDIAN TRIBES OF WISCONSIN.

When, as early, it is believed, as 1634, civilized man first set foot upon the territory now included within the boundaries of Wisconsin, he discovered, to his surprise, that upon this wide area met and mingled clans of two distinct and wide-spread families—the Algonquins and Sioux. The tribes of the former, moving westward, checked the advance of the latter in their excursions eastward. As yet there had been no representatives of the Huron-Iroquois seen west of Lake Michigan—the members of this great family, at that date dwelling in safety in the extensive regions northward and southward of the Erie and Ontario lakes. Already had the French secured a foot-hold in the extensive valley of the St. Lawrence; and, naturally enough, the chain of the Great Lakes led their explorers to the mouth of Green bay, and up that water-course and its principal tributary, Fox river, to the Wisconsin, an affluent of the Mississippi. On the right, in ascending this bay, was seen, for the first time, a nation of Indians, lighter in complexion than neighboring tribes, and remarkably well formed, now well known as the **MENOMONEES**.

This nation is of Algonquin stock, but their dialect differed so much from the surrounding tribes of the same family, it having strange guttural sounds and accents, as well as peculiar inflections of verbs and other parts of speech, that, for a long time, they were supposed to have a distinct language. Their traditions point to an emigration from the East at some remote period. When first visited by the French missionaries, these Indians subsisted largely upon wild rice, from which they took their name. The harvest time of this grain was in the month of September. It grew spontaneously in little streams with slimy bottoms, and in marshy places. The harvesters went in their canoes across these watery fields, shaking the ears right and left as they advanced, the grain falling easily, if ripe, into the bark receptacle beneath. To clear it from chaff and strip it of a pellicle inclosing it, they put it to dry on a wooden lattice above a small fire, which was kept up for several days. When the rice was well dried, it was placed in a skin of the form of a bag, which was then forced into a hole, made on purpose, in the ground. They then tread it out so long and so well, that the grain being freed from the chaff, was easily winnowed. After this, it was pounded to meal, or left unpounded, and boiled in water seasoned with grease. It thus became a very palatable diet. It must not be inferred that this was the only food of the Menomonees; they were adepts in fishing, and hunted with skill the game which abounded in the forests.

For many years after their discovery, the Menomonees had their homes and hunting

grounds upon, or adjacent to, the Menomonee river. Finally, after the lapse of a century and a quarter, down to 1760, when the French yielded to the English all claims to the country, the territory of the Menomonees had shifted somewhat to the westward and southward, and their principal village was found at the head of Green bay, while a smaller one was still in existence at the mouth of their favorite stream. So slight, however, had been this change, that the country of no other of the surrounding tribes had been encroached upon by the movement.

In 1634, the Menomonees probably took part in a treaty with a representative of the French, who had thus early ventured so far into the wilds of the lake regions. More than a score of years elapsed before the tribe was again visited by white men,—that is to say, there are no authentic accounts of earlier visitations. In 1660, Father René Menard had penetrated the Lake Superior country as far, at least, as Kewenaw, in what is now the northern part of Michigan, whence some of his French companions probably passed down the Menomonee river to the waters of Green bay the following year; but no record of the Indians, through whose territory they passed, was made by these voyagers. Ten years more—1670—brought to the Menomonees (who doubtless had already been visited by French fur-traders) Father Claudius Allouez, to win them to Christianity. He had previously founded a mission upon the bay of Chegoimegon, now Chaquamegon, or Ashland bay, an arm of Lake Superior, within the present State of Wisconsin, in charge of which, at that date, was Father James Marquette. Proceeding from the "Sault" on the third of November, Allouez, early in December, 1669, reached the mouth of Green bay, where, on the third, in an Indian village of Sacs, Pottawattamies, Foxes and Winnebagoes, containing about six hundred souls, he celebrated the holy mass for the first time upon this new field of his labors,—eight Frenchmen, traders with the Indians, whom the missionary found there upon his arrival, taking part in the devotions. His first Christian work with the Menomonees was performed in May of the next year. Allouez found this tribe a feeble one, almost exterminated by war. He spent but little time with them, embarking, on the twentieth of that month, after a visit to some Pottawattamies and Winnebagoes, "with a Frenchman and a savage to go to Sainte Mary of the Sault." His place was filled by Father Louis André, who, not long after, erected a cabin upon the Menomonee river, which, with one at a village where his predecessor had already raised the standard of the cross, was soon burned by the savages; but the missionary, living almost constantly in his canoe, continued for some time to labor with the Menomonees and surrounding tribes. The efforts of André were rewarded with some conversions among the former; for Marquette, who visited them in 1673, found many good Christians among them.

The record of ninety years of French domination in Wisconsin—beginning in June, 1671, and ending in October, 1761—brings to light but little of interest so far as the Menomonees are concerned. Gradually they extended their intercourse with the white fur traders. Gradually and with few interruptions (one in 1728, and one in 1747 of a serious character) they were drawn under the banner of France, joining with that government in its wars with the Iroquois; in its contests, in 1712, 1729, 1730, and 1751, with the Foxes; and, subsequently, in its conflicts with the English.

The French post, at what is now Green Bay, Brown county, Wisconsin, was, along with the residue of the western forts, surrendered to the British in 1763, although actual possession of the former was not taken until the Fall of the next year. The land on which the fort stood was claimed by the Menomonees. Here, at that date, was their upper and principal village, the lower one being at the mouth of the Menomonee river. These Indians soon became reconciled to the English occupation of their territory, notwithstanding the machinations of French traders who endeavored to prejudice them against the new comers. The Menomonees, at this time, were very much reduced, having, but a short time previous, lost three hundred of their warriors

by the small pox, and most of their chiefs in the late war in which they had been engaged by the then French commander there, against the English. They were glad to substitute English for French traders; as they could purchase supplies of them at one half the price they had previously paid. It was not long before the sincerity of the Menomonees was put to the test. Pontiac's War of 1763 broke out, and the post of Mackinaw was captured. The garrison, however, at Green Bay was not only not attacked by the savages, but, escorted by the Menomonees and other tribes, crossed Lake Michigan in safety to the village of L'Arbre Croche; thence making their way to Montreal. The Menomonees continued their friendship to the English, joining with them against the Colonies during the Revolution, and fighting on the same side during the war of '812-15.

When, in July, 1816, an American force arrived at Green Bay to take possession of the country, the Menomonees were found in their village near by, very peaceably inclined. The commander of the troops asked permission of their chief to build a fort. "My Brother!" was the response, "how can we oppose your locating a council-fire among us? You are too strong for us. Even if we wanted to oppose you we have scarcely got powder and ball to make the attempt. One favor we ask is, that our French brothers shall not be disturbed. You can choose any place you please for your fort, and we shall not object." No trouble had been anticipated from the Menomonees, and the expectations of the government of the United States in that regard were fully realized. What added much to the friendship now springing up between the Menomonees and the Americans was the fact that the next year—1817—the annual contribution, which for many years had been made by the British, consisting of a shirt, leggins, breech-clout and blanket for each member of the tribe, and for each family a copper kettle, knives, axes, guns and ammunition, was withheld by them.

It was found by the Americans, upon their occupation of the Menomonee territory, that some of the women of that tribe were married to traders and boatmen who had settled at the head of the bay, there being no white women in that region. Many of these were Canadians of French extraction; hence the anxiety that they should be well treated, which was expressed by the Menomonees upon the arrival of the American force. At this period there was a considerable trade carried on with these Indians at Prairie du Chien, as many of them frequently wintered on the Mississippi. The first regular treaty with this tribe was "made and concluded" on the thirtieth day of March, 1817, "by and between William Clark, Ninian Edwards, and Auguste Chouteau, commissioners on the part and behalf of the United States of America, of the one part," and the chiefs and warriors, deputed by the Menomonees, of the other part. By the terms of this compact all injuries were to be forgiven and forgotten; perpetual peace established; lands, heretofore ceded to other governments, confirmed to the United States; all prisoners to be delivered up; and the tribe placed under the protection of the United States, "and of no other nation, power, or sovereign, whatsoever." The Menomonees were now fully and fairly, and for the first time, entitled to be known as "American Indians," in contradistinction to the term which had been so long used as descriptive of their former allegiance—"British Indians."

The territory of the Menomonees, when the tribe was taken fully under the wing of the General Government, had become greatly extended. It was bounded on the north by the dividing ridge between the waters flowing into Lake Superior and those flowing south into Green Bay and the Mississippi; on the east, by Lake Michigan; on the south, by the Milwaukee river, and on the west by the Mississippi and Black rivers. This was their territory; though they were practically restricted to the occupation of the western shore of Lake Michigan, lying between the mouth of Green Bay on the north and the Milwaukee river on the south, and to a somewhat indefinite area west. Their general claim as late as 1825, was north to the Chippewa country:

east to Green bay and Lake Michigan; south to the Milwaukee river, and west to Black river. And what is most surprising is that the feeble tribe of 1761 had now, in less than three quarters of a century, become a powerful nation, numbering between three and four thousand.

The Menomonee territory, as late as 1831, still preserved its large proportions. Its eastern division was bounded by the Milwaukee river, the shore of Lake Michigan, Green bay, Fox river, and Winnebago lake; its western division, by the Wisconsin and Chippewa rivers on the west; Fox river on the south; Green bay on the east, and the high lands whence flow the streams into Lake Superior, on the north. This year, however, it was shorn of a valuable and large part by the tribe ceding to the United States all the eastern division, estimated at two and one half million acres. The following year, the Menomonees aided the General Government in the Black Hawk war.

That the Menomonees might, as much as possible, be weaned from their wandering habits, their permanent home was designated to be a large tract lying north of Fox river and east of Wolf river. Their territory farther west, was reserved for their hunting grounds until such time as the General Government should desire to purchase it. In 1836, another portion, amounting to four million acres, lying between Green bay on the east and Wolf river on the west, was disposed of to the United States, besides a strip three miles in width from near the portage north, on each side of the Wisconsin river and forty-eight miles long—still leaving them in peaceable possession of a country about one hundred and twenty miles long, and about eighty broad.

Finally, in 1848, the Menomonees sold all their lands in Wisconsin to the General Government, preparatory to their movement to a reservation beyond the Mississippi of six hundred thousand acres; but the latter tract was afterward re-ceded to the United States; for, notwithstanding there were treaty stipulations for the removal of the tribe to that tract, there were obstacles in the way of their speedy migration, resulting, finally, in their being permitted to remain in Wisconsin. Lands, to the amount of twelve townships, were granted them for their permanent homes, on the upper Wolf river, in what is now Shawano and Oconto counties—a portion, but a very small one, of what was once their extensive possessions. To this reservation they removed in October, 1852. Thus are the Menomonees, the only one of the original tribes of Wisconsin who, as a whole, have a local habitation within its limits. This tribe refused to join the Sioux in their outbreak in 1861, and several of their warriors served as volunteers in the United States army during the late civil war.

It is now over two centuries since the civilized world began to gain knowledge of the existence, in the far West, of a tribe of Indians known as the WINNEBAGOES—that is, *men of the sea*; pointing, possibly, to their early migration from the shores of the Mexican gulf, or the Pacific. The territory now included within the limits of Wisconsin, and so much of the State of Michigan as lies north of Green bay, Lake Michigan, the Straits of Mackinaw and Lake Huron were, in early times, inhabited by several tribes of the Algonquin race, forming a barrier to the Dakotas, or Sioux, who had advanced eastward to the Mississippi. But the Winnebagoes, although one of the tribes belonging to the family of the latter, had passed the great river, at some unknown period, and settled upon the head waters of Green bay. Here, this "sea-tribe," as early, it is believed, as 1634, was visited by an agent of France and a treaty concluded with them. The tribe afterward called themselves Hochungara, or Ochunkoraw, but were styled by the Sioux, Hotanke, or Sturgeon. Nothing more is heard of the Ouenibigoutz, or Winnebougouk (as the Winnebagoes were early called by the Jesuit missionaries, and the Algonquin tribes, meaning men from the fetid or salt water, translated by the French, Puants) for the next thirty-five years, although there is no doubt that the tribe had been visited meanwhile by adventurous Frenchmen, when on the second of December, 1669, some of that nation were noted at a Sac (Sauk or Saukis) village on Green bay, by Father Allouez.

As early at least as 1670, the French were actively engaged among the Winnebagoes trading. "We found affairs," says one of the Jesuit missionaries, who arrived among them in September of that year, "we found affairs there in a pretty bad posture, and the minds of the savages much soured against the French, who were there trading; ill-treating them in deeds and words, pillaging and carrying away their merchandise in spite of them, and conducting themselves toward them with insupportable insolences and indignities. The cause of this disorder," adds the missionary, "is that they had received some bad treatment from the French, to whom they had this year come to trade, and particularly from the soldiers, from whom they pretended to have received many wrongs and injuries." It is thus made certain that the arms of France were carried into the territory of the Winnebagoes over two hundred years ago.

The Fox river of Green bay was found at that date a difficult stream to navigate. Two Jesuits who ascended the river in 1670, had "three or four leagues of rapids to contend with," when they had advanced "one day's journey" from the head of the bay, "more difficult than those which are common in other rivers, in this, that the flints, over which" they had to walk with naked feet to drag their canoes, were so "sharp and so cutting, that one has all the trouble in the world to hold one's self steady against the great rushing of the waters." At the falls they found an idol that the savages honored; "never failing, in passing, to make him some sacrifice of tobacco, or arrows, or paintings, or other things, to thank him that, by his assistance, they had, in ascending, avoided the dangers of the waterfalls which are in this stream; or else, if they had to ascend, to pray him to aid them in this perilous navigation." The devout missionaries caused the idol "to be lifted up by the strength of arm, and cast into the depths of the river, to appear no more" to the idolatrous savages.

The mission of St. Francis Xavier, founded in December, 1669, by Allouez, was a roving one among the tribes inhabiting the shores of Green bay and the interior country watered by the Fox river and its tributaries, for about two years, when its first mission-house was erected at what is now Depere, Brown county. This chapel was soon after destroyed by fire, but was rebuilt in 1676.

The Winnebagoes, by this time, had not only received considerable spiritual instruction from the Jesuit fathers, but had obtained quite an insight into the mysteries of trading and trafficking with white men; for, following the footsteps of the missionaries, and sometimes preceding them, were the ubiquitous French fur traders. It is impossible to determine precisely what territory was occupied by the Winnebagoes at this early date, farther than that they lived near the head of Green bay.

A direct trade with the French upon the St. Lawrence was not carried on by the Winnebagoes to any great extent until the beginning of the eighteenth century. As early as 1679, an advance party of La Salle had collected a large store of furs at the mouth of Green bay, doubtless in a traffic with this tribe and others contiguous to them; generally, however, the surrounding nations sold their peltries to the Ottawas, who disposed of them, in turn, to the French. The commencement of the eighteenth century found the Winnebagoes firmly in alliance with France, and in peace with the dreaded Iroquois. In 1718, the nation numbered six hundred. They were afterward found to have moved up Fox river, locating upon Winnebago lake, which stream and lake were their ancient seat, and from which they had been driven either by fear or the prowess of more powerful tribes of the West or Southwest. Their intercourse with the French was gradually extended and generally peaceful, though not always so, joining with them, as did the Menomonees, in their wars with the Iroquois, and subsequently in their conflicts with the English, which finally ended in 1760.

When the British, in October, 1761, took possession of the French post, at the head of

Green bay, the Winnebagoes were found to number one hundred and fifty warriors only; their nearest village being at the lower end of Winnebago lake. They had in all not less than three towns. Their country, at this period, included not only that lake, but all the streams flowing into it, especially Fox river; afterward extended to the Wisconsin and Rock rivers. They readily changed their course of trade—asking now of the commandant at the fort for English traders to be sent among them. In the Indian outbreak under Pontiac in 1763, they joined with the Menomonees and other tribes to befriend the British garrison at the head of the bay, assisting in conducting them to a place of safety. They continued their friendship to the English during the Revolution, by joining with them against the colonies, and were active in the Indian war of 1790-4, taking part in the attack on Fort Recovery, upon the Maumee, in the present State of Ohio, in 1793. They fought also on the side of the British in the war of 1812-15, aiding, in 1814, to reduce Prairie du Chien. They were then estimated at 4,500. When, in 1816, the government of the United States sent troops to take possession of the Green bay country, by establishing a garrison there, some trouble was anticipated from these Indians, who, at that date, had the reputation of being a bold and warlike tribe. A deputation from the nation came down Fox river and remonstrated with the American commandant at what was thought to be an intrusion. They were desirous of knowing why a fort was to be established so near them. The reply was that, although the troops were armed for war if necessary, their purpose was peace. Their response was an old one: "If your object is peace, you have too many men; if war, you have too few." However, the display of a number of cannon which had not yet been mounted, satisfied the Winnebagoes that the Americans were masters of the situation, and the deputation gave the garrison no farther trouble. On the 3d of June, 1816, at St. Louis, the tribe made a treaty of peace and friendship with the General Government; but they continued to levy tribute on all white people who passed up Fox river. English annuities also kept up a bad feeling. At this time, a portion of the tribe was living upon the Wisconsin river, away from the rest of the nation, which was still seated upon the waters flowing into Green bay. In 1820, they had five villages on Winnebago lake and fourteen on Rock river. In 1825, the claim of the Winnebagoes was an extensive one, so far as territory was concerned. Its southeast boundary stretched away from the source of Rock river to within forty miles of its mouth, in Illinois, where they had a village. On the west it extended to the heads of the small streams flowing into the Mississippi. To the northward, it reached Black river and the upper Wisconsin, in other words, to the Chippewa territory, but did not extend across Fox river, although they contended for the whole of Winnebago lake. In 1829, a large part of their territory in southwest Wisconsin, lying between Sugar river and the Mississippi, and extending to the Wisconsin river, was sold to the General Government; and, three years later all the residue lying south and east of the Wisconsin and the Fox river of Green bay; the Winnebago prophet having before that date supported the Sacs in their hostility. Finally, in the brief language of the treaty between this tribe (which had become unsettled and wasteful) and the United States, of the first of November, 1837, "The Winnebago Nation of Indians" ceded to the General Government "all their lands east of the Mississippi." Not an acre was reserved. And the Indians agreed that, within eight months from that date, they would move west of "the great river." This arrangement, however, was not carried out fully. In 1842, there were only 756 at Turkey river, Iowa, their new home, with as many in Wisconsin, and smaller bands elsewhere. All had become lawless, and roving. Some removed in 1848; while a party to the number of over eight hundred left the State as late as 1873. The present home of the tribe is in Nebraska, where they have a reservation north of and adjacent to the Omahas, containing over one hundred thousand acres. However, since their first removal beyond the Mississippi, they have several times

changed their place of abode. Their number, all told, is less than twenty-five hundred.

When the territory, now constituting the northern portion of Wisconsin, became very generally known to the civilized inhabitants of the eastern part of the United States, it was found to be occupied by Indians called the CHIPPEWAS. Their hunting-grounds extended south from Lake Superior to the heads of the Menomonee, the Wisconsin and Chippewa rivers; also farther eastward and westward. At an early day they were engaged in a war with the Sioux—a war indeed, which was long continued. The Chippewas, however, persistently maintained their position—still occupying the same region when the General Government extended its jurisdiction over the whole country south of the Great Lakes and west to the Mississippi.

By treaties with the Chippewas at different periods, down to the year 1827, the General Government had recognized them as the owners of about one quarter of what is now the entire State. The same policy was pursued toward this tribe as with neighboring ones, in the purchase of their lands by the United States. Gradually they parted with their extensive possessions, until, in 1842, the last acre within what is now Wisconsin was disposed of. It was the intention of the General Government to remove the several bands of the Chippewas who had thus ceded their lands to a tract reserved for them beyond the Mississippi; but this determination was afterward changed so as to allow them to remain upon certain reservations within the limits of their old-time hunting grounds. These reservations they continue to occupy. They are located in Bayfield, Ashland, Chippewa and Lincoln counties. The clans are known, respectively, as the Red Cliff band, the Bad River band, the Lac Courte Oreille band, and the Lac de Flambeau band.

Of all the tribes inhabiting what is now Wisconsin when its territory was first visited by white men, the SACS (Sauks or Saukies) and FOXES (Outagamies) are, in history, the most noted. They are of the Algonquin family, and are first mentioned in 1665, by Father Allouez, but as separate tribes. Afterward, however, because of the identity of their language, and their associations, they were and still are considered as one nation. In December, 1669, Allouez found upon the shores of Green bay a village of Sacs, occupied also by members of other tribes; and early in 1670 he visited a village of the same Indians located upon the Fox river of Green bay, at a distance of four leagues from its mouth. Here a device of these Indians for catching fish arrested the attention of the missionary. "From one side of the river to the other," he writes, "they made a barricade, planting great stakes, two fathoms from the water, in such a manner that there is, as it were, a bridge above for the fishes, who by the aid of a little bow-net, easily take sturgeons and all other kinds of fish which this pier stops, although the water does not cease to flow between the stakes." When the Jesuit father first obtained, five years previous, a knowledge of this tribe, they were represented as savage above all others, great in numbers, and without any permanent dwelling place. The Foxes were of two stocks: one calling themselves Outagamies or Foxes, whence our English name; the other, Musquakink, or men of red clay, the name now used by the tribe. They lived in early times with their kindred the Sacs east of Detroit, and as some say near the St. Lawrence. They were driven west, and settled at Saginaw, a name derived from the Sacs. Thence they were forced by the Iroquois to Green bay; but were compelled to leave that place and settle on Fox river.

Allouez, on the twenty-fourth of April, 1670, arrived at a village of the Foxes, situated on Wolf river, a northern tributary of the Fox. "The nation," he declares, "is renowned for being numerous; they have more than four hundred men bearing arms; the number of women and children is greater, on account of polygamy which exists among them—each man having commonly four wives, some of them six, and others as high as ten." The missionary found that the Foxes had retreated to those parts to escape the persecutions of the Iroquois. Allouez established among these Indians his mission of St. Mark, rejoicing in the fact that in less than

two years he had baptized "sixty children and some adults." The Foxes, at the summons of De la Barre, in 1684, sent warriors against the Five Nations. They also took part in Denonville's more serious campaign; but soon after became hostile to the French. As early as 1693, they had plundered several on their way to trade with the Sioux, alleging that they were carrying arms and ammunition to their ancient enemies—frequently causing them to make portages to the southward in crossing from Lake Michigan to the Mississippi. Afterward they became reconciled to the French; but the reconciliation was of short duration. In 1712, Fort Detroit, then defended by only a handful of men, was attacked by them in conjunction with the Mascoutens and Kickapoos. However, in the end, by calling in friendly Indians, the garrison not only protected themselves but were enabled to act on the offensive, destroying the greater part of the besieging force.

The nation continued their ill will to the French. The consequence was that their territory in 1716 had been invaded and they were reduced to sue for peace. But their friendship was not of long continuance. In 1718, the Foxes numbered five hundred men and "abounded in women and children." They are spoken of at that date as being very industrious, raising large quantities of Indian corn. In 1728, another expedition was sent against them by the French. Meanwhile the Menomonees had also become hostile; so, too, the Sacs, who were now the allies of the Foxes. The result of the enterprise was, an attack upon and the defeat of a number of Menomonees; the burning of the wigwams of the Winnebagoes (after passing the deserted village of the Sacs upon the Fox river), that tribe, also, at this date being hostile; and the destruction of the fields of the Foxes. They were again attacked in their own country by the French, in 1730, and defeated. In 1734, both the Sacs and Foxes came in conflict with the same foe; but this time the French were so successful as on previous expeditions. In 1736, the Sacs and Foxes were "connected with the government of Canada;" but it is certain they were far from being friendly to the French.

The conflict between France and Great Britain commencing in 1754, found the Sacs and Foxes allied with the former power, against the English, although not long previous to this time they were the bitter enemies of the French. At the close of that contest so disastrous to the interests of France in North America, these tribes readily gave in their adhesion to the conquerors, asking that English traders might be sent them. The two nations, then about equally divided, numbered, in 1761, about seven hundred warriors. Neither of the tribes took part in Pontiac's war, but they befriended the English. The Sacs had migrated farther to the westward; but the Foxes—at least a portion of them—still remained upon the waters of the river of Green bay, which perpetuates their name. A few years later, however, and the former were occupants of the upper Wisconsin; also, to a considerable distance below the portage, where their chief town was located. Further down the same stream was the upper village of the Foxes, while their lower one was situated near its mouth at the site of the present city of Prairie du Chien. At this date, 1766, the northern portion of what is now Wisconsin, including all that part watered by the streams flowing north into Lake Superior, was the home of the Chippewas. The country around nearly the whole of Green bay was the hunting ground of the Menomonees. The territory of Winnebago lake and Fox river was the seat of the Winnebagoes. The region of the Wisconsin river was the dwelling place of the Sacs and Foxes.

During the war of the Revolution, the Sacs and Foxes continued the firm friends of the English. At the commencement of the nineteenth century, only a small part of their territory was included in what is now Wisconsin, and that was in the extreme southwest. In 1804, they ceded this to the United States; so that they no longer were owners of any lands within this State. From that date, therefore, these allied tribes can not be considered as belonging to the

Indian nations of Wisconsin. A striking episode in their subsequent history — the Black Hawk War — comes in, notwithstanding, as a part, incidentally, of the annals of the State.

Deserving a place in a notice of the Indian tribes of Wisconsin is the nation known as the **POTTAWATTAMIES**. As early as 1639, they were the neighbors of the Winnebagoes upon Green bay. They were still upon its southern shore, in two villages, in 1670; and ten years subsequent to that date they occupied, at least in one village the same region. At the expiration of the first quarter of the eighteenth century, a part only of the nation were in that vicinity — upon the islands at the mouth of the bay. These islands were then known as the Pottawattamie islands, and considered as the ancient abode of these Indians. Already had a large portion of this tribe emigrated southward, one band resting on the St. Joseph of Lake Michigan, the other near Detroit. One peculiarity of this tribe — at least of such as resided in what is now Wisconsin — was their intimate association with neighboring bands. When, in 1669, a village of the Pottawattamies, located upon the southeast shore of Green bay, was visited by Allouez, he found with them Sacs and Foxes and Winnebagoes. So, also, when, many years subsequent to that date, a band of these Indians were located at Milwaukee, with them were Ottawas and Chippewas. These "united tribes" claimed all the lands of their respective tribes and of other nations, giving the United States, when possession was taken of the western country by the General Government, no little trouble. Finally, by a treaty, held at Chicago in 1833, their claims, such as they were, to lands along the western shore of Lake Michigan, within the present State of Wisconsin, extending westward to Rock river, were purchased by the United States, with permission to retain possession three years longer of their ceded lands, after which time this "united nation of Chippewas, Ottawas and Pottawattamies" began to disappear, and soon were no longer seen in southeastern Wisconsin or in other portions of the State.

Besides the five tribes — Menomonees, Winnebagoes, Chippewas, Sacs and Foxes, and Pottawattamies — many others, whole or in part, have, since the territory now constituting the State was first visited by white men, been occupants of its territory. Of these, some are only known as having once lived in what is now Wisconsin; others — such as the Hurons, Illinois, Kickapoos, Mascoutens, Miamis, Noquets, Ottawas and Sioux, are recognized as Indians once dwelling in this region; yet so transitory has been their occupation, or so little is known of their history, that they scarcely can be claimed as belonging to the State.

Commencing in 1822, and continuing at intervals through some of the following years, was the migration to Wisconsin from the State of New York of the remains or portions of four tribes: the Oneidas, Stockbridges, Munsees and Brothertowns. The Oneidas finally located west of Green Bay, where they still reside. Their reservation contains over 60,000 acres, and lies wholly within the present counties of Brown and Outagamie. The Stockbridges and Munsees, who first located above Green Bay, on the east side of Fox river, afterward moved to the east side of Winnebago lake. They now occupy a reservation joining the southwest township of the Menomonee reservation, in Shawano county, and are fast becoming citizens. The Brothertowns first located on the east side of Fox river, but subsequently moved to the east side of Winnebago lake, where, in 1839, they broke up their tribal relations and became citizens of Wisconsin territory.

III.—PRE-TERRITORIAL ANNALS OF WISCONSIN.

When, in 1634, the first white man set foot upon any portion of the territory now constituting the State of Wisconsin, the whole country was, of course, a wilderness. Its inhabitants, the aboriginal Red men, were thinly but widely scattered over all the country. JOHN NICOLEY, a Frenchman, who had been in Canada since 1618, and had spent several years among the

Indians, was the first of civilized men to unlock the mystery of its situation and people. French authorities upon the St. Lawrence sent him as an ambassador to the Winnebagoes, of whom he had heard strange stories. On his outward voyage he visited the Hurons—allies of the French—a tribe seated upon the eastern side of the lake which bears their name, and Nicolet was empowered to negotiate a peace with them. "When he approached the Winnebago town, he sent some of his Indian attendants to announce his coming, put on a robe of damask, and advanced to meet the expectant crowd with a pistol in each hand. The squaws and children fled, screaming that it was a manito, or spirit, armed with thunder and lightning; but the chiefs and warriors regaled him with so bountiful a hospitality, that a hundred and twenty beavers were devoured at a single feast." Such was the advent of the daring Frenchman into what is now the State of Wisconsin.

"Upon the borders of Green bay," wrote the Jesuit, Paul le Jeune, in 1640, "are the Menomonees; still farther on, the Winnebagoes, a sedentary people, and very numerous. Some Frenchmen," he continues, "call them the 'Nation of the Stinkards,' because the Algonquin word *Winipeg* signifies 'stinking water.' Now they thus call the water of the sea; therefore, these people call themselves 'Winnebagoes,' because they came from the shores of a sea of which we have no knowledge; consequently we must not call them the 'Nation of Stinkards,' but the 'Nation of the Sea.'" From these Men of the Sea, Nicolet passed westward, ascended Fox river of Green Bay, until nigh the portage to the Wisconsin, down which stream he could have floated easily to the Mississippi, the "great water" of his guides, which he mistook for the sea. This adventurous Frenchman, when so near re-discovering the river which has given immortality to De Soto, turned his face to the eastward; retraced his steps to Green bay, and finally returned in safety to Quebec. This was the first exploration of what is now Wisconsin—only fourteen years after the landing of the Pilgrims upon the wild shores of New England.

Wisconsin, for twenty-four years after its discovery, was left to its savage inhabitants. At length, in 1658, two daring fur traders penetrated to Lake Superior, and wintered there. They probably set foot upon what is now Wisconsin soil, as they made several trips among the surrounding tribes. They saw, among other things, at six days' journey beyond the lake, toward the southwest, Indians that the Iroquois had driven from their homes upon the eastern shores of Lake Huron. These Frenchmen heard of the ferocious Sioux, and of a great river—not the sea, as Nicolet had supposed—on which they dwelt. This was the Mississippi; and to these traders is the world indebted for a knowledge of its existence; as De Soto's discovery was never used, and soon became well-nigh, if not entirely, forgotten. From these upper countries, in the Summer of 1660, the two returned to Quebec, with three hundred Indians in sixty canoes, laden with peltry. This was, indeed, the dawn—though exceedingly faint—of what is now the commerce of the great Northwest. Nineteen years after flashed a more brilliant light; for, in 1679, the "Griffin," laden with furs, left one of the islands at the mouth of Green bay, on its return—spreading her sails for Niagara, but never more to be heard of.

Following in the footsteps of the fur traders came the Jesuit missionaries to Lake Superior; one of them, Father Menard, as early as 1660, reaching its southern shore as far to the westward, probably, as Kewenaw, in the present State of Michigan. There is no positive evidence, however, that he or his French companions, visited any portion of what is now Wisconsin; although the next year, 1661, some of his associates probably passed down the Menomonee river to Green bay. Following Menard came Father Claude Allouez, arriving on the first day of October, 1665, at "Chagowamigong," or "Chegoimegon," now Chequamegon, or Ashland Bay, "at the bottom of which," wrote the missionary, "is situated the great villages of the savages, who there plant their fields of Indian corn, and lead a stationary life." Near by he erected a small chapel of bark—the

first structure erected by civilized man in Wisconsin. At La Pointe, in the present Ashland county, he established the mission of the Holy Ghost.

The next Catholic mission in what is now Wisconsin was that of St. Francis Xavier, founded also by Allouez. Upon the second of December, 1669, he first attended to his priestly devotions upon the waters of Green bay. This mission, for the first two years of its existence, was a migratory one. The surrounding tribes were all visited, including the Pottawattamies, Menomonees, Winnebagoes, and Sacs and Foxes. However, in 1671, one hundred and five years before the Declaration of Independence, there was erected, at what is now Depere, Brown county, a chapel for the mission of St. Francis Xavier. Thus early did the Jesuit Fathers, in their plain garbs and unarmed, carry the cross to many of the benighted heathen occupying the country circumscribed by Lakes Michigan, Huron and Superior, and the "great river"—the Mississippi.

French domination in Wisconsin dates from the year 1671, the very year in which it seems the indomitable LaSalle, upon his first expedition, passed the mouth of Green bay, but did not enter it. France then took formal possession of the whole of the country of the upper lakes. By this time, the commerce with the western tribes had so attached them to her interests that she determined to extend her power to the utmost limits—vague and indeterminate as they were—of Canada. An agent—Daumont de St. Lussou—was dispatched to the distant tribes, proposing a congress of Indian nations at the Falls of Ste. Mary, between Lake Huron and Lake Superior. The invitation was extended far and near. The principal chiefs of Wisconsin tribes, gathered by Nicolas Perrot in Green bay, were present at the meeting. Then and there, with due ceremony, it was announced that the great Northwest was placed under the protection of the French government. And why not? She had discovered it—had to a certain extent explored it—had to a limited extent established commerce with it—and her missionaries had proclaimed the faith to the wondering savages. But none of her agents—none of the fur-traders—none of the missionaries—had yet reached the Mississippi, the "great river," concerning which so many marvels had been heard, although it is claimed that, in 1669, it had been seen by the intrepid La Salle. But the time for its discovery, or properly re-discovery, was at hand, if, indeed, it can be called, with propriety, a re-discovery, since its existence to the westward was already known to every white man particularly interested in matters appertaining to the Northwest. Now, however, for the first time, its upper half was to be, to a certain extent, explored. For the first time, a white man was to behold its vast tribute, above the Illinois river, rolling onward toward the Mexican gulf. Who was that man? His name was Louis Joliet; with him was Father James Marquette.

Born at Quebec, in 1645, educated by the Jesuits, and first resolving to be a priest, then turning fur-trader, Joliet had, finally, been sent with an associate to explore the copper mines of Lake Superior. He was a man of close and intelligent observation, and possessed considerable mathematical acquirements. At this time, 1673, he was a merchant, courageous, hardy, enterprising. He was appointed by French authorities at Quebec to "discover" the Mississippi. He passed up the lakes to Mackinaw, and found at Point St. Ignace, on the north side of the strait, Father James Marquette, who readily agreed to accompany him. Their outfit was very simple: two birch-bark canoes and a supply of smoked meat and Indian corn. They had a company of five men with them, beginning their voyage on the seventeenth of May, 1673. Passing the straits, they coasted the northern shores of Lake Michigan, moved up Green bay and Fox river to the portage. They crossed to the Wisconsin, down which they paddled their frail canoes, until, on the seventeenth of June, they entered—"discovered"—the Mississippi. So the northern, the eastern and the western boundary of what is now Wisconsin had been reached at this date; therefore, it may be said that its territory had been explored sufficiently for the forming of a

pretty correct idea of its general features as well as of its savage inhabitants. After dropping down the Mississippi many miles, Joliet and Marquette returned to Green bay, where the latter remained to recruit his exhausted strength, while Joliet descended to Quebec, to report his "discoveries" to his superiors.

Then followed the expedition of LaSalle to the west, from the St. Lawrence, when, in 1679, he and Father Louis Hennepin coasted along the western shore of Lake Michigan, frequently landing; then, the return of Henri de Tonty, one of LaSalle's party down the same coast to Green bay, in 1680, from the Illinois; the return, also, the same year, of Hennepin, from up the Mississippi, whither he had made his way from the Illinois, across what is now Wisconsin, by the Wisconsin and Fox rivers to Green bay, in company with DuLhut, or DuLuth, who, on his way down the "great river" from Lake Superior, had met the friar; and then, the voyage, in 1683, from Lake Michigan to the Mississippi river, by the same route, of LeSueur, and his subsequent establishment at La Pointe, in what is now Ashland county, Wisconsin, followed several years after by a trip up the Mississippi. The act of Daumont de St. Lussou, at the Sault Sainte Mary, in 1671, in taking possession of the country beyond Lake Michigan, not being regarded as sufficiently definite, Nicolas Perrot, in 1689, at Green bay, again took possession of that territory, as well as of the valleys of the Fox and Wisconsin rivers, and extending the dominion of New France over the country on the Upper Mississippi, and "to other places more remote." The voyage of St. Cosme, in 1699, when he and his companions frequently landed on the west coast of Lake Michigan, upon what is now territory of Wisconsin, completed the explorations in the west for the seventeenth century.

Following in the footsteps of early explorations, of self sacrificing attempts of the Jesuits to carry the cross to the wild tribes of the West, of the first visits of the lawless *coureurs de bois*, was the military occupation—if such it can be called—of what is now Wisconsin by the French. The ninety years of domination by France in this region were years of only nominal possession. The record of this occupation is made up of facts concerning the Indian policy of the French rulers; their contests with the Sacs and Foxes; their treaties, at various times, with different tribes; their interest in, and protection of, the fur trade, and kindred subjects. The Indian tribes were, at most, only the allies of France. Posts—mere stockades without cannon, more for protection to fur-traders than for any other purpose—were erected upon the Mississippi at two points at least, upon what is now territory of Wisconsin. On the west side of Fox river of Green bay, "half a league from its mouth," was a French post, as early as 1721, where resided, besides the commandant and an uncouth squad of soldiers, a Jesuit missionary; and near by were collected Indians of different tribes. Of course, the omnipresent fur-trader helped to augment the sum-total of its occupants. This post was, not long after, destroyed, but another was established there. When, however, France yielded her inchoate rights in the West to Great Britain—when, in 1761, the latter took possession of the country—there was not a French post within what is now Wisconsin. The "fort" near the head of Green bay, had been vacated for some years; it was found "rotten, the stockade ready to fall, and the houses without cover;" emblematic of the decay—the fast-crumbing and perishing state—of French supremacy, at that date, in America. Wisconsin, when England's control began, was little better than a howling wilderness. There was not within the broad limits of what is now the State, a single *bona fide* settler, at the time the French Government yielded up its possession to the English; that is to say, there were none according to the present acceptance of the term "settler."

The military occupation of Wisconsin by the British, after the Seven Years' War, was a brief one. La Bay—as the post at what is now the city of Fort Howard, Brown county, was called—was, on the twelfth of October, 1761, taken possession of by English troops, under Captain Belfour, of the Eightieth regiment. Two days after, that officer departed, leaving Lieutenant

James Gorrell, in command, with one sergeant, one corporal and fifteen privates. There also remained at the post a French interpreter and two English traders. The name of the fortification was changed to Fort Edward Augustus. This post was abandoned by the commandant on the twenty-first of June, 1763, on account of the breaking out of Pontiac's War and the capture of the fort at Mackinaw by the savages. The cause of this war was this: The Indian tribes saw the danger which the downfall of the French interests in Canada was sure to bring to them. They banded together under Pontiac to avert their ruin. The struggle was short but fierce—full of "scenes of tragic interest, with marvels of suffering and vicissitude, of heroism and endurance;" but the white man conquered. The moving incidents in this bloody drama were enacted to the eastward of what is now Wisconsin, coming no nearer than Mackinaw, which, as just mentioned, the savages captured; but it resulted in the evacuation of its territory by British troops, who never after took possession of it, though they continued until 1796 a nominal military rule over it, after Mackinaw was again occupied by them.

An early French Canadian trading station at the head of Green bay assumed finally the form of a permanent settlement—the first one in Wisconsin. To claim, however that any French Canadian is entitled to the honor of being the first permanent white settler is assuming for him more than the facts seem to warrant. The title of "The Father and Founder of Wisconsin" belongs to no man.

After Pontiac's War, one of the noted events in this region was the journey of Jonathan Carver, who, in 1766, passed up Fox river to the portage, and descended the Wisconsin to the Mississippi. He noticed the tumbling-down post at what is now Green Bay, Brown county. He saw a few families living in the fort, and some French settlers, who cultivated the land opposite, and appeared to live very comfortably. That was the whole extent of improvements in what is now Wisconsin. The organization of the Northwest Fur Company; the passage of an act by the British Parliament by which the whole Northwest was included in the Province of Quebec; the joining of the Indians in this region with the British, against the Americans, in the War of the Revolution; the exploration of the lead region of the Upper Mississippi by Julian Dubuque; the passage of the ordinance of 1787; the first settlement of the territory northwest of the River Ohio; and the Indian war which followed, are all incidents, during British occupation, of more or less interest for the student of Wisconsin history. He will find that, by the treaty of 1783 and of 1795, with Great Britain, all the inhabitants residing in this region were to be protected by the United States in the full and peaceable possession of their property, with the right to remain in, or to withdraw from it, with their effects, within one year. All who did not leave were to be deemed American citizens, allowed to enjoy all the privileges of citizenship, and to be under the protection of the General Government. He will also find that less than two years was the whole time of actual military occupation of what is now Wisconsin by British soldiers, and that English domination, which should have ended at the close of the Revolution, was arbitrarily continued until the Summer of 1796, when the western posts, none of which were upon territory circumscribed by Lakes Michigan and Superior and the Mississippi river, were delivered into the keeping of the United States. Thus the supremacy of Great Britain over the Northwest was, after an actual continuance of thirty-five years, at an end.

Although the General Government did not get possession of the region northwest of the Ohio, throughout its full extent, for thirteen years subsequent to its acquirement by the treaty of peace of 1783 with Great Britain, nevertheless, steps were taken, very soon, to obtain concessions from such of the colonies as had declared an ownership in any portion of it. None of the claimants, seemingly, had better rights than Virginia, who, by virtue of conquests, largely her own, of the Illinois settlements and posts, extended her jurisdiction over that country, erecting into a county

so much of the region northwest of the Ohio, as had been settled by Virginians or might afterward be settled by them. But as, previous to her yielding all rights to territory beyond that river, she had not carried her arms into the region north of the Illinois or made settlements upon what is now the soil of Wisconsin, nor included any portion of it within the bounds of an organized county, it follows that her dominion was not actually extended over any part of the area included within the present boundaries of this State; nor did she then claim jurisdiction north of the Illinois river, but on the other hand expressly disclaimed it.

Virginia and all the other claimants finally ceded to the United States their rights, such as they were, beyond the Ohio, except two reservations of limited extent; and the General Government became the undisputed owner of the "Great West," without any internal claims to possession save those of the Indians. Meanwhile, the United States took measures to extend its jurisdiction over the whole country by the passage of the famous ordinance of 1787, which established a government over "the territory of the United States, northwest of the River Ohio." But this organic law was, of course, nugatory over that portion of the region occupied by the British, until their yielding possession in 1796, when, for the first time, Anglo-American rule commenced, though nominally, in what is now Wisconsin. By the ordinance just mentioned, "the United States, in congress assembled," declared that the territory northwest of the Ohio should, for the purposes of temporary government, be one district, subject, however, to be divided into districts, as future circumstances might, in the opinion of Congress, make it expedient. It was ordained that a governor, secretary and three judges should be appointed for the Territory; a general assembly was also provided for; and it was declared that religion, morality, and knowledge, being necessary to good government and the happiness of mankind, schools and the means of education should forever be encouraged. It was also ordained that there should be neither slavery nor involuntary servitude in the said Territory, "otherwise than in the punishment of crimes whereof the party shall have been duly convicted." Thus was established the first Magna Charta for the five great States since that time formed out of "the territory northwest of the River Ohio," and the first rules and regulations for their government.

Under this act of Congress, Arthur St. Clair was appointed governor of the Northwestern Territory, as it was called, and Samuel H. Parsons, James M. Varnum, and John Armstrong, judges,—the latter not accepting the office, John Cleves Symmes was appointed in his place. Winthrop Sargeant was appointed secretary. At different periods, counties were erected to include various portions of the Territory. By the governor's proclamation of the 15th of August, 1796, one was formed to include the whole of the present area of Northern Ohio, west of Cleveland; also, all of what is now the State of Indiana, north of a line drawn from Fort Wayne west-northerly to the southern part of Lake Michigan; "the whole of the present State of Michigan, except its extreme northwest corner on Lake Superior; a small corner in the northern part of what is now Illinois, including Chicago; and so much of the present State of Wisconsin as is watered by the streams flowing into Lake Michigan, which of course included an extensive portion, taking in many of its eastern and interior counties as now constituted. This vast county was named Wayne. So the few settlers then at the head of Green bay had their local habitations, constructively at least, in "Wayne county, Northwestern Territory." It was just at that date that Great Britain vacated the western posts, and the United States took quiet possession of them. But the western portion of what is now Wisconsin, including all its territory watered by streams flowing northward into Lake Superior, and westward and southwestward into the Mississippi, was as yet without any county organization; as the county of St. Clair, including the Illinois country to the southward, reached no farther north than the mouth of Little Mackinaw creek, where it empties into the River Illinois, in what is now the State of Illinois. The

"law of Paris," which was in force under French domination in Canada, and which by the British Parliament in 1774, had been continued in force under English supremacy, was still "the law of the land" west of Lake Michigan, practically at least.

From and after the fourth day of July, 1800, all that part of the territory of the United States northwest of the Ohio river, which lay to the westward of a line beginning upon that stream opposite to the mouth of Kentucky river and running thence to what is now Fort Recovery in Mercer county, Ohio; thence north until it intersected the territorial line between the United States and Canada, was, for the purposes of temporary government, constituted a separate territory called INDIANA. It included not only the whole of the present State of Illinois and nearly all of what is now Indiana, but more than half of the State of Michigan as now defined, also a considerable part of the present Minnesota, and the whole of what is now Wisconsin.

The seat of government was established at "Saint Vincennes on the Wabash," now the city of Vincennes, Indiana. To this extensive area was added "from and after" the admission of Ohio into the Union, all the territory west of that State, and east of the eastern boundary line of the Territory of Indiana as originally established; so that now all "the territory of the United States, northwest of the River Ohio," was, excepting the State of Ohio, included in Indiana Territory. On the thirtieth day of June, 1805, so much of Indiana Territory as lay to the north of a line drawn east from the southerly bend or extreme of Lake Michigan to Lake Erie, and east of a line drawn from the same bend through the middle of the first mentioned lake to its northern extremity, and thence due north to the northern boundary of the United States, was, for the purpose of temporary government, constituted a separate Territory called MICHIGAN. Of course no part of the present State of Wisconsin was included therein; but the whole remained in the Territory of Indiana until the second day of March, 1809, when all that part of the last mentioned Territory which lay west of the Wabash river, and a direct line drawn from that stream and "Post Vincennes," due north to the territorial line between the United States and Canada, was, by an act approved on the third of February previous, constituted a separate Territory, called ILLINOIS. Meanwhile jurisdiction had been extended by the authorities of Indiana Territory over the country lying west of Lake Michigan, to the extent, at least, of appointing a justice of the peace for each of the settlements of Green Bay and Prairie du Chien. All of what is now Wisconsin was transferred to the Territory of Illinois, upon the organization of the latter, except a small portion lying east of the meridian line drawn through Vincennes, which remained a part of Indiana Territory. This fraction included nearly the whole area between Green bay and Lake Michigan.

When, in 1816, Indiana became a State, "the territory of the United States northwest of the River Ohio," contained, besides Ohio and Indiana, the Territories of Illinois and Michigan, only; so the narrow strip, formerly a part of Indiana Territory, lying east of a line drawn due north from Vincennes, and west of the western boundary line of Michigan Territory, belonged to neither, and was left without any organization. However, upon the admission of Illinois into the Union, in 1818, all "the territory of the United States, northwest of the River Ohio," lying west of Michigan Territory and north of the States of Indiana and Illinois, was attached to and made a part of Michigan Territory; by which act the whole of the present State of Wisconsin came under the jurisdiction of the latter. During the existence of the Territory of Illinois, a kind of jurisdiction was had over the two settlements in what is now Wisconsin—rather more ideal than real, however.

In 1834, Congress greatly increased the limits of the Territory of Michigan, by adding to it, for judicial purposes, a large extent of country west of the Mississippi—reaching south as far as

the present boundary line between the present States of Iowa and Missouri; north, to the territorial line between the United States and Canada; and west, to the Missouri and White Earth rivers. It so continued down to the fourth of July, 1836.

A retrospective glance at the history of this region for forty years previous to the last mentioned year, including the time which elapsed after the surrender of the western posts, in 1796, by the British, discloses many facts of interest and importance.

The Anglo-Americans, not long after the region of country west of Lake Michigan became a part of Indiana Territory, began now and then to cast an eye, either through the opening of the Great Lakes or the Mississippi, upon its rolling rivers, its outspread prairies, and its dense forests, and to covet the goodly land; but the settlers at Green Bay and Prairie du Chien were mostly French Canadians at this date, although a few were Americans. The General Government, however, began to take measures preparatory to its occupation, by purchasing, in 1804, a tract in what is now the southwest portion of the State, of the Indians, and by holding the various tribes to a strict account for any murders committed by them on American citizens passing through their territories or trading with them. Comparative peace reigned in the incipient settlements at the head of Green Bay and at the mouth of the Wisconsin, which was changed by the breaking out of the war of 1812, with Great Britain.

The English early succeeded in securing the Wisconsin Indian tribes as their allies in this war; and the taking of Mackinaw by the British in July, 1812, virtually put the latter in possession of what is now the eastern portion of the State. Early in 1814, the government authorities of the United States caused to be fitted out at St. Louis a large boat, having on board all the men that could be mustered and spared from the lower country, and sent up the Mississippi to protect the upper region and the few settlers therein. The troops landed at Prairie du Chien, and immediately proceeded to fortify. Not long after, Colonel McKay, of the British army, crossing the country by course of the Fox and Wisconsin rivers, with over five hundred British and Indians, received the surrender of the whole force. The officers and men were paroled and sent down the river. This was the only battle fought upon Wisconsin soil during the last war with England. The post at Prairie du Chien was left in command of a captain with two companies from Mackinaw. He remained there until after the peace of 1815, when the place was evacuated by the British.

When it became generally known to the Indian tribes in what is now Wisconsin, that the contest between the United States and Great Britain was at an end, they generally expressed themselves as ready and willing to make treaties with the General Government—eager, in fact, to establish friendly relations with the power they had so recently been hostile to. This was, therefore, a favorable moment for taking actual possession of the country between the Mississippi and Lake Michigan; and United States troops were soon ordered to occupy the two prominent points between Green Bay and Prairie du Chien. At the former place was erected Fort Howard; at the latter Fort Crawford. At Green Bay, half a hundred (or less) French Canadians cultivated the soil; at Prairie du Chien, there were not more than thirty houses, mostly occupied by traders, while on the prairie outside the village, a number of farms were cultivated. Such was Wisconsin when, at the close of the last war with Great Britain, it began in earnest to be occupied by Americans. The latter were few in number, but in 1818, they began to feel, now that the country was attached to Michigan Territory and the laws of the United States were extended over them, that they were not altogether beyond the protection of a government of their own, notwithstanding they were surrounded by savage tribes. Their happiness was increased upon the erection, by proclamation of Lewis Cass, governor of the Territory of Michigan, of three Territorial counties: Michilimackinac, Brown and Crawford. Their establishment dates

the twenty-sixth of October, 1818. The county of Michilimackinac not only included all of the present State of Wisconsin lying north of a line drawn due west from near the head of the Little Noquet bay, but territory east and west of it, so as to reach from Lake Huron to the Mississippi river. Its county seat was established "at the Borough of Michilimackinac." The whole area in Michigan Territory south of the county of Michilimackinac and west of Lake Michigan formed the two counties of Brown and Crawford: the former to include the area east of a line drawn due north and south through the middle of the portage between the Fox river of Green bay and the Wisconsin; the latter to include the whole region west of that line. Prairie du Chien was designated as the county seat of Crawford; Green Bay, of Brown county. On the 22d of December, 1826, a county named Chippewa was formed from the northern portions of Michilimackinac, including the southern shores of Lake Superior throughout its entire length, and extending from the straits leading from that lake into Lake Huron, west to the western boundary line of Michigan Territory, with the county seat "at such point in the vicinity of the Sault de Ste. Marie, as a majority of the county commissioners to be appointed shall designate." Embraced within this county,—its southern boundary being the parallel $46^{\circ} 31'$ north latitude,—was all the territory of the present State of Wisconsin now bordering on Lake Superior.

Immediately upon the erection of Brown and Crawford counties, they were organized, and their offices filled by appointment of the governor. County courts were established, consisting of one chief and two associate justices, either of whom formed a quorum. They were required to hold one term of court annually in their respective counties. These county courts had original and exclusive jurisdiction in all civil cases, both in law and equity, where the matter in dispute exceeded the jurisdiction of a justice of the peace, and did not exceed the value of one thousand dollars. They had, however, no jurisdiction in ejectment. They had exclusive cognizance of all offenses the punishment whereof was not capital, and the same power to issue remedial and other process, writs of error and mandamus excepted, that the supreme court had at Detroit. Appeals from justices of the peace were made to the county courts.

The establishing of Indian agencies by the General Government; the holding of treaties with some of the Indian tribes; the adjustment of land claims at Green Bay and Prairie du Chien; and the appointment of postmasters at these two points, were all indications of a proper interest being taken by the United States in the affairs of the country. But a drawback to this region, was the fact that, in all civil cases of over a thousand dollars, and in criminal cases that were capital, as well as in actions of ejectment, and in the allowance of writs of error, and mandamus, recourse must be had to the supreme court at Detroit; the latter place being the seat of government of Michigan Territory. However, in January, 1823, an act of congress provided for a district court, and for the appointment of a judge, for the counties of Brown, Crawford, and Michilimackinac. This court had concurrent jurisdiction, civil and criminal, with the supreme court of the Territory, in most cases, subject, however, to have its decisions taken to the latter tribunal by a writ of error. The law provided for holding one term of court in each year, in each of the counties named in the act; so, at last, there was to be an administration of justice at home, and the people were to be relieved from all military arbitrations, which frequently had been imposed upon them. James Duane Doty was appointed judge of this court at its organization. A May term of the court was held in Prairie du Chien; a June term in Green Bay; a July term in "the Borough of Michilimackinac," in each year. In 1824, Henry S. Baird, of Brown county, was appointed district attorney. Doty held the office of judge until May, 1832, when he was succeeded by David Irvin. This court continued until 1836, when it was absorbed by the organization of the Territory of Wisconsin.

For a long time it had been known that there were lead mines in what is now the south-

western portion of the State; but it was not until the year 1825, and the two following years, that very general attention was attracted to them, which eventuated in the settlement of different places in that region, by Americans, who came to dig for lead ore. This rapid increase of settlers awakened the jealousy of the Winnebago Indians, at what they deemed an unauthorized intrusion upon their lands, which, with other causes operating unfavorably upon their minds, aroused them in June, 1827, to open acts of hostility. Murders became frequent. Finally, the militia of Prairie du Chien were called out. On the twenty-ninth of August, Brigadier-General Henry Atkinson, of the United States army, with a strong force of regulars, ascended the Wisconsin river to put an end to any further spread of Winnebago disturbances. He was joined on the first of September, by one hundred and thirty Galena volunteers, mounted, and under command of General Henry Dodge. The Winnebagoes were awed into submission. Thus ended the "Winnebago War." It was followed by the erection at the portage of Fort Winnebago, by the United States.

After the restoration of tranquillity, the United States proceeded by treaty with the Indians, to secure the right to occupy the lead regions. This was in 1828. The next year, the General Government purchased of the Winnebagoes, southwestern Wisconsin, which put an end to all trouble on account of mining operations. On the ninth of October, 1829, a county was formed, by the legislative council of the Territory of Michigan, comprising all that part of Crawford county lying south of the Wisconsin river. This new county was called Iowa. The county seat was temporarily established at Mineral Point. Following this was a treaty in 1831, with the Menomonees, for all their lands east of Green bay, Winnebago lake, and the Fox and Milwaukee rivers.

There was now a crisis at hand. The most prominent event to be recorded in the pre-Territorial annals of Wisconsin is known as the Black Hawk War. This conflict of arms between the Sacs and Foxes and the United States arose from a controversy in regard to lands. By a treaty made at Fort Harmar, just across the River Muskingum from Marietta, Ohio, in January, 1789, the Pottawattamie and Sac tribes of Indians, among others, were received into the friendship of the General Government, and a league of peace and unity established between the contracting parties. On the third of November, 1804, a treaty at St. Louis stipulated that the united Sac and Fox tribes should be received into the friendship of the United States, and also be placed under their protection. These tribes also agreed to consider themselves under the protection of the General Government and of no other power whatsoever. At this treaty lands were ceded which were circumscribed by a boundary beginning at a point on the Missouri river opposite the mouth of the Gasconade, and running thence in a direct course so as to strike the River Jefferson at the distance of thirty miles from its mouth, and down that stream to the Mississippi. It then ran up the latter river to the mouth of the Wisconsin, and up that stream to a point thirty-six miles in a direct line from its mouth; thence by a straight course to a point where the Fox river of the Illinois leaves the small lake then called Sakaegan, and from that point down the Fox to the Illinois, and down the latter to the Mississippi. The consideration for this cession was the payment of goods to the value of two thousand two hundred and thirty-four dollars and fifty cents, and a yearly annuity of one thousand dollars—six hundred to be paid to the Sacs and four hundred to the Foxes—to be liquidated in goods valued at first cost. Afterward, Fort Madison was erected just above the Des Moines rapids in the Mississippi, on the territory ceded at the last mentioned treaty. Then followed the war with Great Britain, and the Sacs and Foxes agreed to take no part therein. However, a portion afterward joined the English against the Americans along with other Western tribes. At the restoration of peace the Sacs and Foxes held treaties with the United States. There was a renewal of the treaty of 1804.

Such in brief is a general outline of affairs, so far as those two tribes were concerned, down to the close of the last war with England. From this time, to the year 1830, several additional treaties were made with the Sacs and Foxes by the General Government: one in 1822, by which they relinquished their right to have the United States establish a trading house or factory at a convenient point at which the Indians could trade and save themselves from the imposition of traders, for which they were paid the sum of one thousand dollars in merchandise. Again, in 1824, they sold to the General Government all their lands in Missouri, north of Missouri river, for which they received one thousand dollars the same year, and an annuity of one thousand dollars for ten years. In 1830, they ceded to the United States a strip of land twenty miles wide from the Mississippi to the Des Moines, on the north side of their territory. The time had now come for the two tribes to leave the eastern shore of the Mississippi and retire across the "great water." Keokuk, the Watchful Fox, erected his wigwam on the west side of the river, and was followed by a large part of the two tribes. But a band headed by Ma-ka-tai-me-she-kia-kiah, or the Black Sparrow Hawk, commonly called Black Hawk, refused to leave their village near Rock Island. They contended that they had not sold their town to the United States; and, upon their return early in 1831, from a hunt across the Mississippi, finding their village and fields in possession of the whites, they determined to repossess their homes at all hazards. This was looked upon, or called, an encroachment by the settlers; so the governor of Illinois took the responsibility of declaring the State invaded, and asked the United States to drive the refractory Indians beyond the Mississippi. The result was, the Indian village was destroyed by Illinois volunteers. This and the threatened advance across the river by the United States commander, brought Black Hawk and his followers to terms. They sued for peace—agreeing to remain forever on the west side of the Mississippi. But this truce was of short duration.

Early in the Spring of 1832, Black Hawk having assembled his forces on the Mississippi, in the vicinity of the locality where Fort Madison had stood, crossed that stream and ascended Rock river. This was the signal for war. The governor of Illinois made a call for volunteers; and, in a brief space of time, eighteen hundred had assembled at Beardstown, Cass county. They marched for the mouth of Rock river, where a council of war was held by their officers and Brigadier-General Henry Atkinson, of the regular forces. The Indians were sent word by General Atkinson that they must return and recross the Mississippi, or they would be driven back by force. "If you wish to fight us, come on," was the laconic but defiant reply of the Sac chief. When the attempt was made to compel these Indians to go back across the "great river," a collision occurred between the Illinois militia and Black Hawk's braves, resulting in the discomfiture of the former with the loss of eleven men. Soon afterward the volunteers were discharged, and the first campaign of Black Hawk's War was at an end. This was in May, 1832.

In June following, a new force had been raised and put under the command of General Atkinson, who commenced his march up Rock river. Before this, there had been a general "forting" in the lead region, including the whole country in Southwest Wisconsin, notwithstanding which, a number of settlers had been killed by the savages, mostly in Illinois. Squads of volunteers, in two or three instances, had encountered the Indians; and in one with entire success—upon the Pecatonica, in what is now Lafayette county, Wisconsin—every savage (and there were seventeen of them) being killed. The loss of the volunteers was three killed and wounded. Atkinson's march up Rock river was attended with some skirmishing; when, being informed that Black Hawk and his force were at Lake Koshkonong, in the southwest corner of what is now Jefferson county, Wisconsin, he immediately moved thither with a portion of his army, where the whole force was ordered to concentrate. But the Sac chief with his people had flown. Colonels Henry Dodge and James D. Henry, with the forces under them, discovered the

trail of the savages, leading in the direction of the Wisconsin river. It was evident that the retreating force was large, and that it had but recently passed. The pursuing troops hastened their march. On the twenty-first of July, 1832, they arrived at the hills which skirt the left bank of that stream, in what is now Roxbury town (township), Dane county. Here was Black Hawk's whole force, including women and children, the aged and infirm, hastening by every effort to escape across the river. But that this might now be effected, it became necessary for that chief to make a firm stand, to cover the retreat. The Indians were in the bottom lands when the pursuing whites made their appearance upon the heights in their rear. Colonel Dodge occupied the front and sustained the first attack of the Indians. He was soon joined by Henry with his force, when they obtained a complete victory. The action commenced about five o'clock in the afternoon and ended at sunset. The enemy, numbering not less than five hundred, sustained a loss of about sixty killed and a large number wounded. The loss of the Americans was one killed and eight wounded. This conflict has since been known as the battle of Wisconsin Heights.

During the night following the battle, Black Hawk made his escape with his remaining force and people down the Wisconsin river. The women and children made their way down stream in canoes, while the warriors marched on foot along the shore. The Indians were pursued in their flight, and were finally brought to a stand on the Mississippi river, near the mouth of the Bad Axe, on the west boundary of what is now Vernon county, Wisconsin. About two o'clock on the morning of the second of August, the line of march began to the scene of the last conflict in the Black Hawk War. Dodge's command formed the advance, supported by regular troops, under Colonel Zachary Taylor, afterward president of the United States. Meanwhile an armed steamboat had moved up the Mississippi and lay in front of the savages; so they were attacked on all sides by the exasperated Americans. The battle lasted about two hours, and was a complete victory for the whites. Black Hawk fled, but was soon after captured. This ended the war.

The survey of public lands by the General Government; the locating and opening of land offices at Mineral Point and Green Bay; the erection of Milwaukee county from a part of Brown, to include all the territory bounded on the east and south by the east and south lines of the present State, on the north by what is now the north boundary of Washington and Ozaukee counties and farther westward on the north line of township numbered twelve, and on the west by the dividing line between ranges eight and nine; and the changing of the eastern boundary of Iowa county to correspond with the western one of Milwaukee county;—are some of the important events following the close of the Black Hawk war. There was an immediate and rapid increase of immigration, not only in the mining region but in various other parts of what is now Wisconsin, more especially in that portion bordering on Lake Michigan. The interior was yet sparsely settled. By the act of June 28, 1834, congress having attached to the Territory of Michigan, for judicial purposes, all the country "west of the Mississippi river, and north of the State of Missouri," comprising the whole of what is now the State of Iowa, all of the present State of Minnesota west of the Mississippi river, and more than half of what is now the Territory of Dakota, the legislative council of Michigan Territory extended her laws over the whole area, dividing it on the 6th of September, 1834, by a line drawn due west from the lower end of Rock island to the Missouri river into two counties: the country south of that line constituting the county of Des Moines; north of the line, to be known as the county of Dubuque. This whole region west of the Mississippi was known as the Iowa district. Immediately after the treaty of 1832 with the Sacs and Foxes, the United States having come into ownership of a large tract in this district, several families crossed the Mississippi, and settled on the purchase, but as

the time provided for the Indians to give possession was the first of June, 1833, these settlers were dispossessed by order of the General Government. So soon, however, as the Indians yielded possession, settlements began, but, from the date just mentioned until September, 1834, after the district was attached, for judicial purposes, to Michigan Territory, it was without any municipal law whatever. The organization of the counties of Dubuque and Des Moines on the sixth of that month, secured, of course a regular administration of justice. Before this time to facilitate intercourse between the two remote military posts of Fort Howard at Green Bay, and Fort Crawford at Prairie du Chien, a military road was commenced to connect the two points; so, one improvement followed another. On the 1st of January, 1836, a session (the first one) of the seventh legislative council of Michigan Territory — that is, of so much of it as lay to the westward of Lake Michigan—was held at Green Bay, and a memorial adopted, asking Congress for the formation of a new Territory west of that lake; to include all of Michigan Territory not embraced in the proposed State of Michigan. Congress, as will now be shown, very soon complied with the request of the memorialists.

IV.—WISCONSIN TERRITORY.

The establishing of a separate and distinct Territory west of Lake Michigan, was the result of the prospective admission of Michigan into the Union (an event which took place not until the twenty-sixth of January, 1837), as the population, in all the region outside of the boundaries determined upon by the people for that State, would otherwise be left without a government, or, at least, it would be necessary to change the capital of the old Michigan Territory farther to the westward; so it was thought best to erect a new territory, to be called WISCONSIN (an Indian word signifying wild rushing water, or channel, so called from the principal eastern tributary of the Mississippi within its borders), which was done by an act of congress, approved April 20, 1836, to take effect from and after the third day of July following. The Territory was made to include all that is now embraced within the States of Wisconsin, Iowa, Minnesota, and a part of the Territory of Dakota, more particularly described within boundaries commencing at the northeast corner of the State of Illinois, running thence through the middle of Lake Michigan to a point opposite the main channel of Green bay; thence through that channel and the bay to the mouth of the Menomonee river; thence up that stream to its head, which is nearest the lake of the Desert; thence to the middle of that lake; thence down the Montreal river to its mouth; thence with a direct line across Lake Superior to where the territorial line of the United States last touches the lake northwest; thence on the north, with the territorial line, to the White Earth river; on the west by a line drawn down the middle of the main channel of that stream to the Missouri river, and down the middle of the main channel of the last mentioned stream to the northwest corner of the State of Missouri; and thence with the boundaries of the States of Missouri and Illinois, as already fixed by act of congress, to the place or point of beginning. Its counties were Brown, Milwaukee, Iowa, Crawford, Dubuque, and Des Moines, with a portion of Chippewa and Michilimackinac left unorganized. Although, at this time, the State of Michigan was only engaged, so to speak, to the Union, to include the two peninsulas (many of its citizens preferring in lieu thereof the lower one only, with a small slice off the northern boundary of the State of Ohio as now constituted), yet the marriage ceremony was performed, as has been stated, a few months afterward.

The act of congress establishing the Territorial government of Wisconsin was very full and complete. It first determined its boundaries; then it declared that all authority of the government of Michigan over the new Territory should cease on the fourth day of July, 1836, with a

proper reservation of rights in favor of the Indians. It provided for subsequently dividing the Territory into one or more, should congress deem it wise so to do. It also declared that the executive power and authority in and over the Territory should be vested in a governor, at the same time defining his powers. It provided for the appointment of a secretary, stating what his duties should be. The legislative power was vested in the governor and legislative assembly, the latter to consist of a council and house of representatives, answering respectively to the senate and assembly, as states are usually organized. There was a provision for taking the census of the several counties, and one giving the governor power to name the time, place, and manner of holding the first election, and to declare the number of members of the council and house of representatives to which each county should be entitled. He was also to determine where the first legislative assembly should meet, and a wise provision was that the latter should not be in session in any one year more than seventy-five days.

One section of the act declared who should be entitled to vote and hold office; another defined the extent of the powers of the legislature, and a third provided that all laws should be submitted to congress for their approval or rejection. There was a section designating what offices should be elective and what ones should be filled by the governor. There were others regulating the judiciary for the Territory and declaring what offices should be appointed by the United States, providing for their taking the proper oaths of office and regulating their salaries. One, perhaps the most important of all, declared that the Territory should be entitled to and enjoy all the rights, privileges, and advantages granted by the celebrated ordinance of 1787. There was also a provision for the election of a delegate to the house of representatives of the United States; and a declaration that all suits and indictments pending in the old courts should be continued in the new ones. Five thousand dollars were appropriated for a library for the accommodation of the legislative assembly of the Territory and of its supreme court.

For the new Territory, Henry Dodge was, on the 30th of April, 1836, by Andrew Jackson, then President of the United States, commissioned governor. John S. Horner was commissioned secretary; Charles Dunn, chief justice; David Irvin and William C. Frazer, associate judges; W. W. Chapman, attorney, and Francis Gehon, marshal. The machinery of a territorial government was thus formed, which was set in motion by these officers taking the prescribed oath of office. The next important step to be taken was to organize the Territorial legislature. The provisions of the organic act relative to the enumeration of the population of the Territory were that previously to the first election, the governor should cause the census of the inhabitants of the several counties to be taken by the several sheriffs, and that the latter should make returns of the same to the Executive. These figures gave to Des Moines county, 6,257; Iowa county, 5,234; Dubuque county, 4,274; Milwaukee county, 2,893; Brown county, 2,706; Crawford county, 850. The entire population, therefore, of Wisconsin Territory in the summer of 1836, as given by the first census was, in precise numbers, twenty-two thousand two hundred and fourteen, of which the two counties west of the Mississippi furnished nearly one half. The apportionment, after the census had been taken, made by the governor, gave to the different counties thirteen councilmen and twenty-six representatives. Brown county got two councilmen and three representatives; Crawford, two representatives, but no councilmen; Milwaukee, two councilmen and three representatives; Iowa, Dubuque and Des Moines, each three councilmen; but of representatives, Iowa got six; Dubuque, five, and Des Moines, seven. The election was held on the tenth of October, 1836, exciting considerable interest, growing out, chiefly, of local considerations. The permanent location of the capital, the division of counties, and the location of county seats, were the principal questions influencing the voters. There were elected from the county of Brown, Henry S. Baird and John P. Arndt, members of the council; Ebenezer Childs, Albert

G. Ellis and Alexander J. Irwin, members of the house of representatives; from Milwaukee, the councilmen were Gilbert Knapp and Alanson Sweet; representatives, William B. Sheldon, Madison W. Cornwall and Charles Durkee: from Iowa, councilmen, Ebenezer Brigham, John B. Terry and James R. Vineyard; representatives, William Boyles, G. F. Smith, D. M. Parkinson, Thomas McKnight, T. Shanley and J. P. Cox: from Dubuque, councilmen, John Foley, Thomas McCraney and Thomas McKnight; representatives, Loring Wheeler, Hardin Nowlin, Hosea T. Camp, P. H. Engle and Patrick Quigley: from Des Moines, councilmen, Jeremiah Smith, Jr., Joseph B. Teas and Arthur B. Inghram; representatives, Isaac Leffler, Thomas Blair, Warren L. Jenkins, John Box, George W. Teas, Eli Reynolds and David R. Chance: from Crawford, representatives, James H. Lockwood and James B. Dallam.

Belmont, in the present county of LaFayette, then in Iowa county, was, by the governor, appointed the place for the meeting of the legislature; he also fixed the time—the twenty-fifth of October. A quorum was in attendance in both branches at the time decided upon for their assembling, and the two houses were speedily organized by the election of Peter Hill Fagle, of Dubuque, speaker of the house, and Henry S. Baird, of Brown, president of the council. Each of the separate divisions of the government—the executive, the judicial, and the legislative—was now in working order, except that it remained for the legislature to divide the Territory into judicial districts, and make an assignment of the judges; and for the governor to appoint a Territorial treasurer, auditor and attorney general. The act of congress establishing the Territory required that it should be divided into three judicial districts. The counties of Crawford and Iowa were constituted by the legislature the first district, to which was assigned Chief Justice Dunn. The second district was composed of the counties of Des Moines and Dubuque; to it was assigned Associate Judge Irvin. The third district was formed of the counties of Brown and Milwaukee, to which was assigned Associate Judge Frazer.

Governor Dodge, in his first message to the Territorial legislature, directed attention to the necessity for defining the jurisdiction and powers of the several courts, and recommended that congress should be memorialized to extend the right of pre-emption to actual settlers upon the public lands and to miners on mineral lands; also, to remove the obstructions in the rapids of the Upper Mississippi, to construct harbors and light-houses on Lake Michigan, to improve the navigation of Fox river and to survey the same from its mouth to Fort Winnebago, to increase the amount of lands granted to the Territory for school purposes, and to organize and arm the militia for the protection of the frontier settlements. The first act passed by the legislature was one privileging members from arrest in certain cases and conferring on themselves power to punish parties for contempt. The second one established the three judicial districts and assigned the judges thereto. One was passed to borrow money to defray the expenses of the session; others protecting all lands donated to the Territory by the United States in aid of schools, and creating a common school fund. A memorial to congress was adopted requesting authorization to sell the school-section in each township, and appropriate the money arising therefrom for increasing the fund for schools.

During this session, five counties were "set off" west of the Mississippi river: Lee, Van Buren, Henry, Louisa, Muscatine, and Cook; and fifteen east of that stream: Walworth, Racine, Jefferson, Dane, Portage, Dodge, Washington, Sheboygan, Fond du Lac, Calumet, Manitowoc, Marquette, Rock, Grant and Green.

The principal question agitating the legislature at its first session was the location of the capital. Already the people west of the Mississippi were speculating upon the establishment of a Territory on that side the river, prospects for which would be enhanced evidently, by placing the seat of government somewhat in a central position east of that stream, for Wisconsin

Territory. Now, as Madison was a point answering such requirements she triumphed over all competitors; and the latter numbered a dozen or more—including, among others, Fond du Lac, Milwaukee, Racine, Belmont, Mineral Point, Green Bay, and Cassville. The struggle over this question was one of the most exciting ever witnessed in the Territorial legislature. Madison was fixed upon as the seat of government, but it was provided that sessions of the legislature should be held at Burlington, in Des Moines county, until the fourth of March, 1839, unless the public buildings in the new capital should be sooner completed. After an enactment that the legislature should thereafter meet on the first Monday of November of each year, both houses, on the ninth day of December, 1836, adjourned *sine die*.

In the act of congress establishing the Territory of Wisconsin it was provided that a delegate to the house of representatives of the United States, to serve for the term of two years, should be elected by the voters qualified to elect members of the legislative assembly; and that the first election should be held at such time and place or places, and be conducted in such manner as the governor of the Territory should appoint and direct. In pursuance of this enactment, Governor Dodge directed that the election for delegate should be at the time and places appointed for the election of members of the legislative assembly—the 10th of October, 1836. The successful candidate for that office was George W. Jones, of Sinsinawa Mound, Iowa county—in that portion which was afterward “set off” as Grant county. Jones, under the act of 1819, had been elected a delegate for Michigan Territory, in October, 1835, and took his seat at the ensuing session, in December of that year. By the act of June 15, 1836, the constitution and State government which the people of Michigan had formed for themselves was accepted, ratified and confirmed, and she was declared to be one of the United States of America, so that the term of two years for which Jones had been elected was cut short, as, in the nature of the case, his term could not survive the existence of the Territory he represented. But, as he was a candidate for election to represent the new Territory of Wisconsin in congress as a delegate, and was successful, he took his seat at the commencement of the second session of the twenty-fourth congress—December 12, 1836, notwithstanding he had been elected only a little over two months.

The first term of the supreme court of the Territory was held at Belmont on the 8th day of December. There were present, Charles Dunn, chief justice, and David Irvin, associate judge. John Catlin was appointed clerk, and Henry S. Baird having previously been commissioned attorney general for the Territory by Governor Dodge, appeared before the court and took the oath of office. Causes in which the United States was party or interested were looked after by the United States attorney, who received his appointment from the president; while all cases in which the Territory was interested was attended to by the attorney general, whose commission was signed by the governor. The appointing of a crier and reporter and the admission of several attorneys to practice, completed the business for the term. The annual term appointed for the third Monday of July of the following year, at Madison, was not held; as no business for the action of the court had matured.

At the time of the complete organization of the Territory of Wisconsin, when the whole machinery had been put fairly in motion, when its first legislature at its first session had, after passing forty-two laws and three joint resolutions, in forty-six days, adjourned;—at this time, the entire portion west of the Mississippi had, in round numbers, a population of only eleven thousand; while the sparsely settled mineral region, the military establishments—Fort Crawford, Fort Winnebago, and Fort Howard—and the settlements at or near them, with the village of Milwaukee, constituted about all there was of the Territory east of that river, aggregating about twelve thousand inhabitants. There was no land in market, except a narrow strip along

the shore of Lake Michigan, and in the vicinity of Green bay. The residue of the country south and east of the Wisconsin and Fox rivers was open only to preëmption by actual settlers. The Indian tribes still claimed a large portion of the lands. On the north and as far west as the Red river of the north were located the Chippewas. The southern limits of their possessions were defined by a line drawn from a point on that stream in about latitude $46^{\circ} 30'$ in a southeasterly direction to the head of Lake St. Croix; thence in the same general direction to what is now Stevens Point, in the present Portage county, Wisconsin; thence nearly east to Wolf river; and thence in a direction nearly northeast to the Menomonee river. The whole country bounded by the Red river and Mississippi on the east; the parallel of about 43° of latitude on the south; the Missouri and White Earth river on the west; and the Territorial line on the north, was occupied by the Sioux. In the southwest part of the Territory, lying mostly south of latitude 43° —in the country reaching to the Missouri State boundary line south, and to the Missouri river west—were the homes of the Pottawattamies, the Iowas, and the Saes and Foxes. Between the Wisconsin river and the Mississippi, and extending north to the south line of the Chippewas was the territory of the Winnebagoes. East of the Winnebagoes in the country north of the Fox river of Green bay were located the Menomonees, their lands extending to Wolf river. Such was the general outline of Indian occupancy in Wisconsin Territory at its organization. A portion of the country east of Wolf river and north of Green bay and the Fox river; the whole of the area lying south of Green bay, Fox river and the Wisconsin; and a strip of territory immediately west of the Mississippi, about fifty miles in width, and extending from the Missouri State line as far north as the northern boundary of the present State of Iowa, constituted the whole extent of country over which the Indians had no claim.

The second session of the first legislative assembly of the Territory began at Burlington, now the county seat of Des Moines county, Iowa, on the 6th of November, 1837. The governor, in his message, recommended a codification of the laws, the organization of the militia, and other measures of interest to the people. An act was passed providing for taking another census, and one abolishing imprisonment for debt. By a joint resolution, congress was urged to make an appropriation of twenty thousand dollars in money, and two townships of land for a "University of the Territory of Wisconsin." The money was not appropriated, but the land was granted—forty-six thousand and eighty acres. This was the fundamental endowment of the present State university, at Madison. A bill was also passed to regulate the sale of school lands, and to prepare for organizing, regulating and perfecting schools. Another act, which passed the legislature at this session, proved an apple of discord to the people of the Territory. The measure was intended to provide ways and means whereby to connect, by canals and slack-water, the waters of Lake Michigan with those of the Mississippi, by way of Rock river, the Catfish, the four lakes and the Wisconsin, by the incorporation of the Milwaukee and Rock river canal company. This company was given authority to apply to congress for an appropriation in money or lands to aid in the construction of the work, which was to have its eastern outlet in the Milwaukee river, and to unite at its western terminus with Rock river, near the present village of Jefferson, in Jefferson county. The result was that a grant of land of odd-numbered sections in a strip of territory five miles on each side of the line of the proposed canal was secured, and in July, 1839, over forty thousand acres were sold at the minimum price of two dollars and fifty cents per acre. However, owing mainly to the fact that purchasers were compelled to pay double the government price for their lands—owing also to the circumstance of an antagonism growing up between the officers of the canal company and the Territorial officers intrusted with the disposition of the lands, and to conflicts between the beneficiaries of

the grant and some of the leading politicians of the time—the whole scheme proved a curse and a blight rather than a blessing, and eventuating, of course, in the total failure of the project. There had been much Territorial and State legislation concerning the matter; but very little work, meanwhile, was done on the canal. It is only within the year 1875 that an apparent quietus has been given to the subject, and legislative enactments forever put at rest.

Fourteen counties were set off during this session of the legislature at Burlington—all west of the Mississippi. They were Benton, Buchanan, Cedar, Clinton, Delaware, Fayette, Jackson, Johnson, Jones, Keokuk, Linn, Slaughter, Scott and Clayton. One hundred and five acts and twenty joint resolutions were passed. On the 20th of January, 1838, both houses adjourned until the second Monday of June following.

The census of the Territory having been taken in May, the special session of the first legislature commenced on the eleventh of June, 1838, at Burlington, pursuant to adjournment, mainly for the purpose of making a new apportionment of members of the house. This was effected by giving twelve members to the counties east of the Mississippi, and fourteen to those west of that stream, to be contingent, however, upon the division of the Territory, which measure was not only then before congress, but had been actually passed by that body, though unknown to the Territorial legislature. The law made it incumbent on the governor, in the event of the Territory being divided before the next general election, to make an apportionment for the part remaining,—enacting that the one made by the act of the legislature should, in that case, have no effect. Having provided that the next session should be held at Madison, the legislative body adjourned *sine die* on the twenty-fifth of June, 1838, the public buildings at the new capital having been put under contract in April, previous. Up to this time, the officers of the Territory at large, appointed by the president of the United States at its organization, had remained unchanged, except that the secretary, John S. Horner, had been removed and his place given to William B. Slaughter, by appointment, dated February 16, 1837. Now there were two other changes made. On the nineteenth of June, Edward James was commissioned marshal, and on the fifth of July, Moses M. Strong was commissioned attorney of the United States for the Territory. By an act of congress, approved June 12, 1838, to divide the Territory of Wisconsin, and to establish a Territorial government west of the Mississippi, it was provided that from and after the third day of July following, all that part of Wisconsin Territory lying west of that river and west of a line drawn due north from its headwaters or sources to the Territorial line, for the purposes of a Territorial government should be set apart and known by the name of Iowa. It was further enacted that the Territory of Wisconsin should thereafter extend westward only to the Mississippi. It will be seen therefore that all that portion of the present State of Minnesota, extending eastward from the Mississippi to the St. Croix and northward to the United States boundary line, was then a part of Wisconsin Territory, even after the organization of the Territory of Iowa. The census taken in May, just previous to the passage of this act, gave a total population to the several counties of the Territory, east of the Mississippi, of 18,149.

On the third Monday of July, 1838, the annual terms of the supreme court—the first one after the re-organization of the Territory of Wisconsin—was held at Madison. There were present Chief Justice Dunn and Associate Judge Frazer. After admitting five attorneys to practice, hearing several motions, and granting several rules, the court adjourned. All the terms of the Supreme Court thereafter were held at Madison.

At an election held in the Territory on the tenth day of September, 1838, James Duane Doty received the highest number of votes for the office of delegate to congress, and was declared by Governor Dodge duly elected, by a certificate of election, issued on the twenty-seventh day of October following. Upon the commencement of the third session of the twenty-fifth congress

on Monday, December 10, 1838, Isaac E. Crary, member from Michigan, announced to the chair of the house of representatives that Doty was in attendance as delegate from Wisconsin Territory, and moved that he be qualified. Jones, the former delegate, then rose and protested against Doty's right to the seat, claiming that his (Jones') term had not expired. The basis for his claim was that under the act of 1817, a delegate must be elected only for one congress, and not for parts of two congressional terms; that his term as a delegate from Wisconsin did not commence until the fourth of March, 1837, and consequently would not expire until the fourth of March, 1839. The subject was finally referred to the committee of elections. This committee, on the fourteenth of January, 1839, reported in favor of Doty's right to his seat as delegate, submitting a resolution to that effect which passed the house by a vote of one hundred and sixty-five to twenty-five. Whereupon Doty was qualified as delegate from Wisconsin Territory, and took his seat at the date last mentioned.

On the 8th of November, Andrew G. Miller was appointed by Martin Van Buren, then president of the United States, associate judge of the supreme court, to succeed Judge Frazer, who died at Milwaukee, on the 18th of October. During this year, Moses M. Strong succeeded W. W. Chapman as United States attorney for the Territory.

On the 26th day of November, 1838, the legislature of the re-organized Territory of Wisconsin—being the first session of the second legislative assembly—met at Madison. Governor Dodge, in his message, recommended an investigation of the banks then in operation, memorializing congress for a grant of lands for the improvement of the Fox river of Green bay and the Wisconsin; the revision of the laws; the division of the Territory into judicial districts; the justice of granting to all miners who have obtained the ownership of mineral grounds under the regulations of the superintendent of the United States lead mines, either by discovery or purchase, the right of pre-emption; and the improvement of the harbors on Lake Michigan.

The attention of this Legislature was directed to the mode in which the commissioners of public buildings had discharged their duties. There was an investigation of the three banks then in operation in the Territory—one at Green Bay, one at Mineral Point, and the other at Milwaukee. A plan, also, for the revision of the laws of the Territory was considered. A new assignment was made for the holding of district courts. Chief Justice Dunn was assigned to the first district, composed of the counties of Iowa, Grant and Crawford; Judge Irvin to the second, composed of the counties of Dane, Jefferson, Rock, Walworth and Green; while Judge Miller was assigned to the third district, composed of Milwaukee, Brown and Racine counties—including therein the unorganized counties of Washington and Dodge, which, for judicial purposes, were, when constituted by name and boundary, attached to Milwaukee county, and had so remained since that date. The legislature adjourned on the 22d of December, to meet again on the 21st of the following month. "Although," said the president of the council, upon the occasion of the adjournment, "but few acts of a general character have been passed, as the discussions and action of this body have been chiefly confined to bills of a local nature, and to the passage of memorials to the parent government in behalf of the great interests of the Territory; yet it is believed that the concurrent resolutions of the two houses authorizing a revision of the laws, is a measure of infinite importance to the true interests of the people, and to the credit and character of the Territory."

The census of the Territory having been taken during the year 1838, showed a population of 18,130, an increase in two years of 6,447.

The second session of the second legislative assembly commenced on the twenty-first day of January, 1839, agreeable to adjournment. The most important work was the revision of the laws which had been perfected during the recess, by the committee to whom the work was intrusted,

consisting of three members from each house: from the council, M. L. Martin, Marshall M. Strong, and James Collins; from the house of representatives, Edward V. Whiton, Augustus Story, and Barlow Shackelford. The act legalizing the revision, took effect on the fourth day of July following. The laws as revised, composed the principal part of those forming the Revised Statutes of 1839, a valuable volume for all classes in the territory—and especially so for the courts and lawyers—during the next ten years. The *sine die* adjournment of this legislature took place on the 11th of March, 1839.

On the 8th of March of this year, Henry Dodge, whose term for three years as governor was about to expire, was again commissioned by the president of the United States, as governor of the Territory of Wisconsin. At the July term of the supreme court, all the judges were present, and several cases were heard and decided. A seal for the court was also adopted. The attorney general of the Territory at this time was H. N. Wells, who had been commissioned by Governor Dodge, on the 30th of March previous, in place of H. S. Baird, resigned. Wells not being in attendance at this term of the court, Franklin J. Munger was appointed by the judge attorney general for that session. The clerk, John Catlin having resigned, Simeon Mills was selected by the court to fill his place. From this time, the supreme court met annually, as provided by law, until Wisconsin became a State.

The next legislature assembled at Madison, on the second of December, 1839. This was the third session of the second legislative assembly of the Territory. The term for which members of the house were elected, would soon expire; it was therefore desirable that a new apportionment should be made. As the census would be taken the ensuing June, by the United States, it would be unnecessary for the Territory to make an additional enumeration. A short session was resolved upon, and then an adjournment until after the completion of the census. One of the subjects occupying largely the attention of the members, was the condition of the capitol, and the conduct of the commissioners intrusted with the money appropriated by congress to defray the cost of its construction. The legislature adjourned on the thirteenth of January, 1840, to meet again on the third of the ensuing August. The completion of the census showed a population for the Territory of thirty thousand seven hundred and forty-four, against eighteen thousand one hundred and thirty, two years previous. Upon the re-assembling of the legislature—which is known as the extra session of the second legislative assembly—at the time agreed upon, some changes were made in the apportionment of members to the house of representatives; the session lasted but a few days, a final adjournment taking place on the fourteenth of August, 1840. At the July term of the supreme court, Simeon Mills resigned the office of clerk, and La Fayette Kellogg was appointed in his place. Kellogg continued to hold the position until the state judiciary was organized. At the ensuing election, James Duane Doty was re-elected Territorial delegate, taking his seat for the first time under his second term, on the eighth day of December, 1840, at the commencement of the second session of the twenty-sixth congress.

The first session of the third legislative assembly commenced on the seventh of December, 1840, with all new members in the house except three. All had recently been elected under the new apportionment. Most of the session was devoted to the ordinary routine of legislation. There was, however, a departure, in the passage of two acts granting divorces, from the usual current of legislative proceedings in the Territory. There was, also, a very interesting contested election case between two members from Brown county. Such was the backwardness in regard to the building of the capitol, at this date, that a large majority of the members stood ready to remove the seat of government to some other place. However, as no particular point could be agreed upon, it remained at Madison. The legislature adjourned on the nineteenth of February,

1841, having continued a term of seventy-five days, the maximum time limited by the organic act.

Francis J. Dunn, appointed by Martin Van Buren, was commissioned in place of William B. Slaughter, as secretary of the Territory, on the 25th of January, 1841, but was himself superseded by the appointment of A. P. Field, on the 23d day of April following. On the 15th of March, Daniel Hugunin was commissioned as marshal in place of Edward James, and on the 27th of April, Thomas W. Sutherland succeeded Moses M. Strong as United States attorney for the Territory. On the 26th of June, Governor Dodge commissioned as attorney general of the Territory, M. M. Jackson. On the 13th of September following, Dodge was removed from office by John Tyler, then president of the United States, and James Duane Doty appointed in his place. The appointment of Doty, then the delegate of the Territory in congress, by the president of the United States as governor, and the consequent resignation of the latter of his seat in the house of representatives, caused a vacancy which was filled by the election of Henry Dodge to that office, on the 27th of September, 1841: so that Doty and Dodge changed places. Dodge took his seat for the first time, at the commencement of the second session of the twenty-fifth congress—Monday, December 7, 1841.

About this time, the Milwaukee and Rock river canal imbroglio broke out afresh. The loan agent appointed by the governor to negotiate a loan of one hundred thousand dollars for the work, reported that he had negotiated fifty-six thousand dollars of bonds, which had been issued; but he did not report what kind of money was to be received for them. Now, the canal commissioners claimed that it was their right and duty not to recognize any loan which was to be paid in such currency as they disapproved of. This dispute defeated the loan, and stopped all work on the canal. During the year 1841, Thomas W. Sutherland succeeded Moses M. Strong as United States attorney. The second session of the third legislative assembly began at Madison, on the sixth of December, 1841. Governor Doty, in his message to that body, boldly avowed the doctrine that no law of the Territory was effective, until expressly approved by congress. "The act," said he, "establishing the government of Wisconsin, in the third section, requires the secretary of the Territory to transmit annually, on or before the first Monday in December, two copies of the laws to the speaker of the house of representatives, for the use of congress." The sixth section provides that "all laws of the governor and legislative assembly shall be submitted to, and, if disapproved by the congress of the United States, the same shall be null and of no effect." "These provisions," he added, "it seems to me, require the laws to be actually submitted to congress before they take effect. They change the law by which this country was governed while it was a part of Michigan. That law provided that the laws should be reported to congress, and that they should 'be in force in the district until the organization of the general assembly therein, unless disapproved of by congress.'" The governor concluded in these words: "The opinion of my predecessor, which was expressed to the first legislature assembled after the organization of this government, in his message delivered at Belmont on the twenty-sixth day of October, 1836, fully sustains this view of the subject which I have presented. He said: 'We have convened under an act of congress of the United States establishing the Territorial government of Wisconsin, for the purpose of enacting such laws as may be required for the government of the people of this Territory, after their approval by congress.'" This construction of the organic act resulted in a lengthy warfare between the governor and the legislative assembly.

At this session, the Milwaukee and Rock river canal again raised a tumult. "Congress had made a valuable grant of land to the Territory in trust. The Territory was the trustee; the canal company the *cestui que trust*. The trust had been accepted, and a large portion of the lands had been sold, one tenth of the purchase money received, and ample securities held

for the balance." The Territory now, by its legislature, repudiated all the laws authorizing a loan, and all which contemplated the expending of any money on its part in constructing the canal. The legislature resolved that all connection ought to be dissolved, and the work on the canal by the Territory abandoned, and that the latter ought not further to execute the trust. They resolved also that the congress be requested to divert the grant to such other internal improvements as should be designated by the Territory, subject to the approval of congress; and that, if the latter should decline to make this diversion, it was requested to take back the grant, and dispose of the unsold lands. On the eleventh of February, 1842, a tragedy was enacted in the legislative council, causing great excitement over the whole Territory. On that day, Charles C. P. Arndt, a member from Brown county, was, while that body was in session, shot dead by James J. Vineyard, a member from Grant county. The difficulty grew out of a debate on a motion to lay on the table the nomination of Elias S. Baker to the office of sheriff of Grant county. Immediately before adjournment of the council, the parties who had come together, after loud and angry words had been spoken, were separated by the by-standers. When an adjournment had been pronounced, they met again; whereupon Arndt struck at Vineyard. The latter then drew a pistol and shot Arndt. He died in a few moments. Vineyard immediately surrendered himself to the sheriff of the county, waived an examination, and was committed to jail. After a short confinement, he was brought before the chief justice of the Territory, on a writ of *habeas corpus*, a habeas *est* to hold. He was afterward indicted for manslaughter, was tried and acquitted. Three days after shooting Arndt, Vineyard sent in his resignation as member of the council. That body refused to receive it, or to have it read even; but at once expelled him. The second and last session of the third legislative assembly came to a close on the eighteenth of February, 1842.

The first session of the fourth legislative assembly commenced on the fifth day of December, 1842. The members had been elected under a new apportionment based upon a census taken in the previous June, which showed a total population for the Territory of forty-six thousand six hundred and seventy-eight—an increase of nearly ten thousand in two years. A political count showed a decided democratic majority in each house. Governor Doty's political proclivities were with the whig party. The contest between him and the legislature now assumed a serious character. He refused to "hold converse" with it, for the reason that, in his opinion, no appropriation had been made by congress to defray the expenses of the session, and, as a consequence, none could be held. The legislature made a representation to congress, then in session, of the objections of the governor, and adjourned on the tenth of December, to meet again on the thirteenth of January, 1843. It was not until the fourth of February following that a quorum in both houses had assembled, when the legislature, through a joint committee, waited on the governor, and informed him that they had again met according to adjournment, and were then ready to proceed to business. Previous to this time, congress had made an appropriation to cover the expenses of the legislature now in session, which it was supposed would remove all conflict about the subject. But the governor held on to the thirteenth of January previous, issued a proclamation, commanding a special session of the legislature on the sixth of March, and still refused to receive either a writ or a challenge. Both houses then adjourned to the day fixed by the executive. A writ of mandamus took place on the seventeenth of April following.

The term of the governor of Wisconsin, Henry Dodge, elected in 1838, his official term having expired at the close of the thirtieth session of the territory, was re-elected on the twenty-fifth of September, 1843, to hold the office for the first time on his second term at the commencement of the next session of the territory, which was on Monday, December 4, 1843. On the thirtieth of October of this year, George A. Reid was nominated by President Tyler as

secretary of the Territory, in place of A. P. Field.

The second session of the fourth legislative assembly of the Territory, commencing on the fourth of December, 1843, and terminating on the thirty-first of January, 1844—a period of fifty-nine days—accomplished but little worthy of especial mention, except the submission of the question of the formation of a State government to a vote of the people, to be taken at the general election to be held in September following. The proposition did not succeed at the ballot-box. The third session of the fourth legislative assembly did not commence until the sixth of January, 1845, as the time had been changed to the first Monday in that month for annual meetings. Governor Doty having persisted in spelling Wisconsin with a "k" and an "a"—*Wis-konsin*—and some of the people having adopted his method, it was thought by this legislature a matter of sufficient importance to be checked. So, by a joint resolution, the orthography—*Wisconsin*—employed in the organic act, was adopted as the true one for the Territory, and has ever since been used. Before the commencement of this session Doty's term of office had expired. He was superseded as governor of the Territory by N. P. Tallmadge, the latter having been appointed on the twenty-first of June, 1844. On the thirty-first of August, Charles M. Prevozt was appointed marshal of the Territory, in place of Daniel Hugunin. There was the utmost harmony between Governor Tallmadge and the legislature of the Territory at its session in 1845.

His message, which was delivered to the two houses in person, on the seventeenth of January, was well received. Among other items of interest to which he called the attention of the legislative assembly, was one concerning the construction of a railroad to connect Lake Michigan with the Mississippi. "The interests of the Territory," said he, "seem imperiously to demand the construction of a railroad, or other communication, from some suitable point on Lake Michigan to the Mississippi river. Much difference of opinion seems to exist as to what it shall be, and how it is to be accomplished. There is a general impression," continued the governor, "that the construction of the Milwaukee and Rock river canal, which was intended to connect those waters, is abandoned. It remains to be seen what shall be substituted for it." The session terminated on the twenty-fourth of February, 1845.

James K. Polk having been inaugurated president of the United States on the fourth of March, 1845, Henry Dodge was again put into the gubernatorial chair of the Territory, receiving his appointment on the eighth of April, 1845. Other changes were made by the president during the same year, John B. Rockwell being, on the fourteenth of March, appointed marshal, and W. P. Lynde, on the fourteenth of July, United States attorney for the Territory, Governor Tallmadge, on the twenty-second of January of this year, having commissioned the latter also as attorney general. On the twenty-second of September, Morgan L. Martin was elected delegate to the twenty-ninth congress, as the successor of Henry Dodge.

The fourth and last session of the fourth legislative assembly was organized on the fifth of January, 1846. This session, although a short one, proved very important. Preliminary steps were taken for the formation of a State government. The first Tuesday in April next succeeding was the day fixed upon for the people to vote for or against the proposition. When taken it resulted in a large majority voting in favor of the measure. An act was passed providing for taking the census of the Territory, and for the apportionment by the governor of delegates to form a State constitution, based upon the new enumeration. The delegates were to be elected on the first Monday in September, and the convention was to assemble on the first Monday in October, 1846. The constitution when formed was to be submitted to the vote of the people for adoption or rejection, as, at the close of the session, the terms of members of the council who had been elected for four years, and of the house, who had been elected for two years, all ended. The legislature

re-organized the election districts, and conferred on the governor the power and duty of making an apportionment, based on the census to be taken, for the next legislative assembly, when, on the third of February, 1846, both houses adjourned *sine die*. On the twenty-second of January, Governor Dodge appointed A. Hyatt Smith attorney general of the Territory. On the twenty-fourth of February, John Catlin was appointed Territorial secretary by the president.

The census taken in the following June showed a population for the Territory of one hundred and fifty-five thousand two hundred and seventy-seven. Delegates having been elected to form a constitution for the proposed new State, met at Madison on the fifth day of October. After completing their labors, they adjourned. This event took place on the sixteenth of December, 1846. The constitution thus formed was submitted to a popular vote on the first Tuesday of April, 1847, and rejected. The first session of the fifth legislative assembly commenced on the fourth of January of that year. But little was done. Both houses finally adjourned on the eleventh of February, 1847. John H. Tweedy was elected as the successor of Morgan L. Martin, delegate to the thirtieth congress, on the sixth of September following. On the twenty-seventh of that month, Governor Dodge issued a proclamation for a special session of the legislature, to commence on the eighteenth of the ensuing month, to take action concerning the admission of Wisconsin into the Union. The two houses assembled on the day named in the proclamation, and a law was passed for the holding of another convention to frame a constitution; when, after nine days' labor, they adjourned. Delegates to the new convention were elected on the last Monday of November, and that body met at Madison on the fifteenth of December, 1847. A census of the Territory was taken this year, which showed a population of two hundred and ten thousand five hundred and forty-six. The result of the labors of the second constitutional convention was the formation of a constitution, which, being submitted to the people on the second Monday of March, 1848, was duly ratified.

The second and last session of the fifth legislative assembly—the last legislative assembly of Wisconsin Territory—commenced on the seventh of February, 1848, and adjourned *sine die* on the thirteenth of March following. On the twentieth of the same month, J. H. Tweedy, delegate from Wisconsin, introduced a bill in congress for its admission into the Union. The bill was finally passed; and on the twenty-ninth of May, 1848, Wisconsin became a State. There had been seventeen sessions of the legislative assembly of the Territory, of an average duration of forty days each: the longest one lasted seventy-six days; the shortest, ten days. So long as the Territory had an existence, the apportionment of thirteen members for the council, and twenty-six for the house of representatives, was continued, as provided in the organic act. There had been, besides those previously mentioned, nine additional counties "set off" by the legislative assembly of the Territory, so that they now numbered in all twenty-eight: Milwaukee, Waukesha, Jefferson, Racine, Walworth, Rock, Green, Washington, Sheboygan, Manitowoc, Calumet, Brown, Winnebago, Fond du Lac, Marquette, Sauk, Portage, Columbia, Dodge, Dane, Iowa, La Fayette, Grant, Richland, Crawford, Chippewa, St. Croix, and La Pointe.

V.—WISCONSIN AS A STATE.

FIRST ADMINISTRATION. — NELSON DEWEY, GOVERNOR—1848, 1849.

The boundaries prescribed in the act of congress, entitled "An Act to enable the people of Wisconsin Territory to form a Constitution and State Government, and for the admission of such State into the Union," approved August 6, 1846, were accepted by the convention which formed the constitution of Wisconsin, and are described in that instrument as "beginning at the north-east corner of the State of Illinois—that is to say, at a point in the center of Lake Michigan

where the line of forty-two degrees and thirty minutes of north latitude crosses the same; thence running with the boundary line of the State of Michigan, through Lake Michigan [and] Green bay to the mouth of the Menomonee river; thence up the channel of the said river to the Brule river; thence up said last mentioned river to Lake Brule; thence along the southern shore of Lake Brule, in a direct line to the center of the channel between Middle and South islands, in the Lake of the Desert; thence in a direct line to the head waters of the Montreal river, as marked upon the survey made by Captain Cram; thence down the main channel of the Montreal river to the middle of Lake Superior; thence through the center of Lake Superior to the mouth of the St. Louis river; thence up the main channel of said river to the first rapids in the same, above the Indian village, according to Nicollet's map; thence due south to the main branch of the River St. Croix; thence down the main channel of said river to the Mississippi; thence down the center of the main channel of that river to the northwest corner of the State of Illinois; thence due east with the northern boundary of the State of Illinois to the place of beginning." The territory included within these lines constitutes the STATE OF WISCONSIN, familiarly known as the "Badger State." All that portion of Wisconsin Territory, as formerly constituted, lying west of so much of the above mentioned boundary as extends from the middle of Lake Superior to the mouth of the St. Croix river, not being included in Wisconsin, the limits of the State are, of course, not identical with those of the Territory as they previously existed.

The State of Wisconsin, thus bounded, is situated between the parallel of forty-two degrees thirty minutes and that of forty-seven degrees, north latitude, and between the eighty-seventh and ninety-third degrees west longitude, nearly. For a portion of its northern border it has Lake Superior, the largest body of fresh water in the world; for a part of its eastern boundary it has Lake Michigan, almost equal in size to Lake Superior; while the Mississippi, the largest river in the world but one, forms a large portion of its western boundary. The State of Michigan lies on the east; Illinois on the south; Iowa and Minnesota on the west. Wisconsin has an average length of about two hundred and sixty miles; an average breadth of two hundred and fifteen miles.

The constitution of Wisconsin, adopted by the people on the second Monday of March, 1848, provided for the election of a governor, lieutenant governor, secretary of state, treasurer, attorney general, members of the State legislature, and members of congress, on the second Monday of the ensuing May. On that day—the 8th of the month—the election was held, which resulted in the choice of Nelson Dewey, for governor; John E. Holmes, for lieutenant governor; Thomas McHugh, for secretary of state; Jairus C. Fairchild, for state treasurer; and James S. Brown, for attorney general. The State was divided into nineteen senatorial, and sixty-six assembly districts, in each of which one member was elected; it was also divided into two congressional districts, in each of which one member of congress was elected—William Pitt Lynde in the first district, composed of the counties of Milwaukee, Waukesha, Jefferson, Racine, Walworth, Rock, and Green; and Mason C. Darling, in the second district, composed of the counties of Washington, Sheboygan, Manitowoc, Calumet, Brown, Winnebago, Fond du Lac, Marquette, Sauk, Portage, Columbia, Dodge, Dane, Iowa, La Fayette, Grant, Richland, Crawford, Chippewa, St. Croix, and La Pointe—the counties of Richland, Chippewa and La Pointe being unorganized.

The first session of the legislature of Wisconsin commenced at Madison, the seat of government for the State, on Monday, the 5th day of June, 1848. Nicanor E. Whiteside was elected speaker of the assembly, and Henry Billings president of the senate, *pro tempore*. The democrats were largely in the majority in both houses. The legislature, in joint convention, on the 7th of June, canvassed, in accordance with the provisions of the constitution, the votes given on the 5th of May previous, for the State officers and the two representatives in congress. On the same

day, the governor, lieutenant governor, secretary of state, treasurer, and attorney general, were sworn into office in presence of both houses. All these officers, as well as the representatives in congress, were democrats. Dewey's majority over John H. Tweedy, whig, was five thousand and eighty-nine. William P. Lynde's majority in the first district, for congress, over Edward V. Whiton, whig, was two thousand four hundred and forty-seven. Mason C. Darling's majority in the second district, over Alexander L. Collins, whig, was two thousand eight hundred and forty-six. As the thirtieth congress, to which Lynde and Darling were elected would expire on the 4th of March, 1849, their terms of office would, of course, end on that day. The former took his seat on the 5th of June, the latter on the 9th of June, 1848.

The constitution vested the judicial power of the State in a supreme court, circuit courts, courts of probate, and in justices of the peace, giving the legislature power to vest such jurisdiction as should be deemed necessary in municipal courts; also, conferring upon it the power to establish inferior courts in the several counties, with limited civil and criminal jurisdiction. The State was divided into five judicial circuits; and judges were to be elected at a time to be provided for by the legislature at its first session. It was provided that there should be no election for a judge or judges, at any general election for State or county officers, nor within thirty days either before or after such election.

On the 8th of June, 1848, Governor Dewey delivered his first message to a joint convention of the two houses. It was clear, concise, and definite upon such subjects as, in his opinion demanded immediate attention. His views were generally regarded as sound and statesmanlike by the people of the State. "You have convened," said he, "under the provisions of the constitution of the State of Wisconsin, to perform as representatives of the people, the important duties contemplated by that instrument." "The first session of the legislature of a free people," continued the governor, "after assuming the political identity of a sovereign State, is an event of no ordinary character in its history, and will be fraught with consequences of the highest importance to its future welfare and prosperity. Wisconsin possesses the natural elements, fostered by the judicious system of legislation," the governor added, "to become one of the most populous and prosperous States of the American Union. With a soil unequalled in fertility, and productive of all the necessary comforts of life, rich in mineral wealth, with commercial advantages unsurpassed by any inland State, possessing extensive manufacturing facilities, with a salubrious climate, and peopled with a population enterprising, industrious, and intelligent, the course of the State of Wisconsin must be onward, until she ranks among the first of the States of the Great West. It is," concluded the speaker, "under the most favorable auspices that the State of Wisconsin has taken her position among the families of States. With a population numbering nearly one quarter of a million, and rapidly increasing, free from the incubus of a State debt, and rich in the return yielded as the reward of labor in all the branches of industrial pursuits, our State occupies an enviable position abroad, that is highly gratifying to the pride of our people." Governor Dewey then recommended a number of measures necessary, in his judgment, to be made upon changing from a Territorial to a State government.

The first important business of the legislature, was the election of two United States senators. The successful candidates were Henry Dodge and Isaac P. Walker, both democrats. Their election took place on the 8th of June, 1848, Dodge taking his seat in the senate on the 23d of June, and Walker on the 26th of June, 1848. The latter drew the short term; so that his office would expire on the 4th day of March, 1850, at the end of the thirtieth congress; Dodge drew the long term, his office to expire on the 4th day of March, 1851, at the end of the thirty-first congress. The residue of the session was taken up in passing such acts as were deemed necessary to put the machinery of the new State government, in all its branches, in fair

running order. One was passed providing for the annual meeting of the legislature, on the second Wednesday of January of each year; another prescribing the duties of State officers; one dividing the State into three congressional districts. The first district was composed of the counties of Milwaukee, Waukesha, Walworth, and Racine; the second, of the counties of Rock, Green, La Fayette, Grant, Dane, Iowa, Sauk, Richland, Crawford, Adams, Portage, Chippewa, La Pointe, and St. Croix; the third, of the counties of Washington, Sheboygan, Manitowoc, Brown, Winnebago, Calumet, Fond du Lac, Marquette, Dodge, Jefferson, and Columbia. Another act provided for the election of judges of the circuit courts, on the first Monday of August, 1848. By the same act, it was provided that the first term of the supreme court should be held in Madison on the second Monday of January, 1849, and thereafter at the same place on the same day, yearly; afterward changed so as to hold a January and June term in each year. An act was also passed providing for the election, and defining the duties of State superintendent of public instruction. That officer was to be elected at the general election to be holden in each year, his term of office to commence on the first Monday of January succeeding his election. Another act established a State university; another exempted a homestead from a forced sale; another provided for a revision of the statutes. The legislature, after a session of eighty-five days, adjourned *sine die* on the twenty-first of August, 1848.

The State, as previously stated, was divided into five judicial circuits: Edward V. Whiton being chosen judge at the election on the first Monday in August, 1848, of the first circuit, composed of the counties of Racine, Walworth, Rock, and Green, as then constituted; Levi Hubbell of the second, composed of Milwaukee, Waukesha, Jefferson, and Dane; Charles H. Larrabee, of the third, composed of Washington, Dodge, Columbia, Marquette, Sauk, and Portage, as then formed; Alexander W. Stow, of the fourth, composed of Brown, Manitowoc, Sheboygan, Fond du Lac, Winnebago, and Calumet; and Mortimer M. Jackson, of the fifth circuit, composed of the counties of Iowa, LaFayette, Grant, Crawford and St. Croix, as then organized; the county of Richland being attached to Iowa county; the county of Chippewa to the county of Crawford; and the county of LaPointe to the county of St. Croix, for judicial purposes.

In the ensuing Fall there was a presidential election. There were then three organized political parties in the State: whig, democratic, and free-soil—each of which had a ticket in the field. The democrats were in the majority, and their four electors cast their votes for Lewis Cass and William O. Butler. At this election, Eleazer Root was the successful candidate for State superintendent of public instruction. In his election party politics were not considered. There were also three members for the thirty-first congress chosen: Charles Durkee, to represent the first district; Orsamus Cole, the second; and James D. Doty, the third district. Durkee was a free-soiler; Cole, a whig; Doty, a democrat—with somewhat decided Doty proclivities.

The act of the legislature, exempting a homestead from forced sale of any debt or liability contracted after January 1, 1849, approved the twenty-ninth of July previous, and another act for a like exemption of certain personal property, approved August 10, 1848, were laws the most liberal in their nature passed by any State of the Union previous to those dates. It was prophesied that they would work wonderful changes in the business transactions of the new State—for the worse; but time passed, and their utility were soon evident; it was soon very generally acknowledged that proper exemption laws were highly beneficial—a real good to the greatest number of the citizens of a State.

So much of Wisconsin Territory as lay west of the St. Croix and the State boundary north of it, was, upon the admission of Wisconsin into the Union, left, for the time being, without a government—unless it was still "Wisconsin Territory." Henry Dodge, upon being elected to the United States senate from Wisconsin, vacated, of course, the office of governor of this fraction. John H. Tweedy, delegate in congress at the time Wisconsin became a State, made a formal

resignation of his office, thus leaving the fractional Territory unrepresented. Thereupon John Catlin, secretary of the Territory of Wisconsin as a whole, and now claiming, by virtue of that office, to be acting governor of the fractional part, issued a proclamation as such officer for an election on the thirtieth of October, 1848, of a delegate in congress. Nearly four hundred votes were polled in the district, showing "Wisconsin Territory" still to have a population of not less than two thousand. H. H. Sibley was elected to that office. On the fifteenth of January, 1849, he was admitted to a seat as "delegate from Wisconsin Territory." This hastened the formation of the Territory of Minnesota—a bill for that purpose having become a law on the third of March, when "Wisconsin Territory" ceased finally to exist, being included in the new Territory.

The year 1848—the first year of the existence of Wisconsin as a State—was one of general prosperity to its rapidly increasing population. The National Government effected a treaty with the Menomonee Indians, by which their title was extinguished to the country north of the Fox river of Green bay, embracing all their lands in the State. This was an important acquisition, as it opened a large tract of country to civilization and settlement, which had been for a considerable time greatly desired by the people. The State government at the close of the year had been in existence long enough to demonstrate its successful operation. The electric telegraph had already reached the capital; and Wisconsin entered its second year upon a flood tide of prosperity.

Under the constitution, the circuit judges were also judges of the supreme court. An act of the legislature, approved June 29, 1848, providing for the election of judges, and for the classification and organization of the judiciary of the State, authorized the election, by the judges, of one of their number as chief justice. Judge Alexander W. Stow was chosen to that office, and, as chief justice, held, in conjunction with Associate Judges Whiton, Jackson, Larrabee, and Hubbell, the first session of the supreme court at Madison, commencing on the eighth day of January, 1849.

The second session of the State legislature commenced, according to law, on the tenth of January, 1849, Harrison C. Hobart being elected speaker of the assembly. Governor Dewey, in his message, sent to both houses on the 11th, referred to the rapidly increasing population of the State, and the indomitable energy displayed in the development of its productive capacity. He recommended the sale of the university lands on a long credit, the erection of a State prison, and the modification of certain laws. On the seventeenth of January, the two houses met in joint convention to elect an United States senator in place of Isaac P. Walker, who had drawn the short term. The democrats had a small majority on joint ballot. Walker was re-elected; this time, for a full term of six years, from the 4th of March, 1849. The legislature at this session passed many acts of public utility; some relating to the boundaries of counties; others, to the laying out of roads; eighteen, to the organization of towns. The courts were cared for; school districts were organized; special taxes were authorized, and an act passed relative to the sale and superintendence of the school and university lands, prescribing the powers and duties of the commissioners who were to have charge of the same. These commissioners, consisting of the secretary of state, treasurer of state, and attorney general, were not only put in charge of the school and university lands held by the State, but also of funds arising from the sale of them. This law has been many times amended and portions of it repealed. The lands at present subject to sale are classified as school lands, university lands, agricultural college lands, Marathon county lands, normal school lands, and drainage lands, and are subject to sale at private entry on terms fixed by law. Regulations concerning the apportionment and investment of trust funds are made by the commissioners in pursuance of law. All lands now the property of the State subject to sale, or that have been State lands and sold, were derived from the Gen-

eral Government. Lands owned by the State amount, at the present time, to about one and one half million acres.

A joint resolution passed the legislature on the 31st of March, 1849, instructing Isaac P. Walker to resign his seat as United States senator, for "presenting and voting for an amendment to the general appropriation bill, providing for a government in California and New Mexico, west of the Rio Grande, which did not contain a provision forever prohibiting the introduction of slavery or involuntary servitude" in those Territories. The senator refused to regard these instructions. The legislature adjourned on the second of April, 1849, after a session of eighty-three days.

In July, 1848, the legislature of Wisconsin elected M. Frank, Charles C. Jordan, and A. W. Randall, commissioners to collate and revise all the public acts of the State, of a general and permanent nature in force at the close of the session. Randall declining to act, Charles M. Baker was appointed by the governor in his place. The commissioners commenced their labors in August, 1848, and were engaged in the revision the greater part of the time until the close of the session of the legislature of 1849. It was found impossible for the revisers to conclude their labors within the time contemplated by the act authorizing their appointment; so a joint select committee of the two houses at their second session was appointed to assist in the work. The laws revised by this committee and by the commissioners, were submitted to, and approved by, the legislature. These laws, with a few passed by that body, which were introduced by individual members, formed the Revised Statutes of Wisconsin of 1849—a volume of over nine hundred pages.

At the general election held in November of this year, Dewey was re-elected governor. S. W. Beall was elected lieutenant governor; William A. Barstow, secretary of state; Jairus C. Fairchild was re-elected treasurer; S. Park Coon was elected attorney general; and Eleazer Koot, re-elected superintendent of public instruction. All these officers were chosen as democrats, except Koot, who ran as an independent candidate, the term of his office having been changed so as to continue two years from the first day of January next succeeding his election. By the revised statutes of 1849, all State officers elected for a full term went into office on the first of January next succeeding their election.

The year 1849 developed in an increased ratio the productive capacity of the State in every department of labor. The agriculturist, the artisan, the miner, reaped the well-earned reward of his honest labor. The commercial and manufacturing interests were extended in a manner highly creditable to the enterprise of the people. The educational interest of the State began to assume a more systematic organization. The tide of immigration suffered no decrease during the year. Within the limits of Wisconsin, the oppressed of other climes continued to find welcome and happy homes.

SECOND ADMINISTRATION.—NELSON DEWEY, GOVERNOR (SECOND TERM)—1850, 1851.

On the first day of January, 1850, Nelson Dewey took the oath of office, and quietly entered upon his duties as governor, for the second term. The third legislature convened on the ninth. Moses M. Strong was elected speaker of the assembly. Both houses had democratic majorities. Most of the business transacted was of a local character. By an act approved the fifth of February, the "January term" of the supreme court was changed to December. The legislature adjourned after a session of only thirty-four days. An act was passed organizing a sixth judicial circuit, from and after the first Monday in July, 1850, consisting of the counties of Crawford, Chippewa, Bad Axe, St. Croix and La Pointe, an election for judge to be holden on the same day. Wiram Knowlton was elected judge of that circuit.

The first charitable institution in Wisconsin, incorporated by the State, was the "Wisconsin Institute for the Education of the Blind." A school for that unfortunate class had been opened in Janesville, in the latter part of 1859, receiving its support from the citizens of that place and vicinity. By an act of the legislature, approved February 9, 1850, this school was taken under the care of the Institute, to continue and maintain it, at Janesville, and to qualify, as far as might be, the blind of the State for the enjoyment of the blessings of a free government; for obtaining the means of subsistence; and for the discharge of those duties, social and political, devolving upon American citizens. It has since been supported from the treasury of the State. On the seventh of October, 1850, it was opened for the reception of pupils, under the direction of a board of trustees, appointed by the governor. The Institute, at the present time, has three departments: in one is given instruction such as is usually taught in common schools; in another, musical training is imparted; in a third, broom-making is taught to the boys,—sewing, knitting and various kinds of fancy work to the girls, and seating cane-bottomed chairs to both boys and girls. On the thirteenth of April, 1874, the building of the Institute was destroyed by fire. A new building has since been erected.

The taking of the census by the United States, this year, showed a population for Wisconsin of over three hundred and five thousand—the astonishing increase in two years of nearly ninety-five thousand! In 1840, the population of Wisconsin Territory was only thirty thousand. This addition, in ten years, of two hundred and seventy-five thousand transcended all previous experience in the settlement of any portion of the New World, of the same extent of territory. It was the result of a steady and persistent flow of men and their families, seeking permanent homes in the young and rising State. Many were German, Scandinavian and Irish; but the larger proportion were, of course, from the Eastern and Middle States of the Union. The principal attractions of Wisconsin were the excellency and cheapness of its lands, its valuable mines of lead, its extensive forests of pine, and the unlimited water-power of its numerous streams.

By the Revised Statutes of 1849, Wisconsin was divided into three congressional districts—the second congressional apportionment—each of which was entitled to elect one representative in the congress of the United States. The counties of Milwaukee, Waukesha, Walworth and Racine constituted the first district; the counties of Rock, Green, La Fayette, Grant, Iowa, Dane, Sauk, Adams, Portage, Richland, Crawford, Chippewa, St. Croix and La Pointe, the second district; the counties of Washington, Sheboygan, Manitowoc, Brown, Winnebago, Calumet, Fond du Lac, Marquette, Columbia, Dodge and Jefferson, the third district. At the general election in the Autumn of this year, Charles Durkee, of the first district; Benjamin C. Eastman, of the second; and John B. Macy, of the third district, were elected to represent the State in the thirty-second congress of the United States. Durkee, it will be remembered, represented the same district in the previous congress: he ran the second time as an independent candidate. Eastman and Macy were elected upon democratic tickets. The General Government this year donated to the State all the swamp and overflowed lands within its boundaries.

The year 1850 to the agriculturist of Wisconsin was not one of unbounded prosperity, owing to the partial failure of the wheat crop. In the other branches of agriculture there were fair returns. The State was visited during the year by cholera; not, however, to a very alarming extent.

The fourth session of the legislature of the State commenced on the 8th of January, 1851. Frederick W. Horn was elected speaker of the assembly. The majority in the legislature was democratic. Governor Dewey, in his message, referred to the death of the president of the United States, Zachary Taylor; said that the treasury and finances of the State were in a

sound condition; and then adverted to many topics of interest and importance to the people of Wisconsin. It was an able document. One of the important measures of the session was the election of an United States senator, in the place of Henry Dodge, whose term of office would expire on the 4th of March, next ensuing. In joint convention of the legislature held on the 20th of January, Dodge was re-elected for a full term of six years. On the 22d, the governor approved a joint resolution of the legislature, rescinding not only so much of the joint resolution of the legislative assembly of Wisconsin, passed March 31, 1849, as censured Isaac J. Walker, but also the instructions in those resolutions relative to his resigning his seat in the senate of the United States.

Among the important bills passed at this session of the legislature was one providing for the location and erection of a State prison. Another one—the apportionment bill—was vetoed by the governor, and having been passed on the last day of the session, failed to become a law. The legislature adjourned on the eighteenth of March, 1851, after a session of seventy days.

On the 1st day of January, 1851, Timothy O. Howe took his seat as one of the associate judges of the supreme court, he having been elected judge of the fourth circuit in place of Alexander W. Stow. The office of chief justice of the supreme court, which had been filled by Judge Stow, therefore became vacant, and so remained until the commencement of the next term—June 18, 1851—when Levi Hubbell, judge of the second circuit, was, by the judges present, pursuant to the statute, elected to that office.

By an act of the legislature approved March 14, 1851, the location and erection of a State prison for Wisconsin was provided for—the point afterward determined upon as a suitable place for its establishment being Waupun, Dodge county. By a subsequent act, the prison was declared to be the general penitentiary and prison of the State for the reformation as well as for the punishment of offenders, in which were to be confined, employed at hard labor, and governed as provided for by the legislature, all offenders who might be committed and sentenced according to law, to the punishment of solitary imprisonment, or imprisonment therein at hard labor. The organization and management of this the first reformatory and penal State institution in Wisconsin, commenced and has been continued in accordance with the demands of an advanced civilization and an enlightened humanity.

On the 29th of September, 1851, Judge Hubbell was re-elected for the full term of six years as judge of the second judicial circuit, to commence January 1, 1852.

At the general election in November, 1851, Leonard J. Farwell was chosen governor; Timothy Burns, lieutenant governor; Charles D. Robinson, secretary of State; E. H. Jansen, State treasurer; E. Estabrook, attorney general; and Azel P. Ladd, superintendent of public instruction. All these officers were elected as democrats except Farwell, who ran as a whig; his majority over D. A. J. Upham, democrat, was a little rising of five hundred.

THIRD ADMINISTRATION.—L. J. FARWELL, GOVERNOR—1852—1853.

Governor Farwell's administration commenced on the fifth day of January, 1852. Previous to this—on the third day of the month—Edward V. Whiton was chosen by the judges of the supreme court, chief justice, to succeed Judge Hubbell. On the fourteenth of that month, the legislature assembled at Madison. This was the beginning of the fifth annual session. James McM. Shafter was elected speaker of the assembly. In the senate, the democrats had a majority; in the assembly, the whigs. The governor, in his message, recommended the memorializing of congress to cause the agricultural lands within the State to be surveyed and brought into market; to cause, also, the mineral lands to be surveyed and geologically examined, and offered for sale; and to make liberal appropriations for the improvement of rivers and harbors. The question of "bank or no bank" having been submitted to the people in November previous,

and decided in favor of banks, under the constitution, the power was thereby given to the legislature then in session to grant bank charters, or to pass a general banking law. Farwell recommended that necessary measures be taken to carry into effect this constitutional provision. A larger number of laws was passed at this session than at any previous one. By a provision of the constitution, the legislature was given power to provide by law, if they should think it expedient and necessary, for the organization of a separate supreme court, to consist of one chief justice and two associate justices to be elected by the qualified electors of the State, at such time and in such manner as the legislature might provide. Under this authority, an act was passed at this session providing for the election of a chief justice and two associates, on the last Monday of the September following, to form a supreme court of the State, to supplant the old one, provision for the change being inserted in the constitution. There was also an act passed to apportion and district anew the members of the senate and assembly, by which the number was increased from eighty-five to one hundred and seven; twenty-five for the senate; eighty-two for the assembly. An act authorizing the business of banking passed the legislature and was approved by the governor, on the 19th of April. By this law, the office of bank-comptroller was created—the officer to be first appointed by the governor, and to hold his office until the first Monday in January, 1854. At the general election in the Fall of 1853, and every two years thereafter, the office was to be filled by vote of the people. Governor Farwell afterward, on the 20th of November, appointed James S. Baker to that office. The legislature adjourned on the nineteenth of April, 1852.

The second charitable institution incorporated by the State was the "Wisconsin Institute for the Education of the Deaf and Dumb." It was originally a private school for deaf mutes, near, and subsequently in, the village of Delavan, Walworth county. By an act of the legislature approved April 19, 1852, it was made the object and duty of the corporation to establish, continue and maintain this school for the education of the deaf and dumb, "at or near the village of Delavan, to qualify, as near as might be, that unfortunate class of persons for the enjoyment of the blessings of a free government, obtaining the means of subsistence, and the discharge of those duties, social and political, devolving upon American citizens." It has since been supported by annual appropriations made by the legislature. A complete organization of the school was effected in June, 1852, under the direction of a board of trustees appointed by the governor of the State. The institute has for its design the education of such children of the State as, on account of deafness, can not be instructed in common schools. Instruction is given by signs, by the manual alphabet, by written language, and to one class by articulation. Two trades are taught: cabinet-making and shoe-making.

During this year, considerable interest was manifested in the projecting of railroads. At the September election, E. V. Whiton was elected chief justice of the new supreme court and Samuel Crawford and Abram D. Smith associate justices. Under the law, the chief justice was to serve a term of four years from the first day of June next ensuing; while the two associates were to cast lots—one to serve for six years, the other for two years, from June 1, 1853. Crawford drew the short term—Smith the long term. At the subsequent general election for members to the thirty-third congress, Daniel Wells, Jr., was chosen from the first district, B. C. Eastman from the second; and J. B. Macy from the third district. All were democrats. A democratic electoral ticket was chosen at the same time. The electors cast their votes for Pierce and Butler.

During 1852, the citizens of Wisconsin enjoyed unusual prosperity in the ample products and remuneration of their industry and enterprise. Abundant harvests and high markets; an increase in moneyed circulation, and the downward tendency of the rates of interest; a prevailing confidence among business men and in business enterprises; a continual accession to the

population of the State by immigration; the energetic prosecution of internal improvements under the skillful management of companies; the extension of permanent agricultural improvements; and the rapid growth of the various cities and villages; were among the encouraging prospects of the year.

The sixth session of the Wisconsin legislature commenced on the twelfth of January, 1853. On the twenty-sixth of the same month, William K. Wilson, of Milwaukee, preferred charges in the assembly against Levi Hubbell, judge of the second judicial circuit of the State, of divers acts of corruption and malfeasance in the discharge of the duties of his office. A resolution followed appointing a committee to report articles of impeachment, directing the members thereof to go to the senate and impeach Hubbell. Upon the trial of the judge before the senate, he was acquitted. An act was passed to provide for the election of a State prison commissioner by the legislature at that session—to hold his office until the first day of the ensuing January. The office was then to be filled by popular vote at the general election in November, 1853—and afterwards biennially—the term of office to be two years from the first day of January next succeeding the election by the people. On the 28th of March, the legislature, in joint convention, elected John Taylor to that office. The legislature adjourned on the fourth day of April until the sixth of the following June, when it again met, and adjourned *sine die* on the thirteenth of July, both sessions aggregating one hundred and thirty-one days.

By an act of the legislature approved February 9, 1853, the "Wisconsin State Agricultural Society," which had been organized in March, 1851, was incorporated, its object being to promote and improve the condition of agriculture, horticulture, and the mechanical, manufacturing and household arts. It was soon after taken under the fostering care of the State by an appropriation made by the legislature, to be expended by the society in such manner as it might deem best calculated to promote the objects of its incorporation; State aid was continued down to the commencement of the rebellion. No help was extended during the war nor until 1873; since which time there has been realized annually from the State a sum commensurate with its most pressing needs. The society has printed seventeen volumes of transactions and has held annually a State fair, except during the civil war. Besides these fairs, its most important work is the holding annually, at the capital of the State, a convention for the promotion of agriculture generally. The meetings are largely participated in by men representing the educational and industrial interests of Wisconsin.

By an act of the legislature approved March 4, 1853, the "State Historical Society of Wisconsin" was incorporated—having been previously organized—the object being to collect, embody, arrange and preserve in authentic form, a library of books, pamphlets, maps, charts, manuscripts, papers, paintings, statuary and other materials illustrative of the history of the State; to rescue from oblivion the memory of its early pioneers, and to obtain and preserve narratives of their exploits, perils, and hardy adventures; to exhibit faithfully the antiquities, and the past and present condition, and resources of Wisconsin. The society was also authorized to take proper steps to promote the study of history by lectures, and to diffuse and publish information relating to the description and history of the State. The legislature soon after took the society under its fostering care by voting a respectable sum for its benefit. Liberal State aid has been continued to the present time. The society, besides collecting a library of historical books and pamphlets the largest in the West has published eight volumes of collections and a catalogue of four volumes. Its rooms are in the capitol at Madison, and none of its property can be alienated without the consent of the State. It has a valuable collection of painted portraits and bound newspaper files; and in its cabinet are to be found many prehistoric relics.

On the first day of June, 1853, the justices of the new supreme court went into office: Associate

Justice Crawford, for two years; Chief Justice Whiton, for four years, Associate Justice Smith for six years as previously mentioned. The first (June) term was held at Madison. La Fayette Kellogg was appointed and qualified as clerk. On the 21st of September, Timothy Burns, lieutenant governor of Wisconsin, died at La Crosse. As a testimonial of respect for the deceased the several State departments, in accordance with a proclamation of the governor, were closed for one day—October 3, 1853. In the Fall of this year, democrats, whigs and free-soilers, each called a convention to nominate candidates for the various State offices to be supported by them at the ensuing election in November. The successful ticket was, for governor, William A. Barstow; for lieutenant governor, James T. Lewis; for secretary of State, Alexander T. Gray; for State treasurer, Edward H. Janssen; for attorney general, George B. Smith; for superintendent of public instruction, Hiram A. Wright; for State prison commissioner, A. W. Starks; and for bank comptroller, William M. Dennis. They were all democrats.

The year 1853 was, to the agriculturists of the State, one of prosperity. Every branch of industry prospered. The increase of commerce and manufactures more than realized the expectations of the most sanguine.

FOURTH ADMINISTRATION.—WILLIAM A. BARSTOW, GOVERNOR—1854-1855.

On Monday, the second of January, 1854, William A. Barstow took the oath of office as governor of Wisconsin.

The legislature commenced its seventh regular session on the eleventh of January. Frederick W. Horn was elected speaker of the assembly. Both houses were democratic. The legislature adjourned on the 3d of April following, after a session of eighty-three days.

In the early part of March, a fugitive slave case greatly excited the people of Wisconsin. A slave named Joshua Glover, belonging to B. S. Garland of Missouri, had escaped from his master and made his way to the vicinity of Racine. Garland, learning the whereabouts of his personal chattel, came to the State, obtained, on the 9th of March, 1854, from the judges of the district court of the United States for the district of Wisconsin, a warrant for the apprehension of Glover, which was put into the hands of the deputy marshal of the United States. Glover was secured and lodged in jail in Milwaukee. A number of persons afterward assembled and rescued the fugitive. Among those who took an active part in this proceeding was Sherman M. Booth, who was arrested therefor and committed by a United States commissioner, but was released from custody by Abram D. Smith, one of the associate justices of the supreme court of Wisconsin, upon a writ of *habeas corpus*. The record of the proceedings was thereupon taken to that court in full bench by a writ of *certiorari* to correct any error that might have been committed before the associate justice. At the June term, 1854, the justices held that Booth was entitled to be discharged, because the commitment set forth no cause for detention.

Booth was afterward indicted in the United States district court and a warrant issued for his arrest. He was again imprisoned; and again he applied to the supreme court—then, in term time—for a writ of *habeas corpus*. This was in July, 1854. In his petition to the supreme court, Booth set forth that he was in confinement upon a warrant issued by the district court of the United States and that the object of the imprisonment was to compel him to answer an indictment then pending against him therein. The supreme court of the State held that these facts showed that the district court of the United States had obtained jurisdiction of the case and that it was apparent that the indictment was for an offense of which the federal courts had exclusive jurisdiction. They could not therefore interfere; and his application for a discharge was denied.

Upon the indictment, Booth was tried and convicted, fined and imprisoned, for a violation of the fugitive slave law. Again the prisoner applied to the supreme court of Wisconsin,—his

last application bearing date January 26, 1855. He claimed discharge on the ground of the unconstitutionality of the law under which he had been indicted. The supreme court held that the indictment upon which he had been tried and convicted contained three counts, the first of which was to be considered as properly charging an offense within the act of congress of September 18, 1850, known as the "fugitive slave law," while the second and third counts did not set forth or charge an offense punishable by any statute of the United States; and as, upon these last-mentioned counts he was found guilty and not upon the first, he must be discharged.

The action of the supreme court of Wisconsin in a second time discharging Booth, was afterward reversed by the supreme court of the United States; and, its decision being respected by the State court, Booth was re-arrested in 1860, and the sentence of the district court of the United States executed in part upon him, when he was pardoned by the president.

By an act of the legislature, approved March 30, 1854, a "State Lunatic Asylum" was directed to be built at or in the vicinity of Madison, the capital of the State, upon land to be donated or purchased for that purpose. By a subsequent act, the name of the asylum was changed to the "Wisconsin State Hospital for the Insane." This was the third charitable institution established by the State. The hospital was opened for patients in July, 1860, under the direction of a board of trustees appointed by the governor. All insane persons, residents of Wisconsin, who, under the law providing for admission of patients into the hospital for treatment, become residents therein, are maintained at the expense of the State, provided the county in which such patient resided before being brought to the hospital pays the sum of one dollar and fifty cents a week for his or her support. Any patient can be supported by relatives, friends or guardians, if the latter desire to relieve the county and State from the burden, and can have special care and be provided with a special attendant, if the expense of the same be borne by parties interested. The hospital is beautifully located on the north shore of Lake Mendota, in Dane county, about four miles from Madison.

At the general election in the Fall of 1854, for members from Wisconsin to the thirty-fourth congress, Daniel Wells, Jr. was chosen from the first district; C. C. Washburn, from the second, and Charles Billingshurst from the third district. Billingshurst and Washburn were elected as republicans—that party having been organized in the Summer previous. Wells was a democrat.

The year 1854 was one of prosperity for Wisconsin, to all its industrial occupations. Abundant crops and increased prices were generally realized by the agriculturist. It was a year also of general health. It was ascertained that the amount of exports during the year, including lumber and mineral, exceeded thirteen millions of dollars.

The eighth regular session of the State legislature commenced on the 10th of January, 1855. C. C. Sholes was elected speaker of the assembly. The senate was democratic; the assembly, republican. On joint ballot, the republicans had but one majority. On the 1st of February, Charles Durkee a republican, was elected United States senator for a full term of six years from the 4th of March next ensuing, to fill the place of Isaac P. Walker whose term would expire on that day. Among the bills passed of a general nature, was one relative to the rights of married women, providing that any married woman, whose husband, either from drunkenness or profligacy, should neglect or refuse to provide for her support, should have the right, in her own name, to transact business, receive and collect her own earnings, and apply the same for her own support, and education of her children, free from the control and interference of her husband. The legislature adjourned *sine die* on the second of April, after a session of eighty-three days. Orsamus Cole having been elected in this month an associate justice of the supreme court in place of Judge Samuel Crawford, whose term of office would expire on the thirty-first of May of that year, went into office on the first day of June following, for a term of six years. His office would therefore end on the thirty-first of May, 1861.

On the 27th of May, 1855, Hiram A. Wright, superintendent of public instruction, died at Prairie du Chien. On the 18th of June following, the governor appointed A. Constantine Barry to fill his place. On the 5th of July, Garland, the owner of the rescued fugitive slave Glover, having brought suit in the United States district court for the loss of his slave, against Booth, the trial came on at Madison, resulting in the jury bringing in a verdict under instructions from the judge, of one thousand dollars, the value of a negro slave as fixed by act of congress of 1850.

The constitution of the State requiring the legislature to provide by law for an enumeration of the inhabitants in the year 1855, an act was passed by that body, approved March 31, of this year, for that purpose. The result showed a population for Wisconsin of over five hundred and fifty-two thousand. In November, at the general election, the democratic ticket for State officers was declared elected: William A. Barstow, for governor; Arthur McArthur, for lieutenant governor; David W. Jones, for secretary of State; Charles Kuehn, for State treasurer; William R. Smith, for attorney general; A. C. Barry, for superintendent of public instruction; William M. Dennis, for bank controller; and Edward McGarry for State prison commissioner. The vote for governor was very close; but the State canvassers declared Barstow elected by a small majority. The opposing candidate for that office was Coles Bashford, who ran as a republican.

The year 1855 was a prosperous one to the farmers of Wisconsin as well as to all industrial occupations. There were abundant crops and unexampled prices were realized.

FIFTH ADMINISTRATION.—COLES BASHFORD, GOVERNOR—1856-1857.

On the seventh day of January, 1856, William A. Barstow took and subscribed an oath of office as governor of Wisconsin, while Coles Bashford, who had determined to contest the right of Barstow to the governorship, went, on the same day, to the supreme court room, in Madison, and had the oath of office administered to him by Chief Justice Whiton. Bashford afterward called at the executive office and made a formal demand of Barstow that he should vacate the gubernatorial chair; but the latter respectfully declined the invitation. These were the initiatory steps of "Bashford vs. Barstow," for the office of governor of Wisconsin.

The fight now commenced in earnest. On the eleventh, the counsel for Bashford called upon the attorney general and requested him to file an information in the nature of a *quo warranto* against Barstow. On the fifteenth that officer complied with the request. Thereupon a summons was issued to Barstow to appear and answer. On the twenty-second, Bashford, by his attorney, asked the court that the information filed by the attorney general be discontinued and that he be allowed to file one, which request was denied by the court. While the motion was being argued, Barstow, by his attorneys, entered his appearance in the case.

On the second of February, Barstow moved to quash all proceedings for the reason that the court had no jurisdiction in the matter. This motion was denied by the court; that tribunal at the same time deciding that the filing of the motion was an admission by Barstow that the allegations contained in the information filed by the attorney general were true.

On the twenty-first of February, the time appointed for pleading to the information, Barstow, by his attorneys, presented to the court a stipulation signed by all the parties in the case, to the effect that the board of canvassers had determined Barstow elected governor; that the secretary of State had certified to his election; and that he had taken the oath of office. They submitted to the court whether it had jurisdiction, beyond the certificates, of those facts and the canvass so made to inquire as to the number of votes actually given for Barstow,—Bashford offering to prove that the certificates were made and issued through mistake and fraud, and that he, instead of Barstow, received the greatest number of votes. This stipulation the court declined to entertain or to pass upon the questions suggested; as they were not presented in legal form. Barstow

was thereupon given until the twenty-fifth of February to answer the information that had been filed against him by the attorney general.

On the day appointed, Barstow filed his plea to the effect that, by the laws of Wisconsin regulating the conducting of general election for State officers, it was the duty of the board of canvassers to determine who was elected to the office of governor; and that the board had found that he was duly elected to that office. It was a plea to the jurisdiction of the court. A demurrer was interposed to this plea, setting forth that the matters therein contained were not sufficient in law to take the case out of court; asking, also, for a judgment against Barstow, or that he answer further the information filed against him. The demurrer was sustained; and Barstow was required to answer over within four days; at the expiration of which time the counsel for Barstow withdrew from the case, on the ground, as they alleged, that they had appeared at the bar of the court to object to the jurisdiction of that tribunal in the matter, and the court had determined to proceed with the case, holding and exercising full and final jurisdiction over it; and that they could take no further steps without conceding the right of that tribunal so to hold. Thereupon, on the eighth of March, Barstow entered a protest, by a communication to the supreme court, against any further interference with the department under his charge by that tribunal, "either by attempting to transfer its powers to another or direct the course of executive action." The counsel for Bashford then moved for judgment upon the default of Barstow.

A further hearing of the case was postponed until March 18, when the attorney general filed a motion to dismiss the proceedings; against which Bashford, by his counsel, protested as being prejudicial to his rights. It was the opinion of the court that the attorney general could not dismiss the case, that every thing which was well pleaded for Bashford in his information was confessed by the default of Barstow. By strict usage, a final judgment ought then to have followed; but the court came to the conclusion to call upon Bashford to bring forward proof, showing his right to the office. Testimony was then adduced at length, touching the character of the returns made to the State canvassers; after hearing of which it was the opinion of the court that Bashford had received a plurality of votes for governor and that there must be a judgment in his favor and one of ouster against Barstow; which were rendered accordingly.

The ninth regular session of the legislature of Wisconsin commenced on the ninth of January, 1856. William Hull was elected speaker of the assembly. The senate had a republican majority, but the assembly was democratic. On the eleventh Barstow sent in a message to a joint convention of the two houses. On the twenty-first of March he tendered to the legislature his resignation as governor, giving for reasons the action of the supreme court in "Bashford vs. Barstow," which tribunal was then hearing testimony in the case. On the same day Arthur McArthur, lieutenant governor, took and subscribed an oath of office as governor of the State, afterwards sending a message to the legislature, announcing that the resignation of Barstow made it his duty to take the reins of government. On the twenty-fifth, Bashford called on McArthur, then occupying the executive office, and demanded possession—at the same time intimating that he preferred peaceable measures to force, but that the latter would be employed if necessary. The lieutenant governor thereupon vacated the chair, when the former took the gubernatorial seat, exercising thereafter the functions of the office until his successor was elected and qualified. His right to the seat was recognized by the senate on the twenty-fifth, and by the assembly on the twenty-seventh of March, 1856. This ended the famous case of "Bashford vs. Barstow," the first and only "war of succession" ever indulged in by Wisconsin.

The legislature, on the thirty-first of March, adjourned over to the third of September, to dispose of a congressional land grant to the State. Upon re-assembling, an important measure was taken up—that of a new apportionment for the legislature. It was determined to increase the

number of members from one hundred and seven to one hundred and twenty-seven. The session closed on the thirteenth of October. The general election for members to the thirty-fifth congress, held in November, resulted in the choice of John H. Potter, from the first district; C. C. Washburn from the second; and Charles Billingshurst, from the third district. They were all elected as republicans. The presidential canvass of this year was an exciting one in the State. The republicans were successful. Electors of that party cast their five votes for Fremont and Dayton.

The year 1856 was not an unprosperous one, agriculturally speaking, although in some respects decidedly unfavorable. In many districts the earlier part of the season was exceedingly dry, which materially diminished the wheat crop. Other industrial interests were every where in a flourishing condition.

The legislature commenced its tenth regular session at Madison, on the fourteenth day of January, 1857, with a republican majority in both houses. Wyman Spooner was elected speaker of the assembly. For the first time since the admission of the State into the Union, a majority of the members of both houses, together with the governor, were opposed to the democratic party. On the twenty-third the senate and assembly met in joint convention, for the purpose of electing a United States senator in place of Henry Dodge, whose term of office would expire on the fourth of March next ensuing. James R. Doolittle, republican, was the successful candidate for that office, for a full term of six years, from the fourth of March, 1857. The legislature adjourned on the ninth of March, 1857. At the Spring election, Judge Whiton was re-elected chief justice of the supreme court for a term of six years.

The second reformatory State institution established in Wisconsin, was, by an act of the legislature, approved March 7, 1857, denominated a House of Refuge for Juvenile Delinquents, afterward called the State Reform School, now known as the Wisconsin Industrial School for Boys, and is located at Waukesha, the county seat of Waukesha county. The courts and several magistrates in any county in Wisconsin may, in their discretion, sentence to this school any male child between the ages of ten and sixteen years, convicted of vagrancy, petit larceny, or any misdemeanor; also of any offense which would otherwise be punishable by imprisonment in the State prison; or, of incorrigible or vicious conduct in certain cases. The term of commitment must be to the age of twenty-one years.

At the State election held in November of this year, the republicans elected A. W. Randall governor; S. D. Hastings, State treasurer, and Edward M. McGraw, State prison commissioner. The democrats elected E. D. Campbell, lieutenant governor; D. W. Jones, secretary of State; Gabriel Bouck, attorney general; L. C. Draper, superintendent of public instruction, and J. C. Squires, bank comptroller.

The year 1857 was a disastrous one to Wisconsin, as well as to the whole country, in a financial point of view. Early in the Fall a monetary panic swept over the land. A number of prominent operators in the leading industrial pursuits were obliged to succumb. Agriculturally the year was a fair one for the State.

SIXTH ADMINISTRATION.—ALEXANDER W. RANDALL, GOVERNOR—1858—1859.

Randall's administration began on the fourth day of January, 1858, when for the first time he was inaugurated governor of the State. On the eleventh of January the legislature commenced its eleventh regular session, with a republican majority in both houses. Frederick S. Lovell was elected speaker of the assembly. The legislature adjourned *sine die* on the seventeenth of March, after an unusually long session of one hundred and twenty-five days. "That a large majority of the members were men of integrity, and disposed for the public weal, can not

to be doubted; but they were nearly all new members, and without former legislative experience. They set out to accomplish a great good, by holding up to public scorn and execration the wholesale briberies and iniquities of the immediate past; but they lacked concentration of effort, and, for want of union and preconcerted action, they failed to achieve the great triumph they sought, by providing a 'sovereign remedy' for the evils they exposed."

At the regular session of the legislature of 1856, an act was passed for a general revision of the laws of the State. Under this, and a subsequent act of the adjourned session of that year, three commissioners—David Taylor, Samuel J. Todd, and F. S. Lovell—were appointed "to collect, compile and digest the general laws" of Wisconsin. Their report was submitted to the legislature of 1858, and acted upon at a late day of the session. The laws revised, which received the sanction of the legislature, were published in one volume, and constitute what is known as the Revised Statutes of 1858.

At the Fall election, John F. Potter from the first district, and C. C. Washburn from the second district, both republicans, were elected to the thirty-sixth congress; while C. H. Larrabee, democrat, was elected to represent the third district.

The twelfth regular session of the Wisconsin legislature commenced on the twelfth of January, 1859, with a republican majority in both houses. William P. Lyon was elected speaker of the assembly. The legislature adjourned *sine die* on the twenty-first of March, 1859, after a session of sixty-nine days. At the regular spring election, Byron Paine was chosen associate justice of the supreme court, for a full term of six years, as the successor of Associate Justice Smith. As it was a question when the term of the latter ended—whether on the 31st day of May, 1859, or on the first Monday in January, 1860—he went through with the formality of resigning his office, and the governor of appointing Paine as his successor, on the 20th of June, 1859. On the twelfth of April, 1859, Edward V. Whiton, chief justice of the supreme court, died at his residence in Janesville. The office was filled by executive appointment on the 19th of the same month—the successor of Judge Whiton being Luther S. Dixon. Late in the Summer both political parties put into the field a full state ticket. The republicans were successful—electing for governor, Alexander W. Randall; for lieutenant governor, B. G. Noble; for secretary of state, L. P. Harvey; for state treasurer, S. D. Hastings; for attorney general, James H. Howe; for bank comptroller, G. Van Steenwyck; for superintendent of public instruction, J. L. Pickard; for state prison commissioner, H. C. Heg.

SEVENTH ADMINISTRATION.—ALEXANDER W. RANDALL, GOVERNOR (SECOND TERM), 1860—1861.

Alexander W. Randall was inaugurated the second time as governor of Wisconsin, on Monday, January 2, 1860. One week subsequent, the thirteenth regular session of the legislature commenced at Madison. For the first time the republicans had control, not only of all the State offices, but also of both branches of the legislature. William P. Lyon was elected speaker of the assembly. A new assessment law was among the most important of the acts passed at this session. The legislature adjourned on the second of April. At the spring election, Luther S. Dixon, as an independent candidate, was elected chief justice of the supreme court for the unexpired term of the late Chief Justice Whiton. In the presidential election which followed, republican electors were chosen—casting their five votes, in the electoral college, for Lincoln and Hamlin. At the same election, John F. Potter, from the first district; Luther Hanchett, from the second, and A. Scott Sloan, from the third district, were elected members of the thirty-seventh congress. Hanchett died on the twenty-fourth of November, 1862, when, on the twentieth of December following, W. D. McIndoe was elected to fill the vacancy. All these congressional representatives were republicans. Wisconsin, in 1860, was a strong repub-

lican State. According to the census of this year, it had a population of over seven hundred and seventy-seven thousand.

On the ninth of January, 1861, the fourteenth regular session of the State legislature commenced at Madison. Both branches were republican. Amasa Cobb was elected speaker of the assembly. On the tenth, both houses met in joint convention to hear the governor read his annual message. It was a remarkable document. Besides giving an excellent synopsis of the operations of the State government for 1860, the governor entered largely into a discussion of the question of secession and disunion, as then proposed by some of the southern states of the Union. These are his closing words:

"The right of a State to secede from the Union can never be admitted. The National Government can not treat with a State while it is in the Union, and particularly while it stands in an attitude hostile to the Union. So long as any State assumes a position foreign, independent and hostile to the government, there can be no reconciliation. The government of the United States can not treat with one of its own States as a foreign power. The constitutional laws extend over every State alike. They are to be enforced in every State alike. A State can not come into the Union as it pleases, and go out when it pleases. Once in, it must stay until the Union is destroyed. There is no coercion of a State. But where a faction of a people arrays itself, not against one act, but against all laws, and against all government, there is but one answer to be made: '*The Government must be sustained; the laws shall be enforced!*'"

On the twenty-third of January the legislature met in joint convention to elect a United States senator to fill the place of Charles Darkee, whose term of office would expire on the fourth of March next ensuing. The successful candidate was Timothy O. Howe, republican, who was elected for a full term of six years from the 4th of March, 1861. One of the important acts passed at this session of the legislature apportioned the State into senate and assembly districts, by which the whole number of members in both houses was increased from one hundred and twenty-seven to one hundred and thirty-three. Another act apportioned the State into six congressional districts instead of three. By this — the third congressional apportionment — each district was to elect one representative. The first district was composed of the counties of Milwaukee, Waukesha, Walworth, Racine, and Kenosha; the second, of the counties of Rock, Jefferson, Dane, and Columbia; the third, of Green, La Fayette, Iowa, Grant, Crawford, Richland, and Sauk; the fourth, of Ozaukee, Washington, Dodge, Fond du Lac, and Sheboygan; the fifth, Manitowoc, Calumet, Winnebago, Green Lake, Marquette, Waushara, Waupaca, Outagamie, Brown, Kewaunee, Door, Oconto, and Shawano; and the sixth, of the counties of Bad Ave, La Crosse, Monroe, Juneau, Adams, Portage, Wood, Jackson, Trempealeau, Buffalo, Pepin, Pierce, St. Croix, Dunn, Eau Claire, Clark, Marathon, Chippewa, Dallas, Polk, Burnett, Douglas, La Pointe, and Ashland. The legislature adjourned on the seventeenth of April, 1861.

At the spring elections of this year, Orsamus Cole was re-elected as associate justice of the supreme court. On the ninth of May following, Governor Randall issued a proclamation convening the legislature in extra session on the fifteenth of the same month. "The extraordinary condition of the country," said he, "growing out of the rebellion against the government of the United States, makes it necessary that the legislature of this State be convened in special session, to provide more completely for making the power of the State useful to the government and to other loyal States." The fifteenth or extra session began on the fifteenth of May, as designated in the governor's proclamation. The message of the governor was devoted entirely to the war. "At the close of the last annual session of the legislature," said he, "to meet a sudden emergency, an act was passed authorizing me to respond to the call of the president of the United States, for aid in maintaining the Union and the supremacy of the laws, or to suppress rebellion

or insurrection, or to repel invasion within the United States,' and I was authorized, and it was made my duty, to take such measures as, in my judgment, should provide in the speediest and most efficient manner for responding to such call: and to this end I was authorized to accept the services of volunteers for active service, to be enrolled in companies of not less than seventy-five men each, rank and file, and in regiments of ten companies each. I was also authorized to provide for uniforming and equipping such companies as were not provided with uniforms and equipments." "The first call of the president for immediate active service," continued the governor, "was for one regiment of men. My proclamation, issued immediately after the passage of the act of the legislature, was answered within less than ten days, by companies enough, each containing the requisite number of men, to make up at least five regiments instead of one. I then issued another proclamation, announcing the offers that had been made, and advising that thereafter companies might be enrolled to stand as minute men, ready to answer further calls, as they might be made, but without expense to the State, except as they were mustered into service. In less than one month from the date of my first proclamation, at least five thousand men, either as individuals or enrolled companies, have offered their services for the war, and all appear anxious for active service in the field." "The time for deliberation," concludes the governor, "must give way to the time for action. The constitution of the United States must be sustained in all its first intent and wholeness. The right of the people of every State to go into every other State and engage in any lawful pursuit, without unlawful interference or molestation; the freedom of speech and of the press; the right of trial by jury; security from unjustifiable seizure of persons or papers, and all constitutional privileges and immunities, must receive new guarantees of safety."

The extra session of the legislature passed, with a single exception, no acts except such as appertained to the military exigencies of the times. Both houses adjourned *sine die* on the twenty-seventh of May, 1861. As the administration of Governor Randall would close with the year, and as he was not a candidate for re-election, there was much interest felt throughout the State as to who his successor should be. Three State tickets were put in nomination: union, republican, and democratic. The republican ticket was successful, electing Louis P. Harvey, governor; Edward Salomon, lieutenant governor; James T. Lewis, secretary of state; S. D. Hastings, state treasurer; James H. Howe, attorney general; W. H. Ramsey, bank controller; J. L. Pickard, superintendent of public instruction; and A. P. Hodges, state prison commissioner.

THE WAR OF SECESSION — LAST YEAR OF RANDALL'S ADMINISTRATION

When Wisconsin was first called upon to aid the General Government in its efforts to sustain itself against the designs of the secession conspirators, the commercial affairs of the State were embarrassed to a considerable degree by the depreciation of the currency. The designs of the secessionists were so far developed at the ending of the year 1860 as to show that resistance to the national authority had been fully determined on. It is not a matter of wonder, then, that Governor Randall in his message to the legislature, early in January, 1861, should have set forth the dangers which threatened the Union, or should have denied the right of a State to secede from it. "Secession," said he, "is revolution; revolution is war; war against the government of the United States is treason." "It is time," he continued, "now, to know whether we have any government, and if so, whether it has any strength. Is our written constitution more than a sheet of parchment? The nation must be lost or preserved by its own strength. Its strength is in the patriotism of the people. It is time now that politicians became patriots; that men show their love of country by every sacrifice, but that of principle, and by

unwavering devotion to its interests and integrity." "The hopes," added the governor, most eloquently, "of civilization and Christianity are suspended now upon the answer to this question of dissolution. The capacity for, as well as the right of, self-government is to pass its ordeal, and speculation to become certainty. Other systems have been tried, and have failed; and all along, the skeletons of nations have been strewn, as warnings and land-marks, upon the great highway of historic government. Wisconsin is true, and her people steadfast. She will not destroy the Union, nor consent that it shall be done. Devised by great, and wise, and good men, in days of sore trial, it must stand. Like some bold mountain, at whose base the great seas break their angry floods, and around whose summit the thunders of a thousand hurricanes have rattled — strong, unmoved, immovable — so may our Union be, while treason surges at its base, and passions rage around it, unmoved, immovable — here let it stand forever." These are the words of an exalted and genuine patriotism. But the governor did not content himself with eloquence alone. He came down to matters of business as well. He urged the necessity of legislation that would give more efficient organization to the militia of the State. He warned the legislators to make preparations also for the coming time that should try the souls of men. "The signs of the times," said he, "indicate that there may arise a contingency in the condition of the government, when it will become necessary to respond to a call of the National Government for men and means to maintain the integrity of the Union, and to thwart the designs of men engaged in organized *treason*. While no unnecessary expense should be incurred, yet it is the part of wisdom, both for individuals and States, in revolutionary times, to be prepared to defend our institutions to the last extremity." It was thus the patriotic governor gave evidence to the members of both houses that he "scented the battle afar off."

On the 16th of January, a joint resolution of the legislature was passed, declaring that the people of Wisconsin are ready to co-operate with the friends of the Union every where for its preservation, to yield a cheerful obedience to its requirements, and to demand a like obedience from all others; that the legislature of Wisconsin, profoundly impressed with the value of the Union, and determined to preserve it unimpaired, hail with joy the recent firm, dignified and patriotic special message of the president of the United States; that they tender to him, through the chief magistrate of their own State, whatever aid, in men and money, may be required to enable him to enforce the laws and uphold the authority of the Federal Government, and in defense of the more perfect Union, which has conferred prosperity and happiness on the American people. "Renewing," said they, "the pledge given and redeemed by our fathers, we are ready to devote our lives, our fortunes, and our sacred honors in upholding the Union and the constitution."

The legislature, in order to put the State upon a kind of "war footing," passed an act for its defense, and to aid in enforcing the laws and maintaining the authority of the General Government. It was under this act that Governor Randall was enabled to organize the earlier regiments of Wisconsin. By it, in case of a call from the president of the United States to aid in maintaining the Union and the supremacy of the laws to suppress rebellion or insurrection, or to repel invasion within the United States, the governor was authorized to provide, in the most efficient manner, for responding to such call — to accept the services of volunteers for service, in companies of seventy-five men each, rank and file, and in regiments of ten companies each, and to commission officers for them. The governor was also authorized to contract for uniforms and equipments necessary for putting such companies into active service. One hundred thousand dollars were appropriated for war purposes; and bonds were authorized to be issued for that amount, to be negotiated by the governor, for raising funds. It will be seen, therefore, that the exigencies of the times — for Fort Sumter had not yet been surrendered —

were fully met by the people's representatives, they doing their whole duty, as they then understood it, in aid of the perpetuity of the Union.

Having defended Fort Sumter for thirty-four hours, until the quarters were entirely burned, the main gates destroyed, the gorge-wall seriously injured, the magazine surrounded by flames, and its door closed from the effects of the heat, four barrels and three cartridges of powder only being available, and no provisions but pork remaining, Robert Anderson, major of the first artillery, United States army, accepted terms of evacuation offered by General Beauregard, marched out of the fort on Sunday afternoon, the fourteenth of April, 1861, with colors flying and drums beating, bringing away company and private property, and saluting his flag with fifty guns. This, in brief, is the story of the fall of Sumter and the opening act of the War of the Rebellion.

"Whereas," said Abraham Lincoln, president, in his proclamation of the next day, "the laws of the United States have been for some time past, and now are, opposed, and the execution thereof obstructed, in the States of South Carolina, Georgia, Alabama, Florida, Mississippi, Louisiana, and Texas, by combinations too powerful to be suppressed by the ordinary course of judicial proceedings, or by the powers vested in the marshals by law." Now, in view of that fact, he called forth the militia of the several States of the Union, to the aggregate number of seventy-five thousand, in order to suppress those combinations, and to cause the laws to be duly executed. "A call is made on you by to-night's mail for one regiment of militia for immediate service," telegraphed the secretary of war to Randall, on the same day.

In Wisconsin, as elsewhere, the public pulse quickened under the excitement of the fall of Sumter. "The dangers which surrounded the nation awakened the liveliest sentiments of patriotism and devotion. For the time, party fealty was forgotten in the general desire to save the nation. The minds of the people soon settled into the conviction that a bloody war was at hand, and that the glorious fabric of our National Government, and the principles upon which it is founded, were in jeopardy, and with a determination unparalleled in the history of any country, they rushed to its defense. On every hand the National flag could be seen displayed, and the public enthusiasm knew no bounds; in city, town, and hamlet, the burden on every tongue was war." "We have never been accustomed," said Governor Randall, "to consider the military arm as essential to the maintenance of our government, but an exigency has arisen that demands its employment." "The time has come," he continued, "when parties and platforms must be forgotten, and all good citizens and patriots unite together in putting down rebels and traitors." "What is money," he asked, "what is life, in the presence of such a crisis?" Such utterances and such enthusiasm could but have their effect upon the legislature, which, it will be remembered, was still in session; so, although that body had already voted to adjourn, *sine die*, on the fifteenth of April, yet, when the moment arrived, and a message from the governor was received, announcing that, owing to the extraordinary exigencies which had arisen, an amendment of the law of the thirteenth instant was necessary, the resolution to adjourn was at once rescinded. The two houses thereupon not only increased the amount of bonds to be issued to two hundred thousand dollars, but they also passed a law exempting from civil process, during the time of service, all persons enlisting and mustering into the United States army from Wisconsin. When, on the seventeenth, the legislature did adjourn, the scene was a remarkable one. Nine cheers were given for the star spangled banner and three for the Governor's Guard, who had just then tendered their services—the first in the State—under the call for a regiment of men for three months' duty.

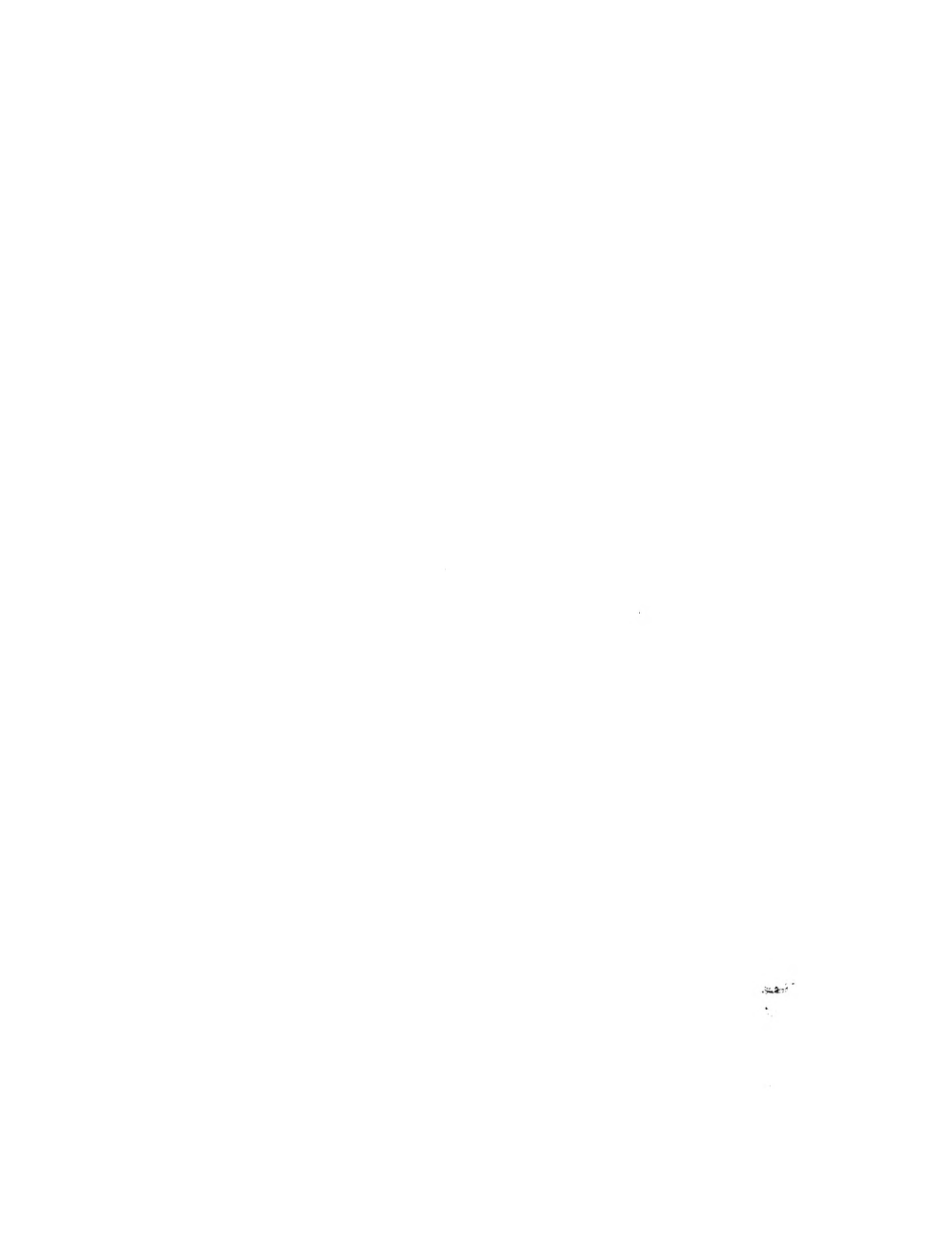
"For the first time in the history of this federal government," are the words of the governor, in a proclamation issued on the sixteenth of April, "organized treason has manifested itself within several States of the Union, and armed rebels are making war against it." "The treasuries of the country," said he, "must no longer be plundered; the public property must be

protected from aggressive violence; that already seized must be retaken, and the laws must be executed in every State of the Union alike." "A demand," he added, "made upon Wisconsin by the president of the United States, for aid to sustain the federal arm, must meet with a prompt response." The patriotism of the State was abundantly exhibited in their filling up a regiment before some of the remote settlements had any knowledge of the call. On the twenty-second, Governor Randall reported to the secretary of war that the First regiment was ready to go into rendezvous. The place designated was "Camp Scott," at Milwaukee; the day, the twenty-seventh of April. Then and there the several companies assembled—the regiment afterward completing its organization.

With a wise foresight, Governor Randall ordered, as a reserve force and in advance of another call for troops by the president, the formation of two more regiments—the Second and Third, and, eventually, the Fourth. Camps at Madison, Fond du Lac, and Racine, were formed for their reception, where suitable buildings were erected for their accommodation. Companies assigned to the Second regiment were ordered to commence moving into "Camp Randall," at Madison, on the first day of May. On the seventh, the secretary of war, under call of the president of the United States for forty-two thousand additional volunteers—this time for three years, or during the war—telegraphed Governor Randall that no more three months' volunteers were wanted; that such companies as were recruited must re-enlist for the new term or be disbanded.

At the extra session of the legislature of Wisconsin, which, as already mentioned, commenced on the fifteenth of May, called by Governor Randall immediately upon his being notified of the second call of the president for troops, on the third of May, the law hurriedly passed at the close of the regular session, and under which the governor had organized the First regiment, was found inadequate to meet the second call for troops. "A bill was introduced, and became a law, authorizing the governor to raise six regiments of infantry, inclusive of those he had organized or placed at quarters. When the six regiments were mustered into the United States service, he was authorized to raise two additional regiments, and thus to keep two regiments continually in reserve to meet any future call of the General Government. He was authorized to quarter and subsist volunteers at rendezvous—to transport, clothe, subsist and quarter them in camp at the expense of the State. Arms and munitions were to be furnished by the United States. Recruits were to be mustered into State service, and into United States service, for three years. Two assistant surgeons to each regiment were to be appointed, and paid by the State. The regiments, as they came into camp, were to be instructed in drill and various camp duties, to secure efficiency in the field. The troops, so called in, were to be paid monthly by the State, the same pay and emoluments as the soldiers in the United States army, from the date of enlistment. The paymaster general was authorized to draw funds from the State treasury for the payment of the State troops, and the expense incurred in subsisting, transporting and clothing them. The governor was authorized to purchase military stores, subsistence, clothing, medicine, field and camp equipage, and the sum of one million dollars was appropriated to enable the governor to carry out the law."

Other laws were passed relating to military matters. One authorized the governor to purchase two thousand stand of arms; and fifty thousand dollars were appropriated to pay for the same. Another authorized counties, towns, cities and incorporated villages to levy taxes for the purpose of providing for the support of families of volunteers residing in their respective limits. The one passed at the previous session, exempting volunteers from civil process while in the service, was amended so as to include all who might thereafter enlist. One granted five dollars per month as extra pay to enlisted volunteers having families dependent upon them for support, payable to their families. Another authorized the governor to employ such aids, clerks and



messengers, as he deemed necessary for the public interests. Still another authorized the payment of those who had enlisted for three months, but had declined to go in for three years. The expenses of the extra session were ordered to be paid out of the "war fund." One million dollars in bonds were authorized to be issued for war purposes to form that fund. The governor, secretary of state and state treasurer were empowered to negotiate them. By a joint resolution approved the twenty-first of May, the consent of the legislature was given to the governor to be absent from the State during the war, for as long a time as in his discretion he might think proper or advisable, in connection with the military forces of the State. For liberality, zeal and genuine patriotism, the members of the Wisconsin legislature, for the year 1861, deserve a high commendation. All that was necessary upon their final adjournment at the close of the extra session to place the State upon a "war footing," was the organization by the governor of the various military departments. These he effected by appointing Brigadier General William L. Utley, adjutant general; Brigadier General W. W. Tredway, quartermaster general; Colonel Edwin R. Wadsworth, commissary general; Brigadier General Simeon Mills, paymaster general; Brigadier General E. B. Wolcott, surgeon general; Major E. L. Buttrick, judge advocate; and Colonel William H. Watson, military secretary.

On the seventeenth of May, the First regiment, at "Camp Scott," was mustered into the United States service, and the war department informed that it awaited marching orders. The regimental officers were not all in accordance with the law and mode adopted afterwards. On the seventh of the month Governor Randall had appointed Rufus King a brigadier general, and assigned the First, Second, Third and Fourth regiments to his command as the Wisconsin brigade; although at that date only the First and Second had been called into camp. This brigade organization was not recognized by the General Government. The secretary of war telegraphed the governor of Wisconsin that the quota of the State, under the second call of the president, was two regiments—so that the whole number under both calls was only three—one (the First) for three months, two (the Second and Third) for three years. Notwithstanding this, Governor Randall proceeded to organize the Fourth.

As a number of the companies ordered into "Camp Randall" on the first day of May to form the Second regiment had only enlisted for three months, the order of the secretary of war of the seventh of that month making it imperative that all such companies must re-enlist for three years or during the war, or be disbanded, the question of extending their term of enlistment was submitted to the companies of the regiment, when about five hundred consented to the change. The quota of the regiment was afterward made up, and the whole mustered into the service of the United States for three years or during the war, under the president's second call for troops. This was on the eleventh of June, 1861. The Third regiment having had its companies assigned early in May, they were ordered in June into "Camp Hamilton" at Fond du Lac, where the regiment was organized, and, on the twenty-ninth of June, mustered into the United States' service as a three years regiment. This filled Wisconsin's quota under the second call of President Lincoln. By this time war matters in the State began to assume a systematic course of procedure—thanks to the patriotism of the people, the wisdom of the legislature, and the untiring energy and exertions of the governor and his subordinates.

The determination of the secretary of war to accept from Wisconsin only two three-years regiments under the second call for troops was soon changed, and three more were authorized, making it necessary to organize the Fourth, Fifth and Sixth. The Fourth was called into "Camp Utley" at Racine on the sixth of June, and was mustered into the service of the United States on the ninth of the following month. By the twenty-eighth of June, all the companies of the Fifth had assembled at "Camp Randall," and on the thirteenth of July, were mustered in as

United States troops. By the first of July, at the same place, the complement for the Sixth regiment had been made up, and the companies were mustered for three years into the service of the General Government, on the sixteenth of the same month. Governor Randall did not stop the good work when six regiments had been accepted, but assigned the necessary companies to form two more regiments—the Seventh and Eighth; however, he wisely concluded not to call them into camp until after harvest, unless specially required to do so. "If they are needed sooner," said the governor, in a letter to the president on the first of July, "a call will be immediately responded to, and we shall have their uniforms and equipments ready for them." "By the authority of our legislature," added the writer, "I shall, after the middle of August, keep two regiments equipped and in camp ready for a call to service, and will have them ready at an earlier day if needed."

About the latter part of June, W. P. Alexander, of Beloit, a good marksman, was commissioned captain to raise a company of sharpshooters for Berdan's regiment. He at once engaged in the work. The company was filled to one hundred and three privates and three officers. It left the State about the middle of September under Captain Alexander, and was mustered into the service at Wehawken on the twenty-third day of that month, as Company "G" of Berdan's regiment of sharpshooters. On the twenty-sixth of July, a commission was issued to G. Van Deutsch of Milwaukee, to raise a company of cavalry. He succeeded in filling his company to eighty-four men. He left the State in September, joining Fremont. The company was afterward attached to the fifth cavalry regiment of Missouri.

About the 20th of August, Governor Randall was authorized to organize and equip as rapidly as possible five regiments of infantry and five batteries of artillery, and procure for them necessary clothing and equipments according to United States regulations and prices, subject to the inspection of officers of the General Government. The five regiments were to be additional to the eight already raised. One regiment was to be German. During the last week of August the companies of the Seventh regiment were ordered into "Camp Randall," at Madison. They were mustered into the service soon after arrival. On the 28th of August orders were issued for the reorganization of the First regiment for three years, its term of three months having expired. The secretary of war having signified his acceptance of the regiment for the new term, its mustering into the service was completed on the nineteenth of October. This made six infantry regiments in addition to the eight already accepted, or fourteen in all. On the same day orders were issued assigning companies to the Eighth regiment,—the whole moving to "Camp Randall," at Madison, the first week in September, where their mustering in was finished on the thirteenth.

The Ninth, a German regiment, was recruited in squads, and sent into camp, where they were formed into companies, and the whole mustered in on the 26th of October, 1861, at "Camp Sigel," Milwaukee. Companies were assigned the Tenth regiment on the 18th of September, and ordered into camp at Milwaukee, where it was fully organized about the first of October, being mustered into the service on the fourteenth of that month. The Tenth infantry was enlisted in September, 1861, and mustered in on the fourteenth of October, 1861, at "Camp Holton," Milwaukee. The Eleventh regiment was called by companies into "Camp Randall" the latter part of September and first of October, 1861, and mustered in on the eighteenth. The Twelfth was called in to the same camp and mustered in by companies between the twenty-eighth of October and the fifth of November, 1861. The Thirteenth rendezvoused at "Camp Treadway," Janesville, being mustered into the United States service on the seventeenth of October, 1861. These thirteen regiments were all that had been accepted and mustered into the United States service while Randall was governor.

From the commencement of the rebellion a great desire had been manifested for the organ-

ization of artillery companies in Wisconsin, and this desire was finally gratified. Each battery was to number one hundred and fifty men, and, as has been shown, five had been authorized by the General Government to be raised in Wisconsin. The First battery was recruited at La Crosse, under the superintendence of Captain Jacob T. Foster, and was known as the "La Crosse Artillery." It rendezvoused at Racine early in October, 1861, where on the tenth of that month, it was mustered into the United States service. The Second battery, Captain Ernest Herzberg, assembled at "Camp Utley," Racine, and was mustered in with the First battery on the tenth. The Third, known as the "Badger Battery," was organized by Captain L. H. Drury, at Madison and Berlin, and was mustered into the service on the same day and at the same place as the First and Second. The Fourth battery, recruited and organized at Beloit, under the supervision of Captain John F. Vallee, was mustered in on the first of October, 1861, at Racine. The Fifth battery was recruited at Monroe, Green county, under the superintendence of Captain Oscar F. Pinney, moving afterward to "Camp Utley," Racine, where, on the first of October, it was mustered in, along with the Fourth. So brisk had been the recruiting, it was ascertained by the governor that seven companies had been raised instead of five, when the secretary of war was telegraphed to, and the extra companies—the Sixth and Seventh accepted; the Sixth, known as the "Buena Vista Artillery," being recruited at Lone Rock, Richland county, in September, Captain Henry Dillon, and mustered in on the second of October, 1861, at Racine; the Seventh, known as the "Badger State Flying Artillery," having organized at Milwaukee, Captain Richard R. Griffiths, and mustered in on the fourth of the same month, going into camp at Racine on the eighth. This completed the mustering in of the first seven batteries, during Governor Randall's administration; the whole mustered force being thirteen regiments of infantry; one company of cavalry; one of sharpshooters; and these seven artillery companies. "Wisconsin," said the governor, in response to a request as to the number of regiments organized, "sent one regiment for three months,—officers and men eight hundred and ten. The other regiments for the war up to the Thirteenth (including the First, re-organized), will average one thousand men each; one company of sharpshooters for Berdan's regiment, one hundred and three men; and seven companies of light artillery." Of cavalry from Wisconsin, only Deutsch's company had been mustered into the United States, although three regiments had been authorized by the General Government before the close of Randall's administration. The governor, before the expiration of his office, was empowered to organize more artillery companies—ten in all; and five additional regiments of infantry—making the whole number eighteen. On the tenth of December, he wrote: "Our Fourteenth infantry is full and in camp. * * * Fifteenth has five companies in camp, and filling up. Sixteenth has eight companies in camp, and will be full by the 25th of December. Seventeenth has some four hundred men enlisted. Eighteenth will be in camp, full, by January 1. Seven maximum companies of artillery in camp. * * * Three regiments of cavalry—two full above the maximum; the third, about eight hundred men in camp." It will be seen, therefore, that a considerable number of men in the three branches of the service was then in camp that had not been mustered into the service; and this number was considerably increased by the 6th of January, 1862, the day that Randall's official term expired; but no more men were mustered in, until his successor came into office, than those previously mentioned.

The First regiment—three months—left "Camp Scott," Milwaukee, on the ninth of June, 1861, for Harrisburg, Pennsylvania—eight hundred and ten in number; John C. Starkweather, colonel. The regiment returned to Milwaukee on the seventeenth of August, 1861, and was mustered out on the twenty-second.

The First regiment re-organized at "Camp Scott," Milwaukee. Its mustering into the service, as previously mentioned, was completed on the nineteenth of October. On the twenty-

eighth, it started for Louisville, Kentucky—nine hundred and forty-five strong—under command of its former colonel, John C. Starkweather. The Second regiment, with S. Park Coon as colonel, left "Camp Randall, Madison, for Washington city, on the eleventh of June, 1861—numbering, in all, one thousand and fifty-one. The Third regiment started from "Camp Hamilton," Fond du Lac, for Harrisburg, Pennsylvania, under command of Charles S. Hamilton, as colonel, on the twelfth of July, 1861, with a numerical strength of nine hundred and seventy-nine. The Fourth regiment—Colonel Halbert E. Payne—with a numerical strength of one thousand and fifty-three, departed on the fifteenth of July, 1861, from "Camp Utley," Racine, for Baltimore, Maryland. The Fifth regiment left "Camp Randall," Madison, one thousand and fifty-eight strong, commanded by Colonel Amasa Cobb, on the twenty-fourth of July, 1861, for Washington city. On the twenty-eighth of July, 1861, the Sixth regiment, numbering one thousand and eighty-four, moved from Madison, having been ordered to Washington city. It was commanded by Colonel Lysander Cutter. The Seventh regiment—Joseph Van Dor, Colonel—with a numerical strength of one thousand and sixteen men—officers and privates, received orders, as did the Fifth and Sixth, to move forward to Washington. They started from Madison on the morning of the twenty-first of September, 1861, for active service. The Eighth infantry, nine hundred and seventy-three strong, commanded by Colonel Robert C. Murphy, left Madison, *en route* for St. Louis, Missouri, on the morning of the twelfth of October, 1861. The Ninth, or German regiment, with Frederick Salomon in command as colonel, did not leave "Camp Sigel," for active service, while Randall was governor. The Tenth infantry moved from "Camp Holton," Milwaukee, commanded by Colonel Alfred R. Chapin, on the ninth of November, 1861, destined for Louisville, Kentucky, with a total number of nine hundred and sixteen officers and privates. On the twentieth of November, 1861, the Eleventh regiment "broke camp" at Madison, starting for St. Louis, under command of Charles L. Harris, as colonel. Its whole number of men was nine hundred and sixteen. The Twelfth regiment, at "Camp Randall," Madison—Colonel George E. Bryant, and the Thirteenth, at "Camp Tredway," Janesville—Colonel Maurice Maloney—were still in camp at the expiration of the administration of Governor Randall: these, with the Ninth, were all that had not moved out of the State for active service, of those mustered in previous to January 6, 1861,—making a grand total of infantry sent from Wisconsin, up to that date, by the governor, to answer calls of the General Government, for three years' service or during the war, of nine thousand nine hundred and ninety-one men, in ten regiments, averaging very nearly one thousand to each regiment. Besides these ten regiments of infantry for three years' service, Wisconsin had also sent into the field the First regiment, for three months' service, numbering eight hundred and ten men; Alexander's company of sharpshooters, one hundred and six; and Deutsch's company of cavalry, eighty-four: in all, one thousand. Adding these to the three years' regiments, and the whole force, in round numbers, was eleven thousand men, furnished by the State in 1861.

EIGHTH ADMINISTRATION.—LOUIS P. HARVEY AND EDWARD SALOMON, GOVERNORS—1862—1863.

Louis P. Harvey was inaugurated governor of Wisconsin on the sixth of January, 1862. The fifteenth regular session of the legislature of the State began on the eighth of the same month. In the senate, the republicans were in the majority; but in the assembly they had only a plurality of members, there being a number of "Union" men in that branch—enough, indeed, to elect, by outside aid, J. W. Beardsley, who ran for the assembly, upon the "Union" ticket, as speaker. Governor Harvey, on the tenth, read his message to the legislature in joint convention. "No previous legislature," are his opening words, "has convened under equal incentives to a disinterested zeal in the public service. . . . The occasion," he adds, "pleads

with you in rebuke of all the meaner passions, admonishing to the exercise of a conscientious patriotism, becoming the representatives of a Christian people, called in God's providence to pass through the furnace of a great trial of their virtue, and of the strength of the Government." On the seventh of April following, the legislature adjourned until the third of June next ensuing. Before it again assembled, an event occurred, casting a gloom over the whole State. The occasion was the accidental drowning of Governor Harvey.

Soon after the battle of Pittsburgh Landing, on the seventh of April, 1862, the certainty that some of the Wisconsin regiments had suffered severely, induced the governor to organize a relief party, to aid the wounded and suffering soldiers from the State. On the tenth, Harvey and others started on their tour of benevolence. Arriving at Chicago, they found a large number of boxes had been forwarded there from different points in the State, containing supplies of various kinds. At Mound City, Paducah, and Savannah, the governor and his party administered to the wants of the sick and wounded Wisconsin soldiers. Having completed their mission of mercy, they repaired to a boat in the harbor of Savannah, to await the arrival of the *Minnehaha*, which was to convey them to Cairo, on their homeward trip. It was late in the evening of the nineteenth of April, 1862, and very dark when the boat arrived which was to take the governor and his friends on board; and as she rounded to, the bow touching the *Dunkirk*, on which was congregated the party ready to depart, Governor Harvey, by a misstep, fell overboard between the two boats, into the Tennessee river. The current was strong, and the water more than thirty feet deep. Every thing was done that could be, to save his life, but all to no purpose. His body was subsequently found and brought to Madison for interment. Edward Salomon, lieutenant governor, by virtue of a provision of the constitution of the State, upon the death of Harvey, succeeded to the office of governor of Wisconsin. On the third day of June, the legislature re-assembled in accordance with adjournment on the seventh of April previous, Governor Salomon, in his message of that day, to the senate and assembly, after announcing the sad event of the death of the late governor, said: "The last among the governors elected by the people of this State, he is the first who has been removed by death from our midst. The circumstances leading to and surrounding the tragic and melancholy end of the honored and lamented deceased, are well known to the people, and are, with his memory, treasured up in their hearts." He died," added Salomon, "while in the exercise of the highest duties of philanthropy and humanity, that a noble impulse had imposed upon him." The legislature, on the thirteenth of June, by a joint resolution, declared that in the death of Governor Harvey, the State had "lost an honest, faithful, and efficient public officer, a high-toned gentleman, a warm-hearted philanthropist, and a sincere friend." Both houses adjourned *sine die*, on the seventeenth of June, 1862.

Business of great public importance, in the judgment of the governor, rendering a special session of the legislature necessary, he issued, on the twenty-ninth of August, 1862, his proclamation to that effect, convening both houses on the tenth of September following. On that day he sent in his message, relating wholly to war matters. He referred to the fact that since the adjournment of the previous session, six hundred thousand more men had been called for by the president of the United States, to suppress the rebellion. "It is evident," said he, "that to meet further calls, it is necessary to rely upon a system of drafting or conscription, in Wisconsin." The governor then proceeded to recommend such measures as he deemed necessary to meet the exigencies of the times. The legislature levied a tax to aid volunteering, and passed a law giving the right of suffrage to soldiers in the military service. They also authorized the raising of money for payment of bounties to volunteers. The legislature adjourned on the twenty-sixth of September, 1862, after a session of sixteen days, and the enacting of seventeen laws.

On the 7th of October, James H. Howe, attorney general, resigned his office to enter the army. On the 14th of that month, Winfield Smith was appointed by the governor to fill the vacancy.

At the general election in the Fall of this year, six congressmen were elected to the thirty-eighth congress: James S. Brown from the first district; J. C. Sloan, from the second; Amasa Cobb, from the third; Charles A. Eldredge, from the fourth; Ezra Wheeler, from the fifth; and W. D. McIndoe, from the sixth district. Sloan, Cobb, and McIndoe, were elected as republicans; Brown, Eldridge, and Wheeler, as democrats.

The sixteenth regular session of the Wisconsin legislature, commenced on the fourteenth of January, 1863. J. Allen Barber was elected speaker of the assembly. The majority in both houses was republican. Governor Salomon read his message on the fifteenth, to the joint convention, referring, at length, to matters connected with the war of the rebellion. A large number of bills were passed by the legislature for the benefit of soldiers and their families. On the twenty-second, the legislature re-elected James R. Doolittle, to the United States senate for six years, from the fourth of March next ensuing. The legislature adjourned *sine die* on the second of April following. In the Spring of this year, Luther S. Dixon was re-elected chief justice of the supreme court, running as an independent candidate.

By a provision of the Revised Statutes of 1858, as amended by an act passed in 1862, and interpreted by another act passed in 1873, the terms of the justices of the supreme court, elected for a full term, commence on the first Monday in January next succeeding their election.

At the Fall election there were two tickets in the field: democratic and union republican. The latter was successful, electing James T. Lewis, governor; Wyman Spooner, lieutenant governor; Lucius Fairchild, secretary of state; S. D. Hastings, state treasurer; Winfield Smith, attorney general; J. L. Pickard, state superintendent; W. H. Ramsay, bank comptroller; and Henry Cordier, state prison commissioner.

WAR OF SECESSION—HARVEY AND SALOMON'S ADMINISTRATION.

When Governor Randall turned over to his successor in the gubernatorial chair, the military matters of Wisconsin, he had remaining in the State, either already organized or in process of formation, the Ninth infantry, also the Twelfth up to the Nineteenth inclusive; three regiments of cavalry; and ten batteries—First to Tenth inclusive. Colonel Edward Daniels, in the Summer of 1861, was authorized by the war department to recruit and organize one battalion of cavalry in Wisconsin. He was subsequently authorized to raise two more companies. Governor Randall, in October, was authorized to complete the regiment—the First cavalry—by the organization of six additional companies. The organization of the Second cavalry regiment was authorized in the Fall of 1861, as an "independent acceptance," but was finally turned over to the State authorities. Early in November, 1861, the war department issued an order discontinuing enlistments for the cavalry service, and circulars were sent to the different State executives to consolidate all incomplete regiments. Ex-Governor Barstow, by authority of General Fremont, which authority was confirmed by the General Government, had commenced the organization of a cavalry regiment—the Third Wisconsin—when Governor Randall received information that the authority of Barstow had been revoked. The latter, however, soon had his authority restored. In October, Governor Randall was authorized by the war department to raise three additional companies of artillery—Eighth to Tenth inclusive. These three batteries were all filled and went into camp by the close of 1861. Governor Randall, therefore, besides sending out of the State eleven thousand men, had in process of formation, or fully organized, nine regiments of infantry, three regiments of cavalry, and ten companies of artillery, left behind in

various camps in the State, to be turned over to his successor.

The military officers of Wisconsin were the governor, Louis P. Harvey, commander-in-chief; Brigadier General Augustus Gaylord, adjutant general; Brigadier General W. W. Tredway, quartermaster general; Colonel Edwin R. Wadsworth, commissary general; Brigadier General Simeon Mills, paymaster general; Brigadier General E. B. Wolcott, surgeon general; Major M. H. Carpenter, judge advocate; and Colonel William H. Watson, military secretary. As the General Government had taken the recruiting service out of the hands of the executives of the States, and appointed superintendents in their place, the offices of commissary general and paymaster general were no longer necessary; and their time, after the commencement of the administration in Wisconsin of 1862, was employed, so long as they continued their respective offices, in settling up the business of each. The office of commissary general was closed about the first of June, 1862; that of paymaster general on the tenth of July following. On the last of August, 1862, Brigadier General Tredway resigned the position of quartermaster general, and Nathaniel F. Lund was appointed to fill his place.

Upon the convening of the legislature of the State in its regular January session of this year—1862, Governor Harvey gave, in his message to that body, a full statement of what had been done by Wisconsin in matters appertaining to the war, under the administration of his predecessor. He stated that the State furnished to the service of the General Government under the call for volunteers for three months, one regiment—First Wisconsin; under the call for volunteers for three years, or the war, ten regiments, numbering from the First re-organized to the Eleventh, excluding the Ninth or German regiment. He gave as the whole number of officers, musicians and privates, in these ten three-year regiments, ten thousand one hundred and seventeen. He further stated that there were then organized and awaiting orders, the Ninth, in "Camp Sigel," Milwaukee, numbering nine hundred and forty men, under Colonel Frederick Salomon; the Twelfth, in "Camp Randall," one thousand and thirty-nine men, under Colonel George E. Bryant; the Thirteenth, in "Camp Tredway," Janesville, having nine hundred and nineteen men, commanded by Colonel M. Maloney; and the Fourteenth, at "Camp Wood," Fond du Lac, eight hundred and fifty men, under Colonel D. E. Wood.

The Fifteenth or Scandinavian regiment, Colonel H. C. Heg, seven hundred men, and the Sixteenth, Colonel Benjamin Allen, nine hundred men, were at that time at "Camp Randall," in near readiness for marching orders. The Seventeenth (Irish) regiment, Colonel J. L. Doran, and the Eighteenth, Colonel James S. Alban, had their full number of companies in readiness, lacking one, and had been notified to go into camp—the former at Madison, the latter at Milwaukee. Seven companies of artillery, numbering together one thousand and fifty men, had remained for a considerable time in "Camp Utley," Racine, impatient of the delays of the General Government in calling them to move forward. Three additional companies of artillery were about going into camp, numbering three hundred and thirty-four men. Besides these, the State had furnished, as already mentioned, an independent company of cavalry, then in Missouri, raised by Captain Von Deutsch, of eighty-one men; a company of one hundred and four men for Berdan's sharpshooters; and an additional company for the Second regiment, of about eighty men. Three regiments of cavalry—the First, Colonel E. Daniels; the Second, Colonel C. C. Washburn; and the Third, Colonel W. A. Barstow; were being organized. They numbered together, two thousand four hundred and fifty men. The Nineteenth (independent) regiment was rapidly organizing under the direction of the General Government, by Colonel H. T. Sanders, Racine. Not bringing this last regiment into view, the State had, at the commencement of Governor Harvey's administration, including the First, three-months' regiment, either in the service of the United States or organizing for it, a total of twenty-one thousand seven hundred and eighty-three men.

The legislature at its regular session of 1862, passed a law making it necessary to present all claims which were made payable out of the war fund, within twelve months from the time they accrued; a law was also passed authorizing the investment of the principal of the school fund in the bonds of the state issued for war purposes; another, amendatory of the act of the extra session of 1861, granting exemption to persons enrolled in the military service, so as to except persons acting as fiduciary agents, either as executors or administrators, or guardians or trustees, or persons defrauding the State, or any school district of moneys belonging to the same; also authorizing a stay of proceedings in foreclosures of mortgages, by advertisements. "The State Aid Law" was amended so as to apply to all regiments of infantry, cavalry, artillery and sharpshooters, defining the rights of families, fixing penalties for the issue of false papers, and imposing duties on military officers in the field to make certain reports. These amendments only included regiments and companies organized up to and including the Twentieth, which was in process of organization before the close of the session. A law was also passed suspending the sale of lands mortgaged to the State, or held by volunteers; another defining the duties of the allotment commissioners appointed by the president of the United States, and fixing their compensation. One authorized the issuing of bonds for two hundred thousand dollars for war purposes; one authorized a temporary loan from the general fund to pay State aid to volunteers; and one, the appointment of a joint committee to investigate the sale of war bonds; while another authorized the governor to appoint surgeons to batteries, and assistant surgeons to cavalry regiments.

The legislature, it will be remembered, took a recess from the seventh of April to the third of June, 1862. Upon its re-assembling, an act was passed providing for the discontinuance of the active services of the paymaster general, quartermaster general and commissary general. Another act appropriated twenty thousand dollars to enable the governor to care for the sick and wounded soldiers of the State. There was also another act passed authorizing the auditing, by the quartermaster general, of bills for subsistence and transportation of the Wisconsin cavalry regiments. At the extra session called by Governor Salomon, for the tenth of September, 1862, an amendment was made to the law granting aid to families of volunteers, by including all regiments of cavalry, infantry, or batteries of artillery before that time raised in the State, or that might afterward be raised and mustered into the United States service. It also authorized the levying of a State tax of two hundred and seventy-five thousand dollars to be placed to the credit of the war fund and used in the payment of warrants for "State Aid" to families of volunteers. Another law authorized commissioned officers out of the State to administer oaths and take acknowledgments of deeds and other papers. One act authorized soldiers in the field, although out of the State, to exercise the right of suffrage; and another gave towns, cities, incorporated villages and counties the authority to raise money to pay bounties to volunteers.

On the fifth of August, 1862, Governor Salomon received from the war department a dispatch stating that orders had been issued for a draft of three hundred thousand men to be immediately called into the service of the United States, to serve for nine months unless sooner discharged; that if the State quota under a call made July 2, of that year, for three hundred thousand volunteers, was not filled by the fifteenth of August, the deficiency would be made up by draft; and that the secretary of war would assign the quotas to the States and establish regulations for the draft. On the eighth of that month, the governor of the State was ordered to immediately cause an enrollment of all able-bodied citizens between eighteen and forty-five years of age, by counties. Governor Salomon was authorized to appoint proper officers, and the United States promised to pay all reasonable expenses. The quota for Wisconsin, under the call for nine months' men, was eleven thousand nine hundred and four. The draft was made by the governor in obedience to the order he had received from Washington; but such had been the volunteering under the stim-

plus caused by a fear of it, that only four thousand five hundred and thirty-seven men were drafted. This was the first and only draft made in Wisconsin by the State authorities. Subsequent ones were made under the direction of the provost marshal general at Washington.

The enlisting, organization and mustering into the United States service during Randall's administration of thirteen regiments of infantry—the First to the Thirteenth inclusive, and the marching of ten of them out of the State before the close of 1861, also, of one company of cavalry under Captain Von Deutsch and one company of sharpshooters under Captain Alexander, constituted the effective aid abroad of Wisconsin during that year to suppress the rebellion. But for the year 1862, this aid, as to number of organizations, was more than doubled, as will now be shown.

The Ninth regiment left "Camp Sigel," Milwaukee, under command of Colonel Frederick Salmon, on the twenty-second of January, 1862, numbering thirty-nine officers and eight hundred and eighty-four men, to report at Fort Leavenworth, Kansas.

The Twelfth infantry left Wisconsin under command of Colonel George E. Bryant, ten hundred and forty-five strong, the eleventh of January, 1862, with orders to report at Weston, Missouri.

The Thirteenth regiment—Colonel Maurice Maloney—left "Camp Tredway," Janesville, on the eighteenth of January, 1862, nine hundred and seventy strong, under orders to report at Leavenworth, Kansas, where it arrived on the twenty-third.

The Fourteenth regiment of infantry departed from "Camp Wood," Fond du Lac, under command of Colonel David E. Wood, for St. Louis, Missouri, on the eighth of March, 1862, it having been mustered into the United States service on the thirtieth of January previous. Its total strength was nine hundred and seventy officers and men. It arrived at its destination on the tenth of March, and went into quarters at "Benton Barracks."

The Fifteenth regiment, mostly recruited from the Scandinavian population of Wisconsin, was organized at "Camp Randall," Madison—Hans C. Heg as colonel. Its muster into the United States service was completed on the fourteenth of February, 1862, it leaving the State for St. Louis, Missouri, on the second of March following, with a total strength of eight hundred and one officers and men.

The Sixteenth regiment was organized at "Camp Randall," and was mustered into the service on the last day of January, 1862, leaving the State, with Benjamin Allen as colonel, for St. Louis on the thirteenth of March ensuing, having a total strength of one thousand and sixty-six.

The regimental organization of the Seventeenth infantry (Irish), Colonel John L. Doran, was effected at "Camp Randall," and the mustering in of the men completed on the fifteenth of March, 1862, the regiment leaving the State on the twenty-third for St. Louis.

The Eighteenth regiment organized at "Camp Trowbridge," Milwaukee—James S. Alban, colonel—completed its muster into the United States service on the fifteenth of March, 1862, and left the State for St. Louis on the thirtieth, reaching their point of destination on the thirty-first.

The Nineteenth infantry rendezvoused at Racine as an independent regiment, its colonel, Horace T. Sanders, being commissioned by the war department. The men were mustered into the service as fast as they were enlisted. Independent organizations being abolished, by an order from Washington, the Nineteenth was placed on the same footing as other regiments in the State. On the twentieth of April, 1862, the regiment was ordered to "Camp Randall" to guard rebel prisoners. Here the mustering in was completed, numbering in all nine hundred and seventy-three. They left the State for Washington on the second of June.

The muster into the United States service of the Twentieth regiment—Bertine Pinckney, colonel—was completed on the twenty-third of August, 1862, at "Camp Randall," the original strength being nine hundred and ninety. On the thirtieth of August the regiment left the State for St. Louis.

The Twenty-first infantry was organized at Oshkosh, being mustered in on the fifth of September, 1862, with a force of one thousand and two, all told—Benjamin J. Sweet, colonel—leaving the State for Cincinnati on the eleventh.

The Twenty-second regiment—Colonel William L. Utley—was organized at "Camp Utley," Racine, and mustered in on the second of September, 1862. Its original strength was one thousand and nine. It left the State for Cincinnati on the sixteenth.

On the thirtieth of August, 1862, the Twenty-third regiment—Colonel Joshua J. Guppy—was mustered in at "Camp Randall," leaving Madison for Cincinnati on the fifteenth.

The Twenty-fourth infantry rendezvoused at "Camp Sigel," Milwaukee. Its muster in was completed on the twenty-first of August, 1862, the regiment leaving the State under Colonel Charles H. Larrabee, for Kentucky, on the fifth of September, one thousand strong.

On the fourteenth of September, 1862, at "Camp Salomon," LaCrosse, the Twenty-fifth regiment was mustered into the service—Milton Montgomery, colonel. They left the State on the nineteenth with orders to report to General Pope, at St. Paul, Minnesota, to aid in suppressing the Indian difficulties in that State. Their entire strength was one thousand and eighteen. The regiment, after contributing to the preservation of tranquility among the settlers, and deterring the Indians from hostilities, returned to Wisconsin, arriving at "Camp Randall" on the eighteenth of December, 1862.

The Twenty-sixth—almost wholly a German regiment—was mustered into the service at "Camp Sigel," Milwaukee, on the seventeenth of September, 1862. The regiment, under command of Colonel William H. Jacobs, left the State for Washington city on the sixth of October, one thousand strong.

The Twenty-seventh infantry was ordered to rendezvous at "Camp Sigel," Milwaukee, on the seventeenth of September, 1862; but the discontinuance of recruiting for new regiments in August left the Twenty-seventh with only seven companies full. An order authorizing the recruiting of three more companies was received, and under the supervision of Colonel Conrad Krez the organization was completed, but the regiment at the close of the year had not been mustered into the service.

On the twenty-fourth of October, 1862, the Twenty-eighth regiment—James M. Lewis, of Oconomowoc, colonel—was mustered into the United States service at "Camp Washburn," Milwaukee. Its strength was nine hundred and sixty-one. In November, the regiment was employed in arresting and guarding the draft rioters in Ozaukee county. It left the State for Columbus, Kentucky, on the twentieth of December, where they arrived on the twenty-second; remaining there until the fifth of January, 1863.

The Twenty-ninth infantry—Colonel Charles R. Gill—was organized at "Camp Randall," where its muster into the United States service was completed on the twenty-seventh of September, 1862, the regiment leaving the State for Cairo, Illinois, on the second of November.

The Thirtieth regiment, organized at "Camp Randall" under the supervision of Colonel Daniel J. Dill, completed its muster into the United States service on the twenty-first of October, 1862, with a strength of nine hundred and six. On the sixteenth of November, one company of the Thirtieth was sent to Green Bay to protect the draft commissioner, remaining several weeks. On the eighteenth, seven companies moved to Milwaukee to assist in enforcing the draft in Milwaukee county, while two companies remained in "Camp Randall" to guard Ozaukee rioters.

On the twenty-second, six companies from Milwaukee went to West Bend, Washington county, one company returning to "Camp Randall." After the completion of the draft in Washington county, four companies returned to camp, while two companies were engaged in gathering up the drafted men.

The final and complete organization of the Thirty-first infantry—Colonel Isaac E. Messmore—was not concluded during the year 1862.

The Thirty-second regiment, organized at "Camp Bragg," Oshkosh, with James H. Howe as colonel, was mustered into the service on the twenty-fifth of September, 1862; and, on the thirtieth of October, leaving the State, it proceeded by way of Chicago and Cairo to Memphis, Tennessee, going into camp on the third of November. The original strength of the Thirty-second was nine hundred and ninety-three.

The Thirty-third infantry—Colonel Jonathan B. Moore—mustered in on the eighteenth of October, 1862, at "Camp Utley," Racine, left the State, eight hundred and ninety-two strong, moving by way of Chicago to Cairo.

The Thirty-fourth regiment, drafted men, original strength nine hundred and sixty-one—Colonel Fritz Anneke—had its muster into service for nine months completed at "Camp Washburn," Milwaukee, on the last day of the year 1862.

Of the twenty-four infantry regiments, numbered from the Twelfth to the Thirty-fourth inclusive, and including also the Ninth, three—the Ninth, Twelfth, and Thirteenth—were mustered into the United States service in 1861. The whole of the residue were mustered in during the year 1862, except the Twenty-seventh and the Thirty-first. All were sent out of the State during 1862, except the last two mentioned and the Twenty-fifth, Thirtieth, and Thirty-fourth.

The First regiment of cavalry—Colonel Edward Daniels—perfected its organization at "Camp Harvey," Kenosha. Its muster into the United States service was completed on the eighth of March, 1862, the regiment leaving the State for St. Louis on the seventeenth, with a strength of eleven hundred and twenty-four.

The muster of the Second Wisconsin cavalry was completed on the twelfth of March, 1862, at "Camp Washburn," Milwaukee, the regiment leaving the State for St. Louis on the twenty-fourth, eleven hundred and twenty-seven strong. It was under the command of Cadwallader C. Washburn as colonel.

The Third Wisconsin cavalry—Colonel William A. Barstow—was mustered in at "Camp Barstow," Janesville. The muster was completed on the 31st of January, 1862, the regiment leaving the State on the 26th of March for St. Louis, with a strength of eleven hundred and eighty-six.

The original project of forming a regiment of light artillery in Wisconsin was overruled by the war department, and the several batteries were sent from the State as independent organizations.

The First battery—Captain Jacob T. Foster—perfected its organization at "Camp Utley," where the company was mustered in, it leaving the State with a strength of one hundred and fifty-five, on the 23d of January, 1862, for Louisville, where the battery went into "Camp Irvine," near that city. The Second battery—Captain Ernest F. Herzberg—was mustered into the service at "Camp Utley," October 10, 1861, the company numbering one hundred and fifty-three. It left the State for Baltimore, on the 21st of January, 1862. The Third battery—Captain L. H. Drury—completed its organization of one hundred and seventy at "Camp Utley," and was mustered in October 10, 1861, leaving the State for Louisville, on the 23d of January, 1862. The Fourth battery—Captain John F. Vallee—rendezvoused at "Camp Utley." Its muster in was completed on the 1st of October, 1861, its whole force being one hundred and fifty. The company left the State for Baltimore on the 21st of January, 1862. The Fifth bat-

tery, commanded by Captain Oscar F. Pinney, was mustered in on the 1st of October, 1861, at "Camp Utley," leaving the State for St. Louis, on the 15th of March, 1862, one hundred and fifty-five strong. The Sixth battery—Captain Henry Dillon—was mustered in on the 2d of October, 1861, at "Camp Utley," leaving the State for St. Louis, March 15, 1862, with a numerical strength of one hundred and fifty-seven. The Seventh battery—Captain Richard R. Griffiths—was mustered in on the 4th of October, 1861, at "Camp Utley," and proceeded on the 15th of March, 1862, with the Fifth and Sixth batteries to St. Louis. The Eighth battery, commanded by Captain Stephen J. Carpenter, was mustered in on the 8th of January, 1862, at "Camp Utley," and left the State on the 18th of March following, for St. Louis, one hundred and sixty-one strong. The Ninth battery, under command of Captain Cyrus H. Johnson, was organized at Burlington, Racine county. It was mustered in on the 7th of January, 1862, leaving "Camp Utley" for St. Louis, on the 18th of March. At St. Louis, their complement of men— one hundred and fifty-five—was made up by the transfer of forty-five from another battery. The Tenth battery—Captain Yates V. Bebee—after being mustered in at Milwaukee, on the 10th of February, 1862, left "Camp Utley," Racine, on the 18th of March for St. Louis, one hundred and seventeen strong. The Eleventh battery—Captain John O'Rourke—was made up of the "Oconto Irish Guards" and a detachment of Illinois recruits. The company was organized at "Camp Douglas," Chicago, in the Spring of 1862. Early in 1862, William A. Pile succeeded in enlisting ninety-nine men as a company to be known as the Twelfth battery. The men were mustered in and sent forward in squads to St. Louis. Captain Pile's commission was revoked on the 18th of July. His place was filled by William Zickrick. These twelve batteries were all that left the State in 1862. To these are to be added the three regiments of cavalry and the nineteen regiments of infantry, as the effective force sent out during the year by Wisconsin.

The military officers of the State, at the commencement of 1863, were Edward Salomon, governor and commander-in-chief; Brigadier General Augustus Gaylord, adjutant general; Colonel S. Nye Gibbs, assistant adjutant general; Brigadier General Nathaniel F. Lund, quartermaster general; Brigadier General E. B. Wolcott, surgeon general; and Colonel W. H. Watson, military secretary. The two incomplete regiments of 1862—the Twenty-seventh and Thirty-first volunteers—were completed and in the field in March, 1863. The former was mustered in at "Camp Sigel"—Colonel Conrad Kreuz—on the 7th of March, and left the State, eight hundred and sixty-five strong, on the 16th for Columbus, Kentucky; the latter, under command of Colonel Isaac E. Messmore, with a strength of eight hundred and seventy-eight, left Wisconsin on the 1st of March, for Cairo, Illinois. The Thirty-fourth (drafted) regiment left "Camp Washburn," Milwaukee, on the 31st of January, 1863, for Columbus, Kentucky, numbering nine hundred and sixty-one, commanded by Colonel Fritz Anneke. On the 17th of February, 1863, the Twenty-fifth regiment left "Camp Randall" for Cairo, Illinois. The Thirtieth regiment remained in Wisconsin during the whole of 1863, performing various duties—the only one of the whole thirty-four that, at the end of that year, had not left the State.

On the 14th of January, 1863, the legislature of Wisconsin, as before stated, convened at Madison. Governor Salomon, in his message to that body, gave a summary of the transactions of the war fund during the calendar year; also of what was done in 1862, in the recruiting of military forces, and the manner in which the calls of the president were responded to. There were a number of military laws passed at this session. A multitude of special acts authorizing towns to raise bounties for volunteers, were also passed.

No additional regiments of infantry besides those already mentioned were organized in 1863, although recruiting for old regiments continued. On the 3d of March, 1863, the congress of the United States passed the "Conscription Act." Under this act, Wisconsin was divided

into six districts. In the first district, I. M. Bean was appointed provost marshal; C. M. Baker, commissioner; and J. B. Dousman, examining surgeon. Headquarters of this district was at Milwaukee. In the second district, S. J. M. Putnam was appointed provost marshal; L. B. Caswell, commissioner; and Dr. C. R. Head, examining surgeon. Headquarters of this district was at Janesville. In the third district, J. G. Clark was appointed provost marshal; E. E. Byant, commissioner; and John H. Vivian, examining surgeon. Headquarters at Prairie du Chien. In the fourth district, E. L. Phillips was appointed provost marshal; Charles Burchard, commissioner; and L. H. Cary, examining surgeon. Headquarters at Fond du Lac. In the fifth district, C. R. Merrill was appointed provost marshal; William A. Bugh, commissioner; and H. O. Crane, examining surgeon. Headquarters at Green Bay. In the sixth district, B. F. Cooper was appointed provost marshal; L. S. Fisher, commissioner; and D. D. Cameron, examining surgeon. Headquarters at LaCrosse. The task of enrolling the State was commenced in the month of May, and was proceeded with to its completion. The nine months' term of service of the Thirty-fourth regiment, drafted militia, having expired, the regiment was mustered out of service on the 8th of September.

The enrollment in Wisconsin of all persons liable to the "Conscription" amounted to 121,202. A draft was ordered to take place in November. Nearly fifteen thousand were drafted, only six hundred and twenty-eight of whom were mustered in; the residue either furnished substitutes, were discharged, failed to report, or paid commutation.

In the Summer of 1861, Company "K," Captain Langworthy, of the Second Wisconsin infantry, was detached and placed on duty as heavy artillery. His company was designated as "A," First Regiment Heavy Artillery. This was the only one organized until the Summer of 1863; but its organization was effected outside the State. Three companies were necessary to add to company "A" to complete the battalion. Batteries "B," "C" and "D" were, therefore, organized in Wisconsin, all leaving the State in October and November, 1863.

NINTH ADMINISTRATION—JAMES T. LEWIS, GOVERNOR—1864-1865.

James T. Lewis, of Columbia county, was inaugurated governor of Wisconsin on the fourth of January, 1864. In an inaugural address, the incoming governor pledged himself to use no executive patronage for a re-election; declared he would administer the government without prejudice or partiality; and committed himself to an economical administration of affairs connected with the State. On the thirteenth the legislature met in its seventeenth regular session. W. W. Field was elected speaker of the assembly. The republican and union men were in the majority in this legislature. A number of acts were passed relative to military matters.

On the 1st day of October, J. L. Pickard having resigned as superintendent of public instruction, J. G. McMynn was, by the governor, appointed to fill the vacancy. On the fifteenth of November, Governor Lewis appointed Jason Downer an associate justice of the supreme court, to fill a vacancy caused by the resignation of Judge Eyrone Paine, who had resigned his position to take effect on that day, in order to accept the position of lieutenant colonel of one of the regiments of Wisconsin, to which he had been commissioned on the tenth of August previous. The November elections of this year were entered into with great zeal by the two parties, owing to the fact that a president and vice president of the United States were to be chosen. The republicans were victorious. Electors of that party cast their eight votes for Lincoln and Johnson. The members elected to the thirty-ninth congress from Wisconsin at this election were: from the first district, H. E. Paine; from the second, I. C. Sloan; from the third, Amasa Cobb; from the fourth, C. A. Eldredge; from the fifth, Philetus Sawyer; and

from the sixth district, W. D. McIndoe. All were republicans except Eldredge, who was elected as a democrat.

The Eighteenth regular session of the Wisconsin legislature began in Madison on the eleventh of January, 1865. W. W. Field was elected speaker of the assembly. The legislature was, as to its political complexion, "Republican Union." On the tenth of April, the last day of the session, Governor Lewis informed the legislature that General Lee and his army had surrendered. "Four years ago," said he, "on the day fixed for adjournment, the sad news of the fall of Fort Sumter was transmitted to the legislature. To-day, thank God! and next to Him the brave officers and soldiers of our army and navy, I am permitted to transmit to you the official intelligence, just received, of the surrender of General Lee and his army, the last prop of the rebellion. Let us rejoice, and thank the Ruler of the Universe for victory and the prospects of an honorable peace." In February preceding, both houses ratified the constitutional amendment abolishing slavery in the United States. At the Spring election, Jason Downer was chosen associate justice of the supreme court for a full term of six years. The twentieth of April was set apart by the governor as a day of thanksgiving for the overthrow of the rebellion and restoration of peace. At the Fall election both parties, republican and democratic, had tickets in the field. The republicans were victorious, electing Lucius Fairchild, governor; Wyman Spooner, lieutenant governor; Thomas S. Allen, secretary of state; William E. Smith, state treasurer; Charles R. Gill, attorney general; John G. McMynn, superintendent of public instruction; J. M. Rusk, bank comptroller; and Henry Cordier, state prison commissioner.

WAR OF SECESSION—LEWIS' ADMINISTRATION.

The military officers for 1864 were besides the governor (who was commander-in-chief) Brigadier General Augustus Gaylord, adjutant general; Colonel S. Nye Gibbs, assistant adjutant general; Brigadier General Nathaniel F. Lund, quartermaster and commissary general, and chief of ordnance; Brigadier General E. B. Wolcott, surgeon general; and Colonel Frank H. Firmin, military secretary. The legislature met at Madison on the 13th of January, 1864. "In response to the call of the General Government," said the governor, in his message to that body, "Wisconsin had sent to the field on the first day of November last, exclusive of three months' men, thirty-four regiments of infantry, three regiments and one company of cavalry, twelve batteries of light artillery, three batteries of heavy artillery, and one company of sharpshooters, making an aggregate of forty-one thousand seven hundred and seventy-five men."

Quite a number of laws were passed at this session of the legislature relative to military matters: three were acts to authorize towns, cities and villages to raise money by tax for the payment of bounties to volunteers; one revised, amended and consolidated all laws relative to extra pay to Wisconsin soldiers in the service of the United States; one provided for the proper reception by the State, of Wisconsin volunteers returning from the field of service; another repealed the law relative to allotment commissioners. One was passed authorizing the governor to purchase flags for regiments or batteries whose flags were lost or destroyed in the service; another was passed amending the law suspending the sale of lands mortgaged to the State or held by volunteers, so as to apply to drafted men; another provided for levying a State tax of \$200,000 for the support of families of volunteers. A law was passed authorizing the governor to take care of the sick and wounded soldiers of Wisconsin, and appropriated ten thousand dollars for that purpose. Two other acts authorized the borrowing of money for repelling invasion, suppressing insurrection, and defending the State in time of war. One act prohibited the taking of fees for procuring volunteers' extra bounty; another one defined the residence of certain soldiers from this State in the service of the United States, who had received

local bounties from towns other than their proper places of residence.

At the commencement of 1864, there were recruiting in the State the Thirty-fifth regiment of infantry and the Thirteenth battery. The latter was mustered in on the 29th of December, 1863, and left the State for New Orleans on the 28th of January, 1864. In February, authority was given by the war department to organize the Thirty-sixth regiment of infantry. On the 27th of that month, the mustering of the Thirty-fifth was completed at "Camp Washburn" — Colonel Henry Orff — the regiment, one thousand and sixty-six strong, leaving the State on the 18th of April, 1864, for Alexandria, Louisiana. The other regiments, recruited and mustered into the service of the United States during the year 1864, were: the Thirty-sixth — Colonel Frank A. Haskell; the Thirty-seventh — Colonel Sam Harriman; the Thirty-eighth — Colonel James Bintliff; the Thirty-ninth — Colonel Edwin L. Buttrick; the Fortieth — Colonel W. Augustus Ray; the Forty-first — Lieutenant Colonel George B. Goodwin; the Forty-second — Colonel Ezra T. Sprague; the Forty-third — Colonel Amasa Cobb.

The regiments mustered into the service of the United States during the year 1865 were: the Forty-fourth — Colonel George C. Symes; the Forty-fifth — Colonel Henry F. Belitz; Forty-sixth — Colonel Frederick S. Lovell; Forty-seventh — Colonel George C. Ginty; Forty-eighth — Colonel Uri B. Pearsall; Forty-ninth — Colonel Samuel Fallows; Fiftieth — Colonel John G. Clark; Fifty-first — Colonel Leonard Martin; Fifty-second — Lieutenant Colonel Hiram J. Lewis; and Fifty-third — Lieutenant Colonel Robert T. Pugh.

All of the fifty-three regiments of infantry raised in Wisconsin during the war, sooner or later moved to the South and were engaged there in one way or other, in aiding to suppress the rebellion. Twelve of these regiments were assigned to duty in the eastern division, which constituted the territory on both sides of the Potomac and upon the seaboard from Baltimore to Savannah. These twelve regiments were: the First (three months), Second, Third, Fourth, Fifth, Sixth, Seventh, Nineteenth, Twenty-sixth, Thirty-sixth, Thirty-seventh, and Thirty-eighth. Ten regiments were assigned to the central division, including Kentucky, Tennessee, Northern Alabama, and Georgia. These ten were: the Tenth, Twenty-first, Twenty-second, Twenty-fourth, Thirtieth, Forty-third, Forty-fourth, Forty-fifth, Forty-sixth, and Forty-seventh. Added to these was the First (re-organized). Thirty-one regiments were ordered to the western division, embracing the country west and northwest of the central division. These were: the Eighth, Ninth, Eleventh, Twelfth, Thirteenth, Fourteenth, Fifteenth, Sixteenth, Seventeenth, Eighteenth, Twentieth, Twenty-third, Twenty-fifth, Twenty-seventh, Twenty-eighth, Twenty-ninth, Thirty-first, Thirty-second, Thirty-third, Thirty-fourth, Thirty-fifth, Thirty-sixth, Thirty-ninth, Fortieth, Forty-first, Forty-second, Forty-eighth, Forty-ninth, Fiftieth, Fifty-first, Fifty-second, and Fifty-third. During the war several transfers were made from one district to another. There were taken from the eastern division, the Third and Twenty-sixth, and sent to the central division; also the Fourth, which was sent to the department of the gulf. The Twelfth, Thirteenth, Fifteenth, Sixteenth, Seventeenth, Eighteenth, Twenty-fifth, Thirtieth, Thirty-first and Thirty-second were transferred from the western to the central department.

The four regiments of cavalry were assigned to the western division — the First regiment being afterward transferred to the central division. Of the thirteen batteries of light artillery, the Second, Fourth, and Eleventh, were assigned to the eastern division; the First and Third, to the central division; the Fifth, Sixth, Seventh, Eighth, Ninth, Tenth, Twelfth, and Thirteenth, to the western division. During the war, the First was transferred to the western division; while the Fifth, Sixth, Eighth, Tenth, and Twelfth, were transferred to the central division. Of the twelve batteries of the First regiment of heavy artillery — "A," "E," "F," "G," "H," "I," "K," "L," and "M," were assigned to duty in the eastern division; "B" and "C," to the central

division; and "D," to the western division. Company "G," First regiment Berdan's sharpshooters, was assigned to the eastern division.

The military officers of the State for 1865 were the same as the previous year, except that Brigadier General Lund resigned his position as quartermaster general, James M. Lynch being appointed in his place. The legislature of this year met in Madison on the 11th of January. "To the calls of the Government for troops," said Governor Lewis, in his message, "no State has responded with greater alacrity than has Wisconsin. She has sent to the field, since the commencement of the war, forty-four regiments of infantry, four regiments and one company of cavalry, one regiment of heavy artillery, thirteen batteries of light artillery, and one company of sharpshooters, making an aggregate (exclusive of hundred day men) of seventy-five thousand one hundred and thirty-three men."

Several military laws were passed at this session: one authorizing cities, towns, and villages to pay bounties to volunteers; another, incorporating the Wisconsin Soldiers' Home; two others, amending the act relative to the commencement and prosecution of civil actions against persons in the military service of the country." One was passed authorizing the payment of salaries, clerk hire, and expenses, of the offices of the adjutant general and quartermaster general from the war fund; another, amending the act authorizing commissioned officers to take acknowledgment of deeds, affidavits and depositions; another, amending the act extending the right of suffrage to soldiers in the field. One act provides for correcting and completing the records of the adjutant general's office, relative to the military history of the individual members of the several military organizations of this State; another fixes the salary of the adjutant general and the quartermaster general, and their clerks and assistants; another prohibits volunteer or substitute brokerage. One act was passed supplementary and explanatory of a previous one of the same session, authorizing towns, cities, or villages, to raise money to pay bounties to volunteers; another, amending a law of 1864, relating to the relief of soldiers' families; and another, providing for the establishment of State agencies for the relief and care of sick, wounded, and disabled Wisconsin soldiers. There was an act also passed, authorizing the borrowing of money for a period not exceeding seven months, to repel invasion, suppress insurrection, and defend the State in time of war,—the amount not to exceed \$850,000.

On the 13th of April, 1865, orders were received to discontinue recruiting in Wisconsin, and to discharge all drafted men who had not been mustered in. About the first of May, orders were issued for the muster out of all organizations whose term of service would expire on or before the first of the ensuing October. As a consequence, many Wisconsin soldiers were soon on their way home. State military officers devoted their time to the reception of returning regiments, to their payment by the United States, and to settling with those who were entitled to extra pay from the State. Finally, their employment ceased—the last soldier was mustered out—the War of the Rebellion was at an end. Wisconsin had furnished to the federal army during the conflict over ninety thousand men, a considerable number more than the several requisitions of the General Government called for. Nearly eleven thousand of these were killed or died of wounds received in battle, or fell victims to diseases contracted in the military service, to say nothing of those who died after their discharge, and whose deaths do not appear upon the military records. Nearly twelve million dollars were expended by the State authorities, and the people of the several counties and towns throughout the State, in their efforts to sustain the National Government.

Wisconsin feels, as well she may, proud of her record made in defense of national existence. Shoulder to shoulder with the other loyal states of the Union, she stood—always ranking among the foremost. From her workshops, her farms, her extensive pineries, she poured forth stalwart

men, to fill up the organizations which she sent to the field. The blood of these brave men drenched almost every battle-field from Pennsylvania to the Rio Grande, from Missouri to Georgia. To chronicle the deeds and exploits—the heroic achievements—the noble enthusiasm—of the various regiments and military organizations sent by her to do battle against the hydra-headed monster secession—would be a lengthy but pleasant task; but these stirring annals belong to the history of our whole country. Therein will be told the story which, to the latest time in the existence of this republic, will be read with wonder and astonishment. But an outline of the action of the State authorities and their labors, and of the origin of the various military organizations, in Wisconsin, to aid in the suppression of the rebellion, must needs contain a reference to other helps employed—mostly incidental, in many cases wholly charitable, but none the less effective: the sanitary operations of the State during the rebellion.

Foremost among the sanitary operations of Wisconsin during the war of the rebellion was the organization of the surgeon general's department—to the end that the troops sent to the field from the State should have a complete and adequate supply of medicine and instruments as well as an efficient medical staff. In 1861, Governor Randall introduced the practice of appointing agents to travel with the regiments to the field, who were to take charge of the sick. The practice was not continued by Governor Harvey. On the 17th of June, 1862, an act of the legislature became a law authorizing the governor to take care of the sick and wounded soldiers of Wisconsin, and appropriated twenty thousand dollars for that purpose. Under this law several expeditions were sent out of the State to look after the unfortunate sons who were suffering from disease or wounds. Soldiers' aid societies were formed throughout the State soon after the opening scenes of the rebellion. When temporary sanitary operations were no longer a necessity in Wisconsin, there followed two military benevolent institutions intended to be of a permanent character: the Soldiers' Home at Milwaukee, and the Soldiers' Orphans' Home at Madison. The latter, however, has been discontinued. The former, started as a State institution, is now wholly under the direction and support of the General Government.

Whether in the promptitude of her responses to the calls made on her by the General Government, in the courage or constancy of her soldiery in the field, or in the wisdom and efficiency with which her civil administration was conducted during the trying period covered by the war of the rebellion, Wisconsin proved herself the peer of any loyal State.

TABULAR STATEMENT.

We publish on the following pages the report of the Adjutant General at the close of the war, but before all the Wisconsin organizations had been mustered out. It shows that 85,000 brave men were ready to forsake home, friends and the comforts of peaceful avocations, and offer their lives in defense of their country's honor. Twenty-two out of every hundred either died, were killed or wounded. Thirteen out of every hundred found a soldier's grave, while only 60 per cent of them marched home at the end of the war. Monuments may crumble, cities fall into decay, the tooth of time leave its impress on all the works of man, but the memory of the gallant deeds of the army of the Union in the great war of the rebellion, in which the sons of Wisconsin bore so conspicuous a part, will live in the minds of men so long as time and civilized governments endure.



Table showing total number of Volunteers originally in the several organizations from the State, and numerical strength at the close of the war.

ORGANIZATION	GAIN BY RECRUITS.				GAIN BY DRAFT.				LOSSES DURING THE SERVICE.						
	1863.	1864.	1865.	Substitutes.	1863.	1864.	1865.		Total.	Death.	Missing.	Position.	Transfer.	Discharge.	Must Out.
First Infantry, three months.....	810							107	810	3	5	7	7	76	719
First Infantry, three years.....	945	75	65						15,308	295	57	47	47	298	871
Second Infantry, three years.....	1051	57	80						78,109	261	6	51	13	406	318
Third Infantry, three years.....	976	70	981	7	200				237,215	5	5	51	98	945	810
Fourth Infantry, three years.....	1078	210	681	25	50				204,225	285	4	105	23	405	1124
Fifth Infantry, three years.....	1108	28	171	8	75				257,215	321	7	75	23	413	1134
Sixth Infantry, three years.....	1025	71	315	12	180				218,152	391	6	44	105	473	912
Seventh Infantry, three years.....	975	52	235	62	16				301,161	255	3	60	41	320	961
Eighth Infantry, three years.....	870	109	180	13	1				219,142	175	25	7	191	739	901
Ninth Infantry, three years.....	916	20	85						133,163	219	21	22	316	455	905
Tenth Infantry, three years.....	1029	72	268	24	62				147,163	318	25	9	319	264	904
Eleventh Infantry, three years.....	1045	84	313	23	177				519,216	294	25	61	336	1166	904
Twelfth Infantry, three years.....	970	104	412	33	83				392,194	183	3	71	6	321	797
Thirteenth Infantry, three years.....	970	60	435	41	85				272,192	287	13	57	25	407	1355
Fourteenth Infantry, three years.....	801	20	71	1					306	267	22	46	47	204	320
Fifteenth Infantry, three years.....	1005	70	417	12	88				229,000	343	46	115	38	386	1262
Sixteenth Infantry, three years.....	911	77	298	10	136				257,193	224	5	157	32	418	1101
Seventeenth Infantry, three years.....	952	61	163	31	28				178,163	229	78	208	25	265	813
Eightheenth Infantry, three years.....	973	25	156	5	54				270	148	136	46	152	315	805
Nineteenth Infantry, three years.....	999	129	120	6	1				1129	227	22	41	115	222	521
Twentieth Infantry, three years.....	1002	2	152	15					1171	288	40	95	261	483	906
Twenty-first Infantry, three years.....	1000			4	139				1505	326	35	33	169	1006	906
Twenty-second Infantry, three years.....	954	1	118						1117	283	1	6	121	281	416
Twenty-third Infantry, three years.....	1066			4					1677	175	17	71	158	259	406
Twenty-fourth Infantry, three years.....	1018	20	282	16	6				1141	422	20	20	63	165	722
Twenty-fifth Infantry, three years.....	1032			2					1131	351	31	125	252	417	902
Twenty-sixth Infantry, three years.....	865	21	250	69	3				1089	216	4	56	51	218	585
Twenty-seventh Infantry, three years.....	961	2	125	17	32				1137	251	31	81	221	673	902
Twenty-eighth Infantry, three years.....	961	6	114	11					1089	296	39	103	184	467	902
Twenty-ninth Infantry, three years.....	996	69	290	23	1				1219	470	52	52	16	340	742
Thirtieth Infantry, three years.....	878	8	188	4					1078	114	2	52	33	167	710
Thirty-first Infantry, three years.....	992	6	370	5					1171	275	58	27	189	925	902
Thirty-second Infantry, three years.....	892			8					1069	136	4	22	57	170	637
Thirty-third Infantry, three years.....	901								301	20	28	28	186	472	901
Thirty-fourth Infantry, three months.....	1006								1688	256	29	11	177	3	906
Thirty-fifth Infantry, three years.....	900								1011	296	21	38	214	415	900
Thirty-sixth Infantry, three years.....	768								1141	211	29	29	156	680	900
Thirty-seventh Inf., one, two & three.....	943								1062	108	55	21	208	640	900
Thirty-eighth Inf., one, two & three.....	780								780	108	55	21	208	640	900
Thirty-ninth Inf., one hundred days.....	776								776	108	55	21	208	640	900
Forty-first Inf., one hundred days.....	578								578	108	55	21	208	640	900
Forty-second Infantry, one year.....	877								1068	57	18	14	138	646	877
Forty-third Infantry, one year.....	897								915	70	46	1	39	763	897
Forty-fourth Infantry, one year.....	877								1111	57	48	12	92	736	877
Forty-fifth Infantry, one year.....	859								1001	26	8	8	8	80	859

No Report.

TENTH ADMINISTRATION.—LUCIUS FAIRCHILD, GOVERNOR—1866-1867.

The inauguration of the newly elected State officers took place on Monday, January 1, 1866. The legislature, in its nineteenth regular session, convened on the tenth. H. D. Barron was elected speaker of the assembly. The "Union" and "Republican" members were in a majority in both branches of the legislature. "Our first duty," said Governor Fairchild in his message, "is to give thanks to Almighty God for all His mercies during the year that is past." "The people of no nation on earth," he continued, "have greater cause to be thankful than have our people. The enemies of the country have been overthrown in battle. The war has settled finally great questions at issue between ourselves." Among the joint resolutions passed at this session was one submitting the question of a constitutional convention to frame a new constitution for the State, to the people. The legislature adjourned on the twelfth of April, having been in session ninety-three days. At the general election in November of this year, there were elected to the Fortieth congress: H. E. Paine, from the first district; B. F. Hopkins, from the second; Amasa Cobb, from the third; C. A. Eldredge, from the fourth; Philletus Sawyer, from the fifth, and C. C. Washburn, from the sixth district. All were republicans except Eldredge, who was elected as a democrat. The proposition for a constitutional convention was voted upon by the people at this election, but was defeated.

The twentieth session of the legislature commenced on the ninth of January, 1867. Angus Cameron was elected speaker of the assembly. The legislature was strongly "Republican-Union." The message of Governor Fairchild was read by him in person, on the tenth. On the twenty-third, the two houses, in joint convention, elected Timothy O. Howe United States senator for the term of six years, commencing on the fourth of March next ensuing. This legislature passed an act submitting to the people at the next Fall election an amendment to section twenty-one of article four of the constitution of the State, providing for paying a salary of three hundred and fifty dollars to each member of the legislature, instead of a *per diem* allowance, as previously given. A *sine die* adjournment took place on the eleventh of April, after a service of ninety-three days.

To provide for the more efficient collection of license fees due the State, an act, approved on the day of adjournment, authorized the governor to appoint an agent of the treasury, to superintend and enforce the collection of fees due for licenses fixed by law. This law is still in force, the agent holding his office at the pleasure of the executive of the State.

On the 27th of March, Chief Justice Dixon resigned his office but was immediately appointed by the governor to the same position. At the election in April following, associate Justice Cole was re-elected, without opposition, for six years from the first Monday in January following. On the 16th of August, Associate Justice Downer having resigned, Byron Paine was appointed by the governor in his place.

The republican State ticket, in the Fall, was elected over the democratic—resulting in the choice of Lucius Fairchild for governor; Wyman Spooner, for lieutenant governor; Thomas S. Allen, Jr., secretary of state; William E. Smith, for state treasurer; Charles R. Gill, for attorney general; A. J. Craig, for superintendent of public instruction; Jeremiah M. Rusk, for bank comptroller, and Henry Cordier, for state prison commissioner. Except Craig, all these officers were the former incumbents. The amendment to section 21 of article 4 of the constitution of the State, giving the members a salary instead of a *per diem* allowance, was adopted at this election. As it now stands, each member of the legislature receives, for his services, three hundred and fifty dollars per annum, and ten cents for every mile he travels in going to and returning from the place of the meetings of the legislature, on the most

usual route. In case of any extra session of the legislature, no additional compensation shall be allowed to any member thereof, either directly or indirectly.

ELEVENTH ADMINISTRATION.—LUCIUS FAIRCHILD, GOVERNOR (SECOND TERM)—1868—1869.

The Eleventh Administration in Wisconsin commenced at noon on the 6th day of January, 1868. This was the commencement of Governor Fairchild's second term. On the eighth of January, 1868, began the twenty-first regular session of the legislature of Wisconsin. A. M. Thomson was elected speaker of the assembly. Of the laws of a general nature passed by this legislature, was one abolishing the office of bank comptroller, transferring his duties to the state treasurer, and another providing for the establishing of libraries in the various townships of the State. A visible effect was produced by the constitutional amendment allowing members a salary, in abbreviating this session, though not materially diminishing the amount of business transacted. A *sine die* adjournment took place on the sixth of March.

At the election in April, 1868, Chief Justice Dixon was chosen for the unexpired balance of his own term, ending on the first Monday of January, 1870. At the same election, Byron Paine was chosen associate justice for the unexpired balance of Associate Justice Downer's term, ending the 1st day of January, 1872.

At the Fall election in this year, republican electors were chosen over those upon the democratic ticket, for president and vice president; and, as a consequence, Grant and Colfax received the vote of Wisconsin. Of the members elected at the same time, to the forty-first congress, all but one were republicans—Eldredge being a democrat. The successful ticket was: H. E. Paine, from the first district; B. F. Hopkins, from the second; Amasa Cobb, from the third; C. A. Eldredge, from the fourth; Philetus Sawyer, from the fifth, and C. C. Washburn, from the sixth district. These were all members, from their respective districts, in the previous congress—the only instance since Wisconsin became a State of a re-election of all the incumbents.

On the thirteenth of January, 1869, began the twenty-second regular session of the State legislature. A. M. Thomson was elected speaker of the assembly. A very important duty imposed upon both houses was the election of a United States senator in the place of James K. Doolittle. The republicans having a majority in the legislature on joint ballot, the excitement among the members belonging to that party rose to a high pitch. The candidates for nomination were Matthew H. Carpenter and C. C. Washburn. The contest was, up to that time, unparalleled in Wisconsin for the amount of personal interest manifested. Both gentlemen had a large lobby influence assembled at Madison. Carpenter was successful before the republican nominating convention, on the sixth ballot. On the twenty-seventh of January, the two houses proceeded to ratify the nomination by electing him United States senator for six years, from the fourth of March following. One of the most important transactions entered into by the legislature of 1869 was the ratification of the suffrage amendment to the constitution of the United States. Both houses adjourned *sine die* on the eleventh of March—a very short session. At the spring election, on the 6th of April, Luther S. Dixon was re-elected without opposition, chief justice of the supreme court, for a term of six years, from the first Monday in January next ensuing. In the Fall, both democrats and republicans put a State ticket in the field for the ensuing election: the republicans were successful, electing Lucius Fairchild, governor; Thaddeus C. Pound, lieutenant governor; Hlywelyn Breese, secretary of state; Henry Baetz, state treasurer; S. S. Barlow, attorney general; George F. Wheeler, state prison commissioner; and A. L. Craig, superintendent of public instruction. The office of bank comptroller expired on the 31st day of December, 1869, the duties of the office being transferred to the state

treasurer.

At this election, an amendment to sections 5 and 9 of article five of the constitution of the State was ratified and adopted by the people. Under this amendment, the governor receives, during his continuance in office, an annual compensation of five thousand dollars, which is in full for all traveling or other expenses incident to his duties. The lieutenant governor receives, during his continuance in office, an annual compensation of one thousand dollars.

TWELFTH ADMINISTRATION.—LUCIUS FAIRCHILD, GOVERNOR (THIRD TERM)—1870-1871.

On the third of January, 1870, commenced the twelfth administration in Wisconsin, Governor Fairchild thus entering upon his third term as chief executive of the State; the only instance since the admission of Wisconsin into the Union, of the same person being twice re-elected to that office. It was an emphatic recognition of the value of his services in the gubernatorial chair. On the twelfth of January, the twenty-third regular session of the legislature of the State commenced at Madison. James M. Bingham was elected speaker of the assembly. Before the expiration of the month, Governor Fairchild received official information that over two hundred thousand dollars of the war claim of Wisconsin upon the General Government had been audited, considerable more than one hundred thousand having the previous year been allowed. In the month of March, an energetic effort was made in the legislature, by members from Milwaukee, to remove the seat of government from Madison to their city; but the project was defeated by a considerable majority in the assembly voting to postpone the matter indefinitely. According to section eight of article one of the constitution, as originally adopted, no person could be held to answer for a criminal offense unless on the presentment or indictment of a grand jury, except in certain cases therein specified. The legislature of 1869 proposed an amendment against the "grand jury system" of the constitution, and referred it to the legislature of 1870 for their approval or rejection. The latter took up the proposition and agreed to it by the proper majority, and submitted it to the people at the next election for their ratification. The *sine die* adjournment of both houses took place on the seventeenth of March, 1870. On the first day of January, previous, the member of congress from the second district of the State, B. F. Hopkins, died, and David Atwood, republican, was elected to fill the vacancy on the fifteenth of February following.

Early in 1870, was organized the "Wisconsin Academy of Sciences, Arts and Letters." By an act of the legislature approved March 16, of that year, it was incorporated, having among its specific objects, researches and investigations in the various departments of the material, metaphysical, ethical, ethnological and social sciences; a progressive and thorough scientific survey of the State, with a view of determining its mineral, agricultural and other resources; the advancement of the useful arts, through the application of science, and by the encouragement of original invention; the encouragement of the fine arts, by means of honors and prizes awarded to artists for original works of superior merit; the formation of scientific, economical and art museums; the encouragement of philological and historical research; the collection and preservation of historic records, and the formation of a general library; and the diffusion of knowledge by the publication of original contributions to science, literature and the arts. The academy has already published three volumes of transactions, under authority of the State.

The fourth charitable institution established by Wisconsin was the "Northern Hospital for the Insane," located at Oshkosh, Winnebago county. It was authorized by an act of the legislature approved March 10, 1870. The law governing the admission of patients to this hospital is the same as to the Wisconsin State Hospital.

On the third day of July, 1870, A. J. Craig, superintendent of public instruction, died of consumption, and Samuel Fallows was, on the 6th of that month, appointed by the governor to fill the place made vacant by his death. The census taken this year by the General Government, showed the population of Wisconsin to be over one million sixty-four thousand. At the Fall election for members to the forty-second congress, Alexander Mitchell was chosen to represent the first district; G. W. Hazelton, the second; J. A. Barber, the third; C. A. Eldredge, the fourth; Philetus Sawyer, the fifth; and J. M. Rusk, the sixth district. Mitchell and Eldredge were democrats; the residue were republicans. The amendment to section 8, of article 7 of the constitution of the State, abolishing the grand jury system was ratified by a large majority. Under it, no person shall be held to answer for a criminal offense without due process of law, and no person, for the same offense, shall be put twice in jeopardy of punishment, nor shall be compelled in any criminal case to be a witness against himself. All persons shall, before conviction, be bailable by sufficient sureties, except for capital offenses when the proof is evident and the presumption great; and the privilege of the writ of *habeas corpus* shall not be suspended unless, when in cases of rebellion or invasion, the public safety may require it.

Governor Fairchild, in his last annual message to the legislature, delivered to that body at its twenty-fourth regular session beginning on the eleventh of January, 1871, said that Wisconsin State polity was so wisely adapted to the needs of the people, and so favorable to the growth and prosperity of the commonwealth, as to require but few changes at the hands of the legislature, and those rather of detail than of system. At the commencement of this session, William F. Smith was elected speaker of the assembly. A very carefully-perfected measure of this legislature was one providing for the trial of criminal offenses on information, without the intervention of a Grand Jury. A state commissioner of immigration, to be elected by the people, was provided for. Both bodies adjourned *sine die* on the twenty-fifth of March. On the thirteenth of January preceding, Associate Justice Byron Paine, of the supreme court, died; whereupon the governor, on the 20th of the same month, appointed in his place, until the Spring election should be held, William Penn Lyon. The latter, at the election in April, was chosen by the people to serve the unexpired time of Associate Justice Paine, ending the first Monday of January, 1872, and for a full term of six years from the same date. On the 3d of April, Ole C. Johnson was appointed by the governor state commissioner of immigration, to serve until his successor at the next general election could be chosen by the people. To the end that the administration of public charity and correction should thereafter be conducted upon sound principles of economy, justice and humanity, and that the relations existing between the State and its dependent and criminal classes might be better understood, there was, by an act of the legislature, approved March 23, 1871, a "state board of charities and reform" created—to consist of five members to be appointed by the governor of the State, the duties of the members being to investigate and supervise the whole system of charitable and correctional institutions supported by the State or receiving aid from the State treasury, and on or before the first day of December in each year to report their proceedings to the executive of the State. This board was thereafter duly organized and its members have since reported annually to the governor their proceedings and the amount of their expenses, as required by law.

The "Wisconsin State Horticultural Society," although previously organized, first under the name of the "Wisconsin Fruit Growers' Association," was not incorporated until the 24th of March, 1871—the object of the society being to improve the condition of horticulture, rural adornment and landscape gardening. By a law of 1868, provision was made for the publication of the society's transactions in connection with the State agricultural society; but by the act

of 1871, this law was repealed and an appropriation made for their yearly publication in separate form; resulting in the issuing, up to the present time, of seven volumes. The society holds annual meetings at Madison.

At the November election both republicans and democrats had a full ticket for the suffrages of the people. The republicans were successful, electing for governor, C. C. Washburn; M. H. Pettitt, for lieutenant governor; Llywelyn Breese, for secretary of state; Henry Baetz, for state treasurer; Samuel Fallows, for superintendent of public instruction; S. S. Barlow, for attorney general; G. F. Wheeler, for state prison commissioner; and O. C. Johnson, for state commissioner of immigration. At this election an amendment to article four of the constitution of the State was ratified and adopted by the people. As it now stands, the legislature is prohibited from enacting any special or private laws in the following cases: 1st. For changing the names of persons or constituting one person the heir-at-law of another. 2d. For laying out, opening, or altering highways, except in cases of State roads extending into more than one county, and military roads to aid in the construction of which lands may be granted by congress. 3d. For authorizing persons to keep ferries across streams, at points wholly within this State. 4th. For authorizing the sale or mortgage of real or personal property of minors or others under disability. 5th. For locating or changing any county seat. 6th. For assessment or collection of taxes or for extending the time for the collection thereof. 7th. For granting corporate powers or privileges, except to cities. 8th. For authorizing the apportionment of any part of the school fund. 9th. For incorporating any town or village, or to amend the charter thereof. The legislature shall provide general laws for the transaction of any business that may be prohibited in the foregoing cases, and all such laws shall be uniform in their operation throughout the State.

Industrially considered, the year 1871 had but little to distinguish it from the average of previous years in the State, except that the late frosts of Spring and the drouth of Summer diminished somewhat the yield of certain crops. With the exception of slight showers of only an hour or two's duration, in the month of September, no rain fell in Wisconsin from the eighth of July to the ninth of October—a period of three months. The consequence was a most calamitous event which will render the year 1871 memorable in the history of the State.

The great drouth of the Summer and Fall dried up the streams and swamps in Northern Wisconsin. In the forests, the fallen leaves and underbrush which covered the ground became very ignitable. The ground itself, especially in cases of alluvia! or bottom lands, was so dry and parched as to burn readily to the depth of a foot or more. For many days preceding the commencement of the second week in October fires swept through the timbered country, and in some instances over prairies and "openings." Farmers, saw-mill owners, railroad men and all others interested in exposed property, labored day and night in contending against the advance of devouring fires, which were destroying, notwithstanding the ceaseless energies of the people, an occasional mill or house and sweeping off, here and there, fences, haystacks and barns. Over the counties lying upon Green Bay and a portion of those contiguous thereto on the south, southwest and west, hung a general gloom. No rain came. All energies were exhausted from "fighting fire." The atmosphere was every where permeated with smoke. The waters of the bay and even Lake Michigan, in places, were so enveloped as to render navigation difficult and in some instances dangerous. It finally became very difficult to travel upon highways and on railroads. Time drew on—but there came no rain. The ground in very many places was burned over. Persons sought refuge—some in excavations in the earth, others in wells.

The counties of Oconto, Brown, Kewaunee, Door, Manitowoc, Outagamie and Shawano were all more or less swept by this besom of destruction; but in Oconto county, and for some distance into Menomonee county, Michigan, across the Menomonee river, on the west shore of

the bay and throughout the whole length and breadth of the peninsula,—that is, the territory lying between the bay and Lake Michigan,—the fires were the most devastating. The first week in October passed; then came an actual whirlwind of fire—ten or more miles in width and of indefinite length. The manner of its progress was extraordinary. It destroyed a vast amount of property and many lives. It has been described as a tempestuous sea of flame, accompanied by a most violent hurricane, which multiplied the force of the destructive element. Forests, farm improvements and entire villages were consumed. Men, women and children perished—awfully perished. Even those who fled and sought refuge from the fire in cleared fields, in swamps, lakes and rivers, found, many of them, no safety there, but were burned to death or died of suffocation.

This dreadful and consuming fire was heralded by a sound likened to that of a railroad train—to the roar of a waterfall—to the noise of a battle at a distance. Not human beings only, but horses, oxen, cows, dogs, swine—every thing that had life—ran to escape the impending destruction. The smoke was suffocating and blinding; the roar of the tempest deafening; the atmosphere scorching. Children were separated from their parents, and trampled upon by crazed beasts. Husbands and wives rushed in wild dismay, they knew not where. Death rode triumphantly upon that devastating, fiery flood. More than one thousand men, women and children perished. More than three thousand were rendered destitute—utterly beggared. Mothers were left with fatherless children; fathers with motherless children. Every where were homeless orphans. All around lay suffering, helpless humanity, burned and maimed. Such was the sickening spectacle after the impetuous and irresistible wave of fire swept over that portion of the State. This appalling calamity happened on the 8th and 9th of October. The loss of property has been estimated at four million dollars.

At the tidings of this fearful visitation, Governor Fairchild hastened to the burnt district, to assist, as much as was in his power, the distressed sufferers. He issued, on the 13th of the month, a stirring appeal to the citizens of Wisconsin, for aid. It was promptly responded to from all portions of the State outside the devastated region. Liberal contributions in money, clothing and provisions were sent—some from other States, and even from foreign countries. Northwestern Wisconsin also suffered severely, during these months of drouth, from large fires.

A compilation of the public statutes of Wisconsin was prepared during the year 1871, by David Taylor, and published in two volumes, generally known as the Revised Statutes of 1871. It was wholly a private undertaking; but the legislature authorized the secretary of state to purchase five hundred copies for the use of the State, at its regular session in 1872.

THIRTEENTH ADMINISTRATION.—C. C. WASHBURN, GOVERNOR—1872-1873.

The thirteenth gubernatorial administration in Wisconsin commenced on Monday, January 1, 1872. The only changes made, in the present administration from the previous one, were in the offices of governor and lieutenant governor.

The twenty-fifth regular session of the legislature began on the 10th of January, with a republican majority in both houses. Daniel Hall was elected speaker of the assembly. The next day the governor delivered to a joint convention of the legislature his first annual message—a lengthy document, setting forth in detail the general condition of State affairs. The recent great conflagrations were referred to, and relief suggested. The work of this session of the Legislature was peculiarly difficult, owing to the many general laws which the last constitutional amendment made necessary. The apportionment of the State into new congressional districts was another perplexing and onerous task. Eight districts were formed instead of six, as at the commencement of the last decade. By this, the fourth congressional apportionment, each district

elects one member. The first district consists of the counties of Rock, Racine, Kenosha, Walworth, and Waukesha; the second, of Jefferson, Dane, Sauk, and Columbia; the third, of Grant, Iowa, LaFayette, Green, Richland, and Crawford; the fourth, of Milwaukee, Ozaukee, and Washington; the fifth, of Dodge, Fond du Lac, Sheboygan and Manitowoc; the sixth, of Green Lake, Waushara, Waupaca. Outagamie, Winnebago, Calumet, Brown, Kewaunee and Door; the seventh, of Vernon, La Crosse, Monroe, Jackson, Trempealeau, Buffalo, Pepin, Pierce, St. Croix, Eau Claire, and Clark; the eighth, of Oconto, Shawano, Portage, Wood, Juneau, Adams, Marquette, Marathon, Dunn, Chippewa, Barron, Polk, Burnett, Bayfield, Douglas, and Ashland. To this district have since been added the new counties of Lincoln and Taylor.

After a session of seventy-seven days, the legislature finished its work, adjourning on the twenty-seventh of March. At the ensuing November election, the republican ticket for president and vice president of the United States was successful. The ten electors chosen cast their votes in the electoral college for Grant and Wilson. In the eight congressional districts, six republicans and two democrats were elected to the forty-third congress; the last mentioned from the fourth and fifth districts. C. G. Williams represented the first district; G. W. Hazelton the second; J. Allen Barber the third; Alexander Mitchell the fourth; C. A. Eldredge the fifth; Philetus Sawyer the sixth; J. M. Rusk the seventh; and A. G. McDill the eighth district.

Throughout Wisconsin, as in all portions of the Union outside the State, a singular pestilence prevailed among horses in the months of November and December, 1872, very few escaping. Horses kept in warm, well ventilated stables, avoiding currents of air, with little or no medicine, and fed upon nutritious and laxative food, soon recovered. Although but few died, yet the loss to the State was considerable, especially in villages and cities, resulting from the difficulty to substitute other animals in the place of the horse during the continuance of the disease.

The twenty-sixth regular session of the State legislature commenced on the eighth day of January, 1873, with a republican majority in both houses. Henry D. Barron was elected speaker of the assembly. On the ninth, Governor Washburn's message—his second annual one—was delivered to the two houses. It opened with a brief reference to the abundant returns from agricultural pursuits, to the developments of the industries of the state, to the advance in manufacturing, to the rapid extension in railways, and to the general and satisfactory progress in education, throughout Wisconsin. He followed with several recommendations—claiming that "many vast and overshadowing corporations in the United States are justly a source of alarm," and that "the legislature can not scan too closely every measure that should come before it which proposed to give additional rights and privileges to the railways of the state." He also recommended that the "granting of passes to the class of state officials who, through their public office, have power to confer or withhold benefits to a railroad company, be prohibited." The message was favorably commented upon by the press of the state, of all parties. "If Governor Washburn," says one of the opposition papers of his administration, "is not a great statesman, he is certainly not a small politician." One of the first measures of this legislature was the election of United States senator, to fill the place of Timothy O. Howe, whose term of office would expire on the fourth of March next ensuing. On the twenty-second of January the two houses met in joint convention, when it was announced that by the previous action of the senate and assembly, Timothy O. Howe was again elected to that office for the term of six years. On the twentieth of March, the legislature adjourned *sine die*, after a session of seventy-two days.

Milton H. Pettitt, the lieutenant governor, died on the 23d day of March following the adjournment. By this sudden and unexpected death, the State lost an upright and conscientious public officer.

Among the important acts passed by this legislature was one providing for a geological survey of the State, to be begun in Ashland and Douglas counties, and completed within four years, by a chief geologist and four assistants, to be appointed by the governor, appropriating for the work an annual payment of thirteen thousand dollars. An act providing for a geological survey, of the State, passed by the legislature, and approved March 25, 1853, authorized the governor to appoint a state geologist, who was to select a suitable person as assistant geologist. Their duties were to make a geological and mineralogical survey of the State. Under this law Edward Daniels, on the first day of April, 1853, was appointed state geologist, superseded on the 12th day of August, 1854, by James G. Percival, who died in office on the 2d of May, 1856, at Hazel Green. By an act approved March 3, 1857, James Hall, Ezra Carr and Edward Daniels were appointed by the legislature geological commissioners. By an act approved April 2, 1860, Hall was made principal of the commission. The survey was interrupted by a repeal, March 21, 1862, of previous laws promoting it. However, to complete the survey, the matter was reinstated by the act of this legislature, approved March 29, the governor, under that act, appointing as chief geologist Increase A. Lapham, April 10, 1873.

Another act changed the management of the state prison — providing for the appointment by the governor of three directors; one for two years, one for four years, and one for six years, in place of a state prison commissioner, who had been elected by the people every two years, along with other officers of the State.

At the Spring election, Orsamus Cole, who had been eighteen years upon the bench, was re-elected, without opposition, an associate justice of the supreme court, for a term of six years from the first Monday in January following. The two tickets in the field at the Fall election were the republican and the people's reform. The latter was successful; the political scepter passing out of the hands of the republicans, after a supremacy in the State continuing unbroken since the beginning of the seventh administration, when A. W. Randall (governor for a second term) and the residue of the State officers were elected — all republicans.

The general success among the cultivators of the soil throughout the state during the year, notwithstanding "the crisis," was marked and satisfactory; but the financial disturbances during the latter part of the Fall and the first part of the Winter, resulted in a general depreciation of prices.

FOURTEENTH ADMINISTRATION. — WILLIAM R. TAYLOR, GOVERNOR — 1874-75.

The fourteenth administration of Wisconsin commenced at noon on Monday, the fifth day of January, 1874, by the inauguration of William R. Taylor as governor; Charles D. Parker, lieutenant governor; Peter Doyle, secretary of state; Ferdinand Kuehn, state treasurer; A. Scott Sloan, attorney general; Edward Searing, superintendent of public instruction; and Martin J. Argard, state commissioner of immigration. These officers were not elected by any distinctive political party as such, but as the representatives of a new political organization, including "all Democrats, Liberal Republicans, and other electors of Wisconsin, friendly to genuine reform through equal and impartial legislation, honesty in office, and rigid economy in the administration of affairs." Among the marked characteristics of the platform agreed upon by the convention nominating the above-mentioned ticket was a declaration by the members that they would "vote for no candidate for office whose nomination is the fruit of his own importunity, or of a corrupt combination among partisan leaders;" another, "that the sovereignty of the State over corporations of its own creation shall be sacredly respected, to the full extent of protecting the people against every form of monopoly or extortion," not denying, however, an encouragement to wholesome enterprise on the part of aggre-

gated capital—this “plank” having special reference to a long series of alleged grievances assumed to have been endured by the people on account of discriminations in railroad charges and a consequent burdensome taxation upon labor—especially upon the agricultural industry of the State.

The twenty-seventh regular session of the Wisconsin legislature commenced at Madison on the fourteenth of January. The two houses were politically antagonistic in their majorities; the senate was republican, while the assembly had a “reform” majority. In the latter branch, Gabriel Bouck was elected speaker. Governor Taylor, on the fifteenth, met the legislature in joint convention and delivered his message. “An era,” said he, “of apparent prosperity without parallel in the previous history of the nation, has been succeeded by financial reverses affecting all classes of industry, and largely modifying the standard of values.” “Accompanying these financial disturbances,” added the governor, “has come an imperative demand from the people for a purer political morality, a more equitable apportionment of the burdens and blessings of government, and a more rigid economy in the administration of public affairs.”

Among the important acts passed by this legislature was one generally known as the “Potter Law,” from the circumstance of the bill being introduced by Robert I. D. Potter, senator, representing the twenty-fifth senatorial district of the state. The railroad companies for a number of years had, as before intimated, been complained of by the people, who charged them with unjust discriminations and exorbitantly high rates for the transportation of passengers and merchandize. All the railroad charters were granted by acts at different times of the State legislature, under the constitution which declares that “corporations may be formed under general laws, but shall not be created by a special act, except for municipal purposes and in cases where, in the judgment of the legislature, the objects of the corporations can not be attained under general laws. All general laws, or special acts, enacted under the provisions of this section, may be altered or repealed by the legislature at any time after their passage.” The complaints of the people seem to have remained unheeded, resulting in the passage of the “Potter Law.” This law limited the compensation for the transportation of passengers, classified freight, and regulated prices for its transportation within the State. It also required the governor on or before the first of May, 1874, by and with the consent of the senate, to appoint three railroad commissioners; one for one year, one for two years, and one for three years, whose terms of office should commence on the fourteenth day of May, and that the governor, thereafter, on the first day of May, of each year, should appoint one commissioner for three years. Under this law, the governor appointed J. H. Osborn, for three years; George H. Paul, for two years; and J. W. Hoyt, for one year. Under executive direction, this commission inaugurated its labors by compiling, classifying, and putting into convenient form for public use for the first time, all the railroad legislation of the State.

At the outset the two chief railroad corporations of the State—the Chicago, Milwaukee and St. Paul, and the Chicago and Northwestern—served formal notice upon the governor of Wisconsin that they would not respect the provisions of the new railroad law. Under his oath of office, to support the constitution of the State, it was the duty of Governor Taylor to expedite all such measures as should be resolved upon by the legislature, and to take care that the laws be faithfully executed. No alternative, therefore, was left the chief executive but to enforce the law by all the means placed in his hands for that purpose. He promptly responded to the notification of the railroad companies by a proclamation, dated May 1, 1874, in which he enjoined compliance with the statute, declaring that all the functions of his office would be exercised in faithfully executing the laws, and invoking the aid of all good citizens thereto. “The law of the land,” said Governor Taylor, “must be respected and obeyed.” “While none,” continued he,

"are so weak as to be without its protection, none are so strong as to be above its restraints. If provisions of the law be deemed oppressive, resistance to its mandates will not abate, but rather multiply the anticipated evils." "It is the right," he added, "of all to test its validity through the constituted channels, but with that right is coupled the duty of yielding a general obedience to its requirements until it has been pronounced invalid by competent authority."

The railroad companies claimed not merely the unconstitutionality of the law, but that its enforcement would bankrupt the companies and suspend the operation of their lines. The governor, in reply, pleaded the inviolability of his oath of office and his pledged faith to the people. The result was an appeal to the courts, in which the State, under the direction of its governor, was compelled to confront an array of the most formidable legal talent of the country. Upon the result in Wisconsin depended the vitality of much similar legislation in neighboring States, and Governor Taylor and his associate representatives of State authority were thus compelled to bear the brunt of a controversy of national extent and consequence. The contention extended both to State and United States courts, the main question involved being the constitutional power of the State over corporations of its own creation. In all respects, the State was fully sustained in its position, and, ultimately, judgments were rendered against the corporations in all the State and federal courts, including the supreme court of the United States, and establishing finally the complete and absolute power of the people, through the legislature, to modify or altogether repeal the charters of corporations.

Another act of the session of 1874 abolished the office of State commissioner of immigration, "on and after" the first Monday of January, 1876. The legislature adjourned on the twelfth of March, 1874, after a session of fifty-eight days.

The office of state prison commissioner having, by operation of law, become vacant on the fifth day of January, 1874, the governor, on the twenty-third of that month, appointed for State prison directors, Joel Rich, for two years; William E. Smith, for four years; and Nelson Dewey, for six years: these to take the place of that officer.

On the sixteenth of June, Chief Justice Dixon, whose term of office would have expired on the first Monday in January, 1876, resigned his seat upon the bench of the supreme court, Governor Taylor appointing Edward G. Ryan in his place until his successor should be elected and qualified. At the November election of this year, the members chosen to the forty-fourth congress were—Charles G. Williams, from the first district; Lucian B. Caswell, from the second; Henry S. Magoon, from the third; William Pitt Lynde, from the fourth; Samuel D. Burchard, from the fifth; A. M. Kimball, from the sixth; Jeremiah M. Rusk, from the seventh, and George W. Cate, from the eighth district. Lynde, Burchard and Cate were "reform;" the residue were republican.

At the same election, an amendment to section 3 of article 11 of the constitution of the State was duly ratified and adopted by the people. Under this section, as it now stands, it is the duty of the legislature, and they are by it empowered, to provide for the organization of cities and incorporated villages, and to restrict their power of taxation, assessment, borrowing money, contracting debts, and loaning their credit, so as to prevent abuses in assessments and taxation, and in contracting debts, by such municipal corporations. No county, city, town, village, school district, or other municipal corporation, shall be allowed to become indebted in any manner, or for any purpose, to an amount, including existing indebtedness in the aggregate, exceeding five per centum on the value of the taxable property therein, to be ascertained by the last assessment for State and county taxes previous to the incurring of such indebtedness. Any county, city, town, village, school district, or other municipal corporation, incurring any indebtedness as aforesaid, shall, before, or at the time of doing so, provide for the collection of a direct

annual tax sufficient to pay the interest on such debt as it falls due, and also to pay and discharge the principal thereof within twenty years from the time of contracting the same.

In 1872, the first appropriation for fish culture in Wisconsin was made by the legislature, subject to the direction of the United States commissioner of fisheries. In 1874, a further sum was appropriated, and the governor of the State authorized to appoint three commissioners, whose duties were, upon receiving any spawn or fish, by or through the United States commissioner of fish and fisheries, to immediately place such spawn in the care of responsible pisciculturists of the State, to be hatched and distributed in the different waters in and surrounding Wisconsin. Two more members have since been added by law to the commission; their labors have been much extended, and liberal appropriations made to further the object they have in view—with flattering prospects of their finally being able to stock the streams and lakes of the State with the best varieties of food fish.

The year 1874, in Wisconsin, was characterized as one of general prosperity among farmers, excepting the growers of wheat. The crop of that cereal was light, and, in places, entirely destroyed by the chinch-bug. As a consequence, considerable depression existed in business in the wheat-growing districts. Trade and commerce continued throughout the year at a low ebb, the direct result of the monetary crisis of 1873.

The legislature commenced its twenty-eighth regular session on the thirteenth of January, 1875, with a republican majority in both houses. F. W. Horn was elected speaker of the assembly. The governor delivered his message in person, on the fourteenth, to the two houses. "Thanking God for all His mercies," are his opening words, "I congratulate you that order and peace reign throughout the length and breadth of our State. Our material prosperity has not fulfilled our anticipations. But let us remember that we bear no burden of financial depression not common to all the States, and that the penalties of folly are the foundation of wisdom." In regard to the "Potter Law," the governor said, "It is not my opinion that this law expressed the best judgment of the legislature which enacted it. While the general principles upon which it is founded command our unqualified approbation, and can never be surrendered, it must be conceded that the law is defective in some of its details. . . . The great object sought to be accomplished by our people," continued the speaker, "is not the management of railroad property by themselves, but to prevent its mismanagement by others." Concerning the charge that Wisconsin was warring upon railways within her limits, the governor added, "She has never proposed such a war. She proposes none now. She asks only honesty, justice and the peace of mutual good will. To all men concerned, her people say in sincerity and in truth that every dollar invested in our State shall be lawfully entitled to its just protection, whencesoever the danger comes. In demanding justice for all, the State will deny justice to none. In forbidding mismanagement, the State will impose no restraints upon any management that is honest and just. In this, the moral and hereditary instincts of our people furnish a stronger bond of good faith than the judgments of courts or the obligations of paper constitutions. Honest capital may be timid and easily frightened; yet it is more certain to seek investment among a people whose laws are at all times a shield for the weak and a reliance for the strong—where the wholesome restraints of judicious legislation are felt alike by the exalted and the humble, the rich and the poor."

The first important business to be transacted by this legislature was the election of a United States senator, as the term for which M. H. Carpenter had been elected would expire on the fourth of March ensuing. Much interest was manifested in the matter, not only in the two houses, but throughout the State. There was an especial reason for this; for, although the then-

incumbent was a candidate for re-election, with a republican majority in the legislature, yet it was well known that enough members of that party were pledged, before the commencement of the session, to vote against him, to secure his defeat, should they stand firm to their pledges. The republicans met in caucus and nominated Carpenter for re-election; but the recalcitrant members held themselves aloof. Now, according to usual precedents, a nomination by the dominant party was equivalent to an election; not so, however, in this case, notwithstanding the friends of the nominee felt sanguine of his election in the end. The result of the first ballot, on the twenty-sixth of January, was, in the senate, thirteen for the republican candidate; in the assembly, forty-six votes, an aggregate of only fifty-nine. He lacked four votes in the assembly and an equal number in the senate, of having a majority in each house. On the twenty-seventh, the two houses, in joint convention, having met to compare the record of the voting the day previous, and it appearing that no one person had received a majority of the votes in each house for United States senator, they proceeded to their first joint ballot. The result was, no election. The balloting was continued each day, until the third of February, when, on the eleventh joint trial, Angus Cameron, of LaCrosse, having received sixty-eight votes, to Carpenter's fifty-nine, with five scattering, was declared elected.

As in the previous session so in this,—one of the most absorbing subjects before the legislature was that of railroads; the "Potter Law" receiving a due share of attention in both houses. The result was an amendment in some important particulars without changing the right of State control: rates were modified. The law as amended was more favorable to the railroad companies and was regarded as a compromise. The legislature adjourned *sine die* on the 6th of March. This was the shortest session ever held in the State except one of twenty-five years previous.

On the 16th of February, O. W. Wight was appointed by the governor chief geologist of Wisconsin, in place of I. A. Lapham, whose appointment had not been acted upon by the Senate. On the 24th of the same month, J. W. Hoyt was appointed railroad commissioner for three years from the first day of May following, on which day his one-year term in the same office would expire. At the regular Spring election on the 6th of April following, Edward G. Ryan was elected, without opposition, chief justice of the supreme court for the unexpired term of Chief Justice Dixon, ending the first Monday in January, 1876, and for a full term of six years from the last mentioned date; so that his present term of office will expire on the 1st Monday in January, 1882. An act providing for taking the census of Wisconsin on or before the 1st of July, 1875, was passed by the legislature and approved the 4th of March previous. It required an enumeration of all the inhabitants of the State except Indians, who were not entitled to the right of suffrage. The result of this enumeration gave a total population to Wisconsin of one million two hundred and thirty-six thousand seven hundred and twenty-nine.

At the November election, republican and "reform" tickets were in the field for State officers, resulting in the success of the latter, except as to governor. For this office Harrison Ludington was chosen by a majority, according to the State board of canvassers, over William R. Taylor, of eight hundred and forty-one. The rest of the candidates elected were: Charles D. Parker, lieutenant governor; Peter Doyle, secretary of state, Ferdinand Kuehn, treasurer of state, A. Scott Sloan, attorney general; and Edward Searing, superintendent of public instruction. The act abolishing the office of state commissioner of immigration was to take effect "on and after" the close of this administration; so, of course, no person was voted for to fill that position at the Fall election of 1875.

During this administration the principle involved in a long-pending controversy between the State and Minnesota relating to valuable harbor privileges at the head of Lake Superior, was successfully and finally settled in favor of Wisconsin. The influence of the executive was largely

instrumental in initiating a movement which resulted in securing congressional appropriations amounting to \$800,000 to the Fox and Wisconsin river improvement. A change was inaugurated in the whole system of timber agencies over State and railroad lands, by which the duties of agents were localized, and efficiency was so well established that many important trespasses were brought to light from which over \$60,000 in penalties was collected and paid into the Treasury, while as much more was subsequently realized from settlements agreed upon and proceedings instituted. By decisive action on the part of the governor an unsettled printing claim of nearly a hundred thousand dollars was met and defeated in the courts. During this period also appropriations were cut down, and the rate of taxation diminished. Governor Taylor bestowed unremitting personal attention to details of business with a view of promoting the public interests with strict economy, while his countenance and support was extended to all legitimate enterprises. He required the Wisconsin Central railroad company to give substantial assurance that it would construct a branch line from Stevens Point to Portage City as contemplated by congress, before issuing certificates for its land grants.

The closing year of the century of our national existence—1875, was one somewhat discouraging to certain branches of the agricultural interests of Wisconsin. The previous Winter had been an unusually severe one. A greater breadth of corn was planted than in any previous year in the State, but the unusually late season, followed by frosts in August and September, entirely ruined thousands of acres of that staple.

FIFTEENTH ADMINISTRATION.—HARRISON LUDINGTON, GOVERNOR—1876-1877.

The fifteenth administration of Wisconsin commenced at noon on Monday, January 3, 1876, by the inauguration of State officers—Harrison Ludington, as previously stated, having been elected upon the republican ticket, to fill the chief executive office of the State; the others, to the residue of the offices, upon the democratic reform ticket: the governor, like three of his predecessors—Farwell, Bashford, and Randall (first term)—having been chosen by a majority less than one thousand; and, like two of his predecessors—Farwell and Bashford—when all the other State officers differed with him in politics.

The twenty-ninth regular session of the legislature of Wisconsin began on the 12th of January, 1876, at Madison. The republicans were in the majority in both houses. Samuel S. Fifield was elected speaker of the assembly. On the 13th, Governor Ludington delivered in person, to a joint convention of that body, his message, communicating the condition of affairs of the State, and recommending such matters for the consideration of the legislators as were thought expedient: it was brief; its style condensed; its striking peculiarity, a manly frankness. "It is not the part of wisdom," said he, in his concluding remarks, "to disguise the fact that the people of this State, in common with those of all sections of the Union, have suffered some abatement of the prosperity that they have enjoyed in the past." "We have entered," he continued, "upon the centennial of our existence as an independent nation. It is fit that we should renew the spirit in which the Republic had its birth, and our determination that it shall endure to fulfill the great purposes of its existence, and to justify the noble sacrifices of its founders." The legislature adjourned *sine die* on the 14th of March, 1876, after a session of sixty-three days. The chief measures of the session were: The amendment of the railroad laws, maintaining salutary restrictions while modifying those features which were crippling and crushing an important interest of the State; and the apportionment of the State into senate and assembly districts. It is a provision of the constitution of the State that the number of the members of the assembly shall never be less than fifty-four, nor more than one hundred; and that the senate shall consist of a number not more than one-third nor less than one-fourth of the number of the members of the

assembly. Since the year 1862, the aggregate allotted to both houses had been one hundred and thirty-three, the maximum allowed by the constitution; one hundred in the assembly and thirty-three in the senate. The number of this representation was not diminished by the apportionment of 1876. One of the railroad laws abolished the board of railroad commissioners, conferring its duties upon a railroad commissioner to be appointed by the governor every two years. Under this law, Dana C. Lamb was appointed to that office, on the 10th of March, 1876. On the 2d day of February, previous, George W. Burchard was by the governor appointed state prison director for six years, in place of Joel Rich, whose term of office had expired. On the same day T. C. Chamberlin was appointed chief geologist of Wisconsin in place of O. W. Wight.

The application of Miss Lavinia Goodell, for admission to the bar of Wisconsin, was rejected by the supreme court of the State, at its January term, 1876. "We can not but think," said Chief Justice Ryan, in the decree of refusal, "we can not but think the common law wise in excluding women from the profession of the law." "The profession," he added, "enters largely into the well-being of society, and, to be honorably filled, and safely to society, exacts the devotion of life. The law of nature destines and qualifies the female sex for the bearing and nurture of the children of our race, and for the custody of the homes of the world, and their maintenance in love and honor. And all life-long callings of women inconsistent with these radical and social duties of their sex, as is the profession of the law, are departures from the order of Nature, and, when voluntary, are treason against it." By a law since passed, no person can be denied admission to any court in the State on account of sex; and Miss Goodell has been admitted to practice in the Supreme Court.

By an act of the legislature, approved March 13, 1876, a State board of health was established, the appointment of a superintendent of vital statistics, was provided for, and certain duties were assigned to local boards of health. The State board was organized soon after; the governor having previously appointed seven persons as its members. The object of the organization, which is supported by the State, is, to educate the people of Wisconsin into a better knowledge of the nature and causes of disease, and a better knowledge and observance of hygienic laws.

By a law passed in 1868, as amended in 1870 and 1873, the secretary of state, state treasurer, and attorney general, were constituted a State board of assessment, to meet in the city of Madison, on the third Wednesday in May, 1874, and biennially thereafter, to make an equalized valuation of the property in the State, as a guide to assessment for taxation. In the tables of equalized valuations compiled by this board in 1876, the whole amount of taxable property in Wisconsin, is set down at \$423,596,290; of which sum \$337,073,148, represents real estate and \$86,523,142 personal property.

This being the year for the election of president and vice president of the United States, the two political parties in Wisconsin—republican and democratic—had tickets in the field. At the election on Tuesday, November 7, the republican presidential electors received a majority of the votes cast in the State, securing Wisconsin for Hayes and Wheeler. The eight congressional districts elected the same day their members to the forty-fifth congress, whose terms of office would expire on the 4th of March, 1879. Charles G. Williams was elected in the first district; Lucien B. Caswell, in the second; George C. Hazelton, in the third; William P. Lynde, in the fourth; Edward S. Bragg, in the fifth; Gabriel Bouck, in the sixth; H. L. Humphrey, in the seventh; and Thad. C. Pound, in the eighth district. A majority of the delegation was republican, the representatives from the fourth, fifth and sixth districts only, being democrats.

There was a general and spontaneous exhibition of patriotic impulses throughout the length and breadth of Wisconsin, on the part of both native and foreign-born citizens, at the commencement of the centennial year, and upon the fourth of July. The interest of the people of the State generally, in the Exposition at Philadelphia, was manifested in a somewhat remarkable manner from its inception to its close. By an act of congress, approved March 3, 1871, provision was made for celebrating the one hundredth anniversary of American Independence, by holding in that city, in 1876, an exhibition of arts, manufactures, and the products of the soil and mines of the country. A centennial commission, consisting of one commissioner and one alternate commissioner, from each State and Territory, was authorized to be appointed, to carry out the provisions of the act. David Atwood, as commissioner, and E. D. Holton, as alternate, were commissioned by the president of the United States, from Wisconsin. This commission gradually made progress in preparing for an international exposition. "The commission has been organized," said Governor Washburn, in his message to the legislature in January, 1873, "and has made considerable progress in its work. The occasion will be one to which the American people can not fail to respond in the most enthusiastic manner." The president of the United States, by proclamation, in July, 1873, announced the exhibition and national celebration, and commended them to the people of the Union, and of all nations. "It seems fitting," said Governor Taylor, in his message to the Wisconsin legislature in 1874, "that such a celebration of this important event, should be held, and it is hoped it will be carried out in a manner worthy of a great and enlightened nation." By the close of 1874, a large number of foreign governments had signified their intention to participate in the exhibition.

The legislature of Wisconsin, at its session in 1875, deeming it essential that the State, with its vast resources in agricultural, mineral, lumbering, manufacturing, and other products and industries, should be fully represented at Philadelphia, passed an act which was approved March 3, 1875, to provide for a "Board of State Centennial Managers." Two thousand dollars were appropriated to pay its necessary expenses. The board was to consist of five members to be appointed by the governor; and there were added thereto, as ex-officio members, the United States centennial commissioner and his alternate. The duties of the members were to disseminate information regarding the Exhibition; to secure the co-operation of industrial, scientific, agricultural, and other associations in the State; to appoint co-operative local committees, representing the different industries of the State; to stimulate local action on all measures intended to render the exhibition successful, and a worthy representation of the industries of the country; to encourage the production of articles suitable for the Exhibition; to distribute documents issued by the centennial commission among manufacturers and others in the State; to render assistance in furthering the financial and other interests of the exhibition; to furnish information to the commission on subjects that might be referred to the board; to care for the interests of the State and of its citizens in matters relating to the exhibition; to receive and pronounce upon applications for space; to apportion the space placed at its disposal among the exhibitors from the State; and to supervise such other details relating to the representation of citizens of Wisconsin in the Exhibition, as might from time to time be delegated by the United States centennial commission.

The board was required to meet on the first Wednesday of April, 1875, at the capitol, in Madison, to organize and adopt such by-laws and regulations as might be deemed necessary for the successful prosecution of the work committed to their charge. Governor Taylor appointed Eli Stilson, J. I. Case, J. B. Parkinson, T. C. Pound, and E. A. Calkins, members of the board. Its organization was perfected, at the appointed time, by the election of J. B. Parkinson as president, and W. W. Field, secretary. The ex-officio members of the board, were David Atwood,

United States commissioner, and E. D. Holton, alternate. From this time forward, the board was untiring in its efforts to secure a full and proper representation of the varied interests of Wisconsin in the centennial exhibition of 1876. E. A. Calkins having resigned his position as member of the board, Adolph Meinecke took his place by appointment of the governor July 24, 1875. Governor Ludington, in his message to the legislature in January, 1876, spoke in commendation of the coming exhibition. "The occasion," said he, "will afford an excellent opportunity to display the resources and products of the State, and to attract hither capital and immigration."

Soon after the organization of the United States centennial commission, a national organization of the women of the country was perfected. A lady of Philadelphia was placed at its head; and a presiding officer from each State was appointed. Mrs. A. C. Thorp assumed the duties of chairman for Wisconsin, in March, 1875, appointing assistants in various parts of the State, when active work was commenced. This organization was efficient in Wisconsin in arousing an interest in the general purposes and objects of the exhibition.

By an act of the legislature, approved March 3, 1876, the sum of twenty thousand dollars was appropriated to the use of the board of centennial managers, for the purpose of arranging for, and making a proper exhibition of, the products, resources, and advantages of the State at the exposition. The treasurer of Wisconsin was, by this act, made an ex-officio member of the board. By this and previous action of the legislature—by efforts put forth by the board of managers—by individual enterprise—by the untiring labors of the "Women's Centennial Executive Committee," to whom, by an act of the legislature, approved the 4th of March, 1875, one thousand dollars were appropriated—Wisconsin was enabled to take a proud and honorable position in the Centennial Exposition—a gratification not only to the thousands of her citizens who visited Philadelphia during its continuance, but to the people generally, throughout the State.

In Wisconsin, throughout the centennial year, those engaged in the various branches of agriculture and other useful avocations, were reasonably prosperous. The crop of wheat and oats was a light yield, and of poor quality; but the corn crop was the largest ever before raised in the State, and of superior quality. The dairy and hog product was large, and commanded remunerative prices. Fruits were unusually plenty. Trade and business enterprises, however, generally remained depressed.

By section five of article seven of the constitution of Wisconsin, the counties of the State were apportioned into five judicial circuits: the county of Richland being attached to Iowa, Chippewa to Crawford, and La Pointe to St. Croix. In 1850, the fifth circuit was divided, and a sixth circuit formed. In 1864, Crawford and Richland were made part of the fifth circuit. By an act which took effect in 1854, a seventh circuit was formed. On the first day of January, 1855, the sixth circuit was divided, and an eighth and ninth circuit formed, the county of Columbia being made a part of the last mentioned one. In the same year was also formed a tenth circuit; and, in 1858, Winnebago county was attached to it; but, in 1870, that county was attached to the third circuit. In 1858, Kewaunee county was attached to the fourth circuit. An eleventh circuit was formed in 1864, from which, in 1865, Dallas county was detached, and made part of the eighth. By an act which took effect on the first day of January, 1871, the twelfth circuit was formed. In 1876, a thirteenth circuit was "constituted and re-organized."

At that time, the whole sixty counties of the State stood apportioned in the thirteen judicial circuits as follows: First circuit, Walworth, Racine, and Kenosha; second circuit, Milwaukee, and Waukesha; third circuit, Green Lake, Dodge, Washington, Ozaukee, and Winnebago; fourth circuit, Sheboygan, Calumet, Kewaunee, Fond du Lac, and Manitowoc; fifth circuit,

Grant, Iowa, La Fayette, Richland, and Crawford; sixth circuit, Clark, Jackson, Monroe, La Crosse, and Vernon; seventh circuit, Portage, Marathon, Waupaca, Wood, Waushara, Lincoln, and Taylor; eighth circuit, Dunn, Pepin, Pierce, and St. Croix; ninth circuit, Adams, Columbia, Dane, Juneau, Sauk and Marquette; tenth circuit, Outagamie, Oconto, Shawano, Door, and Brown; eleventh circuit, Ashland, Barron, Bayfield, Burnett, Chippewa, Douglas, and Polk; twelfth circuit, Rock, Green, and Jefferson; and the thirteenth circuit, Buffalo, Eau Claire, and Trempeleau, Marinette and New are now in the tenth; Price is in the seventh circuit.

The thirtieth regular session of the legislature of Wisconsin commenced, pursuant to law, on the 10th of January, 1877. The republicans had working majorities in both houses. J. B. Cassoday was elected Speaker of the Assembly. Governor Ludington delivered his message to the joint convention of the legislature the following day. "We should not seek," said he, in his concluding remarks, "to conceal from ourselves the fact that the prosperity which our people have enjoyed for a number of years past, has suffered some interruption. Agriculture has rendered less return; labor in all departments has been less productive, and trade has consequently been less active, and has realized a reduced percentage of profit." "These adverse circumstances," continued the governor, "will not be wholly a misfortune if we heed the lesson that they convey. This lesson is the necessity of strict economy in public and private affairs. We have been living upon a false basis; and the time has now come when we must return to a solid foundation." The legislature adjourned *sine die* on the 8th of March, after a session of fifty-eight days, passing three hundred and one acts—one hundred and thirteen less than at the session of 1876. The most important of these, as claimed by the dominant party which passed it, is one for the maintenance of the purity of the ballot box, known as the "Registry Law." On the 3d day of April, at the regular Spring election, William P. Lyon was re-elected, without opposition, an associate justice of the supreme court for six years from the first Monday in January, 1878, his term of office expiring on the first Monday of January, 1884.

Under a law of 1876, to provide for the revision of the statutes of the State, the justices of the supreme court were authorized to appoint three revisors. The persons receiving the appointment were David Taylor, William F. Vilas and J. P. C. Cottrill. By an amendatory law of 1877, for the purpose of having the revision completed for the session of 1878, the justices of the supreme court were authorized to appoint two additional revisors, and assign them special duties on the commission. H. S. Orton was appointed to revise the criminal law and proceedings, and J. H. Carpenter to revise the probate laws.

Governor Ludington declined being a candidate for renomination. His administration was characterized as one of practical efficiency. As the chief executive officer of Wisconsin, he kept in view the best interests of the State. In matters coming under his control, a rigid system of economy prevailed.

There were three tickets in the field presented to the electors of Wisconsin for their suffrages at the general election held on the sixth of November, 1877: republican, democratic, and the "greenback" ticket. The republicans were successful, electing William E. Smith, governor; James M. Bingham, lieutenant governor; Hans B. Warner, secretary of state; Richard Guenther, treasurer; Alexander Wilson, attorney general; and William C. Whitford, state superintendent of public instruction. At the same election two amendments to the constitution of the State were voted upon and both adopted. The first one amends section four of article seven; so that, hereafter, "the supreme court shall consist of one chief justice and four associate justices, to be elected by the qualified electors of the State. The legislature shall, at its first session after the adoption of this amendment, provide by law for the election of two associate justices of said court, to hold their offices respectively for terms ending two and four years, respectively after the

end of the term of the justice of the said court then last to expire. And thereafter the chief justices and associate justices of said court shall be elected and hold their offices respectively for the term of ten years." The second one amends section two of article eight; so that, hereafter, "no money shall be paid out of the treasury except in pursuance of an appropriation by law. No appropriation shall be made for the payment of any claim against the State, except claims of the United States, and judgments, unless filed within six years after the claim accrued."

The year 1877, in Wisconsin, was notable for excellent crops. A depression in monetary matters continued, it is true, but not without a reasonable prospect of a change for the better within the near future.

SIXTEENTH ADMINISTRATION.—WILLIAM E. SMITH, GOVERNOR—1878—1879.

At noon, on Monday, January 7, 1878, began the sixteenth administration of Wisconsin, by the inauguration of the State officers elect. On the 9th of the same month, commenced the thirty-first regular session of the Legislature. A. R. Barrows was elected Speaker of the Assembly. On the day following, Governor Smith delivered his message—a calm, business-like document—to the Legislature. Both Houses adjourned *sine die* on the 21st of March following. On the 1st day of April, Harlow S. Orton and David Taylor were elected Associate Justices of the Supreme Court; the term of the first named to expire on the first Monday of January, 1888; that of the last mentioned, on the first Monday of January, 1886. In obedience to a proclamation of the Governor, the Legislature convened on the 4th day of June, A. D. 1878, in extra session, to revise the statutes, A. R. Barrows was elected Speaker of the Assembly. The Legislature adjourned *sine die* on the 7th of the same month. In November following, the members chosen to the Forty-sixth Congress were C. G. Williams, in the First District; L. B. Caswell, in the Second; George C. Hazelton, in the Third; P. V. Deuster, in the Fourth; E. S. Bragg, in the Fifth; Gabriel Bouck, in the Sixth; H. L. Humphrey, in the Seventh; and T. C. Pound, in the Eighth. The thirty-second regular session of the Legislature commenced on the 8th day of January, 1879. D. M. Kelly was elected Speaker of the Assembly; the next day, the message of the Governor—a brief, but able State paper—was delivered to both Houses. On the 21st, Matthew H. Carpenter was elected United States Senator for six years, from the 4th of March thereafter, in place of Timothy O. Howe. The Legislature adjourned *sine die* on the 5th of March, 1879. On the 1st day of April following, Orsamus Cole was elected Associate Justice of the Supreme Court, for a term of ten years.

Wisconsin has many attractive features. It is a healthy, fertile, well-watered and well-wooded State. Every where within its borders the rights of each citizen are held sacred. Intelligence and education are prominent characteristics of its people. All the necessaries and many of the comforts and luxuries of life are easily to be obtained. Agriculture, the chief source of wealth to so many nations, is here conducted with profit and success. Generally speaking, the farmer owns the land he cultivates. Here, the laboring man, if honest and industrious, is most certain to secure a competence for himself and family. Few States have made more ample provisions for the unfortunate—the deaf and dumb, the blind, and the insane—than has Wisconsin. Nor has she been less interested in her reformatory and penal institutions. In her educational facilities, she already rivals the most advanced of her sister States. Her markets are easily reached by rail-ways and water-navigation, so that the products of the country find ready sale. Her commerce is extensive; her manufactures remunerative; her natural resources great and manifold. In morality and religion, her standard is high. Her laws are lenient, but not lax, securing the greatest good to those who are disposed to live up to their requirements. Wisconsin has, in fact, all the essential elements of prosperity and good government. Exalted and noble, therefore, must be her future career.

TOPOGRAPHY AND GEOLOGY.

By T. C. CHAMBERLIN, A. M., STATE GEOLOGIST.

The surface features of Wisconsin are simple and symmetrical in character, and present a configuration intermediate between the mountainous, on the one hand, and a monotonous level, on the other. The highest summits within the state rise a little more than 1,200 feet above its lowest surfaces. A few exceptional peaks rise from 400 to 600 feet above their bases, but abrupt elevations of more than 200 or 300 feet are not common. Viewed as a whole, the state may be regarded as occupying a swell of land lying between three notable depressions; Lake Michigan on the east, about 578 feet above the mean tide of the ocean, Lake Superior on the north, about 600 feet above the sea, and the valley of the Mississippi river, whose elevation at the Illinois state line is slightly below that of Lake Michigan. From these depressions the surface slopes upward to the summit altitudes of the state. But the rate of ascent is unequal. From Lake Michigan the surface rises by a long, gentle acclivity westward and northward. A similar slope ascends from the Mississippi valley to meet this, and their junction forms a north and south arch extending nearly the entire length of the state. From Lake Superior the surface ascends rapidly to the watershed, which it reaches within about thirty miles of the lake.

If we include the contiguous portion of the upper peninsula of Michigan, the whole elevation may be looked upon as a very low, rude, three-sided pyramid, with rounded angles. The apex is near the Michigan line, between the headwaters of the Montreal and Brule rivers. The northern side is short and abrupt. The southeastward and southwestward sides are long, and decline gently. The base of this pyramid may be considered as, in round numbers, 600 feet above the sea, and its extreme apex 1,800 feet.

Under the waters of Lake Michigan the surface of the land passes below the sea level before the limits of the state are reached. Under Lake Superior the land-surface descends to even greater depths, but probably not within the boundaries of the state. The regularity of the southward slopes is interrupted in a very interesting way by a remarkable diagonal valley occupied by Green bay and the Fox and Wisconsin rivers. This is a great groove, traversing the state obliquely, and cutting down the central elevation half its height. A line passing across the surface, from Lake Michigan to the Mississippi, at any other point, would arch upward from about 400 to 1,000 feet, according to the location, while along the trough of this valley it would reach an elevation barely exceeding 200 feet. On the northwest side of this trough, in general, the surface rises somewhat gradually, giving at most points much amplitude to the valley, but on the opposite side, the slope ascends rapidly to a well marked watershed that stretches across the state parallel to the valley. At Lake Winnebago, this diagonal valley is connected with a scarcely less notable one, occupied by the Rock river. Geologically, this Green-bay-Rock-

river valley is even more noticeable, since it lies along the trend of the underlying strata, and was in large measure plowed out of a soft stratum by glacial action. Where it crosses the watershed, near Horicon marsh, it presents the same general features that are seen at other points, and in an almost equally conspicuous degree. Except in the southern part of the state, this valley is confined on the east by an abrupt ascent, and, at many points, by a precipitous, rocky acclivity, known as "The Ledge"—which is the projecting edge of the strata of the Niagara limestone. On the watershed referred to—between the St. Lawrence and Mississippi basins—this ledge is as conspicuous and continuous as at other points, so that we have here again the phenomenon of a valley formed by excavation, running up over an elevation of 300 feet, and connecting two great systems of drainage.

On the east side of this valley, as already indicated, there is a sharp ascent of 200 feet, on an average, from the crest of which the surface slopes gently down to Lake Michigan. The uniformity of this slope is broken by an extended line of drift hills, lying obliquely along it and extending from Kewaunee county southward to the Illinois line and known as the Kettle range. A less conspicuous range of similar character branches off from this in the northwest corner of Walworth county and passes across the Rock river valley, where it curves northward; passing west of Madison, crossing the great bend in the Wisconsin river, and bearing northeastward into Oconto county, where it swings round to the westward and crosses the northern part of the state. As a general topographical feature it is not conspicuous and is rather to be conceived as a peculiar chain of drift hills winding over the surface of the state, merely interrupting in some degree the regularity of its slopes. There will be occasion to return to this feature in our discussion of the drift. It will be observed that the southeastward slope is interrupted by valleys running *across* it, rudely parallel to Lake Michigan, and directing its drainage northward and southward, instead of directing it down the slope into the lake.

The Mississippi slope presents several conspicuous ridges and valleys, but their trend is *toward* the great river, and they are all due, essentially, to the erosion of the streams that channel the slope. One of these ridges constitutes the divide south of the Wisconsin river, already referred to. Another of these, conspicuous by reason of its narrowness and sharpness, lies between the Kickapoo and the Mississippi, and extends through Crawford, Vernon and Monroe counties. Still another is formed by the quartzite ranges of Sauk county and others of less prominence give a highly diversified character to the slope.

Scattered over the surface of the state are prominent hills, some swelling upward into rounded domes, some rising symmetrically into conical peaks, some ascending precipitously into castellated towers, and some reaching prominence without regard to beauty of form or convenience of description. A part of these hills were formed by the removal by erosion of the surrounding strata, and a part by the heaping up of drift material by the glacial forces. In the former case, they are composed of rock; in the latter, of clay, sand, gravel and boulders. The two forms are often combined. The highest peak in the southwestern part of the state is the West Blue mound, which is 1,151 feet above Lake Michigan; in the eastern part, Lapham's peak, 824 feet, and in the central part, Rib hill, 1,263 feet. The crest of Penokee range in the northern part of the state rises 1,000 feet, and upwards, above Lake Michigan.

The drainage systems correspond in general to these topographical features, though several minor eccentricities are to be observed. The streams of the Lake Superior system plunge rapidly down their steep slopes, forming numerous falls, some of them possessing great beauty, prominent among which are those of the Montreal river. On the southern slope, the rivers, in the upper portion of their courses, likewise descend rapidly, though less so, producing a succession of rapids and cascades, and an occasional cataract. In the lower part of their courses, the

descent becomes much more gentle and many of them are navigable to a greater or less extent. The rivers west of the Wisconsin pursue an essentially direct course to the Mississippi, attended of course with minor flexures. The Wisconsin river lies, for the greater part of its course, upon the north and south arch of the state, but on encountering the diagonal valley above mentioned it turns southwestward to the "Father of Waters." The streams east of the Wisconsin flow southerly and southeasterly until they likewise encounter this valley when they turn in the opposite direction and discharge northeasterly into Lake Michigan, through Green bay. Between the Green-bay-Rock-river valley and Lake Michigan, the drainage is again in the normal southeasterly direction. In the southern part of the state, the rivers flow in a general southerly direction, but, beyond the state, turn westward toward the Mississippi.

If the courses of the streams be studied in detail, many exceedingly interesting and instructive features will be observed, due chiefly to peculiarities of geological structure, some of which will be apparent by inspecting the accompanying geological map. Our space, however, forbids our entering upon the subject here.

The position of the watershed between the great basins of the Mississippi and the St. Lawrence is somewhat peculiar. On the Illinois line, it lies only three and one half miles from Lake Michigan and about 160 feet above its surface. As traced northward from this point, it retires from the lake and ascends in elevation till it approaches the vicinity of Lake Winnebago, when it recurves upon itself and descends to the portage between the Fox and the Wisconsin rivers, whence it pursues a northerly course to the heights of Michigan, when it turns westward and passes in an undulating course across the northern part of the state. It will be observed that much the greater area of the state is drained by the Mississippi system.

The relationship which the drainage channels have been observed to sustain to the topographical features is partly that of cause and partly that of effect. The general arching of the surface, giving rise to the main slopes, is due to deep-seated geological causes that produce an upward swelling of the center of the state. This determined the general drainage systems. On the other hand, the streams, acting upon strata of varying hardness, and presenting different attitudes, wore away the surface unequally and cut for themselves anomalous channels, leaving corresponding divides between, which gave origin to the minor irregularities that diversify the surface. In addition to this, the glacier—that great ice stream, the father of the drift—planed and plowed the surface and heaped up its *debris* upon it, modifying both the surface and drainage features. Looked at from a causal standpoint, we see the results of internal forces elevating, and external agencies cutting down, or, in a word, the face of the state is the growth of geologic ages furrowed by the teardrops of the skies.

GEOLOGICAL HISTORY OF WISCONSIN.

In harmony with the historical character of this atlas, it may be most acceptable to weave our brief sketch of the geological structure of the state into the form of a narrative of its growth.

THE ARCHEAN AGE.

LAURENTIAN PERIOD.

The physical history of Wisconsin can be traced back with certainty to a state of complete submergence beneath the waters of the ancient ocean, by which the material of our oldest and deepest strata were deposited. Let an extensive but shallow sea, covering the whole of the present territory of the state, be pictured to the mind, and let it be imagined to be depositing

mud and sand, as at the present day, and we have before us the first authentic stage of the history under consideration. Back of that, the history is lost in the mists of geologic antiquity. The thickness of the sediments that accumulated in that early period was immense, being measured by thousands of feet. These sediments occupied of course an essentially horizontal position, and were, doubtless, in a large degree hardened into beds of impure sandstone, shale, and other sedimentary rock. But in the progress of time an enormous pressure, attended by heat, was brought to bear upon them laterally, or edgewise, by which they were folded and crumpled, and forced up out of the water, giving rise to an island, the nucleus of Wisconsin. The force which produced this upheaval is believed to have arisen from the cooling and consequent contraction of the globe. The foldings may be imaged as the wrinkles of a shrinking earth. But the contortion of the beds was a scarcely more wonderful result than the change in the character of the rock which seems to have taken place simultaneously with the folding, indeed, as the result of the heat and pressure attending it. The sediments, that seem to have previously taken the form of impure sandstone and shale for the most part, underwent a change, in which re-arrangement and crystalization of the ingredients played a conspicuous part. By this metamorphism, granite, gneiss, mica schist, syenite, hornblende rocks, chloritic schists and other crystalline rocks were formed. These constitute the Laurentian formation and belong to the most ancient period yet distinctly recognized in geology, although there were undoubtedly more ancient rocks. They are therefore very fittingly termed Archaean—ancient—rocks (formerly Azoic.) No remains of life have been found in this formation in Wisconsin, but from the nature of rocks elsewhere, believed to be of the same age, it is probable that the lowest forms of life existed at this time. It is not strange that the great changes through which the rocks have passed should have so nearly obliterated all traces of them. The original extent of this Laurentian island can not now be accurately ascertained, but it will be sufficiently near the truth for our present purposes to consider the formation as it is now exposed, and as it is represented on the maps of the geological survey, as showing approximately the original extent. This will make it include a large area in the north-central portion of the state and a portion of the Upper Peninsula of Michigan. All the rest of the state was beneath the ocean, and the same may be said of the greater portion of the United States. The height of this island was doubtless considerable, as it has since been very much cut down by denuding agencies. The strata, as now exposed, mostly stand in highly inclined attitudes and present their worn edges to view. The tops of the folds, of which they are the remnants, seem to have been cut away, and we have the nearly vertical sides remaining.

HURONIAN PERIOD.

As soon as the Laurentian island had been elevated, the waves of the almost shoreless ocean began to beat against it, the elements disintegrate it, and the rains of the then tropical climate to wash it; and the sand, clay and other *debris*, thus formed, were deposited beneath the waters around its base, giving rise to a new sedimentary formation. There is no evidence that there was any vegetation on the island: the air and water were, doubtless, heavily charged with carbonic acid, an efficient agent of disintegration: the climate was warm and doubtless very moist—circumstances which combined to hasten the erosion of the island and increase the deposition in the surrounding sea. In addition to these agencies, we judge from the large amount of carbonaceous matter contained in some of the beds, that there must have been an abundance of marine vegetation, and, from the limestone beds that accumulated, it is probable that there was marine animal life also, since in later ages that was the chief source of limestone strata. The joint accumulations from these several sources gave rise to a series of shales, sandstones and limestones, whose combined thickness was several thousand feet.

At length the process of upheaval and metamorphism that closed the Laurentian period was repeated, and these sandstones became quartzites; the limestones were crystalized, the shales were changed to slates or schists, and into mediate grades of sediments became diorites, quartz-porphyrates and other forms of crystalline rocks. The carbonaceous matter was changed in part to graphite. There were also associated with these deposits extensive beds of iron ore, which we now find chiefly in the form of magnetite, hematite and specular ore. These constitute the Huronian rocks. From the amount of iron ore they contain, they are also fittingly termed the iron-bearing series. As in the preceding case, the strata were contorted, flexed and folded, and the whole island was further elevated, carrying with it these circumjacent strata, by which its extent was much enlarged. The area of the island after receiving this increment was considerably greater than the surface represented as Laurentian and Huronian on the accompanying map, since it was subsequently covered to a considerable extent by later formations. Penokee range, in Ashland county, is the most conspicuous development of the Huronian rocks in the state. The upturned edge of the formation forms a bold rampart, extending across the country for sixty miles, making the nearest approach to a mountain range to be found within the state. A belt of magnetic schist may be traced nearly its entire length. In the northern part of Oconto county there is also an important development of this formation, being an extension of the Menomonee iron-bearing series. A third area is found in Barron county, which includes deposits of pipestone. In the south central part of the state there are a considerable number of small areas and isolated outliers of quartzite and quartz-porphyrates, that, without much doubt, belong to this series. The most conspicuous of these are the Baraboo quartzite ranges, in Sauk and Columbia counties, and from thence a chain of detached outliers extends northeasterly through several counties. The most southerly exposure of the formation is near Lake Mills, in Jefferson county.

THE COPPER-BEARING SERIES.

Previous to the upheaval of the Huronian strata, there occurred in the Lake Superior region events of peculiar and striking interest. If we may not speak with absolute assurance, we may at least say with reasonable probability, that the crust of the earth was fissured in that region, and that there issued from beneath an immense mass of molten rock, that spread itself over an area of more than three hundred miles in length and one hundred miles in width. The action was not confined to a single overflow, but eruption followed eruption, sometimes apparently in quick succession, sometimes evidently at long intervals. Each outpouring, when solidified, formed a stratum of trap rock, and where these followed each other without any intervening deposit, a series of trappean beds were formed. In some cases, however, an interval occurred, during which the waves, acting upon the rock previously formed, produced a bed of sand, gravel and clay, which afterward solidified into sandstone, conglomerate and shale. The history of these beds is lithographed on their surface in beautiful ripple-marks and other evidences of wave-action. After the cessation of the igneous eruptions, there accumulated a vast thickness of sandstone, shale and conglomerate, so that the whole series is literally miles in thickness.

The eruptive portions have been spoken of as traps, for convenience; but they do not now possess the usual characteristics of igneous rocks, and appear to have undergone a chemical metamorphism by which the mineral ingredients have been changed, the leading ones now being an iron chlorite and a feldspar, with which are associated, as accessory minerals, quartz, epidote, prenite, calcite, laumontite, analcite, datolite, magnetite, native copper and silver, and, more rarely, other minerals. The rock, as a whole, is now known as a melaphyre. The upper portion of each bed is usually characterized by almond-sized cells filled with the minerals above mentioned, giving to the rock an amygdaloidal nature. The native copper was not injected in a

molten state, as has very generally been supposed, but was deposited by chemical means after the beds were formed and after a portion of the chemical change of the minerals above mentioned had been accomplished. The same is true of the silver. The copper occurs in all the different forms of rock—the melaphyrs, amygdaloids, sandstones, shales and conglomerates, but most abundantly in the amygdaloids and certain conglomerates.

This series extends across the northern portion of the state, occupying portions of Ashland, Bayfield, Douglas, Burnett and Polk counties. When the Huronian rocks were elevated, they carried these up with them, and they partook of the folding in some measure. The copper-bearing range of Keweenaw Point, Michigan, extends southwestward through Ashland, Burnett and Polk counties, and throughout this whole extent the beds dip north-northwesterly toward Lake Superior, at a high angle; but in Douglas and Bayfield counties there is a parallel range in which the beds incline in the opposite direction, and undoubtedly form the opposite side of a trough formed by a downward flexure of the strata.

PALEOZOIC TIME—SILURIAN AGE.

POTSDAM SANDSTONE.

After the great Archæan upheaval, there followed a long period, concerning which very little is known—a “lost interval” in geological history. It is only certain that immense erosion of the Archæan strata took place, and that in time the sea advanced upon the island, eroding its strata and redepositing the wash and wear beneath its surface. The more resisting beds withstood this advance, and formed reefs and rocky islands off the ancient shore, about whose bases the sands and sediments accumulated, as they did over the bottom of the surrounding ocean. The breakers, dashing against the rocky cliffs, threw down masses of rock, which imbedded themselves in the sands, or were rolled and rounded on the beach, and at length were buried, in either case, to tell their own history, when they should be again disclosed by the ceaseless gnawings of the very elements that had buried them. In addition to the accumulations of wash and wear that have previously been the main agents of rock-formations, abundant life now swarms in the ocean, and the sands become the great cemetery of its dead. Though the contribution of each little being was small, the myriad millions that the waters brought forth, yielded by their remains, a large contribution to the accumulating sediments. Among plants, there were sea-weeds, and among animals, protozoans, radiates, mollusks and articulates, all the sub-kingdoms except the vertebrates. Among these, the most remarkable, both in nature and number, were the trilobites, who have left their casts in countless multitudes in certain localities. The result of the action of these several agencies was the formation of extensive beds of sandstone, with interstratified layers of limestone and shale. These surrounded the Archæan nucleus on all sides, and reposed on its flanks. On the Lake Superior margin, the sea acted mainly upon the copper and iron-bearing series, which are highly ferruginous, and the result was the red Lake Superior sandstone. On the opposite side of the island, the wave-action was mainly upon quartzites, porphyries and granites, and resulted in light-colored sandstones. The former is confined to the immediate vicinity of Lake Superior; the latter occupies a broad, irregular belt bordering the Archæan area on the south, and, being widest in the central part of the state, is often likened to a rude crescent. The form and position of the area will be best apprehended by referring to the accompanying map. It will be understood from the foregoing description, that the strata of this formation lie in a nearly horizontal position, and repose unconformably upon the worn surface of the crystalline rocks. The close of this period was not marked by any great upheaval; there

was no crumpling or metamorphism of the strata, and they have remained to the present day very much as they were originally deposited, save a slight arching upward in the central portion of the state. The beds have been somewhat compacted by the pressure of superincumbent strata and solidified by the cementing action of calcareous and ferruginous waters, and by their own coherence, but the original character of the formation, as a great sand-bed, has not been obliterated. It still bears the ripple-marks, cross-lamination, worm-burrows, and similar markings that characterize a sandy beach. Its thickness is very irregular, owing to the unevenness of its Archaean bottom, and may be said to range from 1,000 feet downward. The strata slope gently away from the Archaean core of the state and underlie all the later formations, and may be reached at any point in southern Wisconsin by penetrating to a sufficient depth, which can be calculated with an approximate correctness. As it is a water-bearing formation, and the source of fine Artesian wells, this is a fact of much importance. The interbedded layers of limestone and shale, by supplying impervious strata, very much enhance its value as a source of fountains.

LOWER MAGNESIAN LIMESTONE.

During the previous period, the accumulation of sandstone gave place for a time to the formation of limestone, and afterward the deposit of sandstone was resumed. At its close, without any very marked disturbance of existing conditions, the formation of limestone was resumed, and progressed with little interruption till a thickness ranging from 50 to 250 feet was attained. This variation is due mainly to irregularities of the upper surface of the formation, which is undulating, and in some localities, may appropriately be termed billowy, the surface rising and falling 100 feet, in some cases, within a short distance. This, and the preceding similar deposit, have been spoken of as limestones simply, but they are really dolomites, or magnesian limestones, since they contain a large proportion of carbonate of magnesia. This rock also contains a notable quantity of silica, which occurs disseminated through the mass of the rock; or, variously, as nodules or masses of chert; as crystals of quartz, filling or lining drusy cavities, forming beautiful miniature grottos; as the nucleus of oolitic concretions, or as sand. Some argillaceous matter also enters into its composition, and small quantities of the ores of iron, lead and copper, are sometimes found, but they give little promise of value. The evidences of life are very scanty. Some sea-weeds, a few mollusks, and an occasional indication of other forms of life embrace the known list, except at a few favored localities where a somewhat ampler fauna is found. But it is not, therefore, safe to assume the absence of life in the depositing seas, for it is certain that most limestone has originated from the remains of animals and plants that secrete calcareous material, and it is most consistent to believe that such was the case in the present instance, and that the distinct traces of life were mostly obliterated. This formation occupies an irregular belt skirting the Potsdam area. It was, doubtless, originally a somewhat uniform band swinging around the nucleus of the state already formed, but it has since been eroded by streams to its present jagged outline.

ST. PETER'S SANDSTONE.

At the close of this limestone-making period, there appears to have been an interval of which we have no record, and the next chapter of the history introduces us to another era of sand accumulation. The work began by the leveling up of the inequalities of the surface of the Lower Magnesian limestone, and it ceased before that was entirely accomplished in all parts of the State, for a few prominences were left projecting through the sand deposits. The material laid down consisted of a silicious sand, of uniform, well-rounded—doubtless well-rolled—grains. This was evidently deposited horizontally upon the uneven limestone surface, and so rests in a sense

unconformably upon it. Where the sandstone abuts against the sides of the limestone prominences, it is mingled with material derived by wave action from them, which tells the story of its formation. But aside from these and other exceptional impurities, the formation is a very pure sandstone, and is used for glass manufacture. At most points, the sandstone has never become firmly cemented and readily crumbles, so that it is used for mortar, the simple handling with pick and shovel being sufficient to reduce it to a sand. Owing to the unevenness of its bottom, it varies greatly in thickness, the greatest yet observed being 212 feet, but the average is less than 100 feet. Until recently, no organic remains had ever been found in it, and the traces now collected are very meager indeed, but they are sufficient to show the existence of marine life, and demonstrate that it is an oceanic deposit. The rarity of fossils is to be attributed to the porous nature of the rock, which is unfavorable to their preservation. This porosity, however, subserves a very useful purpose, as it renders this pre-eminently a water-bearing horizon, and supplies some of the finest Artesian fountains in the state, and is competent to furnish many more. It occupies but a narrow area at the surface, fringing that of the Lower Magnesian limestone on the south.

TRENTON LIMESTONE.

A slight change in the oceanic conditions caused a return to limestone formation, accompanied with the deposit of considerable clayey material, which formed shale. The origin of the limestone is made evident by a close examination of it, which shows it to be full of fragments of shells, corals, and other organic remains, or the impressions they have left. Countless numbers of the lower forms of life flourished in the seas, and left their remains to be comminuted and consolidated into limestone. A part of the time, the accumulation of clayey matter predominated, and so layers of shale alternate with the limestone beds, and shaly leaves and partings occur in the limestone layers. Unlike the calcareous strata above and below, a portion of these are true limestone, containing but a very small proportion of magnesia. A sufficient amount of carbonaceous matter is present in some layers to cause them to burn readily. This formation is quite highly metalliferous in certain portions of the lead region, containing zinc especially, and considerable lead, with less quantities of other metals. The formation abounds in fossils, many of them well preserved, and, from their great antiquity, they possess uncommon interest. All the animal sub-kingdoms, except vertebrates, are represented. The surface area of this rock borders the St. Peter's sandstone, but, to avoid too great complexity on the map, it is not distinguished from the next formation to which it is closely allied. Its thickness reaches 120 feet.

THE GALENA LIMESTONE.

With scarcely a change of oceanic conditions, limestone deposit continued, so that we find reposing upon the surface of the Trenton limestone, 250 feet, or less, of a light gray or buff colored highly magnesian limestone, occurring in heavy beds, and having a sub-crystalline structure. In the southern portion of the state, it contains but little shaly matter, but in the northern part, it is modified by the addition of argillaceous layers and leaves, and presents a bluish or greenish-gray aspect. It receives its name from the sulphide of lead,—galena, of which it contains large quantities, in the southwestern part of the state. Zinc ore is also abundant, and these minerals give to this and the underlying formation great importance in that region. Elsewhere, although these ores are present in small quantities, they have not developed economic importance. This limestone, though changing its nature, as above stated, occupies a large area in the southwestern part of the state, and a broad north and south belt in east-central Wisconsin. It will be seen that our island is growing apace by concentric additions, and that, as the several formations sweep around the central nucleus of Archaean rocks, they swing off into adjoining states, whose formation was somewhat more tardy than that of Wisconsin.

CINCINNATI SHALES.

A change ensued upon the formation of the Galena limestone, by virtue of which there followed the deposition of large quantities of clay, accompanied by some calcareous material, the whole reaching at some points a thickness of more than 200 feet. The sediment has never become more than partially indurated, and a portion of it is now only a bed of compact clay. Other portions hardened to shale or limestone according to the material. The shales are of various gray, green, blue, purple and other hues, so that where vertical cliffs are exposed, as along Green bay, a beautiful appearance is presented. As a whole, this is a very soft formation, and hence easily eroded. Owing to this fact, along the east side of the Green-bay-Rock-river valley, it has been extensively carried away, leaving the hard overlying Niagara limestone projecting in the bold cliffs known as "The Ledge." The prominence of the mounds in the southwestern part of the state are due to a like cause. Certain portions of this formation abound in astonishing numbers of well preserved fossils, among which corals, bryozoans, and brachiopods, predominate, the first named being especially abundant. A little intelligent attention to these might have saved a considerable waste of time and means in an idle search for coal, to which a slight resemblance to some of the shales of the coal measures has led. This formation underlies the mounds of the lead region, and forms a narrow belt on the eastern margin of the Green-bay-Rock-river valley. This was the closing period of the Lower Silurian Age.

CLINTON IRON ORE.

On the surface of the shales just described, there were accumulated, here and there, beds of peculiar lenticular iron ore. It is probable that it was deposited in detached basins, but the evidence of this is not conclusive. In our own state, this is chiefly known as Iron Ridge ore, from the remarkable development it attains at that point. It is made up of little concretions, which from their size and color are fancied to resemble flax seed, and hence the name "seed ore," or the ore of fish, and hence oölitic ore. "Shot ore" is also a common term. This is a soft ore occurring in regular horizontal beds which are quarried with more ease than ordinary limestone. This deposit attains, at Iron Ridge, the unusual thickness of twenty-five feet, and affords a readily accessible supply of ore, adequate to all demands for a long time to come. Similar, but much less extensive beds, occur at Hartford, and near Depere, besides some feeble deposits elsewhere. Large quantities of ore from Iron Ridge have been shipped to various points in this and neighboring States for reduction, in addition to that smelted in the vicinity of the mines.

NIAGARA LIMESTONE.

Following the period of iron deposit, there ensued the greatest limestone-forming era in the history of Wisconsin. During its progress a series of beds, summing up, at their points of greatest thickness, scarcely less than eight hundred feet, were laid down. The process of formation was essentially that already described, the accumulation of the calcareous secretions of marine life. Toward the close of the period, reefs appeared, that closely resemble the coral reefs of the present seas, and doubtless have a similar history. Corals form a very prominent element in the life of this period, and with them were associated great numbers of mollusks, one of which (*Pentamerus oblongus*) sometimes occurs in beds not unlike certain Livalves of to-day, and may be said to have been the oyster of the Silurian seas. At certain points, those wonderful animals, the stone lilies (*Crinoids*), grew in remarkable abundance, mounted on stems like a plant, yet true animals. Those unique crustaceans, the trilobites, were conspicuous in numbers and variety, while the gigantic cephalopods held sway over the life of the seas. In the vicinity of the reefs,

there seem to have been extensive calcareous sand flats and areas over which fine calcareous mud sett'ed, the former resulting in a pure granular dolomite, the latter in a compact close-textured stone. The rock of the reefs is of very irregular structure. Of other portions of the formation, some are coarse heavy beds, some fine, even-bedded, close-grained layers, and some, again, irregular, impure and cherty. All are highly magnesian, and some are among the purest dolomites known. The Niagara limestone occupies a broad belt lying adjacent to Lake Michigan.

LOWER HELDERBERG LIMESTONE.

On Mud creek, near Milwaukee, there is found a thin-bedded slaty limestone, that is believed to represent this period. It has neglected, however, to leave us an unequivocal record of its history, as fossils are extremely rare, and its stratigraphical relations and lithographical character are capable of more than one interpretation. Near the village of Waubesa in Ozaukee county, there is a similar formation, somewhat more fossiliferous, that seems to represent the same period. The area which these occupy is very small and they play a most insignificant part in the geology of the state. They close the record of the Silurian age in Wisconsin. During its progress the land had been gradually emerging from the ocean and increasing its amplitude by concentric belts of limestone, sandstone and shale. There had been no general disturbance, only those slight oscillations which changed the nature of the forming rock and facilitated deposition. At its close the waters retired from the borders of the state, and an interval supervened, during which no additions are known to have been made to its substructure.

DEVONIAN AGE.

HAMILTON CEMENT ROCK.

After a lapse of time, during which the uppermost Silurian and the lowest Devonian strata, as found elsewhere, were formed, the waters again advanced slightly upon the eastern margin of the state and deposited a magnesian limestone mingled with silicious and aluminous material, forming a combination of which a portion has recently been shown to possess hydraulic properties of a high degree of excellence. With this deposition there dawned a new era in the life-history of Wisconsin. While multitudes of protozoans, radiates, mollusks and articulates swarmed in the previous seas, no trace of a vertebrate has been found. The Hamilton period witnessed the introduction of the highest type of the animal kingdom into the Wisconsin series. But even then only the lowest class was represented—the fishes. The lower orders of life, as before, were present, but the species were of the less ancient Devonian type. Precisely how far the deposit originally extended is not now known, as it has undoubtedly been much reduced by the eroding agencies that have acted upon it. That portion which remains, occupies a limited area on the lake shore immediately north of Milwaukee, extending inland half a dozen miles. The cement rock proper is found on the Milwaukee river just above the city. At the close of the Hamilton period the oceanic waters retired, and, if they ever subsequently encroached upon our territory, they have left us no permanent record of their intrusion.

The history of the formation of the substructure of the state was, it will be observed, in an unusual degree, simple and progressive. Starting with a firm core of most ancient crystalline rocks, leaf upon leaf of stony strata were piled around it, adding belt after belt to the margin of the growing island until it extended itself far beyond the limits of our state, and coalesced with the forming continent. An ideal map of the state would show the Archean nucleus surrounded by concentric bands of the later formations in the order of their deposition. But during all the

vast lapse of time consumed in their growth, the elements were gnawing, carving and channeling the surface, and the outcropping edges of the formations were becoming more and more jagged, and now, after the last stratum had been added, and the whole had been lifted from the waters that gave it birth, there ensued perhaps a still vaster era, during which the history was simply that of surface erosion. The face of the state became creased with the wrinkles of age. The edges of her rocky wrappings became ragged with the wear of time. The remaining Devonian periods, the great Carboniferous age, the Mesozoic era, and the earlier Tertiary periods passed, leaving no other record than that of denudation.

THE GLACIAL PERIOD.

With the approach of the great Ice Age, a new chapter was opened. An immense sheet of ice moved slowly, but irresistibly, down from the north, planing down the prominences, filling up the valleys, polishing and grooving the strata, and heaping up its rubbish of sand, gravel, clay and boulders over the face of the country. It engraved the lines of its progress on the rocks, and, by reading these, we learn that one prodigious tongue of ice plowed along the bed of Lake Michigan, and a smaller one pushed through the valley of Green bay and Rock river, while another immense ice-stream flowed southwestward through the trough of Lake Superior and onward into Minnesota. The diversion of the glacier through these great channels seems to have left the southwestern portion of the state intact, and over it we find no drift accumulations. With the approach of a warmer climate, the ice-streams were melted backward, leaving their *debris* heaped promiscuously over the surface, giving it a new configuration. In the midst of this retreat, a series of halts and advances seem to have taken place in close succession, by which the drift was pushed up into ridges and hills along the foot of the ice, after which a more rapid retreat ensued. The effect of this action was to produce that remarkable chain of drift hills and ridges, known as the Kettle range, which we have already described as winding over the surface of the state in a very peculiar manner. It is a great historic rampart, recording the position of the edge of the glacier at a certain stage of its retreat, and doubtless at the same time noting a great climatic or dynamic change.

The melting of the glacier gave rise to large quantities of water, and hence to numerous torrents, as well as lakes. There occurred about this time a depression of the land to the northward, which was perhaps the cause, in part or in whole, of the retreat of the ice. This gave origin to the great lakes. The waters advanced somewhat upon the land and deposited the red clay that borders Lakes Michigan and Superior and occupies the Green bay valley as far up as the vicinity of Fond du Lac. After several oscillations, the lakes settled down into their present positions. Wherever the glacier plowed over the land, it left an irregular sheet of commingled clay, sand, gravel and boulders spread unevenly over the surface. The depressions formed by its irregularities soon filled with water and gave origin to numerous lakelets. Probably not one of the thousands of Wisconsin lakes had an existence before the glacial period. Wherever the great lakes advanced upon the land, they leveled its surface and left their record in lacustrine clays and sandy beach lines.

With the retreat of the glacier, vegetation covered the surface, and by its aid and the action of the elements our fertile drift soils, among the last and best of Wisconsin's formations, were produced. And the work still goes on.

CLIMATOLOGY OF WISCONSIN.

BY PROF. H. H. OLDENHAGE.

The climate of a country, or that peculiar state of the atmosphere in regard to heat and moisture which prevails in any given place, and which directly affects the growth of plants and animals, is determined by the following causes: 1st. Distance from the equator. 2d. Distance from the sea. 3d. Height above the sea. 4th. Prevailing winds; and 5th. Local influences, such as soil, vegetation, and proximity to lakes and mountains.

Of these causes, the first, distance from the equator, is by far the most important. The warmest climates are necessarily those of tropical regions where the sun's rays are vertical. But in proceeding from the equator toward the poles, less and less heat continues to be received by the same extent of surface, because the rays fall more and more obliquely, and the same amount of heat-rays therefore spread over an increasing breadth of surface; while, however, with the increase of obliquity, more and more heat is absorbed by the atmosphere, as the amount of air to be penetrated is greater. If the earth's surface were either wholly land or water, and its atmosphere motionless, the gradations of climate would run parallel with the latitudes from the equator to the poles. But owing to the irregular distribution of land and water and the prevailing winds, such an arrangement is impossible, and the determination of the real climate of a given region, and its causes, is one of the most difficult problems of science.

On the second of these causes, distance from the sea, depends the difference between oceanic and continental climates. Water is more slowly heated and cooled than land; the climates of the sea and the adjacent land are therefore much more equable and moist than those of the interior.

A decrease of temperature is noticeable in ascending high mountains. The rate at which the temperature falls with the height above the sea is a very variable quantity, and is influenced by a variety of causes, such as latitude, situation, moisture, or dryness, hour of the day and season of the year. As a rough approximation, however, the fall of 1° of the thermometer for every 300 feet is usually adopted.

Air in contact with any part of the earth's surface, tends to acquire the temperature of that surface. Hence, winds from the north are cold; those from the south are warm. Winds from the sea are moist, and winds from the land are usually dry. Prevailing winds are the result of the relative distribution of atmospheric pressure blowing *from* places where the pressure is highest, *toward* places where it is lowest. As climate practically depends on the temperature and moisture of the air, and as these again depend on the prevailing winds which come charged with the temperature and moisture of the regions they have traversed, it is evident that charts showing the mean pressure of the atmosphere give us the key to the climates of the different regions of the world. The effect of prevailing winds is seen in the moist and equable climate of Western Europe, especially Great Britain, owing to the warm and moist southwest winds; and in the extremes of the eastern part of North America, due to the warm and moist winds prevailing in summer and the Arctic blasts of winter.

Among local influences which modify climate, the nature of the soil is one of the most important. As water absorbs much heat, wet, marshy ground usually lowers the mean temperature. A sandy waste presents the greatest extremes. The extremes of temperature are also modified by extensive forests, which prevent the soil from being as much warmed and cooled as it would be if bare. Evaporation goes on more slowly under the trees, since the soil is screened from the sun. And as the air among the trees is little agitated by the wind, the vapor is left to accumulate, and hence the humidity of the air is increased. Climate is modified in a similar manner by lakes and other large surfaces of water. During summer the water cools the air and reduces the temperature of the locality. In winter, on the other hand, the opposite effect is produced. The surface water which is cooled sinks to lower levels; the warmer water rising to the surface, radiates heat into the air and thus raises the temperature of the neighboring region. This influence is well illustrated, on a great scale, in our own state by Lake Michigan.

It is, lastly, of importance whether a given tract of country is diversified by hills, valleys and mountains. Winds with their warm vapor strike the sides of mountains and are forced up into higher levels of the atmosphere, where the vapor is condensed into clouds. Air coming in contact, during the night or in winter, with the cooled declivities of hills and rising grounds becomes cooled and consequently denser and sinks to the low-lying grounds, displacing the warmer and lighter air. Hence, frosts often occur at these places, when no trace of them can be found at higher levels. For the same reason the cold of winter is generally more intense in ravines and valleys than on hill tops and high grounds, the valleys being a receptacle for the cold-air currents which descend from all sides. These currents give rise to gusts and blasts of cold wind, which are simply the out-rush of cold air from such basins. This is a subject of great practical importance to fruit-growers.

In order to understand the principal features of the climate of Wisconsin, and the conditions on which these depend, it is necessary to consider the general climatology of the eastern United States. The chief characteristic of this area as a whole is, that it is subject to great extremes—to all those variations of temperature which prevail from the tropical to the Arctic regions. This is principally due to the topographical conditions of our continent. The Rocky mountains condensing the moisture of the warm winds from the Pacific and preventing them from reaching far inland, separate the climate of the Mississippi valley widely from that of the Pacific slope. Between the Gulf of Mexico and the Arctic sea there is no elevation to exceed 2,000 feet to arrest the flow of the hot southerly winds of summer, or the cold northerly winds of winter. From this results a variation of temperature hardly equaled in any part of the world.

In determining the climates of the United States, western Europe is usually taken as the basis of comparison. The contrast between these regions is indeed very great. New York is in the same latitude with Madrid, Naples and Constantinople. Quebec is not so far north as Paris. London and Labrador are equi-distant from the equator; but while England, with her mild, moist climate, produces an abundance of vegetation, in Labrador all cultivation ceases. In the latitude of Stockholm and St. Petersburg, at the 60th parallel, we find in eastern North America vast ice-fields which seldom melt. The moist and equable climate of western Europe in high latitudes is due to the Gulf Stream and the southwest winds of the Atlantic, which spread their warmth and moisture over the western coast. Comparison, however, shows that the climate of the Pacific coast of North America is quite as mild as that of western Europe; and this is due to the same kind of influences, namely, to the warm, moist winds and the *currents* of the Pacific. And to continue the comparison still further, in proceeding on both continents from west to east, or from ocean into the interior, we find a general resemblance of climatic conditions, modified greatly, it is true, by local influences.

The extreme summer climate of the eastern United States is owing to the southerly and southwesterly winds, which blow with great regularity during this season, and, after traversing great areas of tropical seas, bear the warmth and moisture of these seas far inland, and give this region the peculiar semi-tropical character of its summers. The average temperature of summer varies between 80° for the Gulf states, and 60° for the extreme north. While in the Gulf states the thermometer often rises to 100° , in the latitude of Wisconsin this occurs very seldom. During winter the prevailing winds are from the northwest. These cold blasts from the Arctic sea are deflected by the Rocky mountains, sweep down unopposed into lower latitudes, and produce all the rigors of an arctic winter. The mean temperature for this season varies between 60° for the Gulf coast and 15° for the extreme northern part of Wisconsin. In the northern part of the valley the cold is sometimes so intense that the thermometer sinks to the freezing point of mercury.

The extreme of heat and cold would give a continental climate if this extreme were not accompanied by a profusion of rain. The southerly winds, laden with moisture, distribute this moisture with great regularity over the valley. The amount of rainfall, greater in summer than in winter, varies, from the Gulf of Mexico to Wisconsin, from 63 inches to 30 inches. On the Atlantic coast, where the distribution is more equal throughout the year on account of its proximity to the ocean, the amount varies, from Florida to Maine, from 63 to 40 inches. The atmospheric movements on which, to a great extent, the climatic conditions of the eastern United States depend, may be summed up as follows:

"1. That the northeast trades, deflected in their course to south and southeast winds in their passage through the Caribbean Sea and the Gulf of Mexico, are the warm and moist winds which communicate to the Mississippi valley and the Atlantic slope their fertility.

"2. That the prevalence of these winds from May to October communicates to this region a sub-tropical climate.

"3. That in the region bordering on the Gulf of Mexico, the atmospheric disturbances are propagated from south to north; but in the northern and middle states, owing to a prevailing upper current, from west to east.

"4. That while this upper current is cool and dry, and we have the apparent anomaly of rain storms traveling from west to east, at the same time the moisture supplying them comes from the south.

"5. That, in the winter, the south and southeast winds rise into the upper current, while the west and northwest winds descend and blow as surface winds, accompanied by an extraordinary depression of temperature, creating, as it were, an almost arctic climate.

"6. That the propagation of the cold winds from west to east is due to the existence of a warmer and lighter air to the eastward

"7. That in summer the westerly currents seldom blow with violence, because, in passing over the heated plains, they acquire nearly the same temperature as the southerly currents, but in winter the conditions are reversed."

The line of conflict of these aerial currents, produced by unequal atmospheric pressure, shift so rapidly that the greatest changes of temperature, moisture, and wind, are experienced within a few hours, these changes, usually affecting areas of great extent. In the old world, on the other hand, the mountain systems, generally running from east to west, offer an impediment, especially to the polar currents, and the weather is therefore not so changeable.

Wisconsin, situated in the upper and central part of the Mississippi valley, is subject to the same general climatic conditions which give this whole area its peculiar climate.

The highest mean summer temperature is 72° Fahrenheit in the southwestern part of the

state, and the lowest 64° at Bayfield, Lake Superior. During the months of June, July and August, the thermometer often rises as high as 90°, seldom to 100°. In 1874 the mercury reached this high point twice at LaCrosse, and three times at Dubuque, Iowa. There are usually two or three of these "heated terms" during the summer, terminated by abrupt changes of temperature.

The isotherm of 70° (an isotherm being a line connecting places having the same mean temperature) enters this state from the west, in the northern part of Grant county touches Madison, takes a southerly direction through Walworth county, passes through southern Michigan, Cleveland, and Pittsburg, reaching the Atlantic ocean a little north of New York city. From this it is seen that southern Wisconsin, southern and central Michigan, northern Ohio, central Pennsylvania, and southern New York have nearly the same summer temperature. Northwestward this line runs through southern Minnesota and along the Missouri to the foot of the mountains. Eastern Oregon, at 47° 30' north latitude, has the same average summer temperature; the line then returns and touches the Pacific coast at San Diego.

The remarkable manner in which so large a body of water as Lake Michigan modifies the temperature has been carefully determined, so far as it relates to Wisconsin, by the late Dr. Lapham, of Milwaukee. It is seen by the map that the average summer temperature of Racine is the same as that of St. Paul. The weather map for July, 1875, in the signal service report for 1876, shows that the mean temperature for July was the same in Rock county, in the southern part of the state, as that of Breckenridge, Minn., north of St. Paul. The moderating effect of the lake during hot weather is felt in the adjacent region during both day and night.

Countries in the higher latitudes having an extreme summer temperature are usually characterized by a small amount of rain-fall. The Mississippi valley, however, is directly exposed in spring and summer to the warm and moist winds from the south, and as these winds condense their moisture by coming in contact with colder upper currents from the north and west, it has a profusion of rain which deprives the climate largely of its continental features. As already stated, the average amount of rain-fall in Wisconsin is about 30 inches annually. Of this amount about one-eighth is precipitated in winter, three-eighths in summer, and the rest is equally distributed between spring and autumn — in other words, rain is abundant at the time of the year when it is most needed. In Wisconsin the rainfall is greatest in the southwestern part of the state; the least on and along the shore of Lake Michigan. This shows that the humidity of the air of a given area can be greater, and the rainfall less, than that of some other.

In comparison with western Europe, even where the mean temperature is higher than in the Mississippi valley, the most striking fact in the climatic conditions of the United States is the great range of plants of tropical or sub-tropical origin, such as Indian corn, tobacco, etc. The conditions on which the character of the vegetation depends are temperature and moisture, and the mechanical and chemical composition of the soil.

"The basis of this great capacity (the great range of plants) is the high curve of heat and moisture for the summer, and the fact that the measure of heat and of rain are almost or quite tropical for a period in duration from one to five months, in the range from Quebec to the coast of the Gulf." Indian corn attains its full perfection between the summer isotherms 72° and 77°, in Illinois, Iowa, Missouri, and Kansas; but it may be grown up to the line of 65°, which includes the whole of Wisconsin. The successful cultivation of this important staple is due to the intense heat of summer and a virgin soil rich in nitrogen.

While Milwaukee and central Wisconsin have a mean annual temperature of 45°, that of southern Ireland and central England is 50°; the line of 72°, the average temperature for July, runs from Walworth county to St. Paul, while during the same month Ireland and England have a mean temperature of only 60°. In Wisconsin the thermometer rises as high as 90° and above,

while the range above the mean in England is very small. It is the tropical element of our summers, then, that causes the grape, the corn, etc., to ripen, while England, with a higher mean temperature, is unable to mature them successfully. Ireland, where southern plants may remain out-doors, unfrosted, the whole winter, can not mature those fruits and grasses which ripen in Wisconsin. In England a depression of 2° below the mean of 60° will greatly reduce the quantity, or prevent the ripening of wheat altogether, 60° being essential to a good crop. Wheat, requiring a lower temperature than corn, is better adapted to the climate of Wisconsin. This grain may be grown as far north as Hudson bay.

Autumn, including September, October and November, is of short duration in Wisconsin. North of the 42d parallel, or the southern boundary line of the state, November belongs properly to the winter months, its mean temperature being about 32° . The decrease of heat from August to September is generally from 8° to 9° ; 11° from September to October, and 14° from October to November. The average temperature for these three months is about 45° . A beautiful season, commonly known as Indian summer, frequently occurs in the latter part of October and in November. This period is characterized by a mild temperature and a hazy, calm atmosphere. According to Loomis, this appears to be due to "an uncommonly tranquil condition of the atmosphere, during which the air becomes filled with dust and smoke arising from numerous fires, by which its transparency is greatly impaired." This phenomenon extends as far north as Lake Superior, but it is more conspicuous and protracted in Kansas and Missouri, and is not observed in the southern states.

Destructive frosts generally occur in September, and sometimes in August. "A temperature of 36° to 40° at sunrise is usually attended with frosts destructive to vegetation, the position of the thermometer being usually such as to represent less than the actual refrigeration at the open surface." In 1875, during October, at Milwaukee, the mercury fell seven times below the freezing point, and twice below zero in November, the lowest being 14° .

The winters are generally long and severe, but occasionally mild and almost without snow. The mean winter temperature varies between 23° in the southeastern part of the state, and 16° at Ashland, in the northern. For this season the extremes are great. The line of 20° is of importance, as it marks the average temperature which is fatal to the growth of all the tender trees, such as the pear and the peach. In the winter of 1875 and 1876, the mean temperature for December, January and February, in the upper lake region, was about 4° above the average mean for many years, while during the previous winter the average temperature for January and February was about 12° below the mean for many years, showing a great difference between cold and mild winters. In the same winter, 1875-76, at Milwaukee, the thermometer fell only six times below zero, the lowest being 12° , while during the preceding winter the mercury sank thirty-six times below zero, the lowest being 23° . In the northern and northwestern part of the state the temperature sometimes falls to the freezing point of mercury. During the exceptionally cold winter of 1872-3, at La Crosse, the thermometer sank nearly fifty times below zero; on December 24, it indicated 37° below, and on January 18, 43° below zero, averaging about 12° below the usual mean for those months. The moderating effect of Lake Michigan can be seen by observing how the lines indicating the mean winter temperature curve northward as they approach the lake. Milwaukee, Sheboygan, Manitowoc, Two Rivers, and the Grand Traverse region of Michigan, have the same average winter temperature. The same is true regarding Galena, Ill., Beloit, and Kewaunee. A similar influence is noticed in all parts of the state. Dr. Lapham concludes that this is not wholly due to the presence of Lake Michigan, but that the mountain range which extends from a little west of Lake Superior to the coast of Labrador (from 1,100 to 2,240 feet high) protects the lake region in no inconsiderable degree from the excessive cold of winter.

According to the same authority, the time at which the Milwaukee river was closed with ice, for a period of nine years, varied between November 15 and December 1; the time at which it became free from ice, between March 3 and April 13. In the lake district, snow and rain are interspersed through all the winter months, rain being sometimes as profuse as at any other season. In the northwestern part the winter is more rigid and dry. Northern New York and the New England states usually have snow lying on the ground the whole winter, but in the southern lake district it rarely remains so long. In 1842-'43, however, sleighing commenced about the middle of November, and lasted till about the same time in April—five months.

The average temperature for the three months of spring, March, April and May, from Walworth county to St. Paul, is about 45°. In central Wisconsin the mean for March is about 27°, which is an increase of nearly 7° from February. The lowest temperature of this month in 1876 was 40° above zero. April shows an average increase of about 9° over March. In 1876 the line of 45° for this month passed from LaCrosse to Evanston, Ill., touching Lake Erie at Toledo, showing that the interior west of Lake Michigan is warmer than the lake region. The change from winter to spring is more sudden in the interior than in the vicinity of the lakes. "In the town of Lisbon, fifteen miles from Lake Michigan," says Dr. Lapham, "early spring flowers show themselves about ten days earlier than on the lake. In spring vegetation, in places remote from the lakes, shoots up in a very short time, and flowers show their petals, while on the lake shore the cool air retards them and brings them more gradually into existence." The increase from April to May is about 15°. In May, 1876, Pembina and Milwaukee had nearly the same mean temperature, about 55°.

The extremes of our climate and the sudden changes of temperature no doubt have a marked influence, both physically and mentally, on the American people. And though a more equable climate may be more conducive to perfect health, the great range of our climate from arctic to tropical, and the consequent variety and abundance of vegetable products, combine to make the Mississippi valley perhaps one of the most favorable areas in the world for the development of a strong and wealthy nation.

During the months of summer, in the interior of the eastern United States, at least three-fourths of the rain-fall is in showers usually accompanied by electrical discharges and limited to small areas. But in autumn, winter, and spring nearly the whole precipitation takes place in general storms extending over areas of 300, 500 and sometimes over 1,000 miles in diameter, and generally lasting two or three days. An area of low atmospheric pressure causes the wind to blow toward that area from all sides, and when the depression is sudden and great, it is accompanied by much rain or snow. On account of the earth's rotation, the wind blowing toward this region of low pressure is deflected to the right, causing the air to circulate around the center with a motion spirally inward. In our latitude the storm commences with east winds. When the storm center, or area of lowest barometer, is to the south of us, the wind gradually veers, as the storm passes from west to east with the upper current, round to the northwest by the north point. On the south side of the storm center, the wind veers from southeast to southwest, by the south point. The phenomena attending such a storm when we are in or near the part of its center are usually as follows: After the sky has become overcast with clouds, the wind from the northeast generally begins to rise and blows in the opposing direction to the march of the storm. The clouds which are now moving over us, discharge rain or snow according to circumstances. The barometer continues to fall, and the rain or snow is brought obliquely down from the northern quarter by the prevailing wind. After a while the wind changes slightly in direction and then ceases. The thermometer rises and the barometer has reached its lowest point. This is the center of the storm. After the calm the wind has changed its direction to northwest or west. The

wind blows again, usually more violently than before, accompanied by rain or snow, which is now generally of short duration. The sky clears, and the storm is suddenly succeeded by a temperature 10 or 20 degrees below the mean. Most of the rain and snow falls with the east winds, or before the center passes a given point. The path of these storms is from west to east, or nearly so, and only seldom in other directions. These autumn, winter, and spring rains are generally first noticed on the western plains, but may originate at any point along their path, and move eastward with an average velocity of about 20 miles an hour in summer and 30 miles in winter, but sometimes attaining a velocity of over 50 miles, doing great damage on the lakes. In predicting these storms, the signal service of the army is of incalculable practical benefit, as well as in collecting data for scientific conclusions.

A subject of the greatest importance to every inhabitant of Wisconsin is the influence of forests on climate and the effects of disrobing a county of its trees. The general influence of forests in modifying the extremes of temperature, retarding evaporation and the increased humidity of the air, has already been mentioned. That clearing the land of trees increases the temperature of the ground in summer, is so readily noticed that it is scarcely necessary to mention it; while in winter the sensible cold is never so extreme in woods as on an open surface exposed to the full force of the winds. "The lumbermen in Canada and the northern United States labor in the woods without inconvenience, when the mercury stands many degrees below zero, while in the open grounds, with only a moderate breeze, the same temperature is almost insupportable." "In the state of Michigan it has been found that the winters have greatly increased in severity within the last forty years, and that this increased severity seems to move along even-paced with the destruction of the forests. Thirty years ago the peach was one of the most abundant fruits of that State; at that time frost, injurious to corn at any time from May to October, was a thing unknown. Now the peach is an uncertain crop, and frost often injures the corn." The precise influence of forests on temperature may not at present admit of definite solution, yet the mechanical screen which they furnish to the soil often far to the leeward of them, is sufficiently established, and this alone is enough to encourage extensive planting wherever this protection is wanting.

With regard to the quantity of rain-fall, "we can not positively affirm that the total annual quantity of rain is even locally diminished or increased by the destruction of the woods, though both theoretical considerations and the balance of testimony strongly favor the opinion that more rain falls in wooded than in open countries. One important conclusion, at least, upon the meteorological influence of forests is certain and undisputed: the proposition, namely, that, within their own limits, and near their own borders, they maintain a more uniform degree of humidity in the atmosphere than is observed in cleared grounds. Scarcely less can it be questioned that they tend to promote the frequency of showers, and, if they do not augment the amount of precipitation, they probably equalize its distribution through the different seasons."

There is abundant and undoubted evidence that the amount of water existing on the surface in lakes and rivers, in many parts of the world, is constantly diminishing. In Germany, observations of the Rhine, Oder, Danube, and the Elbe, in the latter case going back for a period of 142 years, demonstrate beyond doubt, that each of these rivers has much decreased in volume, and there is reason to fear that they will eventually disappear from the list of navigable rivers.

"The 'Blue-Grass' region of Kentucky, once the pride of the West, has now districts of such barren and arid nature that their stock farmers are moving toward the Cumberland mountains, because the creeks and old springs dried up, and their wells became too low to furnish water for their cattle." In our own state "such has been the change in the flow of the Milwau-

kee river, even while the area from which it receives its supply is but partially cleared, that the proprietors of most of the mills and factories have found it necessary to resort to the use of steam, at a largely increased yearly cost, to supply the deficiency of water-power in dry seasons of the year." "What has happened to the Milwaukee river, has happened to all the other water courses in the state from whose banks the forest has been removed; and many farmers who selected land upon which there was a living brook of clear, pure water, now find these brooks dried up during a considerable portion of the year."

Districts stripped of their forest are said to be more exposed than before to loss of harvests, to droughts and frost. "Hurricanes, before unknown, sweep unopposed over the regions thus denuded, carrying terror and devastation in their track." Parts of Asia Minor, North Africa, and other countries bordering on the Mediterranean, now almost deserts, were once densely populated and the granaries of the world. And there is good reason to believe "that it is the destruction of the forests which has produced this devastation." From such facts Wisconsin, already largely robbed of its forests, should take warning before it is too late.

TREES, SHRUBS AND VINES.

By P. R. HOY, M.D.

It is not the purpose of this article to give a botanical description, but merely brief notes on the economical value of the woods, and the fitness of the various indigenous trees, shrubs and vines for the purpose of ornament, to be found in Wisconsin.

WHITE OAK—*Quercus Alba*.—This noble tree is the largest and most important of the American oaks. The excellent properties of the wood render it eminently valuable for a great variety of uses. Wherever strength and durability are required, the white oak stands in the first rank. It is employed in making wagons, coaches and sleds; staves and hoops of the best quality for barrels and casks are obtained from this tree; it is extensively used in architecture, ship-building, etc.; vast quantities are used for fencing; the bark is employed in tanning. The domestic consumption of this tree is so great that it is of the first importance to preserve the young trees wherever it is practicable, and to make young plantations where the tree is not found. The white oak is a graceful, ornamental tree, and worthy of particular attention as such; found abundantly in most of the timbered districts.

BURR OAK—*Q. Macrocarpa*.—This is perhaps the most ornamental of our oaks. Nothing can exceed the graceful beauty of these trees, when not crowded or cramped in their growth, but left free to follow the laws of their development. Who has not admired these trees in our extensive burr oak openings? The large leaves are a dark green above and a bright silvery white beneath, which gives the tree a singularly fine appearance when agitated by the wind. The wood is tough, close-grained, and more durable than the white oak, especially when exposed to frequent changes of moisture and drying; did the tree grow to the same size, it would be preferred for most uses. Abundant, and richly worthy of cultivation, both for utility and ornament.

SWAMP WHITE OAK—*Q. bicolor*.—Is a valuable and ornamental tree, not quite so large or as common as the burr oak. The wood is close-grained, durable, splits freely, and is well worthy of cultivation in wet, swampy grounds, where it will thrive.

POST OAK—*Q. obtusiloba*.—Is a scraggy, small tree, found sparingly in this state. The timber is durable, and makes good fuel. Not worthy of cultivation.

SWAMP CHESTNUT OAK—*Q. Prinus*.—This species of chestnut oak is a large, graceful tree, wood rather open-grained, yet valuable for most purposes to which the oaks are applied; makes the best fuel of any of this family. A rare tree, found at Janesville and Brown's lake, near Burlington. Worthy of cultivation.

RED OAK—*Q. Rubra*.—The red oak is a well-known, common, large tree. The wood is coarse-grained, and the least durable of the oaks, nearly worthless for fuel, and scarcely worthy of cultivation, even for ornament.

PIN OAK—*Q. Palustris*.—This is one of the most common trees in many sections of the state. The wood is of little value except for fuel. The tree is quite ornamental, and should be sparingly cultivated for this purpose.

SHINGLE OAK—*Q. Imbricaria*.—Is a tree of medium size, found sparingly as far north as Wisconsin. It is ornamental, and the wood is used for shingles and staves.

SCARLET OAK—*Q. Coccinea*.—This is an ornamental tree, especially in autumn, when its leaves turn scarlet, hence the name. Wood of little value; common.

SUGAR MAPLE—*Acer Saccharium*.—This well-known and noble tree is found growing abundantly in many sections of the state. The wood is close-grained and susceptible of a beautiful polish, which renders it valuable for many kinds of furniture, more especially the varieties known as bird's-eye and curled maples. The wood lacks the durability of the oak; consequently is not valuable for purposes where it will be exposed to the weather. For fuel it ranks next to hickory. The sugar manufactured from this tree affords no inconsiderable resource for the comfort and even wealth of many sections of the northern states, especially those newly settled, where it would be difficult and expensive to procure their supply from a distance. As an ornamental tree it stands almost at the head of the catalogue. The foliage is beautiful, compact, and free from the attacks of insects. It puts forth its yellow blossoms early, and in the autumn the leaves change in color and show the most beautiful tints of red and yellow long before they fall. Worthy of especial attention for fuel and ornament, and well adapted to street-planting.

RED MAPLE—*A. Rubrum*.—Is another fine maple of more rapid growth than the foregoing species. With wood rather lighter, but quite as valuable for cabinet-work — for fuel not quite so good. The young trees bear transplanting even better than other maples. Though highly ornamental, this tree hardly equals the first-named species. It puts forth, in early spring, its scarlet blossoms before a leaf has yet appeared. Well adapted to street-planting.

MOUNTAIN MAPLE—*A. Spicatum*.—Is a small branching tree, or rather shrub, found growing in clumps. Not worthy of much attention.

SILVER MAPLE—*A. Dasycarpum*.—This is a common tree growing on the banks of streams, especially in the western part of the state, grown largely for ornament, yet for the purpose it is the least valuable of the maples. The branches are long and straggling, and so brittle that they are liable to be injured by winds.

BOX MAPLE—*Negundo Aceroides*.—This tree is frequently called box elder. It is of a rapid growth and quite ornamental. The wood is not much used in the arts, but is good fuel. Should be cultivated. It grows on Sugar and Rock rivers.

WHITE ELM—*Ulmus Americana*.—This large and graceful tree stands confessedly at the head of the list of ornamental deciduous trees. Its wide-spreading branches and long, pendulous branchlets form a beautiful and conspicuous head. It grows rapidly, is free from disease and the destructive attacks of insects, will thrive on most soils, and for planting along streets, in public grounds or lawns, is unsurpassed by any American tree. The wood is but little used in the arts; makes good firewood; should be planted along all the roads and streets, near every dwelling, and on all public grounds.

SLIPPERY ELM—*U. Fulva*.—This smaller and less ornamental species is also common. The wood, however, is much more valuable than the white elm, being durable and splitting readily. It makes excellent rails, and is much used for the framework of buildings; valuable for fuel; should be cultivated.

WILD BLACK CHERRY—*Cerasus Serotina*.—This large and beautiful species of cherry is one of the most valuable of American trees. The wood is compact, fine-grained, and of a brilliant reddish color, not liable to warp, or shrink and swell with atmospheric changes; extensively employed by cabinet-makers for every species of furnishing. It is exceedingly durable, hence is valuable for fencing, building, etc. Richly deserves a place in the lawn or timber plantation.

BIRD CHERRY—*C. Pennsylvanica*.—Is a small northern species, common in the state and worthy of cultivation for ornament.

CHOKE CHERRY—*C. Virginiana*.—This diminutive tree is of little value, not worth the trouble of cultivation.

WILD PLUM—*Prunus Americana*.—The common wild plum when in full bloom is one of the most ornamental of small flowering trees, and as such should not be neglected. The fruit is rather agreeable, but not to be compared to fine cultivated varieties, which may be engrafted on the wild stock to the very best advantage. It is best to select small trees, and work them on the roots. The grafts should be inserted about the middle of April.

HACKBERRY—*Celtis Occidentalis*.—This is an ornamental tree of medium size; wood hard, close-grained and elastic; makes the best of hoops, whip-stalks, and thills for carriages. The Indians formerly made great use of the hackberry wood for their bows. A tree worthy of a limited share of attention.

AMERICAN LINDEN OR BASSWOOD—*Tilia Americana*.—Is one of the finest ornamental trees for public grounds, parks, etc., but will not thrive where the roots are exposed to bruises; for this reason it is not adapted to planting along the streets of populous towns. The wood is light and tough, susceptible of being bent to almost any curve; durable if kept from the weather; takes paint well, and is considerably used in the arts; for fuel it is of little value. This tree will flourish in almost any moderately rich, damp soil; bears transplanting well; can be propagated readily from layers.

WHITE THORN—*Crataegus Coccinea*, and **DOTTED THORN**—*C. Punctata*.—These two species of thorn are found everywhere on the rich bottom lands. When in bloom they are beautiful, and should be cultivated for ornament. The wood is remarkably compact and hard, and were it not for the small size of the tree, would be valuable.

CRAB APPLE—*Pyrus Coriaria*.—This common small tree is attractive when covered with its highly fragrant rose-colored blossoms. Wood hard, fine, compact grain, but the tree is too small for the wood to be of much practical value. Well worthy of a place in extensive grounds.

MOUNTAIN ASH—*P. Americana*.—This popular ornament to our yards is found growing in the northern part of the state and as far south as 43°. The wood is useless.

WHITE ASH—*Fraxinus Acuminata*.—Is a large, interesting tree, which combines utility with beauty in an eminent degree. The wood possesses strength, suppleness and elasticity, which renders it valuable for a great variety of uses. It is extensively employed in carriage manufacturing; for various agricultural implements; is esteemed superior to any other wood for oars; excellent for fuel. The white ash grows rapidly, and in open ground forms one of the most lovely trees that is to be found. The foliage is clean and handsome, and in autumn turns from its bright green to a violet purple hue, which adds materially to the beauty of our autumnal sylvan scenery. It is richly deserving our especial care and protection, and will amply repay all labor and expense bestowed on its cultivation.

BLACK ASH—*F. Sambucifolia*.—This is another tall, graceful and well-known species of ash. The wood is used for making baskets, hoops, etc.; when thoroughly dry, affords a good article of fuel. Deserves to be cultivated in low, rich, swampy situations, where more useful trees will not thrive.

BLACK WALNUT—*Juglans Nigra*.—This giant of the rich alluvial bottom lands claims special attention for its valuable timber. It is among the most durable and beautiful of American woods; susceptible of a fine polish; not liable to shrink and swell by heat and moisture. It is extensively employed by the cabinet-makers for every variety of furniture. Walnut forks, are frequently found which rival in richness and beauty the far-famed mahogany. This tree, in favorable situations, grows rapidly; is highly ornamental, and produces annually an abundant crop of nuts.

BUTTERNUT—*J. Cinerea*.—This species of walnut is not as valuable as the above, yet for its beauty, and the durability of its wood, it should claim a small portion of attention. The wood is rather soft for most purposes to which it otherwise might be applied. When grown near streams, or on moist side-hills, it produces regularly an ample crop of excellent nuts. It grows rapidly.

SHELL-BARK HICKORY—*Carya Alba*.—This, the largest and finest of American hickories, grows abundantly throughout the state. Hickory wood possesses probably the greatest strength and tenacity of any of our indigenous trees, and is used for a variety of purposes, but, unfortunately, it is liable to be eaten by worms, and lacks durability. For fuel, the shell-bark hickory stands unrivaled. The tree is ornamental and produces every alternate year an ample crop of the best of nuts.

SHAG-BARK HICKORY—*C. Inclata*.—Is a magnificent tree, the wood of which is nearly as valuable as the above. The nuts are large, thick-shelled and coarse, not to be compared to the *C. alba*. A rare tree in Wisconsin; abundant further south.

PIGNOT HICKORY—*C. Glabra*.—This species possesses all the bad and but few of the good qualities of the shell-bark. The nuts are smaller and not so good. The tree should be preserved and cultivated in common with the shell-bark. Not abundant.

BITTERNUT—*C. Amara*.—Is an abundant tree, valuable for fuel, but lacking the strength and elasticity of the preceding species. It is, however, quite as ornamental as any of the hickories.

RED BEECH—*Fagus Ferruginea*.—This is a common tree, with brilliant, shining light-green leaves, and long, flexible branches. It is highly ornamental, and should be cultivated for this purpose, as well as for its useful wood, which is tough, close-grained and compact. It is much used for plane-stocks, tool handles, etc., and as an article of fuel is nearly equal to maple.

WATER BECH—*Carpinus Americana*.—Is a small tree, called hornbeam by many. The wood is exceedingly hard and compact, but the small size of the tree renders it almost useless.

IRON WOOD—*Ostrya Virginia*.—This small tree is found disseminated throughout most of our woodlands. It is, to a considerable degree, ornamental, but of remarkably slow growth. The wood possesses valuable properties, being heavy and strong, as the name would indicate; yet, from its small size, it is of but little use.

BALSAM POPLAR—*Populus Canadensis*.—This tree is of medium size, and is known by several names: Wild balm of Gilead, cottonwood, etc. It grows in moist, sandy soil, on river bottoms. It has broad, heart-shaped leaves, which turn a fine yellow after the autumn frosts. It grows more rapidly than any other of our trees; can be transplanted with entire success when eight or nine inches in diameter, and makes a beautiful shade tree—the most ornamental of poplars. The wood is soft, spongy, and nearly useless.

QUAKING ASPEN—*P. Tremuloides*.—Is a well-known, small tree. It is rather ornamental, but scarcely worth cultivating.

LARGE ASPEN—*P. Grandidentata*.—Is the largest of our poplars. It frequently grows to the height of sixty or seventy feet, with a diameter of two and one-half feet. The wood is soft, easily split, and used for frame buildings. It is the most durable of our poplars.

COTTON WOOD—*P. Monilifera*.—This is the largest of all the poplars; abundant on the Mississippi river. Used largely for fuel on the steamboats. The timber is of but little use in the arts.

SYCAMORE OR BUTTONWOOD—*Platanus Occidentalis*.—This, the largest and most majestic of our trees, is found growing only on the rich alluvial river bottoms. The tree is readily known, even at a considerable distance, by its whitish smooth branches. The foliage is large and beautiful, and the tree one of the most ornamental known. The wood speedily decays, and when sawed into lumber warps badly; on these accounts it is but little used, although susceptible of a fine finish. As an article of fuel it is of inferior merit.

CANOE BIRCH—*Betula Papyracea*.—Is a rather elegant and interesting tree. It grows abundantly in nearly every part of the state. The wood is of a fine glossy grain, susceptible of a good finish, but lacks durability and strength, and, therefore, is but little used in the mechanical arts. For fuel it is justly prized. It bears transplanting without difficulty. The Indians manufacture their celebrated bark canoes from the bark of this tree.

CHERRY BIRCH—*B. Lenta*.—This is a rather large, handsome tree, growing along streams. Leaves and bark fragrant. Wood, fine-grained, rose-colored; used largely by the cabinet-makers.

YELLOW BIRCH—*B. Lutea*.—This beautiful tree occasionally attains a large size. It is highly ornamental, and is of value for fuel; but is less prized than the preceding species for cabinet work.

KENTUCKY COFFEE TREE—*Gymnocladus Canadensis*.—This singularly beautiful tree is only found sparingly, and on rich alluvial lands. I met with it growing near the Peccatonica, in Green county. The wood is fine-grained, and of a rosy hue; is exceedingly durable, and well worth cultivating.

JUNE BERRY—*Amelanchier Canadensis*.—Is a small tree which adds materially to the beauty of our woods in early spring, at which time it is in full bloom. The wood is of no particular value, and the tree interesting only when covered with its white blossoms.

WHITE PINE—*Pinus Strobus*.—This is the largest and most valuable of our indigenous pines. The wood is soft, free from resin, and works easily. It is extensively employed in the mechanical arts. It is found in great profusion in the northern parts of the state. This species is readily known by the leaves being in fives. It is highly ornamental, but in common with all pines, will hardly bear transplanting. Only small plants should be moved.

NORWAY OR RED PINE—*P. Resinosa*, and **YELLOW PINE**—*P. Millis*.—These are two large trees, but little inferior in size to the white pine. The wood contains more resin, and is consequently more durable. The leaves of both these species are in twos. Vast quantities of lumber are yearly manufactured from these two varieties and the white pine. The extensive pineries of the state are rapidly diminishing.

SHRUB PINE—*P. Banksiana*.—Is a small, low tree; only worthy of notice here for the ornamental shade it produces. It is found in the northern sections of the state.

BALSAM FIR—*Abies Balsamea*.—This beautiful evergreen is multiplied to a great extent on the shores of Lake Superior, where it grows forty or fifty feet in height. The wood is of but

little value. The balsam of fir, or Canadian balsam, is obtained from this tree.

DOUBLE SPRUCE—*A. Nigra*.—This grows in the same localities with the balsam fir, and assumes the same pyramidal form, but is considerably larger. The wood is light and possesses considerable strength and elasticity, which renders it one of the best materials for yards and top-masts for shipping. It is extensively cultivated for ornament.

HEMLOCK—*A. Canadensis*.—The hemlock is the largest of the genus. It is gracefully ornamental, but the wood is of little value. The bark is extensively employed in tanning.

TAMARACK—*Larix Americana*.—This beautiful tree grows abundantly in swampy situations throughout the state. It is not quite an evergreen. It drops its leaves in winter, but quickly recovers them in early spring. The wood is remarkably durable and valuable for a variety of uses. The tree grows rapidly, and can be successfully cultivated in peaty situations, where other trees would not thrive.

ARBOR VITÆ—*Thuja Occidentalis*.—This tree is called the white or flat cedar. It grows abundantly in many parts of the state. The wood is durable, furnishing better fence posts than any other tree, excepting the red cedar. Shingles and staves of a superior quality are obtained from these trees. A beautiful evergreen hedge is made from the young plants, which bear transplanting better than most evergreens. It will grow on most soils if sufficiently damp.

RED CEDAR—*Juniperus Virginiana*.—Is a well known tree that furnishes those celebrated fence posts that "last forever." The wood is highly fragrant, of a rich red color, and fine grained; hence it is valuable for a variety of uses. It should be extensively cultivated.

DWARF JUNIPER—*J. Sabina*.—This is a low trailing shrub. Is considerably prized for ornament. Especially worthy of cultivation in large grounds.

SASSAFRAS—*Sassafras officinale*.—Is a small tree of fine appearance, with fragrant leaves and bark. Grows in Kenosha county. Should be cultivated.

WILLOWS.—There are many species of willows growing in every part of the state, several of which are worthy of cultivation near streams and ponds.

WHITE WILLOW—*Salix alba*.—Is a fine tree, often reaching sixty feet in height. The wood is soft, and makes the best charcoal for the manufacture of gun-powder. Grows rapidly.

BLACK WILLOW—*S. Nigra*.—This is also a fine tree, but not quite so large as the foregoing. It is used for similar purposes.

There are many shrubs and vines indigenous to the state worthy of note. I shall, however, call attention to only a few of the best.

DOGWOODS.—There are several species found in our forests and thickets. All are ornamental when covered with a profusion of white blossoms. I would especially recommend: *cornus sericea*, *C. stolonifera*, *C. paniculata*, and *C. alternifolia*. All these will repay the labor of transplanting to ornamental grounds.

VIBURNUMS.—These are very beautiful. We have *riburnum lentago*, *V. prunifolium*, *V. nudum*, *V. dentatum*, *V. pubescens*, *V. acerifolium*, *V. pauciflorum*, and *V. opulus*. The last is known as the cranberry tree, and is a most beautiful shrub when in bloom, and also when covered with its red, acid fruit. The common snow-ball tree is a cultivated variety of the *V. opulus*.

WITCH HAZEL—*Hamamelis Virginica*.—Is an interesting, tall shrub that flowers late in autumn, when the leaves are falling, and matures the fruit the next summer. It deserves more attention than it receives.

BURNING BUSH—*Euonymus atropurpureus*.—This fine shrub is called the American strawberry, and is exceedingly beautiful when covered with its load of crimson fruit, which remains during winter.

SUMACH — *Rhus typhina*. — Is a tall shrub, well known, but seldom cultivated. When well grown it is ornamental and well adapted for planting in clumps.

HOP TRELL — *Ptelea trifoliata*. — This is a showy shrub with shining leaves, which should be cultivated. Common in rich, alluvial ground.

BLANDBER NUT — *Staphylea trifolia*. — Is a fine, upright, showy shrub, found sparingly all over the state. Is ornamental, with greenish striped branches and showy leaves.

VINES.

VIRGINIA CREEPER — *Ampelopsis quinquefolia*. — This is a noble vine, climbing extensively by disc-bearing tendrils, so well known as to require no eulogy. Especially beautiful in its fall colors.

BITTER SWEET — *Celastrus scandens*. — Is a stout twining vine, which would be an ornament to any grounds. In the fall and early winter it is noticeable for its bright fruit. Common.

YELLOW HONEYSUCKLE — *Lonicera flava*. — Is a fine native vine, which is found climbing over tall shrubs and trees. Ornamental. There are several other species of honeysuckle; none, however, worthy of special mention.

FROST GRAPE — *Vitis cordifolia*. — This tall-growing vine has deliciously sweet blossoms, which perfume the air for a great distance around. For use as a screen, this hardy species will be found highly satisfactory.

FAUNA OF WISCONSIN.

By P. R. HOV, M.D.

FISH AND FISH CULTURE.

Fish are cold blooded aquatic vertebrates, having fins as organs of progression. They have a two-chambered heart; their bodies are mostly covered with scales, yet a few are entirely naked, like catfish and eels; others again are covered with curious plates, such as the sturgeon. Fish inhabit both salt and fresh water. It is admitted by all authority that fresh-water fish are more universally edible than those inhabiting the ocean. Marine fish are said to be more highly flavored than those inhabiting fresh waters; an assertion I am by no means prepared to admit. As a rule, fish are better the colder and purer the water in which they are found, and where can you find those conditions more favorable than in the cold depths of our great lakes? We have tasted, under the most favorable conditions, about every one of the celebrated salt-water fish, and can say that whoever eats a whitefish just taken from the pure, cold water of Lake Michigan will have no reason to be envious of the dwellers by the sea.

Fish are inconceivably prolific; a single female deposits at one spawn from one thousand to one million eggs, varying according to species.

Fish afford a valuable article of food for man, being highly nutritious and easy of digestion; they abound in phosphates, hence are valuable as affording nutrition to the osseous and nervous system, hence they have been termed, not inappropriately, brain food—certainly a very desirable article of diet for some people. They are more savory, nutritious and easy of digestion when just taken from the water; in fact, the sooner they are cooked after being caught the better. No fish should be more than a few hours from its watery element before being placed upon the table. For convenience, I will group our fish into families as a basis for what I shall offer. Our bony fish,

having spine rays and covered with comb-like scales, belong to the perch family—a valuable family; all take the hook, are gamey, and spawn in the summer.

The yellow perch and at least four species of black or striped bass have a wide range, being found in all the rivers and lakes in the state. There is a large species of fish known as Wall-eyed pike (*Leucoperca americanii*) belonging to this family, which is found sparingly in most of our rivers and lakes. The pike is an active and most rapacious animal, devouring fish of considerable size. The flesh is firm and of good flavor. It would probably be economical to propagate it to a moderate extent.

The six-spined bass (*Pomoxys hexacanthus*, Agas.) is one of the most desirable of the spine-rayed fish found in the State. The flesh is fine flavored, and as the fish is hardy and takes the hook with avidity, it should be protected during the spawning season and artificially propagated. I have examined the stomachs of a large number of these fish and in every instance found small crawfish, furnishing an additional evidence in its favor. Prof. J. P. Kirtland, the veteran ichthyologist of Ohio, says that this so-called "grass bass" is the fish for the million.

The white bass (*Kococcus chrysops*) is a species rather rare even in the larger bodies of water, but ought to be introduced into every small lake in the State, where I am certain they would flourish. It is an excellent fish, possessing many of the good qualities and as few of the bad as any that belong to the family. There is another branch of this family, the sunfish, *Pomotis*, which numbers at least six species found in Wisconsin. They are beautiful fish, and afford abundant sport for the boys; none of them, however, are worth domesticating (unless it be in the aquarium) as there are so many better.

The carp family (*Cyprinidae*) are soft finned fish without maxillary teeth. They include by far the greater number of fresh-water fish. Some specimens are not more than one inch, while others are nearly two feet in length. Our chubs, silversides and suckers are the principal members of this family. Dace are good pan-fish, yet their small size is objectionable; they are the children's game fish. The *Cyprinidae* all spawn in the spring, and might be profitably propagated as food for the larger and more valuable fish.

There are six or seven species of suckers found in our lakes and rivers. The red horse, found every where, and at least one species of the buffalo, inhabiting the Mississippi and its tributaries, are the best of the genus *Catostomus*. Suckers are bony, and apt to taste suspiciously of mud; they are only to be tolerated in the absence of better. The carp (*Cyprinius carpo*) has been successfully introduced into the Hudsonriver.

The trout family (*Salmonidae*) are soft-finned fish with an extra dorsal adipose fin without rays. They inhabit northern countries, spawning in the latter part of fall and winter. Their flesh is universally esteemed. The trout family embrace by far the most valuable of our fish, including, as it does, trout and whitefish. The famous speckled trout (*Salmo fontinalis*) is a small and beautiful species which is found in nearly every stream in the northern half of the State. Wherever there is a spring run or lake, the temperature of which does not rise higher than sixty-five or seventy in the summer, there trout can be propagated in abundance. The great salmon trout (*Sal. amethystus*) of the great lakes is a magnificent fish weighing from ten to sixty pounds. The *Siscowit salmo siscowit* of Lake Superior is about the same size, but not quite so good a fish, being too fat and oily. They will, no doubt, flourish in the larger of the inland lakes.

The genus *Coregonus* includes the true whitefish, or lake shad. In this genus, as now restricted, the nose is square and the under jaw short, and when first caught they have the fragrance of fresh cucumbers. There are at least three species found in Lake Michigan. In my

opinion these fish are more delicately flavored than the celebrated Potomac shad; but I doubt whether they will thrive in the small lakes, owing to the absence of the small *crustacea* on which they subsist. The closely allied genus *Argyrosomus* includes seven known species inhabiting the larger lakes, and one, the *Argyrosomus sisco*, which is found in several of the lesser lakes. The larger species are but little inferior to the true whitefish, with which they are commonly confounded. The nose is pointed, the under jaw long, and they take the hook at certain seasons with activity. They eat small fish as well as insects and *crustaceans*.

Of the pickerel family, we have three or four closely allied species of the genus *Esox*, armed with prodigious jaws filled with cruel teeth. They lie motionless ready to dart, swift as an arrow, upon their prey. They are the sharks of the fresh water. The pickerel are so rapacious that they spare not their own species. Sometimes they attempt to swallow a fish nearly as large as themselves, and perish in consequence. Their flesh is moderately good, and as they are game to the backbone, it might be desirable to propagate them to a moderate extent under peculiar circumstances.

The catfish (*Siluridae*) have soft fins, protected by sharp spines, and curious fleshy barbels floating from their lips, without scales, covered only with a slimy coat of mucus. The genus *Pimelodus* are scavengers among fish, as vultures among birds. They are filthy in habit and food. There is one interesting trait of the catfish—the vigilant and watchful motherly care of the young by the male. He defends them with great spirit, and herds them together when they straggle. Even the mother is driven far off; for he knows full well that she would not scruple to make a full meal off her little black tadpole-like progeny. There are four species known to inhabit this State—one peculiar to the great lakes, and two found in the numerous affluents of the Mississippi. One of these, the great yellow catfish, sometimes weighs over one hundred pounds. When in good condition, stuffed and well baked, they are a fair table fish. The small bull-head is universally distributed.

The sturgeons are large sluggish fish, covered with plates instead of scales. There are at least three species of the genus *Acipenser* found in the waters of Wisconsin. Being so large and without bones, they afford a sufficiently cheap article of food; unfortunately, however, the quality is decidedly bad. Sturgeons deposit an enormous quantity of eggs; the roe not unfrequently weighs one fourth as much as the entire body, and numbers, it is said, many millions. The principal commercial value of sturgeons is found in the roe and swimming bladder. The much prized caviare is manufactured from the former, and from the latter the best of isinglass is obtained.

The gar-pikes (*Lepidosteus*) are represented by at least three species of this singular fish. They have long serpentine bodies, with jaws prolonged into a regular bill, which is well provided with teeth. The scales are composed of bone covered on the outside with enamel, like teeth. The alligator gar, confined to the depths of the Mississippi, is a large fish, and the more common species, *Lepidosteus bison*, attains to a considerable size. The *Lepidosteus*, now only found in North America, once had representatives all over the globe. Fossils of the same family of which the gar-pike is the type, have been found all over Europe, in the oldest fossiliferous beds, in the strata of the age of coal, in the new red sandstone, in oolitic deposits, and in the chalk and tertiary formations—being one of the many living evidences that North America was the first country above the water. For all practical purposes, we should not regret to have the gar-pikes follow in the footsteps of their aged and illustrious predecessors. They could well be spared.

There is a fish (*Lota maculosa*) which belongs to the cod-fish family, called by the fishermen the "lawyers," for what reason I am not able to say—at any rate, the fish is worthless. There are a great number of small fish, interesting only to the naturalist, which I shall omit to mention here.

Fish of the northern countries are the most valuable, for the reason that the water is colder and purer. Wisconsin, situated between forty-two thirty, and forty-seven degrees of latitude, bounded on the east and north by the largest lakes in the world, on the west by the "Great river," traversed by numerous fine and rapid streams, and sprinkled all over with beautiful and picturesque lakes, has physical conditions certainly the most favorable, perhaps of any State, for an abundant and never-failing supply of the best fish. Few persons have any idea of the importance of the fisheries of Lake Michigan. It is difficult to collect adequate data to form a correct knowledge of the capital invested and the amount of fish taken; enough, however, has been ascertained to enable me to state that at Milwaukee alone \$100,000 are invested, and not less than two hundred and eighty tons of dressed fish taken annually. At Racine, during the entire season of nine months, there are, on an average, one thousand pounds of whitefish and trout, each, caught and sold daily, amounting to not less than \$16,000. It is well known that, since the adoption of the gill-net system, the fishermen are enabled to pursue their calling ten months of the year.

When the fish retire to the deep water, they are followed with miles of nets, and the poor fish are entangled on every side. There is a marked falling off in the number and size of whitefish and trout taken, when compared with early years. When fish were only captured with seines, they had abundant chance to escape and multiply so as to keep an even balance in number. Only by artificial propagation and well enforced laws protecting them during the spawning season, can we hope now to restore the balance. In order to give some idea of the valuable labors of the state fish commissioners, I will state briefly that they have purchased for the state a piece of property, situated three miles from Madison, known as the Nine Springs, including forty acres of land, on which they have erected a dwelling-house, barn and hatchery, also constructed several ponds, in which can be seen many valuable fish in the enjoyment of perfect health and vigor. As equipped, it is, undoubtedly, one of the best, if not *the best*, hatchery in the states. In this permanent establishment the commission design to hatch and distribute to the small lakes and rivers of the interior the most valuable of our indigenous fish, such as bass, pike, trout, etc., etc., as well as many valuable foreign varieties. During the past season, many fish have been distributed from this state hatchery. At the Milwaukee Water Works, the commission have equipped a hatchery on a large scale, using the water as pumped directly from the lake. During the past season there was a prodigious multitude of young trout and whitefish distributed from this point. The success of Superintendent Welcher in hatching whitefish at Milwaukee has been the best yet gained, nearly ninety per cent. of the eggs "laid down" being hatched. Pisciculturists will appreciate this wonderful success, as they well know how difficult it is to manage the spawn of the whitefish.

I append the following statistics of the number of fish hatched and distributed from the Milwaukee hatchery previous to 1878:

Total number of fish hatched, 8,000,000—whitefish, 6,300,000; salmon trout, 1,700,000.

They were distributed as follows, in the month of May, 1877: Whitefish planted in Lake Michigan, at Racine, 1,000,000; at Milwaukee, 3,260,000; between Manitowoc and Two Rivers 1,000,000; in Green bay, 1,000,000; in Elkhart lake, 40,000.

Salmon trout were turned out as follows: Lake Michigan, near Milwaukee, 600,000; Brown's lake, Racine county, 40,000; Delavan lake, Walworth county, 40,000; Troy lake, Walworth county, 40,000; Pleasant lake, Walworth county, 40,000; Lansdale lake, Walworth county, 40,000; Ella lake, Milwaukee county, 16,000; Cedar lake, Washington county, 40,000; Elkhart lake, Sheboygan county, 40,000; Clear lake, Rock county, 40,000; Ripley lake,

Jefferson county, 40,000; Mendota lake, Dane county, 100,000; Fox lake, Dodge county, 40,000; Swan and Silver lakes, Columbia county, 40,000; Little Green lake, Green Lake county, 40,000; Big Green lake, Green Lake county, 100,000; Bass lake, St. Croix county, 40,000; Twin lakes, St. Croix county, 40,000; Long lake, Chippewa county, 40,000; Oconomowoc lake, Waukesha county, 100,000; Pine lake, Waukesha county, 40,000; Pewaukee lake, Waukesha county, 100,000; North lake, Waukesha county, 40,000; Nagawicka lake, Waukesha county, 40,000; Okanache lake, Waukesha county, 40,000.

LARGE ANIMALS.—TIME OF THEIR DISAPPEARANCE.

Fifty years ago, the territory now included in the state of Wisconsin, was nearly in a state of nature, all the large wild animals were then abundant. Now, all has changed. The ax and plow, gun and dog, railway and telegraph, have metamorphosed the face of nature. Most of the large quadrupeds have been either exterminated, or have hid themselves away in the wilderness. In a short time, all of these will have disappeared from the state. The date and order in which animals become extinct within the boundaries of the state, is a subject of great interest. There was a time when the antelope, the woodland caribou, the buffalo, and the wild turkey, were abundant, but are now no longer to be found.

The Antelope, *Antilocarpa Americana*, now confined to the Western plains, did, two hundred years ago, inhabit Wisconsin as far east as Michigan. In October, 1679, Father Hennepin, with La Salle and party, in four canoes, coasted along the Western shore of Lake Michigan. In Hennepin's narrative, he says: "The oldest of them" (the Indians) "came to us the next morning with their calumet of peace, and brought some *wild goats*." This was somewhere north of Milwaukee. "Being in sore distress, we saw upon the coast a great many ravens and eagles" (turkey vultures), "from whence we conjectured there was some prey, and having landed upon that place, we found above the half of a fat *wild goat*, which the wolves had strangled. This provision was very acceptable to us, and the rudest of our men could not but praise the Divine Providence which took so particular care of us." This must have been somewhere near Racine. "On the 16th" (October, 1679), "we met with abundance of game. A savage we had with us, killed several stags (deer) and *wild goats*, and our men a great many turkeys, very fat and big." This must have been south of Racine. These *goats* were undoubtedly antelopes. Schoolcraft mentions antelopes as occupying the Northwest territory.

When the last buffalo crossed the Mississippi is not precisely known. It is certain they lingered in Wisconsin in 1825. It is said there was a buffalo shot on the St. Croix river as late as 1832, so Wisconsin claims the last buffalo. The woodland caribou—*Rangifer caribou*—were never numerous within the limits of the state. A few were seen not far from La Pointe in 1845. The last wild turkey in the eastern portion of the state, was in 1846. On the Mississippi, one was killed in 1856. I am told by Dr. Wadcott, that turkeys were abundant in Wisconsin previous to the hard winter of 1842-3, when snow was yet two feet deep in March, with a stout crust, so that the turkeys could not get to the ground. They became so poor and weak, that they could not fly, and thus became an easy prey to the wolves, foxes, wild cats, minks, etc., which exterminated almost the entire race. The Doctor says he saw but one single individual the next winter. Elk were on Hay river in 1863, and I have little doubt a few yet remain. Moose are not numerous, a few yet remain in the northwestern part of the state. I saw moose tracks on the Montreal river, near Lake Superior, in the summer of 1845. A few panthers may still inhabit the wilderness of Wisconsin. Benjamin Bones, of Racine, shot one on the headwaters of

Black river, December, 1863. Badgers are now nearly gone, and in a few years more, the only badgers found within the state, will be two legged ones. Beavers are yet numerous in the small lakes in the northern regions. Wolverines are occasionally met with in the northern forests. Bears, wolves, and deer, will continue to flourish in the northern and central counties, where underbrush, timber, and small lakes abound.

All large animals will soon be driven by civilization out of Wisconsin. The railroad and improved firearms will do the work, and thus we lose the primitive denizens of the forest and prairies.

PECULIARITIES OF THE BIRD FAUNA.

The facts recorded in this paper, were obtained by personal observations within fifteen miles of Racine, Wisconsin, latitude 42° 46' north, longitude 87° 48' west. This city is situated on the western shore of Lake Michigan, at the extreme southern point of the heavy lumbered district, the base of which rests on Lake Superior. Racine extends six miles further into the lake than Milwaukee, and two miles further than Kenosha. At this point the great prairie approaches near the lake from the west. The extreme rise of the mercury in summer, is from 90° to 100° Fahrenheit. The isothermal line comes further north in summer, and retires further south in winter than it does east of the great lakes, which physical condition will sufficiently explain the remarkable peculiarities of its animal life, the overlapping, as it were, of two distinct faunas. More especially is this true of birds, that are enabled to change their locality with the greatest facility. Within the past thirty years, I have collected and observed over three hundred species of birds, nearly half of all birds found in North America. Many species, considered rare in other sections, are found here in the greatest abundance. A striking peculiarity of the ornithological fauna of this section, is that southern birds go farther north in summer, while northern species go farther south in winter than they do east of the lakes. Of summer birds that visit us, I will enumerate a few of the many that belong to a more southern latitude in the Atlantic States. Nearly all nest with us, or, at least, did some years ago.

Yellow-breasted chat, *Icteria virens*; mocking bird, *Mimus polyglottus*; great Carolina wren, *Thriothorus laticinctus*; prothonotary warbler, *Protonotaria citrea*; summer red bird, *Pyrrangia aséva*; wood ibis, *Tantalus loculator*.

Among Arctic birds that visit us in winter are:

Snowy owl, *Nyctea nivea*; great gray owl, *Syrnium cinereus*; hawk owl, *Surnia ulula*; Arctic three-toed woodpecker, *Picoides arcticus*; banded three-toed woodpecker, *Picoides hirsutus*; magpie, *Pica hudsonica*; Canada jay, *Perisoreus canadensis*; evening grosbeak, *Hesperiphona vespertina*; Hudson titmouse, *Parus hudsonicus*; king eider, *Somateria spectabilis*; black-throated diver, *Colymbus arcticus*; glaucous gull, *Larus glaucus*.

These examples are sufficient to indicate the rich avi fauna of Wisconsin. It is doubtful if there is another locality where the Canada jay and its associates visit in winter where the mocking bird nests in summer, or where the hawk owl flies silently over the spot occupied during the warmer days by the summer red bird and the yellow-breasted chat. But the axe has already leveled much of the great woods, so that there is now a great falling off in numbers of our old familiar feathered friends. It is now extremely doubtful if such a collection can ever again be made within the boundaries of this state, or indeed, of any other.

EDUCATIONAL HISTORY.

BY PROF. EDWARD SEARING, STATE SUPERINTENDENT OF PUBLIC INSTRUCTION.

From the time of the earliest advent of the families of French traders into the region now known as Wisconsin, to the year 1818, when that region became part of Michigan territory, education was mostly confined to private instruction, or was sought by the children of the wealthier in the distant cities of Quebec, Montreal, and Detroit. The early Jesuit missionaries, and—subsequently to 1816, when it came under the military control of the United States—representatives of various other religious denominations, sought to teach the Indian tribes of this section. In 1823, Rev. Eleazar Williams, well known for his subsequent claim to be the Dauphin of France, and who was in the employ of the Episcopal Missionary Society, started a school of white and half-breed children on the west side of Fox river, opposite "Shanty-Town." A Catholic mission school for Indians was organized by an Italian priest near Green Bay, in 1830. A clause of the treaty with the Winnebago Indians, in 1832, bound the United States to maintain a school for their children near Prairie du Chien for a period of twenty-seven years.

THE ORIGINAL SCHOOL CODE.

From 1818 to 1836, Wisconsin formed part of Michigan territory. In the year 1837, Michigan was admitted into the Union as a state, and Wisconsin, embracing what is now Minnesota, Iowa, and a considerable region still further westward, was, by act of congress approved April 20th of the year previous, established as a separate territory. The act provided that the existing laws of the territory of Michigan should be extended over the new territory so far as compatible with the provisions of the act, subject to alteration or repeal by the new government created. Thus with the other statutes, the school code of Michigan became the original code of Wisconsin, and it was soon formally adopted, with almost no change, by the first territorial legislature, which met at Belmont. Although modified in some of its provisions almost every year, this imperfect code continued in force until the adoption of the state constitution in 1848. The first material changes in the code were made by the territorial legislature at its second session, in 1837, by the passage of a bill "to regulate the sale of school lands, and to provide for organizing, regulating, and perfecting common schools." It was provided in this act that as soon as twenty electors should reside in a surveyed township, they should elect a board of three commissioners, holding office three years, to lay off districts, to apply the proceeds of the leases of school lands to the payment of teachers' wages, and to call school meetings. It was also provided that each district should elect a board of three directors, holding office one year, to locate school-houses, hire teachers for at least three months in the year, and levy taxes for the support of schools. It was further provided that a third board of five inspectors should be elected annually in each town to examine and license teachers and inspect the schools. Two years subsequently (1839) the law was revised and the family, instead of the electors, was made the basis of the town organization. Every town with not less than ten families was made a school district and required to provide a competent teacher. More populous towns were divided into two or more districts. The office of town commissioner was abolished, its duties with certain others being transferred to the inspectors. The rate-bill system of taxation, previously in existence, was repealed, and a tax on the whole county for building school-houses and support-

ing schools was provided for. One or two years later the office of town commissioners was restored, and the duties of the inspectors were assigned to the same. Other somewhat important amendments were made at the same time.

In 1840, a memorial to congress from the legislature represented that the people were anxious to establish a common-school system, with suitable resources for its support. From lack of sufficient funds many of the schools were poorly organized. The rate-bill tax or private subscription was often necessary to supplement the scanty results of county taxation. Until a state government should be organized, the fund accruing from the sale of school lands could not be available. Congress had made to Wisconsin, as to other new states, for educational purposes, a donation of lands. These lands embraced the sixteenth section in every township in the state, the 500,000 acres to which the state was entitled by the provisions of an act of congress passed in 1841, and any grant of lands from the United States, the purposes of which were not specified. To obtain the benefits of this large fund was a leading object in forming the state constitution.

AGITATION FOR FREE SCHOOLS.

Shortly before the admission of the state the subject of free schools began to be quite widely discussed. In February, 1845, Col. M. Frank, of Kenosha, a member of the territorial legislature, introduced a bill, which became a law, authorizing the legal voters of his own town to vote taxes on all the assessed property for the full support of its schools. A provision of the act required its submission to the people of the town before it could take effect. It met with strenuous opposition, but after many public meetings and lectures held in the interests of public enlightenment, the act was ratified by a small majority in the fall of 1845, and thus the first free school in the state was legally organized. Subsequently, in the legislature, in the two constitutional conventions, and in educational assemblies, the question of a free-school system for the new state soon to be organized provoked much interest and discussion. In the constitution framed by the convention of 1846, was provided the basis of a free-school system similar to that in our present constitution. The question of establishing the office of state superintendent, more than any other feature of the proposed school system, elicited discussion in that body. The necessity of this office, and the advantages of free schools supported by taxation, were ably presented to the convention by Hon. Henry Barnard, of Connecticut, in an evening address. He afterward prepared, by request, a draft of a free-school system, with a state superintendent at its head, which was accepted and subsequently embodied in the constitution and the school law. In the second constitutional convention, in 1848, the same questions again received careful attention, and the article on education previously prepared, was, after a few changes, brought into the shape in which we now find it. Immediately after the ratification by the people, of the constitution prepared by the second convention, three commissioners were appointed to revise the statutes. To one of these, Col. Frank, the needed revision of the school laws was assigned. The work was acceptably performed, and the new school code of 1849, largely the same as the present one, went into operation May first of that year.

THE SCHOOL SYSTEM UNDER THE STATE GOVERNMENT.

In the state constitution was laid the broad foundation of our present school system. The four corner stones were: (1) The guaranteed freedom of the schools; (2) the school fund created; (3) the system of supervision; (4) a state university for higher instruction. The school fund has five distinct sources for its creation indicated in the constitution: (1) Proceeds from the sale of lands granted to the state by the United States for educational purposes; (2)

all moneys accruing from forfeiture or escheat; (3) all fines collected in the several counties for breach of the penal laws; (4) all moneys paid for exemption from military duty; (5) five per cent. of the sale of government lands within the state. In addition to these constitutional sources of the school fund, another and sixth source was open from 1856 to 1870. By an act of the state legislature in the former year, three-fourths of the net proceeds of the sales of the swamp and overflowed lands, granted to the state by congress, Sept. 28, 1850, were added to the common-school fund, the other fourth going into a fund for drainage, under certain circumstances; but if not paid over to any town for that purpose within two years, to become a part of the school fund. The following year one of these fourths was converted into the normal-school fund, leaving one-half for the common-school fund. In 1858, another fourth was given to the drainage fund, thus providing for the latter one-half the income from the sales, and leaving for the school fund, until the year 1865, only the remaining one-fourth. In the latter year this was transferred to the normal-school fund, with the provision, however, that one-fourth of the income of this fund should be transferred to the common-school fund until the annual income of the latter fund should reach \$200,000. In 1870 this provision was repealed, and the whole income of the normal fund left applicable to the support of normal schools and teachers' institutes.

At the first session of the state legislature in 1848, several acts were passed which carried out in some degree the educational provisions of the constitution. A law was enacted to provide for the election, and to define the duties, of a state superintendent of public instruction. A district board was created, consisting of a moderator, director, and treasurer; the office of town superintendent was established, and provision was made for the creation of town libraries, and for the distribution of the school fund. The present school code of Wisconsin is substantially that passed by the legislature of 1848, and which went into operation May 1, 1849. The most important change since made was the abolition of the office of town superintendent, and the substitution thereof of the county superintendency. This change took effect January 1, 1862.

THE SCHOOL-FUND INCOME.

The first annual report of the state superintendent, for the year 1849, gives the income of the school fund for that year as \$588, or eight and three-tenth mills per child. Milwaukee county received the largest amount, \$69.63, and St. Croix county the smallest, twenty-four cents. The average in the state was forty-seven cents per district. The following table will show at a glance the quinquennial increase in the income of the fund, the corresponding increase in the number of school children, and the apportionment per child, from 1849 to 1875, inclusive; also, the last published apportionment, that for 1878. It will be seen that since 1855 the increase of the fund has not kept pace with the increase of school population:

YEAR.	NO. CHILDREN OF SCHOOL-AGE.	INCOME OF SCHOOL FUND.	RATE PER CHILD.	YEAR.	NO. CHILDREN OF SCHOOL-AGE.	INCOME OF SCHOOL FUND.	RATE PER CHILD.
1849..	70,457	\$588 00	\$ 0.83	1855..	335,522	151,816 34	.46
1850..	92,105	47,710 00	.52	1859..	412,181	159,271 38	.40
1855..	156,055	125,096 02	.67	1875..	450,394	184,121 64	.41
1860..	258,684	181,919 79	.64	1878..	478,012	185,546 01	.39

The amount of productive school fund reported September 30, 1878, was \$2,680,703.27. The portion of the fund not invested at that date, was \$58,823.70.

THE STATE UNIVERSITY.

In his message to the first territorial legislature, in 1836, Governor Dodge recommended asking from congress aid for the establishment of a state educational institution, to be governed by the legislature. This was the first official action looking to the establishment of a state university. The same legislature passed an act to establish and locate the Wisconsin university at Belmont, in the county of Iowa. At its second session, the following year, the legislature passed an act, which was approved January 19, 1838, establishing "at or near Madison, the seat of government, a university for the purpose of educating youth, the name whereof shall be 'The University of the Territory of Wisconsin.'" A resolution was passed at the same session, directing the territorial delegate in congress to ask of that body an appropriation of \$20,000 for the erection of the buildings of said university, and also to appropriate two townships of vacant land for its endowment. Congress accordingly appropriated, in 1838, seventy-two sections, or two townships, for the support of a "seminary of learning in the territory of Wisconsin," and this was afterward confirmed to the state for the use of the university. No effectual provision, however, was made for the establishment of the university until ten years later, when the state was organized. Congress, as has been said, had made a donation of lands to the territory for the support of such an institution, but these lands could not be made available for that purpose until the territory should become a state. The state constitution, adopted in 1848, declared that provision should be made for the establishment of a state university, and that the proceeds of all lands donated by the United States to the state for the support of a university should remain a perpetual fund, the interest of which should be appropriated to its support.

The state legislature, at its first session, passed an act, approved July 26, 1848, establishing the University of Wisconsin, defining its location, its government, and its various departments, and authorizing the regents to purchase a suitable site for the buildings, and to proceed to the erection of the same, after having obtained from the legislature the approval of plans. This act repealed the previous act of 1838. The regents were soon after appointed, and their first annual report was presented to the legislature, January 30, 1849. This report announced the selection of a site, subject to the approval of the legislature, announced the organization of a preparatory department, and the election of a chancellor or president. The university was thus organized, with John H. Lathrop, president of the University of Missouri, as its first chancellor, and John W. Sterling as principal of the preparatory department, which was opened February 5, 1849. Chancellor Lathrop was not formally inaugurated until January 16, 1850.

Owing to the short-sighted policy of the state in locating without due care, and in appraising and selling so low the lands of the original grant, the fund produced was entirely inadequate to the support of the institution. Congress, therefore, made, in 1854, an additional grant of seventy-two sections of land for its use. These, however, were located and sold in the same inconsiderate and unfortunate manner, for so low a price as to be a means of inducing immigration, indeed, but not of producing a fund adequate for the support of a successful state university. Of the 92,160 acres comprised in the two grants, there had been sold prior to September 30, 1866, 74,178 acres for the sum of \$264,370.13, or at an average price of but little more than \$3.50 per acre.* Besides this, the state had allowed the university to anticipate its income to the extent of over \$100,000 for the erection of buildings. By a law of 1862 the sum of \$104,339.43 was taken from its fund (already too small) to pay for these buildings. The resulting embarrassment made necessary the re-organization of 1866, which added to the slender resources of the institution the agricultural college fund, arising from the sale of lands donated to the state by the congressional act of 1862.

*Compare the price obtained for the lands of the University of Michigan. The first sale of those lands averaged \$22.85 per acre, and brought in a single year (1837) \$150,447.90. Sales were made in succeeding years at \$15, \$17, and \$19 per acre.

The first university building erected was the north dormitory, which was completed in 1851. This is 110 feet in length by 40 in breadth, and four stories in height. The south dormitory, of the same size, was completed in 1855. The main central edifice, known as University Hall, was finished in 1859. The Ladies' College was completed in 1872. This latter was built with an appropriation of \$50,000, made by the legislature in 1870—the first actual donation the university had ever received from the state. The legislature of 1875 appropriated \$80,000 for the erection of Science Hall, a building to be devoted to instruction in the physical sciences. This was completed and ready for occupancy at the opening of the fall term of 1877.

The growth of this institution during the past fourteen years, and especially since its reorganization in 1866, has been rapid and substantial. Its productive fund on the 30th day of September, 1877, aside from the agricultural college fund, was \$223,240 32. The combined university and agricultural funds amounted, at the same date, to \$464,032 22. An act of the legislature in 1867 appropriated to the university income for that year, and annually for the next ten years, the sum of \$7,303,76, being the interest upon the sum taken from the university fund by the law of 1862 for the erection of buildings, as before mentioned. Chapter 100 of the general laws of 1872 also provided for an annual state tax of \$10,000 to increase the income of the university. Chapter 119 of the laws of 1876 provides for an annual state tax of one-tenth of one mill on the taxable property of the state for the increase of the university fund income; this tax to be "*in lieu* of all other appropriations before provided for the benefit of said fund," and to be "deemed a full compensation for all deficiencies in said income arising from the disposition of the lands donated to the state by congress, in trust, for the benefit of said income." The entire income of the university from all sources, including this tax (which was \$42,359.62), was, for the year ending September 30, 1878, \$81,442.63. The university has a faculty of over thirty professors and instructors, and during the past year—1877-8—it had in its various departments 388 students. The law department, organized in 1868, has since been in successful operation. Ladies are admitted into all the departments and classes of the university.

AGRICULTURAL COLLEGE.

The agricultural college fund, granted to the state by the congressional act of 1862, was by a subsequent legislative enactment (1866) applied to the support, not of a separate agricultural college, but of a department of agriculture in the existing university, thus rendering it unnecessary for the state to erect separate buildings elsewhere. Under the provisions of chapter 114, laws of 1866, the county of Dane issued to the state, for the purpose of purchasing an experimental farm, bonds to the amount of \$40,000. A farm of about 200 acres, adjoining the university grounds, was purchased, and a four years' course of study provided, designed to be thorough and extensive in the branches that relate to agriculture, in connection with its practical application upon the experimental farm.

The productive agricultural college fund has increased from \$8,061.86, in 1866, to \$244,263.18, in 1878.

NORMAL SCHOOLS.

The propriety of making some special provision for the instruction of teachers was acknowledged in the very organization of the state, a provision for normal schools having been embodied in the constitution itself, which ordains that after the support and maintenance of the

common schools is insured, the residue of the school fund shall be appropriated to academies and normal schools. The state legislature, in its first session in 1848, in the act establishing the University of Wisconsin, declared that one of the four departments thereof should be a department of the theory and practice of elementary instruction. The first institution ever chartered in the state as a normal school was incorporated by the legislature at its second session — 1849 — under the title of the "Jefferson County Normal School." This, however, was never organized.

The regents, when organizing the university, at their meeting in 1849, ordained the establishment of a normal professorship, and declared that in organizing the normal department it was their fixed intention "to make the University of Wisconsin subsidiary to the great cause of popular education, by making it, through its normal department, the nursery of the educators of the popular mind, and the central point of union and harmony to the educational interests of the commonwealth." They declared that instruction in the normal department should be free to all suitable candidates. Little was accomplished, however, in this direction during the next ten years. In 1857 an act was passed by the legislature appropriating twenty-five per cent. of the income of the swamp-land fund "to normal institutes and academies under the supervision and direction of a board of regents of normal schools," who were to be appointed in accordance with the provisions of the act. Distribution of this income was made to such colleges, academies, and high schools as maintained a normal class, in proportion to the number of pupils passing a successful examination conducted by an agent of the board. In 1859, Dr. Henry Barnard, who had become chancellor of the university, was made agent of the normal regents. He inaugurated a system of teachers' institutes, and gave fresh vigor to the normal work throughout the state. Resigning, however, on account of ill-health, within two years, Professor Chas. H. Allen, who had been conducting institutes under his direction, succeeded him as agent of the normal regents, and was elected principal of the normal department of the university, entering upon his work as the latter in March, 1864. He managed the department with signal ability and success, but at the end of one or two years resigned. Meantime the educational sentiment of the state had manifested itself for the establishment of separate normal schools.

In 1865, the legislature passed an act repealing that of two years before, and providing instead that one-half of the swamp-land fund should be set apart as a normal-school fund, the income of which should be applied to establishing and supporting normal schools under the direction and management of the board of normal regents, with a proviso, however, that one-fourth of such income should be annually transferred to the common-school fund income, until the latter should amount annually to \$200,000. This proviso was repealed by the legislature of 1870, and the entire income of one-half the swamp-land fund has since been devoted to normal-school purposes. During the same year proposals were invited for aid in the establishment of a normal school, in money, land, or buildings, and propositions from various places were received and considered. In 1866, the board of regents was incorporated by the legislature. In the same year Platteville was conditionally selected as the site of a school, and as there was already a productive fund of about \$600,000, with an income of over \$30,000, and a prospect of a steady increase as the lands were sold, the board decided upon the policy of establishing several schools, located in different parts of the state. In pursuance of this policy, there have already been completed, and are now in very successful operation, the Platteville Normal School, opened October 9, 1866; the Whitewater Normal School, opened April 21, 1868; the Oshkosh Normal School, opened September 19, 1871, and the River Falls Normal School, opened September 2, 1875. Each assembly district in the state is entitled to eight representatives in the normal schools. These are nominated by county and city superintendents. Tuition is free to all normal students. There are in the normal schools two courses of study — an

Elementary course of two years, and an *advanced course* of four years. The student completing the former, receives a certificate; the one completing the latter, a diploma. The certificate, when the holder has successfully taught one year after graduation, may be countersigned by the superintendent of public instruction, when it becomes equivalent to a five-years' state certificate. The diploma, when thus countersigned, after a like interval, is equivalent to a permanent state certificate.

It is believed that the normal-school system of Wisconsin rests upon a broader and more secure basis than the corresponding system of any other state. That basis is an independent and permanent fund, which has already reached a million dollars. The precise amount of this securely invested and productive fund, September 30, 1878, was \$1,004,907.67, and the sum of \$33,290.83 remained uninvested.

TEACHERS' INSTITUTES.

In addition to the work of the normal schools, the board of regents is authorized to expend \$5,000 annually to defray the expenses of teachers' institutes. A law of 1871, amended in 1876, provides for normal institutes, which shall be held for not less than two consecutive weeks, and appropriates from the state treasury a sum not exceeding \$2,000 per annum for their support. There were held in the State, in 1878, sixty-six institutes, varying in length from one to two weeks. The total number of persons enrolled as attendants was 4,944.

GRADED SCHOOLS.

Including those in the cities, the graded schools of the State number about four hundred. The annual report of the State superintendent for 1878 gives the number with two departments as 207, and the number with three or more as 225.

A law of March, 1872, provided that "all graduates of any graded school of the state, who shall have passed an examination at such graded school satisfactory to the faculty of the university for admission into the sub-freshman class and college classes of the university, shall be at once and at all times entitled to free tuition in all the colleges of the university." A considerable number of graduates of graded schools entered the university under this law during the next four years, but it being deemed an unwise discrimination in favor of this class of students, in 1876, in the same act which provided for the tax of one tenth of one mill, the legislature provided that from and after the 4th of July of that year no student, except students in law and those taking extra studies, should be required to pay any fees for tuition. Few graded schools of the state are able as yet to fully prepare students for entrance into the regular classes of the classical department of the university. The larger number prepared by them still enter the scientific department or the sub-freshman class.

THE TOWNSHIP SYSTEM.

In 1869 the legislature passed a law authorizing towns to adopt by vote the "township system of school government." Under this system each town becomes one school district, and the several school districts already existing become sub-districts. Each sub-district elects a clerk, and the clerks constitute a body corporate under the name of the "board of school directors," and are invested with the title and custody of all school houses, school-house sites, and other property belonging to the school district, with power to control them for the best interests of the scholars of that town. The law provides for an executive committee to execute the orders of the

board, employ teachers, etc., and for a secretary to record proceedings of the board, have immediate charge and supervision of the schools, and perform other specified duties. But few towns have as yet made trial of this system, although it is in successful operation in Pennsylvania, Massachusetts, and some other states, and where fully and fairly tried in our own, has proved entirely satisfactory. It is the general belief of our enlightened educational men that the plan has such merits as ought to secure its voluntary adoption by the people of the state.

FREE HIGH SCHOOLS.

In 1875 the legislature enacted that any town, incorporated village, or city, may establish and maintain not more than two free high schools, and provided for an annual appropriation of not to exceed \$25,000, to refund one-half of the actual cost of instruction in such schools, but no school to draw in any one year more than \$500. At the session of 1877 the benefits of the act were extended to such high schools already established as shall show by a proper report that they have conformed to the requirements of the law. If towns decline to establish such a school, one or more adjoining districts in the same have the privilege of doing so. The law has met with much favor. For the school year ending August 31, 1876 (the first year in which it was in operation), twenty such schools reported, and to these the sum of \$7,466.50 was paid, being an average of \$373.32 per school. For the year ending August 31, 1878, eighty-five schools reported and received a pro rata division of the maximum appropriation. The high school law was primarily designed to bring to rural neighborhoods the twofold advantages of (1) a higher instruction than the common district schools afford, and (2) a better class of teachers for these schools. It was anticipated, however, from the first that the *immediate* results of the law would be chiefly the improvement of existing graded schools in the larger villages and in cities.

SCHOOL OFFICERS.

The school officers of Wisconsin are, a state superintendent of public instruction, sixty-four county superintendents, twenty-eight city superintendents, and a school board in each district, consisting of a director, treasurer, and clerk. The state and county superintendents hold office two years, the district officers three years. In each independent city there is a board of education, and the larger cities have each a city superintendent, who in some cases is also principal of the high school. He is appointed for one year. The county board of supervisors determine, within certain limits, the amount of money to be raised annually in each town and ward of their county for school purposes, levy an additional amount for the salary of the county superintendents, may authorize a special school tax, and may under certain circumstances determine that there shall be two superintendents for their county. The town board of supervisors have authority to form and alter school districts, to issue notice for first meeting, to form union districts for high school purposes, and appoint first boards for the same, to locate and establish school-house sites under certain circumstances, to extinguish districts that have neglected to maintain school for two years, and to dispose of the property of the same. The district clerks report annually to the town clerks, the town clerks to the county superintendents, and the county and city superintendents to the state superintendent, who in turn makes an annual report to the governor.

STATE TEACHERS' CERTIFICATES.

The state superintendent is authorized by law "to issue state certificates of high grade to teachers of eminent qualifications." Two grades of these are given, one unlimited, and the other good for five years. The examination is conducted by a board of three examiners, appointed annually by the state superintendent, and acting under rules and regulations prescribed by him.

TEACHERS' ASSOCIATIONS.

Besides the Wisconsin State Teachers' Association, holding its annual session in the summer and a semi-annual or "executive" session in the winter, there are, in several parts of the state, county or district associations, holding stated meetings. The number of such associations is annually increasing.

LIBRARIES.

The utility of public libraries as a part of the means of popular enlightenment, was early recognized in this state. The constitution, as set forth in 1848, required that a portion of the income of the school fund should be applied to the "purchase of suitable libraries and apparatus" for the common schools. The same year the legislature of the state, at its first session, enacted that as soon as this income should amount to \$60,000 a year (afterwards changed to \$30,000), each town superintendent might devote one tenth of the portion of this income received by his town annually, to town library purposes, the libraries thus formed to be distributed among the districts, in sections, and in rotation, once in three months. Districts were also empowered to raise money for library books. The operation of this discretionary and voluntary system was not successful. In ten years (1858) only about one third of the districts (1,121) had libraries, embracing in all but \$8,755 volumes, and the state superintendent, Hon. Lyman C. Draper, urged upon the legislature a better system, of "town libraries," and a state tax for their creation and maintenance. In 1857, the legislature enacted that ten per cent. of the yearly income of the school fund should be applied to the purchase of town school libraries, and that an annual tax of one tenth of one mill should be levied for the same purpose. The law was left incomplete, however, and in 1862, before the system had been perfected, the exigencies of the civil war led to the repeal of the law, and the library fund which had accumulated from the ten per cent. of the school fund income, and from the library tax, amounting in all to \$88,784.78, was transferred to the general fund. This may be considered a debt to the educational interests of the state that should be repaid. Meanwhile the single district library system languishes and yearly grows weaker. The re-enacting of a town library system, in which local effort and expenditure shall be stimulated and supplemented by State aid, has been recommended by the State Teachers' Association, and will, it is hoped, be secured, at no distant day, as a part of a complete town system of schools and of public education.

LIST OF STATE SUPERINTENDENTS.

The act creating the office was passed at the first session of the state legislature, in 1848. The incumbents up to the present time have been as follows:

NAME OF INCUMBENT.	DURATION OF INCUMBENCY.
Hon. E. Root.....	Three years—1849-50-51.
Hon. A. P. Ladd.....	Two years—1852-53.
Hon. H. A. Wright*.....	One year and five months—1854-55.
Hon. A. C. Barry.....	Two years and seven months—1855-56-57.
Hon. L. C. Draper.....	Two years—1858-59.
Hon. J. L. Pickard†.....	Three years and nine months—1860-61-62-63.
Hon. J. G. McMynn.....	Four years and three months—1863-64-65-66-67.
Hon. A. J. Craig‡.....	Two years and six months—1868-69-70.
Hon. Samuel Fallows.....	Three years and six months—1870-71-72-73.
Hon. Edward Searing.....	Four years—1874-75-76-77.
Hon. W. C. Whittier.....	Two years—1878-79.

* Died, May 29, 1845. † Resigned, October 1, 1863. ‡ Died, July 3, 1870.

SKETCHES OF COLLEGES IN WISCONSIN.*

Beloit College was founded in 1847, at Beloit, under the auspices of the Congregational and Presbyterian churches of Wisconsin and northern Illinois. In 1848, Rev. Joseph Emerson and Rev. J. J. Bushnell were appointed professors, and in 1849, Rev. A. L. Chapin was appointed president, and has continued such until the present time. The institution has had a steady growth, has maintained a high standard of scholarship and done excellent work, both in its preparatory and college departments. Two hundred and thirty-six young men have graduated. Its lands and buildings are valued at \$78,000, and its endowments and funds amount to about \$122,000.

Lawrence University, at Appleton, under the patronage of the Methodist church, was organized as a college in 1850, having been an "institute" or academy for three years previous, under the Rev. W. H. Sampson. The first president was Rev. Edward Cook; the second, R. Z. Mason; the present one is the Rev. George M. Steele, D. D. It is open to both sexes, and has graduated 130 young men, and 68 young women. It still maintains a preparatory department. It has been an institution of great benefit in a new region of country, in the northeastern part of the state. Receiving a liberal donation at the outset from the Hon. Amos A. Lawrence, of Boston, it has land and buildings valued at \$47,000, at Appleton, and funds and endowments amounting to \$60,000.

Milton College, an institution under the care of the Seventh Day Baptists, was opened as a college in 1867, having been conducted as an academy since 1844. Rev. W. C. Whitford, the president, was for many years the principal of the academy. The institution has done much valuable work, particularly in preparing teachers for our public schools. The college has graduated 38 young men and women, having previously graduated 93 academic students. It has lands, buildings and endowments to the amount of about \$50,000.

Ripon College, which was known till 1864 as Brockway College, was organized in 1853, at Ripon, and is supported by the Congregational church. Since its re-organization, in 1863, it has graduated 77 students (of both sexes) in the college courses, and has always maintained a large and flourishing preparatory department. Under its present efficient head, the Rev. E. H. Merrell, A. M., it is meeting with continued success. Its property amounts to about \$125,000.

Racine College was founded by the Episcopal Church, at Racine, in 1852, under the Rev. Roswell Park, D. D., as its first President. It was for a long time under the efficient administration of Rev. James De Koven, D. D., now deceased, who was succeeded by Rev. D. Stevens Parker. It maintains a large boys' school also, and a preparatory department. It was designed, in part, to train young men for the Nashotah Theological Seminary. It has property, including five buildings, to the amount of about \$180,000, and has graduated ninety-nine young men. Its principal work, in which it has had great success, is that of a boys' school, modeled somewhat after the English schools.

The Seminary of St. Francis of Sales, an ecclesiastical school, was established at St. Francis Station, near Milwaukee, chiefly by the combined efforts of two learned and zealous priests, the Rev. Michael Heiss, now bishop of La Crosse, and the Rev. Joseph Salzmänn. It was opened in January, 1850, with Rev. M. Heiss as rector, and with 25 students. Rev. Joseph Salzmänn was rector from September, 1868, to the time of his death, January 17, 1874, since which time Rev. C. Wapelhorst has held the rectorship. The latter is now assisted by twelve professors, and the students number 267, of whom 105 are theologians, 31 students of philosophy, and the rest classical students.

Pio Nono College is a Roman Catholic institution, at St. Francis Station, in the immediate neighborhood of the Seminary of St. Francis. It was founded in 1871, by Rev. Joseph Salzmänn,

* The statistics in this division were obtained in 1877, and are for the previous year.

who was the first rector. He was succeeded in 1874 by the present rector, Rev. Thomas Bruener, who is assisted by a corps of seven professors. Besides the college proper, there is a normal department, in which, in addition to the education that qualifies for teaching in common and higher schools, particular attention is given to church music. There is also, under the same management, but in an adjoining building, an institution for the instruction of the deaf and dumb. The pupils in the latter, both boys and girls, numbering about 30, are taught to speak by sounds, and it is said with the best success.

An institution was organized in 1865, at Prairie du Chien, under the name of Prairie du Chien College, and under the care of J. T. Lovewell, as principal. In the course of two or three years it passed into the hands of the Roman Catholic church, and is now known as St. John's College. It has so far performed principally preparatory work.

Sinsinawa Mound College, a Roman Catholic institution, was founded in 1848, through the labors of Father Mazzuchelli, but after doing a successful work, was closed in 1863, and in 1867 the St. Clara academy was opened in the same buildings.

The Northwestern University, which is under the Lutheran church, was organized in 1865, at Watertown, under Rev. August F. Ernst, as president. It has graduated 21 young men, and has a preparatory department. Its property is valued at \$50,000.

Galesville University was organized in 1859, under the patronage of the Methodist church at Galesville, in the northwest part of the state. The first president was the Rev. Samuel Fallows, since state superintendent. It has graduated ten young men and eight young women, its work hitherto having been mostly preparatory. It is now under the patronage of the Presbyterian denomination, with J. W. McLaury, A. M., as president. It has property valued at \$30,000, and an endowment of about \$50,000.

Carroll College was established at Waukesha, by the Presbyterian church, in 1846. Prof. J. W. Sterling, now of the state university, taught its primary classes that year. Under President John A. Savage, D.D., with an able corps of professors, it took a high rank and graduated classes; but for several years past it has confined its work principally to academic studies. Under W. L. Rankin, A. M., the present principal, the school is doing good service.

Wayland University was established as a college, by the Baptists, at Beaver Dam, in 1854, but never performed much college work. For three years past, it has been working under a new charter as an academy and preparatory school, and is now known as Wayland Institute.

In 1841, the Protestant Episcopal church established a mission in the wilds of Waukesha county, and, at an early day, steps were taken to establish in connection therewith an institution of learning. This was incorporated in 1847, by the name of Nashotah House. In 1852 the classical school was located at Racine, and Nashotah House became distinctively a theological seminary. It has an endowment of one professorship, the faculty and students being otherwise sustained by voluntary contributions. It has a faculty of five professors, with Rev. A. D. Cole, D.D., as president, buildings pleasantly situated, and has graduated 185 theological students.

FEMALE COLLEGES.

Two institutions have been known under this designation. The Milwaukee Female College was founded in 1852, and ably conducted for several years, under the principalship of Miss Mary Mortimer, now deceased. It furnished an advanced grade of secondary instruction. The Wisconsin Female College, located at Fox Lake, was first incorporated in 1855, and re-organized in 1863. It has never reached a collegiate course, is now known as Fox Lake Seminary, and admits both sexes. Rev. A. O. Wright, A. M., is the present principal.

ACADEMIES AND SEMINARIES.

The following institutions of academic grade, are now in operation: Albion Academy; Benton Academy; Big Foot Academy; Elroy Seminary; Fox Lake Seminary; two German and English academies in Milwaukee; Janesville Academy; Kemper Hall, Kenosha; Lake Geneva Seminary, Geneva; Lakeside Seminary, Oconomowoc; Marshall Academy, Marshall; Merrill Institute, Fond du Lac; Milwaukee Academy; Racine Academy; River Falls Institute; Rochester Seminary; St. Catherine's Academy, Racine; St. Clara Academy; Sinsinawa Mound; St. Mary's Institute, Milwaukee; Sharon Academy; and Wayland Institute, Beaver Dam. Similar institutions formerly in operation but suspended or merged in other institutions, were: Allen's Grove Academy; Appleton Collegiate Institute; Baraboo Collegiate Institute; Beloit Female Seminary; Beloit Seminary; Brunson Institute, Mount Hope; Evansville Seminary; Janesville Academy (merged in the high school); Kilbourn Institute; Lancaster Institute; Milton Academy; Platteville Academy; Southport Academy (Kenosha); Waterloo Academy; Waukesha Seminary; Wesleyan Seminary, Eau Claire; and Patch Grove Academy. The most important of these were the Milton and Platteville Academics, the former merged in Milton College, the latter in the Platteville Normal School. Of the others, several were superseded by the establishment of public high schools in the same localities.

COMMERCIAL SCHOOLS.

Schools of this character, aiming to furnish what is called a business education, exist in Milwaukee, Janesville, Madison, LaCrosse, Green Bay, Oshkosh and Fond du Lac. The oldest and largest is in Milwaukee, under the care of Prof. R. C. Spencer, and enrolls from two to three hundred students annually.

AGRICULTURE.

BY W. W. DANIELLS, M.S., PROF. OF CHEMISTRY AND AGRICULTURE AT THE UNIVERSITY OF WISCONSIN.

The trend of the earliest industries of a country, is the result of the circumstances under which those industries are developed. The attention of pioneers is confined to supplying the immediate wants of food, shelter, and clothing. Hence, the first settlers of a country are farmers, miners, trappers, or fishermen, according as they can most readily secure the means of present sustenance for themselves and their families. In the early history of Wisconsin this law is well exemplified. The southern part of the state, consisting of alluviations of prairie and timber, was first settled by farmers. As the country has developed, wealth accumulated, and means of transportation have been furnished, farming has ceased to be the sole interest. Manufactories have been built along the rivers, and the mining industry of the southwestern part of the state has grown to one of considerable importance. The shore of Lake Michigan was first mainly settled by fishermen, but the later growth of agriculture and manufactures has nearly overshadowed the fishing interest; as has the production of lumber, in the north half of the state, eclipsed the trapping and fur interests of the first settlers. That the most important industry of Wisconsin is farming, may be seen from the following statistics of the occupation of the people as given by the United States census. Out of each one hundred inhabitants, of all occupations, 68 were

farmers, in 1840; 52 in 1850; 54 in 1860; 55 in 1870. The rapid growth of the agriculture of the state is illustrated by the increase in the number of acres of improved land in farms, and in the value of farms and of farm implements and machinery, as shown by the following table, compiled from the United States census :

YEAR.	ACRES IMPROVED LAND IN FARMS.		VALUE OF FARMS, INCLUDING IMPROV- ED AND UNIMPROV- ED LANDS.	VALUE OF FARM IMPLEMENTS AND MACHINERY.
	TOTAL.	TO EACH INHAB.		
1850	1,045,499	3.4	\$ 25,528,563	\$ 1,641,568
1860	3,746,167	4.8	131,117,164	5,753,847
1870	5,899,343	5.6	300,414,064	14,239,364

Farming, at the present time, is almost entirely confined to the south half of the state, the northern half being still largely covered by forests. A notable exception to this statement is found in the counties on the western border, which are well settled by farmers much farther north. The surface of the agricultural portion of the state is for the most part gently undulating, affording ready drainage, without being so abruptly broken as to render cultivation difficult. The soil is varied in character, and mostly very fertile. The southern portion of the state consists of undulating prairies of variable size—the largest being Rock prairie—alternating with oak openings. The prairies have the rich alluvial soil so characteristic of the western prairies, and are easily worked. The soil of the “openings” land is usually a sandy loam, readily tilled, fertile, but not as “strong” as soils having more clay. The proportion of timber to prairie increases passing north from the southern boundary of the state, and forests of maple, basswood and elm, replace, to some extent, the oak lands. In these localities, the soil is more clayey, is strong and fertile, not as easily tilled, and not as quickly exhausted as are the more sandy soils of the oak lands. In that portion of the state known geologically as the “driftless” region, the soil is invariably good where the surface rock is limestone. In some of the valleys, however, where the lime-rock has been removed by erosion, leaving the underlying sandstone as the surface rock, the soil is sandy and unproductive, except in those localities where a large amount of alluvial matter has been deposited by the streams. The soils of the pine lands of the north of the state, are generally sandy and but slightly fertile. However, where pine is replaced by maple, oak, birch, elm and basswood, the soil is “heavier” and very fertile, even to the shores of Lake Superior.

The same natural conditions that make Wisconsin an agricultural state, determined that during its earlier years the main interest should be grain-growing. The fertile prairies covering large portions of the southern part of the state had but to be plowed and sowed with grain to produce an abundant yield. From the raising of cereals the pioneer farmer could get the quickest returns for his labor. Hence in 1850, two years after its admission to the Union, Wisconsin was the ninth state in order in the production of wheat, while in 1860 this rank was raised to third, Illinois and Indiana only raising more. The true rank of the state is not shown by these figures. Were the number of inhabitants and the number of acres of land in actual cultivation taken into account in the comparison, the state would stand still higher in rank than is here indicated. There is the same struggle for existence, and the same desire for gain the world over, and hence the various phases of development of the same industry in different civilized countries is mainly the result of the widely varying economical conditions imposed upon that industry. Land is thoroughly cultivated in Europe, not because the Europeans have any inherent love for good cultivation, but because there land is scarce and costly, while labor is superabundant and cheap. In America, on the other hand, and especially in the newer states,

land is abundant and cheap, while labor is scarce and costly. In its productive industries each country is alike economical in the use of the costly element in production, and more lavish in the use of that which is cheaper. Each is alike economically wise in following such a course, when it is not carried to too great extremes. With each the end sought is the greatest return for the expenditure of a given amount of capital. In accordance with this law of economy, the early agriculture of Wisconsin was mere land-skimming. Good cultivation of the soil was never thought of. The same land was planted successively to one crop, as long as it yielded enough to pay for cultivation. The economical principle above stated was carried to an extreme. Farming as then practiced was a quick method of land exhaustion. It was always taking out of the purse, and never putting in. No attention was paid to sustaining the soil's fertility. The only aim was to secure the largest crop for the smallest outlay of capital, without regard to the future. Manures were never used, and such as unavoidably accumulated was regarded as a great nuisance, often rendering necessary the removal of stables and outbuildings. Straw-stacks were invariably burned as the most convenient means of disposing of them. Wheat, the principal product, brought a low price, often not more than fifty cents a bushel, and had to be marketed by teams at some point from which it could be carried by water, as this was, at an early day, the only means of transportation. On account of the sparse settlement of the country, roads were poor, and the farmer, after raising and threshing his wheat, had to spend, with a team, from two to five days, marketing the few bushels that a team could draw. So that the farmer had every obstacle to contend with except cheap and very fertile land, that with the poorest of cultivation gave a comparatively abundant yield of grain. Better tillage, accompanied with the use of manures and other fertilizers, would not, upon the virgin soils, have added sufficiently to the yield to pay the cost of applying them. Hence, to the first farmers of the state, *poor* farming was the only profitable farming, and consequently the only *good* farming, an agriculturo-economical paradox from which there was no escape. Notwithstanding the fact that farmers could economically follow no other system than that of land-exhaustion, as described, such a course was none the less injurious to the state, as it was undermining its foundation of future wealth, by destroying the fertility of the soil, that upon which the permanent wealth and prosperity of every agricultural community is first dependent. Besides this evil, and together with it, came the habit of loose and slovenly farming acquired by pioneers, which continued after the conditions making that method a necessity had passed away. With the rapid growth of the northwest came better home markets and increased facilities for transportation to foreign markets, bringing with them higher prices for all products of the farm. As a consequence of these better conditions, land in farms in the state increased rapidly in value, from \$9.58 per acre in 1850, to \$16.61 in 1860, an increase of 62 per cent., while the total number of acres in farms increased during the same time from 2,976,658 acres to 7,893,587 acres, or 265 per cent. With this increase in the value of land, and the higher prices paid for grain, should have come an improved system of husbandry which would prevent the soil from deteriorating in fertility. This could have been accomplished either by returning to the soil, in manures and fertilizers, those ingredients of which it was being rapidly drained by continued grain-growing, or by the adoption of a system of mixed husbandry, which should include the raising of stock and a judicious rotation of crops. Such a system is sure to come. Indeed, it is now slowly coming. Great progress upon the earlier methods of farming have already been made. But so radical and thorough a change in the habits of any class of people as that from the farming of pioneers to a rational method that will preserve the soil's fertility and pay for the labor it demands, requires many years for its full accomplishment. It will not even keep pace with changes in those economical conditions which

favor it. In the rapid settlement of the northwestern states this change has come most rapidly with the replacement of the pioneer farmers by immigrants accustomed to better methods of culture. In such cases the pioneers usually 'go west' again, to begin anew their frontier farming upon virgin soil, as their peculiar method of cultivation fails to give them a livelihood. In Wisconsin as rapid progress is being made in the system of agriculture as, all things considered, could reasonably be expected. This change for the better has been quite rapid for the past ten years, and is gaining in velocity and momentum each year. It is partly the result of increased intelligence relating to farming, and partly the result of necessity caused by the unprofitableness of the old method.

The estimated value of all agricultural products of the state, including that of orchards, market gardens, and betterments, was, in 1870, as given in the census of that year, \$79,072,967, which places Wisconsin twelfth in rank among the agricultural states of the Union. In 1875, according to the "Report of the Commissioner of Agriculture," the value of the principal farm crops in this state was \$58,957,050. According to this estimation the state ranks ninth in agricultural importance. As has been before stated, Wisconsin is essentially a grain-growing state. This interest has been the principal one, not because the soil is better adapted to grain-growing than to general, stock, or dairy farming, but rather because this course, which was at an early day most immediately profitable, has been since persistently followed from force of habit, even after it had failed to be remunerative.

The following table shows the bushels of the different grains raised in the state for the years indicated:

YEAR.	WHEAT.	RYE.	CORN.	OATS.	BARLEY.	BUCK- WHEAT.
1850...	4,256,131	81,253	1,933,979	3,414,672	209,672	79,878
1860....	15,657,438	888,544	7,517,300	11,050,260	707,307	32,987
1870....	25,666,344	1,325,294	15,033,955	20,180,016	1,045,019	403,807
1875*....	25,200,000	1,340,000	15,200,000	20,000,000	2,200,000	275,000

From these statistics it will be seen that the increase in the production of grain was very rapid up to 1870, while since that time it has been very slight. This rapid increase in grain raising is first attributable to the ease with which this branch of farming was carried on upon the new and very rich soils of the state, while in the older states this branch of husbandry has been growing more difficult and expensive, and also to the fact that the war in our own country so increased the demand for grain from 1861 to 1866 as to make this course the most immediately profitable. But with the close of the war came a diminished demand. Farmers were slow to recognize this fact, and change the character of their productions to accord with the wants of the market, but rather continued to produce the cereals in excess of the demand. The chinch bug and an occasional poor season seriously injured the crops, leaving those who relied principally upon the production of grain little or nothing for their support. Hard times resulted from these poor crops. More wheat and corn was the farmer's usual remedy for hard times. So that more wheat and corn were planted. More crop failures with low prices brought harder times, until gradually the farmers of the state have opened their eyes to the truth that they can succeed in other branches of agriculture than grain growing, and to the necessity of catering to the

* Estimated in report of commissioner of agriculture.

demands of the market. The value in 1869 of all farm products and betterments of the state was \$79,972,967. There were raised of wheat the same year 25,606,344 bushels, which at \$1.03 per bushel, the mean price reported by the Milwaukee board of trade, for No. 2 wheat: (the leading grade), for the year ending July 31, 1870, amounts to \$26,374,524, or one third the value of all agricultural products and betterments. The average production per acre, as estimated by the commissioner of agriculture, was 14 bushels. Hence there were 1,829,024 acres of land devoted to this one crop, nearly one third of all the improved land in the state. Of the wheat crop of 1869 24,375,435 bushels were spring wheat, and 1,230,909 bushels were winter wheat, which is 19.8 bushels of spring to 1 bushel of winter wheat. The latter is scarcely sown at all on the prairies, or upon light opening soils. In some of the timbered regions hardy varieties do well, but it is not a certain crop, as it is not able to withstand the winters, unless covered by snow or litter. It is not injured as seriously by the hard freezing, as by the alternate freezing and thawing of February and March.

The continued cropping of land with grain is a certain means of exhausting the soil of the phosphates, and of those nitrogenous compounds that are essential to the production of grain, and yet are present even in the most fertile soils in but small quantities. To the diminished yield, partly attributable to the overcropping of the land, and partially to poor seasons and chinch bugs, and to the decline in prices soon after the war, owing to an over production of wheat, may largely be attributed the hard times experienced by the grain growing farmers of Wisconsin from 1872 to 1877. The continued raising of wheat upon the same land, alternated, if any alternation occurred, with barley, oats, or corn, has produced its sure results. The lesson has cost the farmers of the state dearly, but it has not been altogether lost. A better condition of affairs has already begun. Wheat is gradually losing its prestige as the farmers' sole dependence, while stock, dairy, and mixed farming are rapidly increasing. The number of bushels of wheat raised to each inhabitant in the state was in 1850 fourteen, in 1860 twenty-three and eight tenths, in 1870 twenty-four, and in 1875 twenty and four tenths. These figures do not indicate a diminished productiveness of the state, but show, with the greatly increased production in other branches of husbandry, that farmers are changing their system to one more diversified and rational. Straw stacks are no longer burned, and manure heaps are not looked upon as altogether useless. Much more attention is now paid to the use of fertilizers. Clover with plaster is looked upon with constantly increasing favor, and there is a greater seeking for light upon the more difficult problems of a profitable agriculture.

Corn is raised to a large extent, although Wisconsin has never ranked as high in corn, as in wheat growing. Sixteen states raised more corn in 1870 than this state, and in 1875, seventeen states raised more. Corn requires a rich, moist soil, with a long extended season of warm sunshine. While this crop can be raised with great ease in the larger portion of the state, it will always succeed better farther south, both on account of the longer summers and the greater amount of rainfall. According to the statistics of the commissioner of agriculture, the average yield per acre for a period of ten years, is about 30 bushels. Corn is an important crop in the economy of the farmer, as from it he obtains much food for his stock, and it is his principal dependence for fattening pork. On these accounts it will, without doubt, retain its place in the husbandry of the state, even when stock and dairy farming are followed to a much greater extent than at present. Barley is cultivated largely throughout the state, but five states produced more in 1870, than Wisconsin. The great quantity of beer brewed here, furnishes a good home market for this grain. Barley succeeds best in a rather moist climate, having a long growing season. The dry, short summers of Wisconsin, are not well adapted to its growth. Hence the average

yield is but a medium one, and the quality of the grain is only fair. According to the returns furnished the commissioner of agriculture, the average yield for a period of ten years, is 22 bushels per acre.

Next to wheat, more bushels of oats are raised than of any other grain. Wisconsin was, in 1860, fifth in rank among the oat-growing states; in 1870, sixth. The rich soils of the state raise an abundant crop of oats with but little labor, and hence their growth in large quantities is not necessarily an indication of good husbandry. They will bear poor cultivation better than corn, and are frequently grown upon land too weedy to produce that grain. It is a favorite grain for feeding, especially to horses. With the best farmers, oats are looked upon with less favor than corn, because it is apt to leave land well seeded with weeds which are difficult to exterminate. In the production of rye, Wisconsin ranked seventh in 1860, and fourth in 1870. It is a much surer crop in this state than winter wheat, as it is less easily winter-killed when not protected by snow, than is that grain. Besides, it ripens so early as not to be seriously injured by drouth in summer, and succeeds well even upon the poorer soils. The average yield per acre is about 16 bushels.

But few hops were grown in Wisconsin, up to 1860, when owing to an increased demand by the breweries of the state, there was a gradual but healthful increase in hop culture. A few years later the advent of the hop louse, and other causes of failure at the east, so raised the price of hops as to make them a very profitable crop to grow. Many acres were planted in this state from 1863 to 1865, when the total product was valued at nearly \$350,000. The success of those engaged in this new branch of farming, encouraged others to adopt it. The profits were large. Wheat growing had not for several years been remunerative, and in 1867 and 1868, the "hop fever" became an epidemic, almost a plague. The crop of Sauk county alone was estimated at over 4,000,000 pounds, worth over \$2,000,000. The quality of the crop was excellent, the yield large, and the price unusually high. The secretary of the State Agricultural society says, in his report for that year, "Cases are numerous in which the first crop has paid for the land and all the improvements." To many farmers hop raising appeared to offer a sure and speedy course to wealth. But a change came quickly. The hop louse ruined the crop, and low prices caused by over production, aided in bringing ruin to many farmers. In 1867, the price of hops was from 40 to 55 cents per pound, while in 1869 it was from 10 to 15 cents, some of poor quality selling as low as 3 cents. Many hop yards were plowed up during 1869 and 1870. The area under cultivation to this crop in 1875, was, according to the "Report of the Secretary of State," 10,932 acres.

The production of tobacco has greatly increased since 1860, when there were raised in the state 87,340 pounds. In 1870, the product was 960,813 pounds. As is well known, the quality of tobacco grown in the northern states is greatly inferior for chewing and smoking, to that grown in the south, although varieties having a large, tough leaf, suitable for cigar wrappers, do well here. The variety principally grown is the Connecticut seed leaf. Tobacco can only be grown successfully on rich, fertile soils, and it is very exhausting to the land. Of the amount produced in 1870, there were raised in Rock county 645,428 pounds, and in Dane county, 229,568 pounds; the entire remaining portion of the state raised but 85,737 pounds. According to the report of the secretary of state, the whole number of acres planted to tobacco in 1875, was 3,296. Of this amount Rock county planted 1,670 acres, and Dane county, 1,454 acres, leaving for the remainder of the state but 166 acres. While the crop has been fairly productive and profitable, these statistics show that up to the present time tobacco-raising has been a merely local interest.

The production of flax is another merely local industry, it being confined principally to the

counties of Kenosha, Grant, Iowa and LaFayette. Of flax fibre, Kenosha county raised in 1869, nearly four fifths of the entire amount grown in the state, the total being 497,398 pounds. With the high price of labor and the low price of cotton now ruling, it is scarcely possible to make the raising of flax fibre profitable. Flax seed is raised to a small extent in the other counties mentioned. The present price of oil makes this a fairly profitable crop. If farmers fully appreciated that in addition to the oil, the oil cake is of great value as a food for cattle and sheep, and also that the manure made by the animals eating it, is of three times the value of that made by animals fed upon corn, doubtless much more flax seed would be raised than is at present. American oil-cake finds a ready market in England, at prices which pay well for its exportation. If English farmers can afford to carry food for their stock so far, American farmers may well strive to ascertain if they can afford to allow the exportation of so valuable food. When greater attention is paid in our own country to the quality of the manure made by our stock, more oil-cake will be fed at home, and a much smaller proportion of that made here will be exported.

The amount of maple sugar produced diminishes as the settlement of the state increases, and is now scarcely sufficient in amount to be an item in the state's productions. The increase in the price of sugar from 1861 to 1868 caused many farmers to try sorghum raising. But the present low prices of this staple has caused an abandonment of the enterprise. Two attempts have been made in Wisconsin to manufacture beet-root sugar, the first at Fond du Lac in 1867 the second at Black Hawk, Sauk county, in 1870. The Fond du Lac company removed their works to California in 1869, not having been successful in their efforts. The Black Hawk company made, in 1871, more than 134,000 pounds of sugar, but have since abandoned the business. Both these failures may be attributed to several causes, first of which was the want of sufficient capital to build and carry on a factory sufficiently large to enable the work to be done economically; secondly, the difficulty of sufficiently interesting farmers in the business to induce them to raise beets on so large a scale as to warrant the building of such a factory; and, thirdly, the high price of labor and the low price of sugar. The quality of beets raised was good, the polarization test showing in many instances as high as sixteen per cent. of sugar. The larger proportion of hay made in the state is from the natural meadows, the low lands or marshes, where wild grasses grow in abundance, and hay only costs the cutting and curing. Cultivated grasses do well throughout the state, and "tame hay" can be made as easily here as elsewhere. The limestone soils, where timber originally grew, are of the uplands, most natural to grass, and, consequently, furnish the richest meadows, and yield the best pasturage. The only soils where grasses do not readily grow, are those which are so sandy and dry as to be nearly barrens. Clover grows throughout the state in the greatest luxuriance. There is occasionally a season so dry as to make "seeding down" a failure, and upon light soils clover, when not covered with snow, is apt to winter-kill. Yet it is gaining in favor with farmers, both on account of the valuable pasturage and hay it affords, and on account of its value as a soil renovator. In wheat-growing regions, clover is now recognized to be of the greatest value in a "rotation," on account of its ameliorating influence upon the soil. Throughout the stock and dairy regions, clover is depended upon to a large extent for pasturage, and to a less extent for hay.

There has been a growing interest in stock raising for the past ten years, although the increase has not been a rapid one. Many of the herds of pure-blood cattle in the state rank high for their great excellence. The improvement of horses has been less rapid than that of cattle, sheep, and swine; yet this important branch of stock farming is improving each year. The most attention is given to the improvement of draught and farm horses, while roadsters and fast horses are not altogether neglected. There are now owned in the state a large number of horses of the heavier English and French breeds, which are imparting to their progeny their own characteristics

of excellence, the effects of which are already visible in many of the older regions of the state. Of the different breeds of cattle, the Short-horns, the Ayrshires, the Devons, and the Jerseys are well represented. The Short-horns have met with most favor with the general farmer, the grades of this breed being large, and possessing in a high degree the quiet habits and readiness to fatten, so characteristic of the full-bloods. Without doubt, the grade Short-horns will continue in the high favor in which they are now held, as stock-raising becomes a more important branch of the husbandry of the state. Of pure blood Short-horns there are many herds, some of which are of the very highest excellence. At the public sales of herds from this state, the prices have ranked high universally, and in a few cases have reached the highest of "fancy" prices, showing the estimate placed by professional breeders upon the herds of Wisconsin. The Ayrshires are increasing in numbers, and are held in high esteem by many dairymen. They are not yet, however, as generally disseminated over the state, as their great merit as a milking breed would warrant. The rapid growth of the dairy interest will doubtless increase their numbers greatly, at least as grades, in the dairying region. Of pure bred Devons and Jerseys, there are fewer than of the former breeds. The latter are principally kept in towns and cities to furnish milk for a single family. The following table shows the relative importance of stock raising in the state for the years mentioned. The figures are an additional proof to those already given, that the grain industry has held sway in Wisconsin to the detriment of other branches of farming, as well as to the state's greatest increase in wealth.

YEAR.	WHOLE NUMBER OF NEAT CATTLE.	NO. TO EACH 100 ACRES OF IMPROVED LAND.	WHOLE NUMBER OF SHEEP.	NUMBER TO EACH 100 ACRES OF IMPROVED LAND.	POUNDS OF WOOL PRODUCED.	POUNDS OF WOOL PER HEAD.
1850.....	183,433	17	124,896	12	253,093	2.03
1860.....	521,860	14	332,054	9	1,011,933	3.04
1870.....	693,394	12	1,069,252	18	4,099,670	3.82
1875*.....	922,660	11	1,162,860	14	(?)	(?)

* Estimated in report of commissioner of agriculture.

The growth and present condition of sheep husbandry, compare much more favorably with the general development of the state than does that of cattle raising. In a large degree this may be accounted for by the impetus given to wool raising during our civil war by the scarcity of cotton, and the necessary substitution to a great extent, of woolen for cotton goods. This great demand for wool for manufacturing purposes produced a rapid rise in the price of this staple, making its production a very profitable branch of farming. With the close of the war came a lessened demand, and consequently lower prices. Yet at no time has the price of wool fallen below that at which it could be profitably produced. This is the more notably true when the value of sheep in keeping up the fertility and productiveness of land, is taken into account. The foregoing table shows the improvement in this branch of husbandry since 1850.

Although many more sheep might profitably be kept in the state, the above figures show that the wool interest is fairly developed and the average weight of fleece is an assurance of more than ordinarily good stock. The fine-wooled sheep and their grades predominate, although there are in the state some excellent stock of long-wools—mostly Cotswold—and of South-downs.

Of all the agricultural interests of the state, no other has made as rapid growth during the last ten years, as has that of dairying. With the failure of hop-growing, began the growth of the factory system of butter and cheese making, and the downfall of the one was scarcely more rapid than has been the upbuilding of the other. The following statistics of the production of butter and cheese illustrate this rapid progress. It will be remembered that for the years 1850,

1860, and 1870 the statistics are from the U. S. census, and hence include all the butter and cheese made in the state, while for the remaining years, only that made by factories and professional dairymen as reported to the secretary of the State Dairymen's Association, is included. It has been found impossible to obtain the statistics of butter, except for the census years.

YEAR.	BUTTER.	CHEESE.
	lbs.	lbs.
1850.....	3,633,750	400,253
1860.....	13,611,328	1,104,300
1870.....	22,473,036	1,591,778
1871.....	-----	13,000,000
1875.....	-----	15,000,000
1876.....	-----	17,000,000

The quality of Wisconsin dairy products is excellent, as may be judged by the fact that, at the Centennial Exhibition, Wisconsin cheese received twenty awards, a larger number than was given to any other state except New York, and for butter Wisconsin received five awards. No state received more, and only New York and Illinois received as many. Wisconsin received one award for each fourteen cheeses on exhibition. No other state received so large a proportion. New York received the largest number of awards, viz., twenty-one, but only secured one award for each thirty cheeses on exhibition. The number of cheese and butter factories is increasing each year, and there is being made in the better grazing regions of the state, as rapid a transition from grain to dairy-farming as is consistent with a healthful growth. This interest, which is now an important one in the state's industrial economy, has before it a promising future, both in its own development, and in its indirect influence upon the improvement of the agriculture of the state.

The history of the earlier attempts in fruit raising in Wisconsin would be little more than a record of failures. The pioneers planted apple, peach, plum, and cherry trees, but they gathered little or no fruit. As was natural, they planted those varieties that were known to do well in the older states of the same latitude. Little was known of the climate, and there was no apparent reason why those varieties should not do well here. The first orchards died. The same varieties were replanted, and again the orchards died. Gradually, through the costly school of experience, it was learned that the climate was different from that of the eastern states, and that to succeed here varieties of fruit must be such as were adapted to the peculiar climate of this state. These peculiarities are hot, and for the most part, dry summers, cold and dry winters. The dryness of the climate has been the greatest obstacle to success, as this is indirectly the cause of the great extremes of temperature experienced here. The summers are often so dry that the growth of the trees is not completed, and the wood sufficiently well ripened to enable it to withstand the rigors of winter. And the clear, dry atmosphere of winter allows the sun's rays to pass through it so unobstructedly as to warm the body of the tree upon the sunny side, above the freezing point, even though the temperature of the air is much lower. The alternate thawing and freezing ruptures the tender cells connecting the bark and wood, producing a complete separation of these parts, and often besides bursts the bark. The separation of bark and wood destroys the circulation of the sap upon that side of the tree, thus enfeebling the entire plant. The tree is not able to form new bark over the ruptured part, and a diseased spot results. Such a plant makes but a feeble growth of poorly ripened wood, and soon dies.

altogether. Besides the above cause, the extreme cold weather occasionally experienced will kill healthy trees of all varieties not extremely hardy. Notwithstanding these natural obstacles, a good degree of success has been attained in the raising of apples and grapes. This success has been the result of persevering effort upon the part of the horticulturists of the state, who have sought the causes of failure in order that they might be removed or avoided. It is thus by intelligent observation that the fruit growers have gained the experience which brings with it a creditable success. The first requisite to success is the planting of varieties sufficiently hardy to withstand our severe winters. This has been accomplished by selecting the hardiest of the old varieties, and by raising seedlings, having besides hardiness, qualities sufficiently valuable to make them worthy of cultivation. The second requisite to success is in the selection of a situation having suitable soil and exposure, and thirdly, proper care after planting. Among the hardy varieties of apples regarded with greatest favor are Tetofski, Red Astrachan, and Duchess of Oldenberg, all Russian varieties, and Fameuse from Canada. Besides these there are a few American varieties so hardy as to prove reliable in the south half of the state. Among these are a few seedlings that have originated in Wisconsin. Apple trees are less apt to be injured by the winter upon a site sloping to the northeast or north, where they are less directly exposed to the rays of the winter's sun. High ground is much better than low, and a good, strong, not too rich soil is best. Apples do better upon soils where timber originally grew than on the prairies, and they are grown more easily along the border of Lake Michigan than in the interior of the state. Pears are raised to but a slight extent, as only a few of the hardiest varieties will succeed at all, and these only in favorable situations. Grapes are grown in great abundance, and in great perfection, although not of the more tender varieties. The Concord, on account of its hardiness and excellent bearing qualities, is cultivated most generally. Next to this comes the Delaware, while many other varieties, both excellent and prolific, are raised with great ease. The season is seldom too short to ripen the fruit well, and the only precaution necessary to protect the vines during the winter is a covering of earth or litter. Cranberries grow spontaneously upon many marshes in the interior of the state. Within a few years considerable attention has been given to improving these marshes, and to the cultivation of this most excellent fruit. Doubtless within a few years the cranberry crop will be an important one among the fruit productions of the state. All of the small fruits adapted to this latitude are cultivated in abundance, and very successfully, the yield being often times exceedingly large. Altogether, the horticultural interests of the state are improving, and there is a bright prospect that in the near future fruit growing will not be looked upon with the disfavor with which it has been regarded heretofore.

Of the associations for advancing the agricultural interests of the state, the first organized was the "State Agricultural Society." The earliest efforts to establish such an organization were made at Madison in December, 1846, during the session of the first constitutional convention of the territory. A constitution was adopted, but nothing further was done. In February, 1849, another meeting was held in Madison, at which it was "Resolved, That in view of the great importance of agriculture in the west, it is expedient to form a state agricultural society in Wisconsin." Another constitution was adopted, and officers were elected, but no effectual organization resulted from this second attempt. The "Wisconsin State Agricultural Society"—the present organization—had its inception in a meeting held at Madison, March 8, 1851, at which a committee was appointed to report a constitution and by-laws, and to nominate persons to fill the various offices of said society. At its organization, the society was composed of annual members, who paid one dollar dues each year, and of life members, who, upon the payment of ten dollars, were exempt from the annual contribution. The annual membership was afterward

abolished, and in 1869 the fee constituting one a life member was raised to twenty dollars. The first annual fair of the society was held in Janesville, in October, 1851. Fairs have been held annually since, except during the years 1861, 1862 and 1863. In 1851 premiums were paid to the amount of only \$140, while at the present time they amount to nearly \$10,000. In 1851 there were five life members. At the present time there are over seven hundred, representing all the various industries of the state. The fairs held under the auspices of this society have been of excellent character, and have been fruitful of good to all the industries of the state, but more especially to the farmers. The state has been generous in aid of this society, having furnished commodious rooms for its use in the capitol building, printed the annual report of the secretary, a volume of about 500 pages, and donated annually, for many years, \$2,000 toward its support. Besides its annual fairs, for the past five years there has been held an annual convention, under the auspices of this society, for the reading and discussing of papers upon topics of interest to farmers, and for a general interchange of ideas relating to farming. These conventions are held in high esteem by the better class of farmers, and have added greatly to the usefulness of the society. The "Wisconsin State Horticultural Society" was originally the "Wisconsin State Fruit Growers' Association," which was organized in December, 1853, at Whitewater. Its avowed object was "the collecting, arranging, and disseminating facts interesting to those engaged in the culture of fruits, and to embody for their use the results of the practice and experiments of fruit growers in all parts of the state." Exhibitions and conventions of the association were held annually up to 1860, after which the society was disorganized, owing to the breaking out of the war of the rebellion. A volume of "Transactions" was published by the association in 1855. In 1859 its transactions were published with those of the state agricultural society. From 1860 to 1865 no state horticultural association was in existence. In September of the latter year the "Wisconsin Fruit Growers' Association" was reorganized as the "Wisconsin State Horticultural Society." The legislature had previously provided for the publication of the proceedings of such a society, in connection with those of the State Agricultural Society. The new society has held annual exhibitions, usually in connection with those of the State Agricultural Society, and annual conventions for the reading of papers upon, and the discussion of, horticultural subjects. In 1871 an act was passed by the legislature incorporating the society, and providing for the separate printing of 2,000 copies annually of its transactions, of which there are now seven volumes. The most active, intelligent, and persevering of the horticulturists of the state are members of this association, and to their careful observation, to their enthusiasm and determined persistence in seeking means to overcome great natural difficulties, the state is largely indebted for the success already attained in horticulture. Besides these state associations, there are many local agricultural and horticultural societies, all of which have been useful in aiding the cause for which they were organized. Farmers' clubs and granges of the "Patrons of Husbandry" have also done much, both directly and indirectly, to promote the industrial interests of the state. By their frequent meetings, at which discussions are held, views compared, and experiences related, much valuable intelligence is gained, thought is stimulated, and the profession of farming advanced. As agriculture, like all kindred professions, depends upon intelligence to direct its advancement, all means intended to stimulate thought among farmers will, if wisely directed, aid in advancing this most complex of all industries. To those above named, and to other like associations, is in a large degree to be attributed the present favorable condition of the agriculture of the state.

Wisconsin is yet, comparatively, a new State. It was mainly settled by men who had little moneyed capital. Markets were distant, and means of transportation poor. The early settlers had consequently to struggle for a livelihood in the face of the greatest difficulties. When these opposing

circumstances are taken into account, and the improvement in methods of culture, and changes from grain to stock and dairy-farming that are now being made, are given their due weight, it must be acknowledged that the present condition of the agriculture of the state is excellent, and that the future of this most important industry is rich in promise of a steady, healthful growth, toward a completer development of all the agricultural resources of the state.

MINERAL RESOURCES.

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The useful mineral materials that occur within the limits of the state of Wisconsin, come under both of the two grand classes of such substances: the *metallic ores*, from which the metals ordinarily used in the arts are extracted; and the *non-metallic substances*, which are used in the arts for the most part without any preliminary treatment, or at least undergo only a very partial alteration before being utilized. Of the first class are found in Wisconsin the ores of *lead, zinc, iron and copper*, besides minute traces of the precious metals; of the second class, the principal substances found are *brick-clay, kaolin, cement-rock, limestone for burning into quick-lime, limestone for flux, glass sand, peat and building stone*.

LEAD AND ZINC.

These metals are considered together because they are found occurring together in the same region and under exactly the same circumstances, being even obtained from the same openings. Lead has for many years been the most important metallic production of Wisconsin, and, together with zinc, whose ores have been utilized only since 1862, still holds this prominent position, although the production is not so great as formerly. Small quantities of lead and zinc ores have been found in the crystalline (Archean) rocks of the northern part of the state and in the copper-bearing rocks of the Lake Superior country, but there are no indications at present that these regions will ever produce in quantity. All of the lead and zinc obtained in Wisconsin comes then from that portion of the southwestern part of the state which lies west of Sugar river and south of the nearly east and west ridge that forms the southern side of the valley of the Wisconsin, from the head of Sugar river westward. This district is commonly known in Wisconsin as the "Lead Region," and forms the larger part of the "Lead Region of the Upper Mississippi," which includes also smaller portions of Iowa and Illinois.

What European first became acquainted with the deposits of lead in the upper portion of valley of the Mississippi is a matter of some doubt. Charlevoix (*Histoire de la Nouvelle France*, III, 397, 398.) attributes the discovery to Nicolas Perrot, about 1692; and states that in 1721 the deposits still bore Perrot's name. Perrot himself, however, in the only one of his writings that remains, makes no mention of the matter. The itinerary of Le Sueur's voyage up the Mississippi, 1700-1701, given in La Harpe's *History of Louisiana*, which was written early in the 18th century, shows that the former found lead on the banks of the Mississippi, not far from

the present southern boundary of Wisconsin, August 25, 1700. Captain Johathan Carver, 1766, found lead in abundance at the Blue Mounds, and found the Indians in all the country around in possession of masses of galena, which they had obtained as "float mineral," and which they were incapable of putting to any use. There is no evidence of any one mining before Julien Dubuque, who, 1783 to 1809, mined in the vicinity of the flourishing city which now bears his name. After his death in 1809 nothing more was done until 1821, when the attention of American citizens was first drawn to the rich lead deposits of this region. By 1827, the mining had become quite general and has continued to the present time, the maximum production having been reached, however, between the years 1845 and 1847.

The following table, prepared by the late Moses Strong, shows the mineral production of southwestern Wisconsin for the years 1860 to 1873 in pounds:

YEARS.	GALENA.	SMITHSONITE.	YEAR	GALENA.	SMITHSONITE.	BLEND.
1860	-----	320,000	1867	13,820,734	5,181,445	841,310
1861	-----	260,000	1868	13,860,019	4,302,383	3,078,135
1862	17,037,912	-----	1869	13,426,721	4,547,071	6,252,420
1863	15,195,577	1,120,000	1870	13,751,150	4,429,585	7,414,022
1864	13,014,210	3,173,333	1871	13,481,210	10,618,100	9,303,625
1865	14,337,595	4,198,200	1872	11,622,663	27,021,383	16,256,070
1866	14,029,192	7,373,333	1873	9,919,734	18,525,900	15,074,664

Until within the last decade the lead mines of the Mississippi valley, including now both the "Upper" and the "Lower" regions—the latter one of which lies wholly within the limits of the state of Missouri—have far eclipsed the rest of the United States in the production of lead, the district being in fact one of the most important of the lead districts in the world. Of late years, however, these mines are far surpassed in production by the "silver-lead" mines of Utah and other Rocky Mountain regions, which, though worked especially for their silver, produce incidentally a very large amount of lead. Nevertheless, the mines of the Mississippi valley will long continue to be a very important source of this metal. The lead ore of the Wisconsin lead region is of one kind only, the sulphide known as *galena*, or *galenite*. This ore, when free from mechanically mingled impurities, contains 86.6 per cent. of lead, the balance being sulphur. Small quantities of other lead ores are occasionally found in the uppermost portions of the deposits, having been produced by the oxidizing influence of the atmosphere. The chief one of these oxidation products is the earthy carbonate known as *cerussite*. Galena almost always contains some silver, commonly enough to pay for its extraction. The Wisconsin galenas, however, are unusually free from silver, of which they contain only the merest trace.

The zinc ores are of two kinds, the most abundant being the ferruginous sulphide, or the "black-jack" of the miners. The pure sulphide, *sphalerite*, contains 67 per cent. of zinc, but the iron-bearing variety, known mineralogically as *marmitite*, generally contains 10 per cent. or more of iron. A ferruginous variety of the carbonate, *smithsonite*, also occurs in abundance, and is known to the miners as "dry-bone," the name being suggested by the peculiar structure of the ore.

Both lead and zinc ores occur in limited deposits in a series of limestone beds belonging to the Lower Silurian series. The lead region is underlain by a nearly horizontal series of strata, with an aggregate thickness of 2,000 feet, which lie upon an irregular surface of ancient crystalline rocks (gneiss, granite, etc.). The names and order of succession of the several strata are indicated in the following scheme, the last named being the lowest in the series:

	<i>Formation,</i>	<i>Thickness.</i>
	Niagara dolomitic limestone.....	300—300 feet.
	Cincinnati shales.....	60—100 "
Lead Horizon	Galena dolomitic limestone.....	250—275 "
	Blue limestone.....	50—75 "
	Buff dolomitic limestone.....	15—20 "
	Lower Magnesian (dolomitic) limestone.....	250 "
	Potsdam sandstone series.....	800—1000 "

The first two of these layers, in the Wisconsin part of the lead region, are met with only in a few isolated peaks and ridges. The prevailing surface rock is the Galena limestone, through which, however, the numerous streams cut in deep and narrow valleys which not unfrequently are carved all the way into the Lower Magnesian.

The lead and zinc ores are entirely confined to the Galena, Blue and Buff limestones, an aggregate vertical thickness of some 350 to 375 feet. The upper and lower strata of the series are entirely barren. Zinc and lead ores are found in the same kind of deposits, and often together; by far the larger part of the zinc ores, however, come from the Blue and Buff limestones, and the lowest layers of the Galena, whilst the lead ores, though obtained throughout the whole thickness of the mining ground, are especially abundant in the middle and upper layers of the Galena beds.

The ore deposits are of two general kinds, which may be distinguished as vertical crevices and flat crevices, the former being much the most common. The simplest form of the vertical crevice is a narrow crack in the rock, having a width of a few inches, an extension laterally from a few yards to several hundred feet, and a vertical height of 20 to 40 feet, thinning out to nothing in all directions, and filled from side to side with highly crystalline, brilliant, large-surfaced galena, which has no accompanying metallic mineral, or gangue matter. Occasionally the vertical extension exceeds a hundred feet, and sometimes a number of these sheets are close together and can be mined as one. Much more commonly the vertical crevice shows irregular expansions, which are sometimes large caves, or openings in certain layers, the crevice between retaining its normal character, while in other cases the expansion affects the whole crevice, occasionally widening it throughout into one large opening. These openings are rarely entirely filled, and commonly contain a loose, disintegrated rock, in which the galena lies loose in large masses, though often adhering to the sides of the cavity in large stalactites, or in cubical crystals. The vertical crevices show a very distinct arrangement parallel with one another, there being two systems, which roughly trend east and west, and north and south. The east and west crevices are far the most abundant and most productive of ore. The vertical crevices are confined nearly altogether to the upper and middle portions of the Galena, and are not productive of zinc ores. They are evidently merely the parallel joint cracks which affect every great rock formation, filled by chemical action with the lead ore. The crevices with openings have evidently been enlarged by the solvent power of atmospheric water carrying carbonic acid, and from the way in which the ore occurs loose in the cavities, it is evident that this solving action has often been subsequent to the first deposition of lead ore in the crevice.

The "flat crevices," "flat sheets," and "flat openings," are analogous to the deposits just described, but have, as indicated by the names, a horizontal position, being characteristic of certain layers, which have evidently been more susceptible to chemical action than others, the dissolving waters having, moreover, been directed along them by less pervious layers above and below. The flat openings differ from the vertical crevices also, in having associated with the

galena much of either the black-jack or dry-bone zinc ores, or both, the galena not unfrequently being entirely wanting. Cleavable calcite also accompanies the ores in these openings in large quantities, and the same is true of the sulphide of iron, which is the variety known as *marcasite*. These materials have sometimes a symmetrical arrangement on the bottom and top of the opening, the central portion being empty. The flat openings characterize the Blue and Buff and lower Galena beds, and from them nearly all the zinc ore is obtained.

It is not possible, in the limits of this short paper, even to mention the various mining districts. It may merely be said that the amount of galena raised from single crevices has often been several hundred thousand, or even over a million pounds, and that one of the principal mining districts is in the vicinity of Mineral Point, where there are two furnaces constantly engaged in smelting. Between the years 1862 and 1873, these two establishments have produced 23,093,260 pounds of metallic lead, or an average of 1,991,938 pounds, the maximum being, in 1869, 2,532,710 pounds, the minimum, in 1873, 1,518,888 pounds.

The zinc ores were formerly rejected as useless, and have only been utilized since 1860. An attempt to smelt them at Mineral Point was not successful, because the amount needed of fuel and clay, both of which have to come from a distance, exceeding even the amount of ore used, caused a very heavy expense for transportation. The ores are therefore now taken altogether to LaSalle, Illinois, where they meet the fuel and clay, and the industry at that place has become a flourishing one. The amount of zinc ore in the Wisconsin lead region is, beyond doubt, very great, and will be a source of wealth for a long time to come.

Since the ores of zinc and lead in this region are confined to such a small thickness of strata greatly eroded by the atmospheric waters, the entire thickness having frequently been removed, it becomes a matter of great importance to know how much of the mining ground remains at every point throughout the district. The very excellent topographico-geological maps of the region, made by Mr. Moses Strong, and since published by the State in the Report of the Geological Survey, make this knowledge accessible to all.

IRON.

Iron mining in Wisconsin is yet in its infancy, although some important deposits are producing a considerable quantity of ore. A number of blast furnaces have sprung up in the eastern part of the state, but these smelt Michigan ores almost entirely. Much remains yet to be done in the way of exploration, for the most promising iron fields are in the heavily timbered and unsettled regions of the north part of the state, and are as yet imperfectly known. It appears probable, however, that iron ores will, in the near future, be the most important mineral production of Wisconsin. The several ores will be noted in the order of their *present* importance.

RED HEMATITES.

The iron in these ores exists as an anhydrous sesquioxide, which is, however, in an earthy condition, and entirely without the brilliant metallic luster that characterizes the specular hematites. Pure hematite contains seventy per cent. of metallic iron, but the red hematites, as mined, are always so largely mingled with mechanical impurities that they rarely contain more than fifty per cent. The most important red hematite mined in Wisconsin is that known as the *Clinton iron ore*, the name coming from the formation in which the ore occurs. This formation is a member of the Upper Silurian series, and is named from a locality in Oneida county, New York, where it was first recognized. Associated with its rocks, which are limestones and shales, is constantly found a peculiar red hematite, which is so persistent in its characters, both physical and

and chemical, that one familiar with it from any one locality can hardly fail to recognize it when coming from others. The iron produced from it is always "cold-short," on account of the large content of phosphorus; but, mingled with siliceous ores free from phosphorus, it yields always a most excellent foundry iron. It is mined at numerous points from New York to Tennessee, and at some points reaches a very great total thickness. In Wisconsin the Clinton rocks merge into the great Niagara limestone series of the eastern part of the state, but at the bottom of the series, in a few places, the Clinton ore is found immediately overlying the Cincinnati shales. The most important locality is that known as Iron Ridge, on sections twelve and thirteen in the town of Hubbard, in Dodge county. Here a north-and-south ledge of Niagara limestone overlooks lower land to the west. Underneath, at the foot of the ridge, is the ore bed, fifteen to eighteen feet in thickness, consisting of horizontally bedded ore, in layers three to fourteen inches thick. The ore has a concretionary structure, being composed of lenticular grains, one twenty-fifth of an inch in diameter, but the top layer is without this structure, having a dark purplish color, and in places a slight metallic appearance. Much of the lower ore is somewhat hydrated. Three quarters of a mile north of Iron Ridge, at Mayville, there is a total thickness of as much as forty feet. According to Mr. E. T. Sweet, the percentages of the several constituents of the Iron Ridge ore are as follows: iron peroxide, 66.38; carbonate of lime, 10.42; carbonate of magnesia, 2.79; silica, 4.72; alumina, 5.54; manganese oxide, 0.44; sulphur, 0.23; phosphoric acid, 0.73; water, 8.75 = 100; metallic iron, 46.66.

Two small charcoal furnaces at Mayville and Iron Ridge smelt a considerable quantity of these ores alone, producing an iron very rich in phosphorus. An analysis of the Mayville pig iron, also by Mr. Sweet, shows the following composition: iron, 95.784 per cent; phosphorus, 1.675; carbon, 0.849; silicon, 0.108 = 100.286. The average furnace yield of the ore is forty-five per cent. By far the larger part of the ore, however, is sent away to mingle with other ores. It goes to Chicago, Joliet and Springfield, Ill., St. Louis, Mo., Wyandotte and Jackson, Mich., and Appleton, Green Bay and Milwaukee, Wis. In 1872, the Iron Ridge mines yielded 82,371 tons. The Clinton ore is found at other places farther north along the outcrop of the base of the Niagara formation in Wisconsin, but no one of these appears to promise any great quantity of good ore. Red hematite is found at numerous places in Wisconsin, highly charging certain layers of the Potsdam sandstone series, the lowest one of the horizontal Wisconsin formations. In the eastern part of the town of Westfield, Sauk county, the iron ore excludes the sandstone, forming an excellent ore. No developments have been made in this district, so that the size of the deposit is not definitely known.

BROWN HEMATITES.

These ores contain their iron as the hydrated, or brown, sesquioxide, which, when pure, has about sixty per cent. of the metal; the ordinary brown hematites, however, seldom contain over forty per cent. *Bog iron ore*, a porous brown hematite that forms by deposition from the water of bogs, occurs somewhat widely scattered underneath the large marshes of Portage, Wood and Juneau counties. Very excellent bog ore, containing nearly 50 per cent. of iron, is found near Necedah, Juneau county, and near Grand Rapids, Wood county, but the amount obtainable is not definitely known. The Necedah ore contains: silica, 8.52; alumina, 3.77; iron peroxide, 71.40; manganese oxide, 0.27; lime, 0.58; magnesia, trace; phosphoric acid, 0.21; sulphur, 0.02; organic matter, 1.62; water, 13.16 = 99.85; metallic iron, 49.98—according to Mr. E. T. Sweet's analysis. An ore from section 34, twp. 23, range 6 east, Wood county, yielded, to Mr. Oliver Matthews, silica, 4.81; alumina, 1.00; iron peroxide, 73.23; lime, 0.11; magnesia, 0.25; sulphuric acid, 0.07; phosphoric acid, 0.10; organic matter, 5.88; water,

14.24; =99.69: metallic iron, 51.26.

Brown hematite, mingled with more or less red ore, occurs also in some quantity filling cracks and irregular cavities in certain portions of the Potsdam series in northwestern Sauk county and the adjoining portion of Richland. A small charcoal furnace has been in operation on this ore at Ironton, Sauk county, for a number of years, and recently another one has been erected at Cazenovia in the same district.

MAGNETIC ORES AND SPECULAR HEMATITES.

These are taken together here, because their geological occurrence is the same, the two ores occurring not only in the same group of rocks, but even intimately mingled with one another. These ores are not now produced in Wisconsin; but it is quite probable that they may before many years become its principal mineral production. In magnetic iron ore, the iron is in the shape of the mineral *magnetite*, an oxide of iron containing 72.4 per cent of iron when pure, and this is the highest percentage of iron that any ore can ever have. Specular hematite is the same as red hematite, but is crystalline, has a bright, metallic luster, and a considerable hardness. As mined the richest magnetic and specular ores rarely run over 65 per cent., while in most regions where they are mined they commonly do not reach 50 per cent. The amount of rich ores of this kind in the northern peninsula of Michigan is so great, however, that an ore with less than 50 per cent. finds no sale; and the same must be true in the adjoining states. So largely does this matter of richness affect the value of an ore, that an owner of a mine of 45 per cent. "hard" ore in Wisconsin would find it cheaper to import and smelt Michigan 65 per cent. ore, than to smelt his own, even if his furnace and mine were side by side.

The specular and magnetic ores of Wisconsin occur in two districts — the Penokee iron district, ten to twenty miles south of Lake Superior, in Bayfield, Ashland and Lincoln counties, and the Menomonee iron district, near the head waters of the Menomonee river, in township 40, ranges 17 and 18 east, Oconto county. Specular iron in veins and nests is found in small quantities with the quartz rocks of the Baraboo valley, Sauk county, and Necedah, Juneau county; and very large quantities of a peculiar quartz-schist, charged with more or less of the magnetic and specular iron oxides, occur in the vicinity of Black River Falls, Jackson county; but in none of these places is there any promise of the existence of valuable ore.

In the Penokee and Menomonee regions, the iron ores occur in a series of slaty and quartzose rocks known to geologists as the Haronian series. The rocks of these districts are really the extensions westward of a great rock series, which in the northern Michigan peninsula contains the rich iron ores that have made that region so famous. In position, this rock series may be likened to a great elongated parabola, the head of which is in the Marquette iron district and the two ends in the Penokee and Menomonee regions of Wisconsin. In all of its extent, this rock series holds great beds of lean magnetic and specular ores. These contain large quantities of quartz, which, from its great hardness, renders them very resistant to the action of atmospheric erosion. As a result, these lean ores are found forming high and bold ridges. Such ridges of lean ores have deceived many explorers, and not a few geologists. In the same rock series, for the most part occupying portions of a higher layer, are found, however, ores of extraordinary richness and purity, which, from their comparative softness, very rarely outcrop. The existence in quantity of these very rich ores in the Menomonee region has been definitely proven. One deposit, laid open during the Summer of 1877, shows a width of over 150 feet of first class specular ore; and exceeding in size the greatest of the famous deposits of Michigan. In the Penokee region, however, though the indications are favorable, the existence of the richer ores is as yet an inference only. The Penokee range itself is a wonderful development of

lean ore, which forms a continuous belt several hundred feet in width and over thirty miles in length. Occasionally portions of this belt are richer than the rest, and become almost merchantable ores. The probability is, however, that the rich ores of this region will be found in the lower country immediately north of the Penokee range, where the rocks are buried beneath heavy accumulations of drift material.

COPPER.

The only copper ore at present raised in Wisconsin is obtained near Mineral Point, in the lead region of the southwestern part of the state, where small quantities of *chalcophyrite*, the yellow sulphide of copper and iron, are obtained from pockets and limited crevices in the Galena limestone. Copper pyrites is known to occur in this way throughout the lead region, but it does not appear that the quantity at any point is sufficient to warrant exploration.

Copper occurs also in the northernmost portions of Wisconsin, where it is found under altogether different circumstances. The great copper-bearing series of rocks of Keweenaw point and Isle Royale stretch southwestward into and entirely across the state of Wisconsin, in two parallel belts. One of these belts enters Wisconsin at the mouth of the Montreal river, and immediately leaving the shore of Lake Superior, crosses Ashland and Bayfield counties, and then widening greatly, occupies a large area in Douglas, St. Croix, Barron and Chippewa counties. The other belt forms the backbone of the Bayfield peninsula, and crosses the northern part of Douglas county, forming a bold ridge, to the Minnesota line. The rocks of this great series appear to be for the most part of igneous origin, but they are distinctly bedded, and even interstratified with sandstone, shales, and coarse boulder-conglomerate, the whole series having generally a tilted position. In veins crossing the rock-beds, and scattered also promiscuously through the layers of both conglomerates and igneous rocks, pure metallic copper in fine flakes is often found. Mining on a small scale has been attempted at numbers of points where the rivers flowing northward into Lake Superior make gorges across the rock series, but at none of them has sufficient work been done to prove or disprove the existence of copper in paying quantity.

GOLD AND SILVER.

Small traces of gold have been detected by the writer in quartz from the crystalline rocks of Clark county, but there is no probability that any quantity of this metal will ever be found in the state. Traces of silver have also been found in certain layers of the copper series in Ashland county. Judging from the occurrence of silver in the same series not far to the east in Michigan, it seems not improbable that this metal may be found also in Wisconsin.

BRICK CLAYS.

These constitute a very important resource in Wisconsin. Extending inland for many miles from the shores of Lakes Michigan and Superior are stratified beds of clay of lacustrine origin, having been deposited by the lakes when greatly expanded beyond their present sizes. All of these clays are characterized by the presence of a large amount of carbonate of lime. Along Lake Superior they have not yet been utilized, but all through the belt of country bordering Lake Michigan they are dug and burned, fully 50,000,000 bricks being made annually in this region. A large proportion of these bricks are white or cream-colored, and these are widely known under the name of "Milwaukee brick," though by no means altogether made at Milwaukee. Others are ordinary red brick. The difference between the light-colored and red bricks is ordinarily attributed to the greater amount of iron in the clay from which the latter are

burned, but it has been shown by Mr. E. T. Sweet that the white bricks are burned from clay which often contains more iron than that from which the red bricks are made, but which also contains a very large amount of carbonate of lime. The following analyses show (1) the composition of the clay from which cream-colored brick are burned at Milwaukee, (2) the composition of a red-brick clay from near Madison, and (3) the composition of the unutilized clay from Ashland, Lake Superior. Nos. 1 and 2 are by Mr. E. T. Sweet, No. 3 by Professor W. W. Daniells:

	(1)	(2)	(3)		(1)	(2)	(3)
Silica.....	38.22	75.80	58.05	Potash.....	2.16	1.74	-----
Alumina.....	9.75	11.07	25.38	Soda.....	0.65	0.40	-----
Iron peroxide.....	2.84	3.53	4.41	Water.....	0.95	1.51	} 4.09
Iron protoxide.....	1.16	0.31		Moisture.....	1.85	2.16	
Lime.....	16.23	1.54	8.50				
Magnesia.....	7.54	.03		Totals.....	99.85	99.56	100.19
Carbonic acid.....	15.50	1.09	-----				

At Milwaukee 24,000,000 cream-colored brick are made annually; at Racine, 3,500,000; at Appleton and Menasha, 1,800,000 each; at Neenah, 1,600,000; at Clifton, 1,700,000; at Waterloo, 1,600,000; and in smaller quantities at Jefferson, Ft. Atkinson, Edgerton, Whitewater, Geneva, Ozaukee, Sheboygan Falls, Manitowoc, Kewaunee, and other places. In most cases the cream-colored bricks are made from a bright-red clay, although occasionally the clay is light-colored. At Whitewater and other places tile and pottery are also made from this clay.

Although these lacustrine clays are much the most important in Wisconsin, excellent brick clays are also found in the interior of the state. In numbers of places along the Yahara valley, in Dane county, an excellent stratified clay occurs. At Madison this is burned to a red brick; at Stoughton and Oregon to a fine cream-colored brick. At Platteville, Lancaster, and other points in the southwestern part of the state, red bricks are made from clays found in the vicinity.

KAOLIN (PORCELAIN-CLAY — FIRE-CLAY).

The word "kaolin" is applied by geologists to a clay-like material which is used in making chinaware in this country and in Europe. The word is of Chinese origin, and is applied by the Chinese to the substance from which the famous porcelain of China is made. Its application to the European porcelain-clay was made under the mistaken idea—one which has prevailed among scientists until very recently—that the Chinese material is the same as the European. This we now know to be an error, the Chinese and Japanese wares being both made altogether from a solid rock.

True kaolin, using the word in its European sense, is unlike other ordinary clays, in being the result of the disintegration of felspathic crystalline rocks "in place," that is without being removed from the place of its first formation. The base of kaolin is a mineral known as *kaolinite*, a compound of silica, alumina and water, which results from a change or decay of the felspar of felspar-bearing rocks. Felspar contains silica, alumina, and soda or potash, or both. By percolation through the rocks of surface water carrying carbonic acid, the potash and soda are removed and kaolinite results. Mingled with the kaolinite are, however, always the other ingredients of the rock, quartz, mica, etc., and also always some undecomposed, or only partly decomposed felspar. These foreign ingredients can all, however, be more or less perfectly removed by a system of levigation, when a pure white clay results, composed almost wholly of the scales of

the mineral kaolinite. Prepared in this way the kaolin has a high value as a refractory material, and for forming the base of fine porcelain wares.

The crystalline rocks, which, by decomposition, would produce a kaolin, are widely spread over the northern part of Wisconsin; but over the most of the region occupied by them there is no sign of the existence of kaolin, the softened rock having apparently been removed by glacial action. In a belt of country, however, which extends from Grand Rapids on the Wisconsin, westward to Black river, in Jackson county, the drift is insignificant or entirely absent; the glacial forces have not acted, and the crystalline rocks are, or once were, overlaid by sandstone, along whose line of junction with the underlying formation numerous water-courses have existed, the result being an unusual amount of disintegration. Here we find, in the beds of the Wisconsin, Yellow, and Black rivers, large exposures of crystalline rocks, which between the rivers are overlaid by sandstone. The crystalline rocks are in distinct layers, tilted at high angles, and in numerous places decomposed into a soft white kaolin. Inasmuch as these layers strike across the country in long, straight lines, patches of kaolin are found ranging themselves into similar lines. The kaolin patches are most abundant on the Wisconsin in the vicinity of the city of Grand Rapids, in Wood county. They vary greatly in size, one deposit even varying from a fraction of an inch to a number of feet in thickness. The kaolin varies, also, greatly in character, some being quite impure and easily fusible from a large content of iron oxide or from partial decomposition only, while much of it is very pure and refractory. There is no doubt, however, that a large amount of kaolin exists in this region, and that by selection and levigation an excellent material may be obtained, which, by mingling with powdered quartz, may be made to yield a fire-brick of unusual refractoriness, and which may even be employed in making fine porcelain ware.

The following table gives the composition of the raw clay, the fine clay obtained from it by levigation, and the coarse residue from the same operation, the sample having been taken from the opening on the land of Mr. C. B. Garrison, section 5, town 22, range 6 east, Wood county:

	LEVIGATION PRODUCTS.				LEVIGATION PRODUCTS.		
	RAW CLAY.	FINE CLAY.	COARSE RESIDUE.		RAW CLAY.	FINE CLAY.	COARSE RESIDUE.
Silica.....	78.83	49.94	92.56	Soda.....	0.67	0.08	0.05
Alumina.....	13.43	36.89	2.68	Carbonic Acid.....	0.01	.....	.....
Iron peroxide.....	0.74	0.72	0.74	Water.....	5.45	11.62	2.53
Lime.....	0.64	trace	0.66				
Magnesia.....	0.67	.....	0.10	Totals.....	99.60	99.67	99.60
Potash.....	0.37	0.51	0.28				

CEMENT-ROCK.

Certain layers of the Lower Magnesian limestone, as at Ripon, and other points in the eastern part of the state, are known to produce a lime which has in some degree the hydraulic property, and the same is true of certain layers of the Blue limestone of the Trenton group, in the southwestern part of the state; the most valuable material of this kind, however, that is as yet known to exist in Wisconsin, is found near Milwaukee, and has become very recently somewhat widely known as the "Milwaukee" cement-rock. This rock belongs to the Hamilton formation, and is found near the Washington street bridge, at Brown Deer, on the lake shore at Whitefish

bay, and at other points in the immediate vicinity of Milwaukee. The quantity attainable is large, and a very elaborate series of tests by D. J. Whittemore, chief engineer of the Milwaukee and St. Paul railroad, shows that the cement made from it exceeds all native and foreign cements in strength, except the famous English "Portland" cement. The following are three analyses of the rock from different points, and they show that it has a very constant composition:

	1.	2.	3.
Carbonate of Lime.....	45.54	42.20	41.34
Carbonate of Magnesia.....	32.49	29.19	34.88
Silica.....	17.56	17.36	16.99
Alumina.....	1.11	1.49	5.00
Iron Sesquioxide.....	3.03	2.24	1.79
Totals.....	100.00	98.65	100.00

LIMESTONE FOR MAKING QUICK-LIME.

Quick-lime is made from all of the great limestone formations of Wisconsin, but more is burnt from the Lower Magnesian and Niagara formations, than from the others. The Lower Magnesian yields a very strong mortar, but the lime burned from it is not very white. It is burned largely in the region about Madison, one of the largest quarries being on the south line of section 33 of that town, where some 20,000 bushels are produced annually, in two kilns. The lime from this place has a considerable local reputation under the name of "Madison lime." The Trenton limestone is burned at a few points, but yields an inferior lime. The Galena is not very generally burned, but yields a better lime than the Trenton. In the region about Watertown and White-water, some 40,000 to 50,000 barrels are made annually from this formation.

The Niagara, however, is the great lime furnisher of the northwest. From its purity it is adapted to the making of a most admirable lime. It is burned on a large scale at numbers of points in the eastern part of the state, among which may be mentioned, Pellon's kilns, Pewaukee, where 12,000 barrels are made weekly and shipped to Chicago, Grand Haven, Des Moines, etc.; and Holick & Son's kilns, Racine, which yield 60,000 to 75,000 barrels annually. A total of about 400,000 barrels is annually made from the Niagara formation in eastern Wisconsin.

LIMESTONE FOR FLUX IN IRON SMELTING.

The limestones of Wisconsin are rarely used as a flux, because of their prevalent magnesian character. The stone from Schoonmaker's quarry, near Milwaukee, is used at the Bay View iron works, and is one of the few cases. There are certain layers, however, in the Trenton limestone, widely spread over the southern part of the state, which are non-magnesian, and frequently sufficiently free from earthy impurities to be used as a flux. These layers deserve the attention of the iron masters of the state.

GLASS SAND.

Much of the St. Peter's sandstone is a purely siliceous, loose, white sand, well adapted to the making of glass. It is now being put to this use at points in the eastern part of the state.

PEAT.

Peat exists in large quantities and of good quality underneath the numerous marshes of the eastern and central parts of the state. Whether it can be utilized in the future as a fuel, will depend altogether upon the cost of its preparation, which will have to be very low in order that it may compete with superior fuels. As a fertilizer, peat has always a great value, and requires no preliminary treatment.

BUILDING STONES.

All the rocky formations of Wisconsin are used in building, and even the briefest synopsis of the subject of the building stones of the state, would exceed the limits of this paper. A few of the more prominent kinds only are mentioned.

Granite occurs in protruding masses, and also grading into gneiss, in the northern portions of the state, at numerous points. In many places on the Wisconsin, Yellow, and Black rivers, and especially at Big Bull Falls, Yellow river, red granites of extraordinary beauty and value occur. These are not yet utilized, but will in the future have a high value.

The handsomest and most valuable sandstone found in Wisconsin, is that which extends along the shore of Lake Superior, from the Michigan to the Minnesota line, and which forms the basement rock of the Apostle islands. On one of these islands a very large quarry is opened, from which are taken masses of almost any size, of a very close-grained, uniform, dark brown stone, which has been shipped largely to Chicago and Milwaukee. At the latter place, the well known court house is built of this stone. An equally good stone can be obtained from the neighboring islands, and from points on the mainland. A very good white to brown, indurated sandstone is obtained from the middle portions of the Potsdam series, at Stevens Point, Portage county; near Grand Rapids, Wood county; at Black River Falls, Jackson county; at Packwaukee, Marquette county; near Wautoma, Waushara county; and at several points in the Baraboo valley, Sauk county. A good buff-colored, calcareous sandstone is quarried and used largely in the vicinity of Madison, from the uppermost layers of the Potsdam series.

All of the limestone formations of the state are quarried for building stone. A layer known locally as the "Mendota" limestone, included in the upper layers of the Potsdam series, yields a very evenly bedded, yellow, fine-grained rock, which is largely quarried along the valley of the lower Wisconsin, and also in the country about Madison. In the town of Westport, Dane county, a handsome, fine-grained, cream-colored limestone is obtained from the Lower Magnesian. The Trenton limestone yields an evenly bedded, thin stone, which is frequently used for laying in wall. The Galena and Niagara are also utilized, and the latter is capable, in much of the eastern part of the state, of furnishing a durable, easily dressed, compact, white stone.

In preparing this paper, I have made use of Professor Whitney's "Metallic Wealth of the United States," and "Report on the Geology of the Lead Region;" of the advance sheets of Volume II of the Reports of the State Geological Survey, including Professor T. C. Chamberlin's Report on the Geology of Eastern Wisconsin, my own Report on the Geology of Central Wisconsin, and Mr. Strong's Report on the Geology of the Lead Region; Mr. E. T. Sweet's account of the mineral exhibit of the state at the Centennial Exposition; and of my unpublished reports on the geology of the counties bordering Lake Superior.

WISCONSIN RAILROADS.

By Hon. H. H. GILES.

The territory of Wisconsin offered great advantages to emigrants. Explorers had published accounts of the wonderful fertility of its soil, the wealth of its broad prairies and forest openings, and the beauty of its lakes and rivers. Being reached from the older states by way of the lakes and easily accessible by a long line of lake coast, the hardships incident to weeks of land travel were avoided. Previous to 1836 but few settlements had been made in that part of the then territory of Michigan, that year organized into the territory of Wisconsin, except as mining camps in the southwestern part, and scattered settlers in the vicinity of the trading posts and military stations. From that time on, with the hope of improving their condition, thousands of the enterprising yeomanry of New England, New York and Ohio started for the land of promise. Germans, Scandinavian^s and other nationalities, attracted by the glowing accounts sent abroad, crossed the ocean on their way to the new world; steamers and sail-craft laden with families and their household goods left Buffalo and other lake ports, all bound for the new Eldorado. It may be doubted if in the history of the world any country was ever peopled with the rapidity of southern and eastern Wisconsin. Its population in 1840 was 30,749; in 1850, 304,756; in 1860, 773,693; in 1870, 1,051,351; in 1875, 1,236,729. With the development of the agricultural resources of the new territory, grain raising became the most prominent interest, and as the settlements extended back from the lake shore the difficulties of transportation of the products of the soil were seriously felt. The expense incurred in moving a load of produce seventy or eighty miles to a market town on the lake shore frequently exceeded the gross sum obtained for the same. All goods, wares and merchandise, and most of the lumber used must also be hauled by teams from Lake Michigan. Many of our early settlers still retain vivid recollections of trying experiences in the Milwaukee woods and other sections bordering on the lake shore, from the south line of the state to Manitowoc and Sheboygan. To meet the great want—better facilities for transportation—a valuable land grant was obtained from congress, in 1838, to aid in building a canal from Milwaukee to Rock river. The company which was organized to construct it, built a dam across Milwaukee river and a short section of the canal; then the work stopped and the plan was finally abandoned. It was early seen that to satisfy the requirements of the people, railroads, as the most feasible means of communication within their reach, were an indispensable necessity.

CHICAGO, MILWAUKEE & ST. PAUL RAILWAY

Between the years 1838 and 1841, the territorial legislature of Wisconsin chartered several railroad companies, but with the exception of the "Milwaukee & Waukesha Railroad Company," incorporated in 1847, none of the corporations thus created took any particular shape. The commissioners named in its charter met November 23, 1847, and elected a president, Dr. L. W. Weeks, and a secretary, A. W. Randall (afterward governor of Wisconsin). On the first Monday of February, 1848, they opened books of subscription. The charter of the company provided

that \$100,000 should be subscribed and five per cent. thereof paid in before the company should fully organize as a corporation. The country was new. There were plenty of active, energetic men, but money to build railroads was scarce, and not until April 5, 1849, was the necessary subscription raised and percentage paid. A board of directors was elected on the 10th day of May, and Byron Kilbourn chosen president. The charter had been previously amended, in 1848, authorizing the company to build a road to the Mississippi river, in Grant county, and in 1850, its name was changed to the "Milwaukee & Mississippi Railroad Company." After the company was fully organized, active measures were taken to push the enterprise forward to completion. The city of Milwaukee loaned its credit, and in 1851 the pioneer Wisconsin railroad reached Waukesha, twenty miles out from Milwaukee. In the spring of 1852, Edward H. Broadhead, a prominent engineer, from from the state of New York, was put in charge of the work as chief engineer and superintendent. Under his able and energetic administration the road was pushed forward in 1852 to Milton, in 1853 to Stoughton, in 1854 to Madison, and in 1856 to the Mississippi river, at Prairie du Chien. In 1851 John Catlin of Madison, was elected president in place of Kilbourn.

The proposed length of this article will not admit of any detailed statement of the trials, struggles and triumphs of the men who projected, and finally carried across the state, from the lake to the river, this first Wisconsin railroad. Mitchell, Kilbourn, Holton, Tweedy, Catlin, Walker, Broadhead, Crocker and many others, deserve to be remembered by our people as benefactors of the state. In 1859 and 1860, the company defaulted in the payment of the interest on its bonds. A foreclosure was made and a new company, called the "Milwaukee & Prairie du Chien," took its place, succeeding to all its rights and property.

The "Southern Wisconsin Railway Company" was chartered in 1852, and authorized to build a road from Milton to the Mississippi river. When the Milwaukee and Mississippi road reached Milton in 1852, it was not authorized by its charter to go to Janesville, but, under the charter of the Southern Wisconsin, a company was organized that built the eight miles to Janesville in 1853. Under a subsequent amendment to the charter, the Milwaukee and Mississippi company was authorized to build from Milton to the Mississippi river. The Janesville branch was then purchased and extended to Monroe, a distance of about thirty-four miles, or forty-two miles west of Milton. Surveys were made and a line located west of Monroe to the river. The people of La Fayette and Grant counties have often been encouraged to expect a direct railroad communication with the city of Milwaukee. Other and more important interests, at least so considered by the railroad company, have delayed the execution of the original plan, and the road through the counties mentioned still remains unbuilt.

The "LaCrosse & Milwaukee Railroad Company" was chartered in 1852, to construct a road from LaCrosse to Milwaukee. During the year in which the charter was obtained, the company was organized, and the first meeting of the commissioners held at LaCrosse. Among its projectors were Byron Kilbourn and Moses M. Strong. Kilbourn was elected its first president. No work was done upon this line until after its consolidation with the "Milwaukee, Fond du Lac & Green Bay Railroad Company" in 1854. The latter company was chartered in 1853, to build a road from Milwaukee via West Bend to Fond du Lac and Green Bay. It organized in the spring of 1853, and at once commenced active operations under the supervision of James Kneeland, its first president. The city of Milwaukee loaned its credit for \$200,000, and gave city bonds. The company secured depot grounds in Milwaukee, and did considerable grading for the first twenty-five miles out. Becoming embarrassed in January, 1854, the Milwaukee, Fond du Lac & Green Bay consolidated with the LaCrosse & Milwaukee company. Work was at once resumed on the partially graded line. In 1855 the road was completed to Horicon, fifty miles.

The Milwaukee & Watertown company was chartered in 1851, to build from Milwaukee to Watertown. It soon organized, and began the construction of its line from Brookfield, fourteen miles west of Milwaukee, and a point on the Milwaukee & Mississippi road leading through Oconomowoc to Watertown. The charter contained a provision that the company might extend its road by way of Portage to La Crosse. It reached Watertown in 1856, and was consolidated with the LaCrosse & Milwaukee road in the autumn of the same year.

In the spring of 1856 congress made a grant of land to the state of Wisconsin, to aid in the building of a railroad from Madison, or Columbus, *via* Portage City, to the St. Croix river or lake, between townships 25 and 31, and from thence to the west end of Lake Superior, and to Bayfield. An adjourned session of the Wisconsin legislature met on September 3 of that year, to dispose of the grant. The disposal of this grant had been generally discussed by the press, and the public sentiment of the state seemed to tend toward its bestowal upon a new company. There is little doubt but that this was also the sentiment of a large majority of the members of both houses when the session commenced. When a new company was proposed a joint committee of twenty from the senate and assembly was appointed to prepare a bill, conferring the grant upon a company to be created by the bill itself. The work of the committee proceeded harmoniously until the question of who should be incorporators was to be acted upon, when a difference of opinion was found to exist, and one that proved difficult to harmonize. In the meantime the LaCrosse and Watertown companies had consolidated, and a sufficient number of the members of both houses were "propitiated" by "pecuniary compliments" to induce them to pass the bill, conferring the so called St. Croix grant upon the LaCrosse & Milwaukee railroad company. The vote in the assembly in the passage of the bill was, ayes 62, noes 7. In the senate it stood, ayes 17, noes 7.

At the session of the legislature of 1858 a committee was raised to investigate the matter, and their report demonstrated that bonds were set apart for all who voted for the LaCrosse bill; to members of assembly \$5,000 each, and members of senate \$10,000 each. A few months after the close of the legislative session of 1856 the land grant bonds of the LaCrosse road became worthless. Neither the LaCrosse company nor its successors ever received any portion of the lands granted to the state. During the year 1857 the LaCrosse company completed its line of road through Portage City to LaCrosse, and its Watertown line to Columbus.

The "Milwaukee & Horicon Railroad Company" was chartered in 1852. Between the years 1855 and 1857 it built through Waupun and Ripon to Berlin, a distance of forty-two miles. It was, in effect, controlled by the LaCrosse & Milwaukee company, although built as a separate branch. This line was subsequently merged in the LaCrosse company, and is now a part of the northern division of the Chicago, Milwaukee & St. Paul railway.

The "Madison, Fond du Lac & Lake Michigan Railroad Company" was chartered in 1855, to build a road from Madison *via* Fond du Lac to Lake Michigan. In 1857 it bought of the LaCrosse company that portion of its road acquired by consolidation with the Milwaukee & Watertown company. Its name was then changed to "Milwaukee & Western Railroad Company." It owned a line of road from Brookfield to Watertown, and branches from the latter place to Columbus and Sun Prairie, in all about eighty miles in length.

In 1858 and 1859 the LaCrosse & Milwaukee and the Milwaukee & Horicon companies defaulted in the payment of the interest on their bonded debts. In the same years the bondholders of the two companies instituted foreclosure proceedings on the different trust deeds given to secure their bonds. Other suits to enforce the payment of their floating debts were also commenced. Protracted litigation in both the state and federal courts resulted in a final settlement in 1868, by a decision of the supreme court of the United States. In the meantime, in 1862 and

1863, both roads were sold, and purchased by an association of the bondholders, who organized the "Milwaukee & St. Paul Railway Company." The new company succeeded to all the rights of both the La Crosse and Horicon companies, and soon afterward, in 1863, purchased the property of the Milwaukee & Western company, thus getting control of the roads from Milwaukee to La Crosse, from Horicon to Berlin, from Brookfield to Watertown, and the branches to Columbus and Sun Prairie. In 1864 it built from Columbus to Portage, from Brookfield to Milwaukee, and subsequently extended the Sun Prairie branch to Madison, in 1869. It also purchased the Ripon & Wolf River road, which had been built fifteen miles in length, from Ripon to Omro, on the Fox river, and extended it to Winneconne on the Wolf river, five miles farther, and twenty miles from Ripon. In 1867 the Milwaukee & St. Paul railway company obtained control of the Milwaukee & Prairie du Chien railroad. The legislature of 1857 had passed an act, authorizing all stock-holders in all incorporated companies to vote on shares of stock owned by them. The directors of the Milwaukee & St. Paul company had secured a majority of the common stock, and, at the election of 1867, elected themselves a board of directors for the Prairie du Chien company. All the rights, property and interests of the latter company came under the ownership and control of the former.

In 1865, Alexander Mitchell, of Milwaukee, was elected president, and S. S. Merrill general manager of the Milwaukee & St. Paul railway company. They were retained in their respective positions by the new organization, and still continue to hold these offices, a fact largely owing to the able and efficient manner that has characterized their management of the company's affairs. The company operates eight hundred and thirty-four miles of road in Wisconsin, and in all two thousand two hundred and seven miles. Its lines extend to St. Paul and Minneapolis in Minnesota, and to Algona in Iowa, and over the Western Union to Savanna and Rock Island in the State of Illinois.

The "Oshkosh & Mississippi Railroad Company" was chartered in 1866 to build a road from the city of Oshkosh to the Mississippi river. Its construction to Ripon in 1872 was a move on the part of citizens of Oshkosh to connect their town with the Milwaukee & St. Paul road. It is twenty miles in length and leased to the Chicago, Milwaukee & St. Paul company.

In 1871 and 1872 the "Wisconsin Union Railroad Company," of which John W. Cary was president, built a road from Milwaukee to the state line between Wisconsin and Illinois, to connect with a road built from Chicago to the state line of Illinois. This new line between Milwaukee and Chicago was built in the interest of, and in fact by, the Milwaukee & St. Paul company to afford a connection between its Wisconsin, Iowa and Minnesota system of roads, and the eastern trunk lines centering in Chicago. It runs parallel with the shore of Lake Michigan and from three to six miles from it, and is eighty-five miles in length.

THE CHICAGO & NORTHWESTERN RAILWAY.

The territorial legislature of 1848 chartered the "Madison & Beloit Railroad Company" with authority to build a railroad from Beloit to Madison only. In 1850, by an act of the legislature, the company was authorized to extend the road to the Wisconsin river and La Crosse, and to a point on the Mississippi river near St. Paul, and also from Janesville to Fond du Lac. Its name was changed, under legislative authority, to the "Rock River Valley Union Railroad Company." In 1851, the line from Janesville north not being pushed as the people expected, the legislature of Illinois chartered the "Illinois & Wisconsin Railroad Company" with authority to consolidate with any road in Wisconsin. In 1855, an act of the Wisconsin legislature consolidated the Illinois and Wisconsin companies with the "Rock River Valley Union Railroad Company," and the new organization took the name of the "Chicago, St. Paul & Fond du Lac Rail-

road Company." In 1854, and previous to the consolidation, the company had failed and passed into the hands of the bondholders, who foreclosed and took stock for their bonds. The old management of A. Hyatt Smith and John B. Macy was superseded, and Wm. B. Ogden was made president. Chicago was all along deeply interested in reaching the rich grain fields of the Rock river valley, as well as the inexhaustible timber and mineral wealth of the northern part of Wisconsin and that part of Michigan bordering on Lake Superior, called the Peninsula. It also sought a connection with the upper Mississippi region, then being rapidly peopled, by a line of railroad to run through Madison to St. Paul, in Minnesota. Its favorite road was started from Chicago on the wide (six feet) gauge, and so constructed seventy miles to Sharon on the Wisconsin state line. This was changed to the usual (four feet, eight and one-half inches) width, and the work was vigorously pushed, reaching Janesville in 1855 and Fond du Lac in 1858. The Rock River Valley Union railroad company had, however, built about thirty miles from Fond du Lac south toward Minnesota Junction before the consolidation took place. The partially graded line on a direct route between Janesville and Madison was abandoned. In 1852 a new charter had been obtained, and the "Beloit & Madison Railroad Company" had been organized to build a road from Beloit to Janesville to Madison. A subsequent amendment to this charter had left out Janesville as a point, and the Beloit branch was pushed through to Madison, reaching that city in 1864.

The "Galena and Chicago Union Railroad Company" had built a branch of the Galena line from Belvedere to Beloit previous to 1854. In that year, it leased the Beloit & Madison road, and from 1856 operated it in connection with the Milwaukee & Mississippi, reaching Janesville by way of Hanover Junction, a station on its Southern Wisconsin branch, eight miles west of Janesville. The consolidation of the Galena & Chicago Union and the Chicago, St. Paul & Fond du Lac companies was effected and approved by legislative enactment in 1855, and a new organization called the "Chicago & Northwestern Railway Company" took their place.

The "Green Bay, Milwaukee & Chicago Railroad Company" was chartered in 1851 to build a road from Milwaukee to the state line of Illinois to connect with a road from Chicago, called the Chicago & Milwaukee railroad. Both roads were completed in 1855, and run in connection until 1863, when they were consolidated under the name of the "Chicago & Milwaukee Railroad Company." To prevent its falling into the hands of the Milwaukee & St. Paul, the Chicago & Northwestern secured it by perpetual lease, May 2, 1866, and it is now operated as its Chicago division.

The "Kenosha & Beloit Railroad Company" was incorporated in 1853 to build a road from Kenosha to Beloit, and was organized soon after its charter was obtained. Its name was afterward changed to the "Kenosha, Rockford & Rock Island Railroad Company," and its route changed to run to Rockford instead of Beloit. The line starts at Kenosha, and runs through the county of Kenosha and crosses the state line near the village of Genoa in the county of Walworth, a distance of thirty miles in the state of Wisconsin, and there connects with a road in Illinois running to Rockford, and with which it consolidated. Kenosha and its citizens were the principal subscribers to its capital stock. The company issued its bonds, secured by the usual mortgage on its franchises and property. Failing to pay its interest, the mortgage was foreclosed, and the road was sold to the Chicago & Northwestern company in 1863, and is now operated by it as the Kenosha division. The line was constructed from Kenosha to Genoa in 1862.

The "Northwestern Union Railway Company" was organized in 1872, under the general railroad law of the state, to build a line of road from Milwaukee to Fond du Lac, with a branch to Lodi. The road was constructed during the years 1872 and 1873 from Milwaukee to Fond du Lac. The Chicago & Northwestern company were principally interested in its being built, to

shorten its line between Chicago and Green Bay, and now uses it as its main through line between the two points.

The "Baraboo Air-Line Railroad Company" was incorporated in 1870, to build a road from Madison, Columbus, or Waterloo *via* Baraboo, to La Crosse, or any point on the Mississippi river. It organized in the interest of the Chicago & Northwestern, with which company it consolidated, and the work of building a connecting line between Madison and Winona Junction was vigorously pushed forward. Lodi was reached in 1870, Baraboo in 1871, and Winona Junction in 1874. The ridges between Elroy and Sparta were tunneled at great expense and with much difficulty. In 1874 the company reported an expenditure for its three tunnels of \$476,743.32, and for the 129 1-10 miles between Madison and Winona Junction of \$5,342,169.96, and a large expenditure yet required to be made on it. In 1867 the Chicago & Northwestern company bought of D. N. Barney & Co. their interest in the Winona & St. Peters railway, a line being built westerly from Winona in Minnesota, and of which one hundred and five miles had been built. It also bought of the same parties their interest in the La Crosse, Trempealeau & Prescott railway, a line being built from Winona Junction, three miles east of La Crosse, to Winona, Minn. The latter line was put in operation in 1870, and is twenty-nine miles long. With the completion of its Madison branch to Winona junction, in 1873, it had in operation a line from Chicago, *via* Madison and Winona, to Lake Kampeska, Minn., a distance of six hundred and twenty-three miles.

In the year 1856 a valuable grant of land was made by congress to the state of Wisconsin to aid in the construction of railroads. The Chicago, St. Paul & Fond du Lac company claimed that the grant was obtained through its efforts, and that of right it should have the northeastern grant, so-called. At the adjourned session of the legislature of 1856, a contest over the disposition of the grant resulted in conferring it upon the "Wisconsin & Superior Railroad Company," a corporation chartered for the express purpose of giving it this grant. It was generally believed at the time that the new company was organized in the interest of the Chicago, St. Paul & Fond du Lac company, and at the subsequent session, in the following year, it was authorized to consolidate with the new company, which it did in the spring of that year, and thus obtained the grant of 3,840 acres per mile along its entire line, from Fond du Lac northerly to the state line between Wisconsin and Michigan. It extended its road to Oshkosh in 1859, to Appleton in 1861, and in 1862 to Fort Howard, forming a line two hundred and forty-two miles long. The line from Fort Howard to Escanaba, one hundred and fourteen miles long, was opened in December, 1873, and made a connection with the peninsular railroad of Michigan. It now became a part of the Chicago & Northwestern, extending from Escanaba to the iron mines, and thence to Lake Superior at Marquette. Albert Keep, of Chicago, is president, and Marvin Hughitt, a gentleman of great railroad experience, is general superintendent. The company operates five hundred and sixty-seven miles of road in Wisconsin, and in all sixteen hundred and sixteen miles. Its lines extend into five different states. Over these lines its equipment is run in common, or transferred from place to place, as the changes in business may temporarily require.

WISCONSIN CENTRAL RAILROAD.

The "Milwaukee & Northern Railway Company" was incorporated in 1870, to build a road from Milwaukee to some point on the Fox river below Winnebago lake, and thence to Lake Superior, with branches. It completed its road to Menasha, one hundred and two miles from Milwaukee, with a branch from Hilbert to Green Bay, twenty-seven miles, in 1873, and in that year leased its line to the "Wisconsin Central Railroad Company," which is still operating it. In

1864 congress made a grant of land to the state of Wisconsin to aid in the construction of a railroad from Berlin, Doty's Island, Fond du Lac, or Portage, by way of Stevens Point, to Bayfield or Superior, granting the odd sections within ten miles on each side of the line, with an indemnity limit of twenty miles on each side. The legislature of 1865 failed to dispose of this grant, but that of 1866 provided for the organization of two companies, one to build from Portage City by way of Berlin to Stevens Point, and the other from Menasha to the same point, and then jointly to Bayfield and Lake Superior. The former was called the "Winnebago and Lake Superior Railroad Company," and the latter the "Portage & Superior Railroad Company." In 1869 an act was passed consolidating the two companies, which was done under the name of the "Portage, Winnebago & Superior Railroad Company." In 1871 the name of the company was changed to the "Wisconsin Central Railroad Company." The Winnebago & Lake Superior company was organized under Hon. George Reed as president, and at once commenced the construction of its line of road between Menasha and Stevens Point. In 1871 the Wisconsin Central consolidated with the "Manitowoc & Mississippi Railroad Company." The articles of consolidation provided that Gardner Colby, a director of the latter company, should be president, and that George Reed, a director of the former, should be vice president of the new organization; with a further provision that Gardner Colby, George Reed, and Elijah B. Phillips should be and remain its executive committee.

In 1871, an act was passed incorporating the "Phillips and Colby Construction Company," which created E. B. Phillips, C. L. Colby, Henry Pratt, and such others as they might associate with them, a body corporate, with authority to build railroads and do all manner of things relating to railroad construction and operation. Under this act the construction company contracted with the Wisconsin Central railroad company, to build its line of road from Menasha to Lake Superior. In November, 1873, the Wisconsin Central leased of the Milwaukee & Northern company its line of road extending from Schwartzburg to Menasha, and the branch to Green Bay, for the term of nine hundred and ninety-nine years, and also acquired the rights of the latter company to use the track of the Chicago, Milwaukee & St. Paul company between Schwartzburg and Milwaukee, and to depot facilities in Milwaukee. The construction of the land grant portion of this important line of road was commenced in 1871, and it was completed to Stevens Point in November of that year. It was built from Stevens Point north one hundred miles to Worcester in 1872. During 1872 and 1873, it was built from Ashland south to the Penoka iron ridge, a distance of thirty miles. The straight line between Portage City and Stevens Point, authorized by an act of the legislature of 1875, was constructed between October 1, 1875, and October, 1876, seven'y-one miles in length. The gap of forty-two miles between Worcester and Penoka iron ridge was closed in June, 1877. E. B. Phillips, of Milwaukee, is president and general manager. This line of road passes through a section of our state hitherto unsettled. It has been pushed through with energy, and opened up for settlement an immense region of heavily timbered land, and thus contributed to the growth and prosperity of the state.

THE WESTERN UNION RAILROAD.

The "Racine, Janesville & Mississippi Railroad Company" was chartered in 1852, to build a road from Racine to Beloit, and was organized the same year. The city of Racine issued its bonds for \$300,000 in payment for that amount of stock. The towns of Racine, Elkhorn, Delavan and Beloit gave \$100,000, and issued their bonds, and farmers along the line made liberal subscriptions and secured the same by mortgages on their farms. The road was built to Burlington in 1855, to Delavan early in 1856, and to Beloit, sixty-eight miles from Racine, during the same year. Failing to meet the interest on its bonds and its floating indebtedness, it was sur-

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rendered by the company to the bond-holders in 1859, who completed it to Freeport during that year, and afterward built to the Mississippi river at Savannah, and thence to Rock Island. The bond-holders purchased and sold the road in 1866, and a new organization was had as the "Western Union Railroad Company," and it has since been operated under that name. In 1869, it built a line from Elkhorn to Eagle, seventeen miles, and thus made a connection with Milwaukee over the Chicago, Milwaukee & St. Paul line. The latter company owns a controlling interest in its line. Alexander Mitchell is the president of the company, and D. A. Olin, general superintendent.

WEST WISCONSIN RAILROAD.

The lands granted by congress in 1856 to aid in the construction of a railroad in Wisconsin, from Tomah to Superior and Bayfield, were disposed of as mentioned under the history of the Chicago, Milwaukee & St. Paul company. The La Crosse company, as we have seen, prevailed in the legislature of 1856, and secured legislation favorable to its interests; but it failed to build the line of road provided for, and forfeited its right to lands granted. In 1863, the "Tomah & Lake St. Croix Railroad Company" was incorporated, with authority to construct a railroad from some point in the town of Tomah in Monroe county, to such point on Lake St. Croix, between townships 25 and 31 as the directors might determine. To the company, by the act creating it, was granted all the interest and estate of this state, to so much of the lands granted by the United States to the state of Wisconsin, known as the St. Croix grant, as lay between Tomah and Lake St. Croix. A few months after its organization, the company passed substantially into the hands of D. A. Baldwin and Jacob Humbird, who afterward built a line of road from Tomah, *via* Black River Falls, and Eau Claire to Hudson, on Lake St. Croix, one hundred and seventy-eight miles. Its name was afterward changed to the "West Wisconsin Railroad Company." In 1873, it built its road from Warren's Mills *via* Camp Douglass, on the St. Paul road to Elroy, and took up its track from the first-named place, twelve miles, to Tomah. A law-suit resulted, which went against the railroad company, and the matter was finally compromised by the payment of a sum of money by the company to the town of Tomah. The road was built through a new and sparsely settled country, and its earnings have not been sufficient to enrich its stock-holders. It connects at Camp Douglass with the Chicago, Milwaukee & St. Paul road, and at Elroy with the Chicago & Northwestern railway company's line, which gives the latter a through line to St. Paul. It is operated in connection with the Chicago & Northwestern railway, and managed in its interest. It is now in the hands of Wm. H. Ferry, of Chicago, as receiver; H. H. Potter, of Chicago, as president; and E. W. Winter, of Hudson, superintendent.

THE MILWAUKEE, LAKE SHORE & WESTERN RAILWAY.

In 1870, the "Milwaukee, Manitowoc & Green Bay Railroad Company" was chartered to build a road from Milwaukee to Green Bay by way of Manitowoc. It built its line from Milwaukee to Manitowoc in 1873, when its name was changed to "Milwaukee, Lake Shore & Western Railroad Company." Under a decree of foreclosure, it was sold Dec. 10, 1875, and its name was changed to "Milwaukee, Lake Shore & Western Railway Company," by which name it is still known.

In 1866, the "Appleton & New London Railroad Company" was incorporated to build a road from Appleton to New London, and thence to Lake Superior. A subsequent amendment to its charter authorized it to extend its road to Manitowoc. It built most of the line from Appleton to that city, and then, under legislative authority, sold this extension to the Milwau-

kee, Lake Shore & Western railroad company. The last-named company extended it to New London, on the Wolf river, twenty-one miles, in 1876, where it connects with the Green Bay & Minnesota road. It now operates one hundred and forty-six miles of road, extending from Milwaukee to New London, passing through Sheboygan, Manitowoc and Appleton, which includes a branch line six miles in length from Manitowoc to Two Rivers. F. W. Rhineland, of New York, is its president, and H. G. H. Reed, of Milwaukee, superintendent.

THE GREEN BAY & MINNESOTA RAILROAD.

The line of road operated by this company extends from Fort Howard to the Mississippi river, opposite Winona, Minnesota. It is two hundred and sixteen miles in length, and was built through a sparsely settled and heavily timbered section of the state. It began under most discouraging circumstances, yet was pushed through by the energy of a few men at Green Bay and along its line. It was originally chartered in 1866 as the "Green Bay & Lake Pepin Railroad Company" to build a road from the mouth of the Fox river near Green Bay to the Mississippi river opposite Winona. But little was done except the making of preliminary surveys in 1870. During 1870 and 1871, forty miles were constructed and put in operation. In 1872, one hundred and fourteen miles were graded, the track laid, and the river reached, sixty-two miles farther, in 1873. In 1876, it acquired the right to use the "Winona cut-off" between Winona and Onalaska, and built a line from the latter point to La Crosse, seven miles, thus connecting its road with the chief city of Wisconsin on the Mississippi river. The city of La Crosse aided this extension by subscribing \$75,000 and giving its corporation bonds for that amount. Henry Ketchum, of New London, is president of the company, and D. M. Kelly, of Green Bay, general manager.

WISCONSIN VALLEY ROAD.

The "Wisconsin Valley Railroad Company" was incorporated in 1871 to build a road from a point on or near the line of the Milwaukee & La Crosse railroad, between Kilbourn City and the tunnel in said road to the village of Wausau, in the county of Marathon, and the road to pass not more than one mile west of the village of Grand Rapids, in the county of Wood. The road was commenced at Tomah, and graded to Centralia in 1872, and opened to that village in 1873, and during 1874 it was completed to Wausau, ninety miles in its whole length. Boston capitalists furnished the money, and it is controlled in the interest of the Dubuque & Minnesota railroad, through which the equipment was procured. The lumber regions of the Wisconsin river find an outlet over it, and its junction with the Chicago, Milwaukee & St. Paul road at Tomah enables a connection with the railroads of Iowa and Minnesota. It gives the people of Marathon county an outlet long needed for a large lumber traffic, and also enables them to receive their goods and supplies of various kinds for the lumbering region tributary to Wausau. James F. Joy, of Detroit, is president, and F. O. Wyatt, superintendent.

SHEBOYGAN & FOND DU LAC RAILROAD.

The "Sheboygan & Mississippi Railroad Company" was incorporated in 1852, to build a road from Sheboygan to the Mississippi river. It was completed from Sheboygan to Plymouth in 1858, to Glenbeulah in 1862, to Fond du Lac in 1868, and to Princeton in 1872. The extension from Fond du Lac to Princeton was built under authority of an act passed in 1871.

Under a foreclosure in 1861 the line from Sheboygan to Fond du Lac was sold, and the name of the company changed to "Sheboygan & Fond du Lac Railroad Company." The length of

the line is seventy-eight miles, and it passes through a fertile agricultural country. The city of Sheboygan, county, city and town of Fond du Lac, and the towns of Riverdale, Ripon, Brooklyn, Princeton, and St. Marie, aided in its building to an amount exceeding \$250,000. D. L. Wells is president, and Geo. P. Lee, superintendent.

THE MINERAL POINT RAILROAD.

The "Mineral Point Railroad Company" was chartered in 1852, to build a road from Mineral Point, in the county of Iowa, to the state line, in township number one, in either the county of Green or LaFayette. It was completed to Warren, in the state of Illinois, thirty-two miles, in 1855, making a connection at that point with the Illinois Central, running from Chicago to Galena. Iowa county loaned its credit and issued its bonds to aid in its construction. It was sold under foreclosure in 1856. Suits were brought against Iowa county to collect the amount of its bonds, and judgment obtained in the federal courts. Much litigation has been had, and ill feeling engendered, the supervisors of the county having been arrested for contempt of the decree of the court. Geo. W. Cobb, of Mineral Point, is the general manager.

The Dubuque, Platteville & Milwaukee railroad was completed in July, 1870, and extends from Calamine, a point on the Mineral Point railroad, to the village of Platteville, eighteen miles, and is operated by the Mineral Point railroad company.

MADISON & PORTAGE RAILROAD.

The legislature of 1855 chartered the "Sugar River Valley Railroad Company" to build a road from a point on the north side of the line of the Southern Wisconsin road, within the limits of Green county, to Dayton, on the Sugar river. In 1857 it was authorized to build south to the state line, and make its northern terminus at Madison. In 1861 it was authorized to build from Madison to Portage City, and from Columbus to Portage City, and so much of the land grant act of 1856, as related to the building of the road from Madison, and from Columbus to Portage City, was annulled and repealed, and the rights and privileges that were conferred upon the LaCrosse company were given to the Sugar River Valley railroad company, and the portion of the land grant, applicable to the lines mentioned, was conferred upon the last named company. Under this legislation about twenty miles of the line between Madison and Portage were graded, and the right of way secured for about thirty of the thirty-nine miles. The LaCrosse company had done considerable grading before its right was annulled. In 1866 the company was relieved from constructing the road from Columbus to Portage City. In 1870 the purchasers of that part of the Sugar River Valley railroad lying between Madison and Portage City were incorporated as the "Madison & Portage Railroad Company," and to share all the rights, grants, etc., that were conferred upon the Sugar River railroad company by its charter, and amendments thereto, so far as related to that portion of the line.

Previous to this time, in 1864 and 1865, judgments had been obtained against the Sugar River Valley company; and its right of way, grading and depot grounds sold for a small sum. James Campbell, who had been a contractor with the Sugar River Valley company, with others, became the purchasers, and organized under the act of 1870, and, during the year 1871, completed it between Madison and Portage City, and in March, 1871, leased it to the Milwaukee & St. Paul company, and it is still operated by that corporation. In 1871 the Madison & Portage company was authorized to extend its road south to the Illinois state line, and north from Portage City to Lake Winnebago. The same year it was consolidated with the "Rockford Central

Railroad Company," of Illinois, and its name changed to the "Chicago & Superior Railroad Company," but still retains its own organization. The Madison & Portage railroad company claims a share in the lands granted by acts of congress in 1856, and have commenced proceedings to assert its claim, which case is still pending in the federal courts.

NORTH WISCONSIN RAILROAD.

The "North Wisconsin Railroad Company" was incorporated in 1869, to build a road from Lake St. Croix, or river, to Bayfield on Lake Superior. The grant of land by congress in 1856, to aid in building a road from Lake St. Croix to Bayfield on Lake Superior, under the decision of the federal court, was yet at the disposal of the state. This company, in 1871, built a short section of its line of road, with the expectation of receiving the grant. In 1873, the grant was conferred upon the Milwaukee & St. Paul company, but under the terms and restrictions contained in the act, it declined to accept it. The legislature of 1874 gave it to the North Wisconsin company, and it has built forty miles of its road, and received the lands pertaining thereto. Since 1876, it has not completed any part of its line, but is trying to construct twenty miles during the present year. The company is authorized to construct a road both to Superior and to Bayfield, but the act granting the lands confers that portion from Superior to the intersection of the line to Bayfield upon the Chicago & North Pacific air-line railroad. This last-named company have projected a line from Chicago to the west end of Lake Superior, and are the owners of an old grade made through Walworth and Jefferson counties, by a company chartered in 1853 as the "Wisconsin Central," to build a road from Portage City to Geneva, in the county of Walworth. The latter company had also graded its line between Geneva and the state line of Illinois. This grade was afterward appropriated by the Chicago & Northwestern, and over it they now operate their line from Chicago to Geneva.

PRAIRIE DU CHIEN & MCGREGOR RAILROAD.

This is a line two miles in length, connecting Prairie du Chien in Wisconsin, with McGregor in Iowa. It is owned and operated by John Lawler, of the latter-named place. It extends across both channels of the Mississippi river, and an intervening island. The railroad bridge consists of substantial piling, except a pontoon draw across each navigable channel. Each pontoon is four hundred feet long and thirty feet wide, provided with suitable machinery and operated by steam power. Mr. Lawler has secured a patent on his invention of the pontoon draw for railroad bridges. His line was put in operation in April, 1874.

THE CHIPPEWA FALLS & WESTERN RAILROAD.

This road was built in 1874, by a company organized under the general law of the state. It is eleven miles in length, and connects the "Falls" with the West Wisconsin line at Eau Claire. It was constructed by the energetic business men and capitalists of Chippewa Falls, to afford an outlet for the great lumber and other interests of that thriving and prosperous city. The road is substantially built, and the track laid with steel rails.

NARROW GAUGE RAILROADS.

The "Galena & Southern Wisconsin Railroad Company" was incorporated in 1857. Under its charter, a number of capitalists of the city of Galena, in the state of Illinois, commenced

the construction of a narrow (three feet) gauge road, running from that city to Platteville, thirty-one miles in length, twenty miles in Wisconsin. It runs through a part of La Fayette county to Platteville, in Grant county, and was completed to the latter point in 1875. Surveys are being made for an extension to Wingville, in Grant county.

The "Fond du Lac, Amboy & Peoria Railway Company" was organized under the general law of the state, in 1874, to build a narrow gauge road from the city of Fond du Lac to the south line of the state in the county of Walworth or Rock, and it declared its intention to consolidate with a company in Illinois that had projected a line of railroad from Peoria, in Illinois, to the south line of the state of Wisconsin. The road is constructed and in operation from Fond du Lac to Iron Ridge, a point on the Chicago, Milwaukee & St. Paul railway, twenty-nine miles from Fond du Lac.

The "Pine River & Steven's Point Railroad Company" was organized by the enterprising citizens of Richland Center, and has built a narrow gauge road from Lone Rock, a point on the Chicago, Milwaukee & St. Paul road, in Richland county, to Richland Center, sixteen miles in length. Its track is laid with wooden rails, and it is operated successfully.

The "Chicago & Tomah Railroad Company" organized under the general railroad law of the state, in 1872, to construct a narrow gauge road from Chicago, in Illinois, to the city of Tomah, in Wisconsin. Its president and active manager is D. R. Williams, of Clermont, Iowa, and its secretary is L. M. Culver, of Wauzeka. It has graded about forty-five miles, extending from Wauzeka up the valley of the Kickapoo river, in Crawford county, Wisconsin. It expects to have fifty-four miles in operation, to Bloomingdale, in Vernon county, the present year (1877). The rolling stock is guaranteed, and the president is negotiating for the purchase of the iron. South of Wauzeka the line is located to Belmont, in Iowa county. At Wauzeka it will connect with the Chicago, Milwaukee & St. Paul line.

The public-spirited citizens of Necedah, in Juneau county, have organized under the general law of the state, and graded a road-bed from their village to New Lisbon, on the Chicago, Milwaukee & St. Paul company's line. The latter company furnish and lay the iron, and will operate the road. It is thirteen miles in length.

CONCLUSION.

The railroads of Wisconsin have grown up under the requirements of the several localities that have planned and commenced their construction, and without regard to any general system. Frequently the work of construction was begun before adequate means were provided, and bankruptcy overtook the roads in their early stages. The consolidation of the various companies, as in the cases of the Chicago, Milwaukee & St. Paul, the Chicago & Northwestern, and others, has been effected to give through lines and the public greater facilities, as well as to introduce economy in management. At times the people have become apprehensive, and by legislative action prohibited railroads from consolidating, and have sought to control and break down the power of these corporations and to harmonize the interests of the companies and the public. The act of 1874, called the "Potter law," was the assertion, by the legislative power of the state, of its right to control corporations created by itself, and limit the rates at which freight and passengers should be carried. After a long and expensive contest, carried through the state and federal courts, this right has been established, being finally settled by the decision of the supreme court of the United States.

Quite all the railroads of Wisconsin have been built with foreign capital. The plan pursued after an organization was effected, was to obtain stock subscriptions from those immediately

interested in the enterprise, procure the aid of counties and municipalities, and then allure the farmers, with the prospect of joint ownership in railroads, to subscribe for stock and mortgage their farms to secure the payment of their subscriptions. Then the whole line was bonded and a mortgage executed. The bonds and mortgages thus obtained, were taken to the money centers of New York, London, Amsterdam and other places, and sold, or hypothecated to obtain the money with which to prosecute the work. The bonds and mortgages were made to draw a high rate of interest, and the earnings of these new roads, through unsettled localities, were insufficient to pay more than running and incidental expenses, and frequently fell short of that. Default occurring in the payment of interest, the mortgages were foreclosed and the property passed into the hands and under the control of foreign capitalists. Such has been the history of most of the railroads of our state. The total number of farm mortgages given has been 3,785, amounting to \$4,079,433; town, county and municipal bonds, amounting to \$6,910,652. The total cost of all the railroads in the state, as given by the railroad commissioner in his report for 1876, has been \$98,343,453.67. This vast sum is, no doubt, greatly in excess of what the cost should have been, but the roads have proved of immense benefit in the development of the material resources of the state.

Other lines are needed through sections not yet traversed by the iron steed, and present lines should be extended by branch roads. The questions upon which great issues were raised between the railway corporations and the people, are now happily settled by securing to the latter their rights; and the former, under the wise and conciliatory policy pursued by their managers, are assured of the safety of their investments. An era of good feeling has succeeded one of distrust and antagonism. The people must use the railroads, and the railroads depend upon the people for sustenance and protection. This mutuality of interest, when fully recognized on both sides, will result in giving to capital a fair return and to labor its just reward.

LUMBER MANUFACTURE.

By W. B. JUDSON.

Foremost among the industries of Wisconsin is that of manufacturing lumber. Very much of the importance to which the state has attained is due to the development of its forest wealth. In America, agriculture always has been, and always will be, the primary and most important interest; but no nation can subsist upon agriculture alone. While the broad prairies of Illinois and Iowa are rich with a fertile and productive soil, the hills and valleys of northern Wisconsin are clothed with a wealth of timber that has given birth to a great manufacturing interest, which employs millions of capital and thousands of men, and has peopled the northern wilds with energetic, prosperous communities, built up enterprising cities, and crossed the state with a network of railways which furnish outlets for its productions and inlets for the new populations which are ever seeking for homes and employment nearer to the setting sun.

If a line be drawn upon the state map, from Green Bay westward through Stevens Point, to where it would naturally strike the Mississippi river, it will be below the southern boundary of the pine timber regions, with the single exception of the district drained by the Yellow river, a tributary of the Wisconsin, drawing its timber chiefly from Wood and Juneau counties. The territory north of this imaginary line covers an area a little greater than one half of the state. The pine timbered land is found in belts or ridges, interspersed with prairie openings, patches of hardwood and hemlock, and drained by numerous water-courses. No less than seven large

rivers traverse this northern section, and, with their numerous tributaries, penetrate every county, affording facilities for floating the logs to the mills, and, in many instances, the power to cut them into lumber. This does not include the St. Croix, which forms the greater portion of the boundary line between Wisconsin and Minnesota, and, by means of its tributaries, draws the most and best of its pine from the former state. These streams divide the territory, as far as lumbering is concerned, into six separate and distinct districts: The Green bay shore, which includes the Wisconsin side of the Menomonee, the Peshtigo and Oconto rivers, with a number of creeks which flow into the bay between the mouths of the Oconto and Fox rivers; the Wolf river district; the Wisconsin river, including the Yellow, as before mentioned; the Black river; the Chippewa and Red Cedar; and the Wisconsin side of the St. Croix.

Beginning with the oldest of these, the Green bay shore, a brief description of each will be attempted. The first saw-mill built in the state, of which there is now any knowledge, was put in operation in 1809, in Brown county, two or three miles east from Depere, on a little stream which was known as East river. It was built by Jacob Franks, but probably was a very small affair. Of its machinery or capacity for sawing, no history has been recorded, and it is not within the memory of any inhabitant of to-day. In 1829, John P. Arndt, of Green Bay, built a water-power mill on the Pensaukee river at a point where the town of Big Suamico now stands. In 1834, a mill was built on the Wisconsin side of the Menomonee, and, two years later, one at Peshtigo. Lumber was first shipped to market from this district in 1834, which must be termed the beginning of lumbering operations on the bay shore. The lands drained by the streams which flow into Green bay are located in Shawano and Oconto counties, the latter being the largest in the state. In 1847, Willard Lamb, of Green Bay, made the first sawed pine shingles in that district; they were sold to the Galena railroad company for use on depot buildings, and were the first of the kind sold in Chicago. Subsequently Green Bay became one of the greatest points for the manufacture of such shingles in the world. The shores of the bay are low, and gradually change from marsh to swamp, then to level dry land, and finally become broken and mountainous to the northward. The pine is in dense groves that crowd closely upon the swamps skirting the bay, and reach far back among the hills of the interior. The Peshtigo flows into the bay about ten miles south of the Menomonee, and takes its rise far back in Oconto county, near to the latter's southern tributaries. It is counted a good logging stream, its annual product being from 40,000,000 to 60,000,000 feet. The timber is of a rather coarse quality, running but a small percentage to what the lumbermen term "uppers." About ten per cent. is what is known as Norway pine. Of the whole amount of timber tributary to the Peshtigo, probably about one third has been cut off to this date. The remainder will not average of as good quality, and only a limited portion of the land is of any value for agricultural purposes after being cleared of the pine. There are only two mills on this stream, both being owned by one company. The Oconto is one of the most important streams in the district. The first saw-mill was built on its banks about the year 1840, though the first lumbering operations of any account were begun in 1845 by David Jones. The business was conducted quite moderately until 1856, in which year several mills were built, and from that date Oconto has been known as quite an extensive lumber manufacturing point. The timber tributary to this stream has been of the best quality found in the state. Lumber cut from it has been known to yield the extraordinarily high average of fifty and sixty per cent. uppers. The timber now being cut will not average more than half that. The proportion of Norway is about five per cent. It is estimated that from three fourths to four fifths of the timber tributary to the Oconto has been cut away, but it will require a much longer time to convert the balance into lumber than was necessary to cut its equivalent in amount, owing to its remote location. The annual production

of pine lumber at Oconto is from 50,000,000 to 65,000,000 feet. The whole production of the district, exclusive of the timber which is put into the Menomonee from Wisconsin, is about 140,000,000 feet annually.

The Wolf river and its tributaries constitute the next district, proceeding westward. The first saw logs cut on this stream for commercial purposes were floated to the government mill at Neenah in 1835. In 1842, Samuel Farnsworth erected the first saw-mill on the upper Wolf near the location of the present village of Shawano, and in the following spring he sent the first raft of lumber down the Wolf to Oshkosh. This river also rises in Oconto county, but flows in a southerly direction, and enters Winnebago lake at Oshkosh. Its pineries have been very extensive, but the drain upon them within the past decade has told with greater effect than upon any other district in the state. The quality of the timber is very fine, and the land is considered good for agricultural purposes, and is being occupied upon the lines of the different railways which cross it. The upper waters of the Wolf are rapid, and have a comparatively steady flow, which renders it a very good stream for driving logs. Upon the upper river, the land is quite rolling, and about the head-waters is almost mountainous. The pine timber that remains in this district is high up on the main river and branches, and will last but a few years longer. A few years ago the annual product amounted to upward of 250,000,000 feet; in 1876 it was 138,000,000. The principal manufacturing points are Oshkosh and Fond du Lac; the former has 21 mills, and the latter 10.

Next comes the Wisconsin, the longest and most crooked river in the state. It rises in the extreme northern sections, and its general course is southerly until, at Portage City, it makes a grand sweep to the westward and unites with the Mississippi at Prairie du Chien. It has numerous tributaries, and, together with these, drains a larger area of country than any other river in the state. Its waters flow swiftly and over numerous rapids and embryo falls, which renders log-driving and raft-running very difficult and even hazardous. The timber is generally near the banks of the main stream and its tributaries, gradually diminishing in extent as it recedes from them and giving place to the several varieties of hard-woods. The extent to which operations have been carried on necessitates going further up the stream for available timber, although there is yet what may be termed an abundant supply. The first cutting of lumber on this stream, of which there is any record, was by government soldiers, in 1808, at the building of Fort Winnebago. In 1831, a mill was built at Whitney's rapids, below Point Bass, in what was then Indian territory. By 1840, mills were in operation as high up as Big Bull falls, and Wausau had a population of 350 souls. Up to 1876, the product of the upper Wisconsin was all sent in rafts to markets on the Mississippi. The river above Point Bass is a series of rapids and eddies; the current flows at the rate of from 10 to 20 miles an hour, and it can well be imagined that the task of piloting a raft from Wausau to the dells was no slight one. The cost of that kind of transportation in the early times was actually equal to the present market price of the lumber. With a good stage of water, the length of time required to run a raft to St. Louis was 24 days, though quite frequently, owing to inability to get out of the Wisconsin on one rise of water, several weeks were consumed. The amount of lumber manufactured annually on this river is from 140,000,000 to 200,000,000 feet.

Black river is much shorter and smaller than the Wisconsin, but has long been known as a very important lumbering stream. It is next to the oldest lumber district in the state. The first saw-mill west of Green Bay was built at Black River Falls in 1819 by Col. John Shaw. The Winnebago tribe of Indians, however, in whose territory he was, objected to the innovation of such a fine art, and unceremoniously offered up the mill upon the altar of their outraged

solitude. The owner abruptly quitted that portion of the country. In 1839 another attempt to establish a mill on Black river was more successfully made. One was erected at the same point by two brothers by the name of Wood, the millwright being Jacob Spaulding, who eventually became its possessor. His son, Mr. Dudley J. Spaulding, is now a very extensive operator upon Black river. La Crosse is the chief manufacturing point, there being ten saw-mills located there. The annual production of the stream ranges from 150,000,000 to 225,000,000 feet of logs, less than 100,000,000 feet being manufactured into lumber on its banks. The balance is sold in the log to mills on the Mississippi. It is a very capricious river to float logs in, which necessitates the carrying over from year to year of a very large amount, variously estimated at from 150,000,000 to 200,000,000 feet, about equal to an entire season's product. This makes the business more hazardous than on many other streams, as the loss from depreciation is very great after the first year. The quality of the timber is fine, and good prices are realized for it when sold within a year after being cut.

The Chippewa district probably contains the largest and finest body of white pine timber now standing, tributary to any one stream, on the continent. It has been claimed, though with more extravagance than truth, that the Chippewa pineries hold one-half the timber supply of the state. The river itself is a large one, and has many tributaries, which penetrate the rich pine district in all directions. The character of the tributary country is not unlike that through which the Wisconsin flows. In 1828 the first mill was built in the Chippewa valley, on Wilson's creek, near its confluence with the Red Cedar. Its site is now occupied by the village of Menomonee. In 1837 another was built on what is the present site of the Union Lumbering Company's mill at Chippewa Falls. It was not until near 1863 that the Chippewa became very prominent as a lumber-making stream. Since that date it has been counted as one of the foremost in the northwest. Upon the river proper there are twenty-two saw-mills, none having a capacity of less than 3,500,000 feet per season, and a number being capable of sawing from 20,000,000 to 25,000,000. The annual production of sawed lumber is from 250,000,000 to 300,000,000 feet; the production of logs from 400,000,000 to 500,000,000 feet. In 1867 the mill-owners upon the Mississippi, between Winona and Keokuk, organized a corporation known as the Peef Slough Manufacturing, Log-Driving and Transportation Company. Its object was to facilitate the handling of logs cut upon the Chippewa and its tributaries, designed for the Mississippi mills. At the confluence of the two rivers various improvements were made, constituting the Peef Slough boom, which is capable of assorting 200,000,000 feet of logs per season. The Chippewa is the most difficult stream in the northwest upon which to operate. In the spring season it is turbulent and ungovernable, and in summer, almost destitute of water. About its head are numerous lakes which easily overflow under the influence of rain, and as their surplus water flows into the Chippewa, its rises are sudden and sometimes damaging in their extent. The river in many places flows between high bluffs, and, under the influence of a freshet, becomes a wild and unmanageable torrent. Logs have never been floated in rafts, as upon other streams, but are turned in loose, and are carried down with each successive rise, in a jumbled and confused mass, which entails much labor and loss in the work of assorting and delivering to the respective owners. Previous to the organization of the Eagle Rapids Flooding Dam and Boom Company, in 1872, the work of securing the stock after putting it into the river was more difficult than to cut and haul it. At the cities of Eau Claire and Chippewa Falls, where most of the mills are located, the current, under the influence of high water, is very rapid, and for years the problem was how to stop and retain the logs, as they would fly by in great masses and with almost resistless velocity. In 1847 is recorded one of the most sudden and disastrous floods in the history of log-running streams. In the month of June the Chippewa rose twelve feet in a single night,

and, in the disastrous torrent that was created, piers, booms, or "pockets" for holding logs at the mills, together with a fine new mill, were swept away, and the country below where Eau Claire now stands was covered with drift-wood, saw-logs, and other *debris*. Such occurrences led to the invention of the since famous sheer boom, which is a device placed in the river opposite the mill boom into which it is desired to turn the logs. The sheer boom is thrown diagonally across the river, automatically, the action of the current upon a number of ingeniously arranged "fins" holding it in position. By this means the logs are sheered into the receptacle until it is filled, when the sheer boom, by closing up the "fins" with a windlass, falls back and allows the logs to go on for the next mill to stop and capture its pocket full in like manner. By this method each mill could obtain a stock, but a great difficulty was experienced from the fact that the supply was composed of logs cut and owned by everybody operating on the river, and the process of balancing accounts according to the "marks," at the close of the season, has been one prolific of trouble and legal entanglements. The building of improvements at Eagle Rapids by the company above mentioned remedied the difficulty to some extent, but the process of logging will always be a difficult and hazardous enterprise until adequate means for holding and assorting the entire log product are provided. Upon the Yellow and Eau Claire rivers, two important branches of the Chippewa, such difficulties are avoided by suitable improvements. The entire lumber product of the Chippewa, with the exception of that consumed locally, is floated in rafts to markets upon the Mississippi, between its mouth and St. Louis. The quality of the timber is good, and commands the best market price in the sections where it seeks market.

West of the Chippewa district the streams and timber are tributary to the St. Croix, and in all statistical calculations the entire product of that river is credited to Minnesota, the same as that of the Menomonee is given to Michigan, when in fact about one half of each belongs to Wisconsin. The important branches of the St. Croix belonging in this state are the Apple Clam, Yellow, Namekogan, Totogatic and Eau Claire. The sections of country through which they flow contain large bodies of very fine pine timber. The St. Croix has long been noted for the excellence of its dimension timber. Of this stock a portion is cut into lumber at Stillwater, and marketed by rail, and the balance is sold in the log to mills on the Mississippi.

Such is a brief and somewhat crude description of the main lumbering districts of the state. Aside from these, quite extensive operations are conducted upon various railway lines which penetrate the forests which are remote from log-running streams. In almost every county in the state, mills of greater or less capacity may be found cutting up pine or hard-woods into lumber, shingles, or cooperage stock. Most important, in a lumbering point of view, of all the railroads, is the Wisconsin Central. It extends from Milwaukee to Ashland, on Lake Superior, a distance of 351 miles, with a line to Green Bay, 113 miles, and one from Stevens Point to Portage, 71 miles, making a total length of road, of 449 miles. It has only been completed to Ashland within the last two years. From Milwaukee to Stevens Point it passes around to the east and north of Lake Winnebago, through an excellent hard-wood section. There are many stave mills in operation upon and tributary to its line, together with wooden-ware establishments and various manufactories requiring either hard or soft timber as raw material. From Stevens Point northward, this road passes through and has tributary to it one of the finest bodies of timber in the state. It crosses the upper waters of Black river and the Flambeau, one of the main tributaries of the Chippewa. From 30,000,000 to 50,000,000 feet of lumber is annually manufactured on its line, above Stevens Point. The Wisconsin Valley railroad extends from Tomah to Wausau, and was built to afford an outlet, by rail, for the lumber produced at the latter point.

The extent of the timber supply in this state has been a matter of much speculation, and

is a subject upon which but little can be definitely said. Pine trees can not be counted or measured until reduced to saw-logs or lumber. It is certain that for twenty years the forests of Wisconsin have yielded large amounts of valuable timber, and no fears are entertained by holders of pine lands that the present generation of owners will witness an exhaustion of their supply. In some sections it is estimated that the destruction to the standing timber by fires, which periodically sweep over large sections, is greater than by the axes of the loggers. The necessity for a state system of forestry, for the protection of the forests from fires, has been urged by many, and with excellent reason; for no natural resource of the state is of more value and importance than its wealth of timber. According to an estimate recently made by a good authority, and which received the sanction of many interested parties, there was standing in the state in 1876, an amount of pine timber approximating 35,000,000,000 feet.

The annual production of lumber in the districts herein described, and from logs floated out of the state to mills on the Mississippi, is about 1,200,000,000 feet. The following table gives the mill capacity per season, and the lumber and shingles manufactured in 1876:

DISTRICT.	SEASON CAPACITY.	LUMBER MANUFACTURED IN 1876.	SHINGLES MANUFACTURED IN 1876.
Green Bay Shore.....	206,000,000	132,250,000	85,400,000
Wolf River.....	250,500,000	138,645,077	123,102,000
Wisconsin Central Railroad.....	72,500,000	31,530,000	132,700,000
Green Bay & Minnesota Railroad.....	34,500,000	17,700,000	10,700,000
Wisconsin River.....	222,000,000	130,700,000	106,250,000
Black River.....	161,000,000	70,852,747	37,675,000
Chippewa River.....	311,000,000	255,806,979	70,250,000
Mississippi River — using Wisconsin logs.....	500,000,000	380,067,600	206,977,000
Total.....	1,714,500,000	1,172,611,823	782,144,000

If to the above is added the production of mills outside of the main districts and lines of railway herein described, the amount of pine lumber annually produced from Wisconsin forests would reach 1,500,000,000 feet. Of the hard-wood production no authentic information is obtainable. To cut the logs and place them upon the banks of the streams, ready for floating to the mills, requires the labor of about 18,000 men. Allowing that, upon an average, each man has a family of two persons besides himself, dependent upon his labor for support, it would be apparent that the first step in the work of manufacturing lumber gives employment and support to 54,000 persons. To convert 1,000,000 feet of logs into lumber, requires the consumption of 1,200 bushels of oats, 9 barrels of pork and beef, 10 tons of hay, 40 barrels of flour, and the use of 2 pairs of horses. Thus the fitting out of the logging companies each fall makes a market for 1,800,000 bushels of oats, 13,500 barrels of pork and beef, 15,000 tons of hay, and 60,000 barrels of flour. Before the lumber is sent to market, fully \$0,000,000 is expended for the labor employed in producing it. This industry, aside from furnishing the farmer of the west with the cheapest and best of materials for constructing his buildings, also furnishes a very important market for the products of his farm.

The question of the exhaustion of the pine timber supply has met with much discussion during the past few years, and, so far as the forests of Wisconsin are concerned, deserves a brief notice. The great source of supply of white pine timber in the country is that portion of the northwest between the shores of Lake Huron and the banks of the Mississippi, comprising the

northern portions of the states of Michigan, Wisconsin and Minnesota. For a quarter of a century these fields have been worked by lumbermen, the amount of the yearly production having increased annually until it reached the enormous figure of 4,000,000,000 feet. With all of this tremendous drain upon the forests, there can be pointed out but one or two sections that are actually exhausted. There are, however, two or three where the end can be seen and the date almost foretold. The pineries of Wisconsin have been drawn upon for a less period and less amount than those of Michigan, and, it is generally conceded, will outlast them at the present proportionate rate of cutting. There are many owners of pine timber lands who laugh at the prospect of exhausting their timber, within their lifetime. As time brings them nearer to the end, the labor of procuring the logs, by reason of the distance of the timber from the water-courses, will increase, and the work will progress more slowly.

In the future of this industry there is much promise. Wisconsin is the natural source of supply for a very large territory. The populous prairies of Illinois and Iowa are near-by and unfailing markets. The broad plains of Kansas and the rich valleys of Nebraska, which are still in the cradle of development, will make great drafts upon her forests for the material to construct cities in which the first corner-stone is yet unlaidd. Minnesota, notwithstanding the fact that large forests exist within her own confines, is even now no mean customer for Wisconsin lumber, and the ambitious territory of Dakota will soon clamor for material to build up a great and wealthy state. In the inevitable progress of development and growth which must characterize the great west, the demand for pine lumber for building material will be a prominent feature. With the growth of time, changes will occur in the methods of reducing the forests. With the increasing demand and enhancing values will come improvements in manipulating the raw material, and a stricter economy will be preserved in the handling of a commodity which the passage of time only makes more valuable. Wisconsin will become the home of manufactories, which will convert her trees into finished articles of daily consumption, giving employment to thousands of artisans where it now requires hundreds, and bringing back millions of revenue where is now realized thousands. Like all other commodities, lumber becomes more valuable as skilled labor is employed in its manipulation, and the greater the extent to which this is carried, the greater is the growth in prosperity, of the state and its people.

BANKING IN WISCONSIN.

By JOHN P. MCGREGOR.

Wisconsin was organized as a territory in 1836, and the same year several acts were passed by the territorial legislature, incorporating banks of issue. Of these, one at Green Bay and another at Mineral Point went into operation just in time to play their part in the great panic of 1837. The bank at Green Bay soon failed and left its bills unredeemed. The bank at Mineral Point is said to have struggled a little longer, but both these concerns were short lived, and their issues were but a drop in the great flood of worthless wild-cat bank notes that spread over the whole western country in that disastrous time. The sufferings of the people of Wisconsin, from this cause, left a vivid impression on their minds, which manifested its results in the legislation of the territory and in the constitution of the state adopted in 1848. So jealous were the legislatures of the territory, of banks and all their works, that, in every act of incorporation for any purpose, a clause was inserted to the effect that nothing in the act contained should be

taken to authorize the corporation to assume or exercise any banking powers; and this proviso was even added to acts incorporating church societies. For some years there can hardly be said to have been any banking business done in the territory; merchants and business men were left to their own devices to make their exchanges, and every man was his own banker.

In the year 1839 an act was passed incorporating the "Wisconsin Marine and Fire Insurance Company," of Milwaukee. This charter conferred on the corporation, in addition to the usual powers of a fire and marine insurance company, the privilege of *receiving deposits, issuing certificates of deposit* and lending money,—and wound up with the usual prohibition from doing a banking business. This company commenced business at once under the management of George Smith as president and Alexander Mitchell as secretary. The receiving deposits, issuing certificates of deposit and lending money, soon outgrew and overshadowed the insurance branch of the institution, which accordingly gradually dried up. In fact, the certificates of deposit had all the appearance of ordinary bank notes, and served the purposes of an excellent currency, being always promptly redeemed in coin on demand. Gradually these issues attained a great circulation all through the west, as the people gained more and more confidence in the honesty and ability of the managers; and though "runs" were several times made, yet being successfully met, the public finally settled down into the belief that these bills were good beyond question, so that the amount in circulation at one time, is said, on good authority, to have been over \$2,000,000.

As the general government required specie to be paid for all lands bought of it, the Wisconsin Marine and Fire Insurance company, by redemption of its "certificates of deposit," furnished a large part of the coin needed for use at the Milwaukee land office, and more or less for purchases at land offices in other parts of the state, and its issues were of course much in request for this purpose. For many years this institution furnished the main banking facilities for the business men of the territory and young state, in the way of discounts and exchanges. Its right to carry on the operations it was engaged in, under its somewhat dubious and inconsistent charter, was often questioned, and, in 1852, under the administration of Governor Farwell, some steps were taken to test the matter; but as the general banking law had then been passed by the legislature, and was about to be submitted to the people, and as it was understood that the company would organize as a bank under the law, if approved, the legal proceedings were not pressed. While this corporation played so important a part in the financial history and commercial development of Wisconsin, the writer is not aware of any available statistics as to the amount of business transacted by it before it became merged in the "Wisconsin Marine and Fire Insurance Company's Bank."

In 1817, the foundation of the present well-known firm of Marshall & Ilsley was laid by Samuel Marshall, who, in that year, opened a private banking office in Milwaukee, and was joined in 1849 by Charles F. Ilsley. This concern has always held a prominent position among the banking institutions of our state. About this time, at Mineral Point, Washburn & Woodman (C. C. Washburn and Cyrus Woodman) engaged in private banking, as a part of their business. After some years they were succeeded by Wm. T. Henry, who still continues the banking office. Among the early private bankers of the state were Mr. Kellogg, of Oshkosh; Umann and Bell, of Racine; and T. C. Shove, of Manitowoc. The latter still continues his business, while that of the other firms has been wound up or merged in organized banks.

In 1848, Wisconsin adopted a state constitution. This constitution prohibited the legislature from incorporating banks and from conferring banking powers on any corporation; but provided the question of "banks or no banks" might be submitted to a vote of the electors, and, if the decision should be in favor of banks, then the legislature might charter banks or might enact a

general banking law, but no such special charter or general banking law should have any force until submitted to the electors at a general election, and approved by a majority of votes cast on that subject. In 1851, the legislature submitted this question to the people, and a majority of the votes were cast in favor of "banks." Accordingly the legislature, in 1852, made a general banking law, which was submitted to the electors in November of that year, and was approved by them. This law was very similar to the free banking law of the state of New York, which had then been in force about fifteen years, and was generally approved in that state. Our law authorized any number of individuals to form a corporate association for banking purposes, and its main provisions were intended to provide security for the circulating notes, by deposit of state and United States stocks or bonds with the state treasurer, so that the bill holders should sustain no loss in case of the failure of the banks. Provision was made for a bank comptroller, whose main duty it was to see that countersigned circulating notes were issued to banks only in proper amounts for the securities deposited, and upon compliance with the law, and that the banks kept these securities good.

The first bank comptroller was James S. Baker, who was appointed by Governor Farwell.

The first banks organized under the new law were the "State Bank," established at Madison by Marshall & Hisley, and the "Wisconsin Marine and Fire Insurance Company's Bank," established at Milwaukee under the old management of that company. These banks both went into operation early in January, 1853, and, later in that year, the "State Bank of Wisconsin" (now Milwaukee National Bank of Wisconsin), and the "Farmers' and Millers' Bank" (now First National Bank of Milwaukee), were established, followed in January, 1854, by the "Bank of Milwaukee" (now National Exchange Bank of Milwaukee). From this time forward banks were rapidly established at different points through the state, until in July, 1857, they numbered sixty — with aggregate capital, \$4,205,000; deposits, \$3,920,238; and circulation, \$2,231,829. In October, the great revulsion and panic of 1857 came on, and in its course and effects tried pretty severely the new banks in Wisconsin. Some of them succumbed to the pressure, but most of them stood the trial well.

The great source of loss and weakness at that time was found in the rapid decline of the market value of the securities deposited to protect circulation, which were mostly state bonds, and largely those of the southern states; so that this security, when it came to be tried, did not prove entirely sufficient. Another fault of the system, or of the practice under it, was developed at this time. It was found that many of the banks had been set up without actual working capital, merely for the purpose of issuing circulating notes, and were located at distant and inaccessible points in what was then the great northern wilderness of the state; so that it was expensive and in fact impracticable to present their issues for redemption. While these evils and their remedies were a good deal discussed among bankers, the losses and inconveniences to the people were not yet great enough to lead to the adoption of thorough and complete measures of reform. The effect of these difficulties, however, was to bring the bankers of the state into the habit of consulting and acting together in cases of emergency, the first bankers' convention having been held in 1857. This was followed by others from time to time, and it would be difficult to over-value the great good that has resulted, at several important crises from the harmonious and conservative action of the bankers of our state. Partly, at least, upon their recommendations the legislature, in 1858, adopted amendments to the banking law, providing that no bank should be located in a township containing less than two hundred inhabitants; and that the comptroller should not issue circulating notes, except to banks doing a regular discount deposit and exchange business in some inhabited town, village, city, or where the ordinary business of inhabited towns, villages and cities was carried on. These amendments were approved by the people at the fall

election of that year.

Banking matters now ran along pretty smoothly until the election in 1860, of the republican presidential ticket, and the consequent agitation in the southern states threatening civil war, the effects of which were speedily felt; first, in the great depreciation of the bonds of the southern states, and then in a less decline in those of the northern states. At this time (taking the statement of July, 1860,) the number of banks was 104, with aggregate capital, \$1,547,000; circulation, \$4,075,918; deposits, \$3,230,252.

During the winter following, there was a great deal of uneasiness in regard to our state currency, and continuous demand upon our banks for the redemption of their circulating notes in coin. Many banks of the wild-cat sort failed to redeem their notes, which became depreciated and uncurrent; and, when the rebellion came to a head by the firing on Fort Sumter, the banking interests of the state were threatened with destruction by compulsory winding up and enforced sale at the panic prices then prevailing, of the securities deposited to secure circulation. Under these circumstances, on the 17th of April, 1861, the legislature passed "an act to protect the holders of the circulating notes of the authorized banks of the state of Wisconsin." As the banking law could not be amended except by approval of the electors, by vote at a general election, a practical suspension of specie payment had to be effected by indirect methods. So this act first directed the bank comptroller to suspend all action toward banks for failing to redeem their circulation. Secondly, it prohibited notaries public from protesting bills of banks until Dec. 1, 1861. Thirdly, it gave banks until that date to answer complaints in any proceeding to compel specie payment of circulating notes. This same legislature also amended the banking law, to cure defects that had been developed in it. These amendments were intended to facilitate the presentation and protest of circulating notes, and the winding up of banks failing to redeem them, and provided that the bank comptroller should not issue circulating notes except to banks having actual cash capital; on which point he was to take evidence in all cases; that after Dec. 1, 1861, all banks of the state should redeem their issues either at Madison or Milwaukee, and no bonds or stocks should be received as security for circulation except those of the United States and of the state of Wisconsin.

Specie payment of bank bills was then practically suspended, in our state, from April 17 to December 1, 1861, and there was no longer any plain practical test for determining which were good, and which not. In this condition of things, bankers met in convention, and, after discussion and inquiry as to the condition and resources of the different banks, put forth a list of those whose issues were to be considered current and bankable. But things grew worse, and it was evident that the list contained banks that would never be able to redeem their circulation, and the issues of such were from time to time thrown out and discredited without any concert of action, so that the uneasiness of people in regard to the financial situation was greatly increased. The bankers finally met, gave the banks another sifting, and put forth a list of seventy banks, whose circulating notes they pledged themselves to receive, and pay out as current, until December 1. There had been so many changes that this pledge was thought necessary to allay the apprehensions of the public. But matters still grew worse instead of better. Some of the banks in the "current" list closed their doors to their depositors, and others were evidently unsound, and their circulation so insufficiently secured as to make it certain that it would never be redeemed. There was more or less sorting of the currency, both by banks and business men, all over the state, in the endeavor to keep the best and pay out the poorest. In this state of things, some of the Milwaukee banks, with it concert of action, and acting under the apprehension of being loaded up with the very worst of the currency, which, it was feared, the country banks and merchants were sorting out and sending to Milwaukee, revised the list again, and

threw out ten of the seventy banks whose issues it had been agreed should be received as current. Other banks and bankers were compelled to take the same course to protect themselves. The consequence was a great disturbance of the public mind, and violent charges of bad faith on the part of the banks, which culminated in the bank riots of June 24, 1861. On that day, a crowd of several hundred disorderly people, starting out most probably only with the idea of making some sort of demonstration of their dissatisfaction with the action of the banks and bankers and with the failure to keep faith with the public, marched through the streets with a band of music, and brought up at the corner of Michigan and East Water streets.

The banks had just sufficient notice of these proceedings to enable them to lock up their money and valuables in their vaults, before the storm broke upon them. The mob halted at the place above mentioned, and for a time contented themselves with hooting, and showed no disposition to proceed to violence; but, after a little while, a stone was thrown through the windows of the Wisconsin Marine and Fire Insurance Company's Bank, situated at one corner of the above streets, and volleys of stones soon followed, not only against that bank, but also against the State Bank of Wisconsin, situated on the opposite corner. The windows of both these institutions and of the offices in the basements under them were effectually demolished. The mob then made a rush into these banks and offices, and completely gutted them, offering more or less violence to the inmates, though no person was seriously hurt. The broken furniture of the offices under the State Bank of Wisconsin was piled up, and the torch was applied by some of the rioters, while others were busy in endeavoring to break into the safes of the offices and the vaults of the banks. The *contents* of the furniture in the office of the Wisconsin Marine and Fire Insurance Company's Bank, was also set on fire, and it was plain that if the mob was not immediately checked, the city would be given up to conflagration and pillage—the worst elements, as is always the case with mobs, having assumed the leadership. Just at that juncture, the Milwaukee zouaves, a small military company, appeared on the scene, and with the help of the firemen who had been called out, the mob was put to flight, and the incipient fire was extinguished.

The damage so far done was not great in amount, and the danger for the moment was over; but the situation was still grave, as the city was full of threats, disturbance and apprehension. By the prompt action of the authorities, a number of companies of volunteers were brought from different places in the state, order was preserved, and, after muttering for three or four days, the storm died away. The effect of that disturbance and alarm was, however, to bring home to the bankers and business men the conviction that effectual measures must be taken to settle our state currency matters on a sound and permanent basis, and that the issues of all banks that could not be put in shape to meet specie payment in December, must be retired from circulation and be got out of the way. A meeting of the bankers was held; also of the merchants' association of Milwaukee, and arrangements were made to raise \$100,000, by these two bodies, to be used in assisting weak and crippled banks in securing or retiring their circulation. The bankers appointed a committee to take the matter in charge.

It happened that just at this time Governor Randall and State Treasurer Hastings returned from New York City, where they had been making unsuccessful efforts to dispose of \$800,000 of Wisconsin war bonds, which had been issued to raise funds to fit out Wisconsin volunteers.

Our state had never had any bonds on the eastern market. For other reasons, our credit was not high in New York, and it had been found impossible to dispose of these bonds for over sixty cents on the dollar. The state officers conferred with the bankers to see what could be done at home; and it was finally arranged that the bankers' committee should undertake to get the state banks to dispose of their southern and other depreciated state bonds on deposit to

secure circulation, for what they would bring in coin, in New York, and replace these bonds with those of our own state, which were to be taken by our banks nominally at par—seventy per cent. being paid in cash, and the different banks purchasing bonds, giving their individual obligation for the thirty per cent. balance, to be paid in semi-annual installments, with an agreement that the state should deduct these installments from the interest so long as these bonds should remain on deposit with the state. By the terms of the law, sixty per cent. of the proceeds of the bonds had to be paid in coin. The bankers' committee went to work, and with some labor and difficulty induced most of the banks to sell their southern securities at the existing low prices in New York, and thus produce the coin required to pay for our state bonds. From the funds provided by the merchants and bankers, they assisted many of the weaker banks to make good their securities with the banking department of the state. By the 19th of July, six of the ten rejected banks that had been the occasion of the riot, were made good, and restored to the list. The other four were wound up, and their issues redeemed at par, and, before the last of August, the value of the securities of all the banks on the current list were brought up to their circulation, as shown by the comptroller's report.

Wisconsin currency at the time of the bank riot was at a discount of about 15 per cent., as compared with gold or New York exchange. At the middle of July the discount was 10 to 12 per cent., and early in August it fell to 5 per cent. The bankers' committee continued their work in preparation for the resumption of specie payment on December 1. While the securities for the bank circulation had been made good, it was, nevertheless, evident that many of the banks on the current list would not be equal to the continued redemption of their bills in specie, and that they would have to be wound up and got out of the way in season. Authority was got from such institutions, as fast as possible, for the bankers' committee to retire their circulation and sell their securities. The Milwaukee banks and bankers took upon themselves the great burden of this business, having arranged among themselves to sort out and withhold from circulation the bills of these banks,—distributing the load among themselves in certain defined proportions. Instead of paying out these doubted bills, the different banks brought to the bankers' committee such amounts as they accumulated from time to time, and received from the committee certificates of deposit bearing seven per cent. interest, and these bills were locked up by the committee until the securities for these notes could be sold and the proceeds realized. Over \$300,000 of this sort of paper was locked up by the committee at one time; but it was all converted into cash, and, when the first of December came, the remaining banks of this state were ready to redeem their issues in gold or its equivalent, and so continued to redeem until the issue of the legal-tender notes and the general suspension of specie payment in the United States.

In July, 1861, the number of our banks was 107, with capital, \$4,607,000; circulation, \$2,317,907; deposits, \$3,265,069.

By the contraction incident to the preparations for redemption in specie, the amount of current Wisconsin bank notes outstanding December 1, 1861, was reduced to about \$1,500,000. When that day came, there was quite a disposition manifested to convert Wisconsin currency into coin, and a sharp financial pinch was felt for a few days; but as the public became satisfied that the banks were prepared to meet the demand, the call for redemption rapidly fell off, and the banks soon began to expand their circulation, which was now current and in good demand all through the northwestern states. The amount saved to all the interests of our state, by this successful effort to save our banking system from destruction, is beyond computation. From this time our banks ran along quietly until prohibitory taxation by act of congress drove the bills of state banks out of circulation.

The national banking law was passed in 1863, and a few banks were soon organized under it in different parts of the country. The first in Wisconsin was formed by the re-organization of the Farmers' and Millers' Bank, in August, 1863, as the First National Bank of Milwaukee, with Edward D. Holton as president, and H. H. Camp, cashier. The growth of the new system, however, was not very rapid; the state banks were slow to avail themselves of the privileges of the national banking act, and the central authorities concluded to compel them to come in; so facilities were offered for their re-organization as national banks, and then a tax of ten per cent. was laid upon the issues of the state banks. This tax was imposed by act of March, 1865, and at once caused a commotion in our state. In July, 1864, the number of Wisconsin state banks was sixty-six, with capital \$3,147,000, circulation \$2,461,728, deposits \$5,483,205, and these figures were probably not very different in the spring of 1865. The securities for the circulating notes were in great part the bonds of our own state, which, while known by our own people to be good beyond question, had never been on the general markets of the country so as to be currently known there; and it was feared that in the hurried retirement of our circulation these bonds would be sacrificed, the currency depreciated, and great loss brought upon our banks and people. There was some excitement, and a general call for the redemption of our state circulation, but the banks mostly met the run well, and our people were disposed to stand by our own state bonds.

In April, 1861, the legislature passed laws, calling in the mortgage loans of the school fund, and directing its investment in these securities. The state treasurer was required to receive Wisconsin bank notes, not only for taxes and debts due the state, but also on deposit, and to issue certificates for such deposits bearing seven per cent. interest. By these and like means the threatened panic was stopped; and in the course of a few months Wisconsin state currency was nearly all withdrawn from circulation. In July, 1865, the number of state banks was twenty-six, with capital \$1,087,000, circulation \$192,323, deposits \$2,284,210. Under the pressure put on by congress, the organization of national banks, and especially the re-organization of state banks, under the national system, was proceeding rapidly, and in a short time nearly every town in our own state of much size or importance was provided with one or more of these institutions.

In the great panic of 1873, all the Wisconsin banks, both state and national (in common with those of the whole country), were severely tried; but the failures were few and unimportant; and Wisconsin went through that ordeal with less loss and disturbance than almost any other state.

We have seen that the history of banking in Wisconsin covers a stormy period, in which great disturbances and panics have occurred at intervals of a few years. It is to be hoped that a more peaceful epoch will succeed, but permanent quiet and prosperity can not rationally be expected in the present unsettled condition of our currency, nor until we have gone through the temporary stringency incidental to the resumption of specie payment.

According to the last report of the comptroller of the currency, the number of national banks in Wisconsin in November, 1876, was forty, with capital \$3,400,000, deposits \$7,145,360, circulation \$2,072,869.

At this time (July, 1877) the number of state banks is twenty-six, with capital \$1,288,231, deposits \$6,662,973. Their circulation is, of course, merely nominal, though there is no legal obstacle to their issuing circulating notes, except the tax imposed by congress.

COMMERCE AND MANUFACTURES.

By HON. H. H. GILES.

The material philosophy of a people has to do with the practical and useful. It sees in iron, coal, cotton, wool, grain and the trees of the forest, the elements of personal comfort and sources of material greatness, and is applied to their development, production and fabrication for purposes of exchange, interchange and sale. The early immigrants to Wisconsin territory found a land teeming with unsurpassed natural advantages; prairies, timber, water and minerals, inviting the farmer, miner and lumberman, to come and build houses, furnaces, mills and factories. The first settlers were a food-producing people. The prairies and openings were ready for the plow. The ease with which farms were brought under cultivation, readily enabled the pioneer to supply the food necessary for himself and family, while a surplus was often produced in a few months. The hardships so often encountered in the settlement of a new country, where forests must be felled and stumps removed to prepare the soil for tillage, were scarcely known, or greatly mitigated.

During the decade from 1835 to 1845, so great were the demands for the products of the soil, created by the tide of emigration, that the settlers found a home market for all their surplus products, and so easily were crops grown that, within a very brief time after the first emigration, but little was required from abroad. The commerce of the country was carried on by the exchange of products. The settlers (they could scarcely be called farmers) would exchange their wheat, corn, oats and pork for the goods, wares and fabrics of the village merchant. It was an age of barter; but they looked at the capabilities of the land they had come to possess, and, with firm faith, saw bright promises of better days in the building up of a great state.

It is not designed to trace with minuteness the history of Wisconsin through the growth of its commercial and manufacturing interests. To do it justice would require a volume. The aim of this article will be to present a concise view of its present status. Allusion will only be incidentally made to stages of growth and progress by which it has been reached.

Few states in the Union possess within their borders so many, and in such abundance, elements that contribute to the material prosperity of a people. Its soil of unsurpassed fertility; its inexhaustible mines of lead, copper, zinc and iron; its almost boundless forests; its water-powers, sufficient to drive the machinery of the world; its long lines of lake shore on two sides, and the "Father of waters" on another,— need but enterprise, energy and capital to utilize them in building an empire of wealth, where the hum of varied industries shall be heard in the music of the sickle, the loom and the anvil.

The growth of manufacturing industries was slow during the first twenty-five years of our history. The early settlers were poor. Frequently the land they tilled was pledged to obtain means to pay for it. Capitalists obtained from twenty to thirty per cent. per annum for the use of their money. Indeed, it was the rule, under the free-trade ideas of the money-lenders for them to play the Shylock. While investments in bonds and mortgages were so profitable, few were ready to improve the natural advantages the country presented for building factories and work-shops.

For many years, quite all the implements used in farming were brought from outside the state. While this is the case at present to some extent with the more cumbersome farm machinery, quite a proportion of that and most of the simpler and lighter implements are made at home, while much farm machinery is now manufactured for export to other states.

FURS.

The northwest was visited and explored by French *voyageurs* and missionaries from Canada at an early day. The object of the former was trading and gain. The Jesuits, ever zealous in the propagation of their religion, went forth into the unknown wilderness to convert the natives to their faith. As early as 1624, they were operating about Lake Huron and Mackinaw. Father Menard it is related, was with the Indians on Lake Superior as early as 1661. The early explorers were of two classes, and were stimulated by two widely different motives—the *voyageurs*, by the love of gain, and the missionaries, by their zeal in the propagation of their faith. Previous to 1679, a considerable trade in furs had sprung up with Indian tribes in the vicinity of Mackinaw and the northern part of "Ouisconsin." In that year more than two hundred canoes, laden with furs, passed Mackinaw, bound for Montreal. The whole commerce of this vast region then traversed, was carried on with birch-bark canoes. The French used them in traversing wilds—otherwise inaccessible by reason of floods of water at one season, and ice and snow at another—also lakes and morasses which interrupted land journeys, and rapids and cataracts that cut off communication by water. This little vessel enabled them to overcome all difficulties. Being buoyant, it rode the waves, although heavily freighted, and, of light draft, it permitted the traversing of small streams. Its weight was so light that it could be easily carried from one stream to another, and around rapids and other obstructions. With this little vessel, the fur trade of the northwest was carried on, as well as the interior of a vast continent explored. Under the stimulus of commercial enterprise, the French traders penetrated the recesses of the immense forests whose streams were the home of the beaver, the otter and the mink, and in whose depths were found the martin, sable, ermine, and other fur-bearing animals. A vast trade in furs sprung up, and was carried on by different agents, under authority of the French government.

When the military possession of the northwestern domain passed from the government of France to that of Great Britain in 1760, the relationship of the fur trade to the government changed. The government of France had controlled the traffic, and made it a means of strengthening its hold upon the country it possessed. The policy of Great Britain was, to charter companies, and grant them exclusive privileges. The Hudson bay company had grown rich and powerful between 1670 and 1760. Its success had excited the cupidity of capitalists, and rival organizations were formed. The business of the company had been done at their trading-stations—the natives bringing in their furs for exchange and barter. Other companies sent their *voyageurs* into every nook and corner to traffic with the trappers, and even to catch the fur-bearing animals themselves. In the progress of time, private parties engaged in trapping and dealing in furs, and, under the competition created, the business became less profitable. In 1815, congress passed an act prohibiting foreigners from dealing in furs in the United States, or any of its territories. This action was obtained through the influence of John Jacob Astor. Mr. Astor organized the American fur company in 1809, and afterward, in connection with the Northwest company, bought out the Mackinaw company, and the two were merged in the Southwest company. The association was suspended by the war of 1812. The American re-entered the field in 1816. The fur trade is still an important branch of traffic in the northern part of the state, and, during eight months of the year, employs a large number of men.

LEAD AND ZINC.

In 1824, the lead ore in the southwestern part of Wisconsin began to attract attention. From 1826 to 1830, there was a great rush of miners to this region, somewhat like the Pike's Peak excitement at a later date. The lead-producing region of Wisconsin covers an area of about 2,200 square miles, and embraces parts of Grant, Iowa and La Fayette counties. Between 1829 and 1839, the production of lead increased from 5,000 to 10,000 tons. After the latter year it rose rapidly, and attained its maximum in 1845, when it reached nearly 25,000 tons. Since that time the production has decreased, although still carried on to a considerable extent.

The sulphate and carbonate of zinc abound in great quantities with the lead of southwest Wisconsin. Owing to the difficulty of working this class of ores, it was formerly allowed to accumulate about the mouths of the mines. Within a few years past, metallurgic processes have been so greatly improved, that the zinc ores have been largely utilized. At La Salle, in the state of Illinois, there are three establishments for smelting zinc ores. There is also one at Peru, Ill. To smelt zinc ores economically, they are taken where cheap fuel is available. Hence, the location of these works in the vicinity of coal mines. The works mentioned made in 1875, from ores mostly taken from Wisconsin, 7,510 tons of zinc. These metals are, therefore, important elements in the commerce of Wisconsin.

IRON.

The iron ores of Wisconsin occur in immense beds in several localities, and are destined to prove of great value. From their product in 1863, there were 3,735 tons of pig iron received at Milwaukee; in 1865, 4,785 tons; in 1868, 10,890 tons. Of the latter amount, 4,648 tons were from the iron mines at Mayville. There were shipped from Milwaukee, in 1868, 6,361 tons of pig iron. There were also received 2,500 tons of ore from the Dodge county ore beds. During 1869, the ore beds at Iron Ridge were developed to a considerable extent, and two large blast furnaces constructed in Milwaukee, at which place there were 4,695 tons of ore received, and 2,059 tons were shipped to Chicago and Wyandotte. In 1870, 112,000 tons of iron ore were received at Milwaukee, 95,000 tons of which were from Iron Ridge, and 17,060 tons from Escanaba and Marquette, in Michigan. The total product of the mines at Iron Ridge in 1871 was 82,284 tons. The Milwaukee iron company received by lake, in the same year, 28,094 tons of Marquette iron ore to mix with the former in making railroad iron. In 1872, there were received from Iron Ridge 85,245 tons of ore, and 5,620 tons of pig iron. Much of the metal made by the Wisconsin iron company in 1872 was shipped to St. Louis, to mix with the iron made from Missouri ore.

The following table shows the production of pig iron in Wisconsin, for 1872, 1873 and 1874, in tons:

FURNACES.	1872.	1873.	1874.
Milwaukee Iron Company, Milwaukee.....	21,818	29,326	33,000
Minerva Furnace Company, Milwaukee.....		5,322	
Wisconsin Iron Company, Iron Ridge.....	3,350	4,155	3,306
Northwestern Iron Company, Mayville.....	5,033	4,137	3,000
Appleton Iron Company, Appleton.....	4,852	8,041	6,500
Green Bay Iron Company, Green Bay.....	6,610	6,141	6,000
National Iron Company, Depere.....	3,420	7,991	6,500
Fox River Iron Company, W. Depere.....	5,600	6,532	7,000
Ironton Furnace, Sauk county.....	1,780	1,525	1,300
	52,797	73,680	66,600

The Milwaukee iron company, during the year 1872, entered into the manufacture of merchant iron — it having been demonstrated that the raw material could be reduced there cheaper than elsewhere. The Minerva furnace company built also during the same year one of the most compact and complete iron furnaces to be found any where in the country. During the year 1873, the iron, with most other material interests, became seriously prostrated, so that the total receipts of ore in Milwaukee in 1874 amounted to only 31,993 tons, against 69,418 in 1873, and 85,245 tons in 1872. There were made in Milwaukee in 1874, 29,680 tons of railroad iron. In 1875, 58,868 tons of ore were received at Milwaukee, showing a revival of the trade in an increase of 19,786 tons over the previous year. The operation of the works at Bay View having suspended, the receipts of ore in 1876, at Milwaukee, were less than during any year since 1869, being only 31,119 tons, of which amount only 5,488 tons were from Iron Ridge, and the total shipments were only 498 tons.

LUMBER.

The business of lumbering holds an important rank in the commerce of the state. For many years the ceaseless hum of the saw and the stroke of the ax have been heard in all our great forests. The northern portion of the state is characterized by evergreen trees, principally pine; the southern, by hard-woods. There are exceptional localities, but this is a correct statement of the general distribution. I think that, geologically speaking, the evergreens belong to the primitive and sandstone regions, and the hard wood to the limestone and clay formations. Northern Wisconsin, so called, embraces that portion of the state north of forty-five degrees, and possesses nearly all the valuable pine forests. The most thoroughly developed portion of this region is that lying along the streams entering into Green bay and Lake Michigan, and bordering on the Wisconsin river and other streams entering into the Mississippi. Most of the pine in the immediate vicinity of these streams has been cut off well toward their sources; still, there are vast tracts covered with dense forests, not accessible from streams suitable for log-driving purposes. The building of railroads into these forests will alone give a market value to a large portion of the pine timber there growing. It is well, perhaps, that this is so, for at the present rate of consumption, but a few years will elapse before these noble forests will be totally destroyed. Most of the lumber manufactured on the rivers was formerly taken to a market by being floated down the streams in rafts. Now, the railroads are transporting large quantities, taking it directly from the mills and unloading it at interior points in Iowa, Illinois and Wisconsin, and some of it in eastern cities. From five to eight thousand men are employed in the pineries in felling the trees, sawing them into logs of suitable length, and hauling them to the mills and streams during every winter in times of fair prices and favorable seasons. The amount of lumber sawed in 1860, as carefully estimated, was 355,055,155 feet. The amount of shingles made was 2,272,061, and no account was made of the immense number of logs floated out of the state, for manufacture into lumber elsewhere. The amount of logs cut in the winter of 1873 and 1874 was 987,000,000 feet. In 1876 and 1877 the Black river furnished 188,344,464 feet. The Chippewa, 90,000,000; the Red Cedar, 57,000,000. There passed through Beef Slough 129,384,000 feet of logs. Hon. A. H. Eaton, for fourteen years receiver of the United States land office at Stevens Point, estimated the acreage of pine lands in his district at 2,000,000, and, taking his own district as the basis, he estimated the whole state at 8,000,000 acres. Reckoning this at 5,000 feet to the acre, the aggregate pine timber of the state would be 40,000,000,000 feet. The log product annually amounts to an immense sum. In 1876, 1,172,611,823 feet were cut. This is about the average annual draft that is made on the pine lands. There seems to be no remedy for the

wholesale destruction of our pine forests, except the one alluded to, the difficulty of transportation, and this will probably save a portion of them for a long time in the future. At the rate of consumption for twenty years past, we can estimate that fifty years would see northern Wisconsin denuded of its pine forests; but our lumber product has reached its maximum, and will probably decrease in the coming years as the distance to be hauled to navigable streams increases. In the mean time lumber, shingles and lath will form an important factor in our commerce, both state and inter-state, and will contribute millions to the wealth of our citizens.

GRAIN.

Up to 1841, no grain was exported from Wisconsin to be used as food; but, from the time of its first settlement in 1836 to 1840, the supply of bread stuffs from abroad, upon which the people depended, was gradually diminished by the substitution of home products. In the winter of 1840 and 1841, E. D. Holton, of Milwaukee, purchased a small cargo of wheat (about 4,000 bushels), and in the spring of 1841, shipped it to Buffalo. This was the beginning of a traffic that has grown to immense proportions, and, since that time, wheat has formed the basis of the commerce and prosperity of the state, until the city of Milwaukee has become the greatest primary wheat mart of the world.

The following table gives the exports of flour and grain from Milwaukee for thirty-two years, commencing in 1845:

YEARS.	FLOUR, bbls.	WHEAT, bus.	CORN, bus.	OATS, bus.	BARLEY, bus.	RYE, bus.
1845.....	7,550	95,510	-----	-----	-----	-----
1846.....	15,756	213,443	-----	-----	-----	-----
1847.....	31,810	508,411	-----	-----	-----	-----
1848.....	92,732	602,474	-----	-----	-----	-----
1849.....	136,657	1,136,023	2,500	4,000	15,000	-----
1850.....	100,017	297,570	5,000	2,100	15,270	-----
1851.....	21,889	317,285	13,825	7,892	103,349	-----
1852.....	92,995	564,404	2,220	363,841	322,261	54,692
1853.....	104,055	956,793	270	131,716	291,840	80,565
1854.....	145,032	1,899,452	164,943	494,999	339,355	113,443
1855.....	181,373	2,641,746	112,132	13,833	63,379	20,030
1856.....	188,455	2,761,976	215	5,433	10,395	-----
1857.....	228,442	2,581,311	472	2,775	500	-----
1858.....	293,665	3,094,213	43,958	562,067	63,478	5,373
1859.....	252,956	4,732,957	41,364	299,002	53,216	14,577
1860.....	457,343	7,568,668	37,201	64,682	28,066	9,735
1861.....	674,474	13,399,495	1,455	1,200	5,220	29,810
1862.....	711,495	14,915,630	6,479	79,091	44,800	129,301
1863.....	603,525	12,857,620	33,669	831,600	133,449	84,647
1864.....	414,733	8,992,479	199,786	811,634	23,479	18,210
1865.....	567,576	10,479,777	71,293	329,472	29,597	51,444
1866.....	729,375	11,634,749	489,468	1,639,395	15,888	255,329
1867.....	921,603	9,493,452	269,249	622,409	39,222	199,795
1868.....	1,017,598	9,567,029	342,717	536,539	97,036	91,443
1869.....	1,229,958	14,272,774	93,399	331,798	120,662	78,035
1870.....	1,225,941	16,127,853	103,173	210,137	496,325	62,494
1871.....	1,211,427	13,400,407	419,133	772,929	570,453	293,569
1872.....	1,232,036	11,570,295	1,587,953	1,323,234	931,725	299,751
1873.....	1,843,260	24,694,266	1,076,920	696,025	634,428	258,925
1874.....	2,217,379	22,285,320	539,393	726,035	464,837	79,579
1875.....	2,163,346	22,661,620	229,795	1,160,459	367,479	69,923
1876.....	2,654,028	16,204,344	99,003	1,377,590	1,235,481	229,664

Up to 1856, the shipments were almost wholly of Wisconsin products; but with the completion of lines of railroad from Milwaukee to the Mississippi river, the commerce of Wisconsin became so interwoven with that of Iowa and Minnesota, that the data furnished by the transportation companies, give us no definite figures relating to the products of our own state.

DAIRY PRODUCTS.

Wisconsin is becoming largely interested in the dairy business. Its numerous springs, streams, and natural adaptability to grass, make it a fine grazing country, and stock thrives remarkably well. Within a few years, cheese-factories have become numerous, and their owners are meeting with excellent success. Wisconsin cheese is bringing the highest price in the markets, and much of it is shipped to England. Butter is also made of a superior quality, and is extensively exported. At the rate of progress made during the last few years, Wisconsin will soon take rank with the leading cheese and butter producing states. The counties most largely interested in dairying, are Kenosha, Walworth, Racine, Rock, Green, Waukesha, Winnebago, Sheboygan, Jefferson and Dodge. According to estimates by experienced dairymen, the manufacture of butter was 22,473,000 pounds in 1870; 50,130,000 in 1876; of cheese, 1,591,000 pounds in 1870, as against 17,000,000 in 1876, which will convey a fair idea of the increase of dairy production. The receipts of cheese in Chicago during 1876, were 23,780,000 pounds, against 12,000,000 in 1875; and the receipts of butter were 35,384,184, against 30,248,247 pounds in 1875. It is estimated that fully one-half of these receipts were from Wisconsin. The receipts of butter in Milwaukee were, in 1870, 5,779,114 pounds; in 1875, 6,625,863; in 1876, 8,938,137 pounds; of cheese, 5,721,279 pounds in 1875, and 7,055,573 in 1876. Cheese is not mentioned in the trade and commerce reports of Milwaukee until 1873, when it is spoken of as a new and rapidly increasing commodity in the productions of the state.

PORK AND BEEF.

Improved breeds, both of swine and cattle, have been introduced into the state during a few years past. The grade of stock has been rapidly bettered, and stock raisers generally are striving with commendable zeal to rival each other in raising the finest of animals for use and the market.

The following table shows the receipts of live hogs and beef cattle at Milwaukee for thirteen years:

YEARS.	LIVE HOGS.	BEEF CATTLE.	YEARS.	LIVE HOGS.	BEEF CATTLE.
1876.....	254,317	36,502	1869.....	52,296	12,521
1875.....	144,961	46,717	1868.....	48,717	13,200
1874.....	242,326	22,745	1867.....	76,758	15,597
1873.....	241,699	17,262	1866.....	31,921	12,055
1872.....	138,106	14,172	1865.....	7,540	14,239
1871.....	166,164	9,220	1864.....	42,250	18,345
1870.....	60,138	12,972	1863.....	50,820	14,655

The following table shows the movement of hog products and beef from Milwaukee since 1862.

Shipments by Rail and Lake.	PORK, HAMS, MIDDLES AND SHOULDERS.				LARD.		BEEF.	
	Barrels.	Tierces.	Boxes.	Bulk, lbs.	Barrels.	Tierces.	Barrels.	Tierces.
Totals 1876.....	62,461	15,439	42,678	5,123,515	3,301	21,356	7,333	3,439
" 1875.....	56,775	15,292	28,374	2,736,778	601	13,950	4,734	421
" 1874.....	53,792	17,124	39,572	1,444,112	9,110	18,399	5,015	707
" 1873.....	80,010	24,954	62,211	1,015,610	4,065	24,399	5,365	462
" 1872.....	90,038	20,115	39,209	4,557,950	6,270	27,765	4,757	1,500
" 1871.....	85,640	20,192	14,935	5,101,041	3,932	19,749	3,892	1,666
" 1870.....	77,655	15,819	5,775	4,717,939	2,535	10,950	4,427	925
" 1869.....	69,505	9,546	5,295	2,325,150	1,180	8,563	7,533	2,185
" 1868.....	73,529	13,146	3,239	1,765,199	3,637	5,055	10,150	2,221
" 1867.....	88,888	11,614	4,522	454,786	2,523	8,820	15,984	6,804
" 1866.....	74,720	7,805	34,164	893,746	3,277	6,292	11,852	4,584
" 1865.....	34,013	2,713	5,000	-----	1,929	2,487	10,427	5,528
" 1864.....	67,933	5,627	11,634	-----	5,677	7,207	36,866	5,871
" 1863.....	90,337	15,811	-----	-----	10,987	10,546	42,987	6,377
" 1862.....	56,432	12,685	-----	-----	13,535	6,761	33,174	3,217

Hops.

The culture of hops, as an article of commerce, received but little attention prior to 1860. In 1865, 2,864 bales only were shipped from Milwaukee. In addition, a large amount was used by the brewers throughout the state. In 1866, the amount exported was increased, and 5,774 bales were shipped to eastern markets. The price, from forty-five to fifty-five cents per pound, stimulated production, and the article became one of the staple products of the counties of Sauk, Columbia, Adams and Juneau, besides being largely cultivated in parts of some other counties. In 1867, 26,562 bales were received at Milwaukee, and the prices ranged from fifty to seventy cents per pound. The estimated crop of the state for 1867 was 35,000 bales, and brought over \$4,200,000. In 1868, not less than 60,000 bales were grown in the state. The crop everywhere was a large one, and in Wisconsin so very large that an over-supply was anticipated. But few, however, were prepared for the decline in prices, that far exceeded the worst apprehensions of those interested. The first sales were made at twenty-five to thirty-five cents per pound, and the prices were reluctantly accepted by the growers. The price continued to decline until the article was unsalable and unavailable in the market. Probably the average price did not exceed ten cents per pound. Notwithstanding the severe check which hop-growing received in 1868, by the unprofitable result, growers were not discouraged, and the crop of 1869 was a large one. So much of the crop of 1868 remained in the hands of the growers, that it is impossible to estimate that of 1869. The new crop sold for from ten to fifteen cents, and the old for from three to five cents per pound. Hop-cultivation received a check from over-production in 1868, from which it did not soon recover. A large proportion of the yards were plowed under in 1870. The crop of 1869 was much of it marketed during 1870, at a price of about two and one-half to three and one-half cents per pound, while that of 1870 brought ten to twelve and a half cents. During the year 1871, a great advance in the price, caused by the partial failure of the crop in some of the eastern states, and the decrease in price causing a decrease in production, what was left over of the crop of 1870 more than doubled in value before the new reached the market. The latter opened at thirty cents, and steadily rose to fifty and fifty-five for prime

qualities. The crop of 1872 was of good quality, and the market opened at forty to fifty-five cents as the selling price, and fell fifteen to twenty cents before the close of the year. A much larger quantity was raised than the year previous. In 1873 and 1874, the crop was fair and prices ruled from thirty-three to forty-five cents, with increased production. About 18,000 bales were reported as being shipped from the different railway stations of the state. Prices were extremely irregular during 1875, and, after the new crop reached market, fell to a point that would not pay the cost of production. In 1876, prices ruled low at the opening of the year, and advanced from five to ten cents in January to twenty-eight to thirty in November. Over 17,000 bales were received at Milwaukee, over 10,000 bales being of the crop of the previous year. Over 13,000 bales were shipped out of the state.

TOBACCO.

Tobacco raising is comparatively a new industry in Wisconsin, but is rapidly growing in importance and magnitude. It sells readily for from four to ten cents per pound, and the plant is easily raised. It is not regarded as of superior quality. It first appears as a commodity of transportation in the railway reports for the year 1871, when the Prairie du Chien division of the St. Paul road moved eastward 1,373,650 pounds. During the four years ending with 1876, there were shipped from Milwaukee an average of 5,118,530 pounds annually, the maximum being in 1874, 6,982,175 pounds; the minimum in 1875, 2,743,854 pounds. The crop of 1876 escaped the early frosts, and netted the producer from five to seven cents per pound. The greater part of it was shipped to Baltimore and Philadelphia. Comparatively little of the leaf raised in the state is used here or by western manufacturers. The crop of the present year, 1877, is a large one, and has been secured in good order. It is being contracted for at from four to six cents per pound.

CRANBERRIES.

The cranberry trade is yet in its infancy. But little, comparatively, has been done in developing the capabilities of the extensive bodies of marsh and swamp lands interspersed throughout the northern part of the state. Increased attention is being paid to the culture of the fruit; yet, the demand will probably keep ahead of the supply for many years to come. In 1851, less than 1,500 barrels were sent out of the state. In 1872, the year of greatest production, over 37,000 barrels were exported, and, in 1876, about 17,000 barrels. The price has varied in different years, and taken a range from eight to fifteen dollars a barrel.

SPIRITUOUS AND MALT LIQUORS.

The production of liquors, both spirituous and malt, has kept pace with the growth of population and with the other industries of the state. There were in Wisconsin, in 1872, two hundred and ninety-two breweries and ten distilleries. In 1876, there were two hundred and ninety-three of the former and ten of the latter, and most of them were kept running to their full capacity. Milwaukee alone produced, in 1876, 321,611 barrels of lager beer and 43,175 barrels of high wines. In 1865, it furnished 65,666 barrels of beer, and in 1870, 108,845 barrels. In 1865, it furnished 3,046 barrels of high wines; in 1870, 22,867 barrels; and in 1875, 39,005. A large quantity of the beer made was shipped to eastern and southern cities. The beer made in 1876 sold at the rate of ten dollars per barrel, the wholesale price of the brewers bringing the sum of \$3,216,110. The fame of Milwaukee lager beer is widely extended. This city has furnished since 1870, 1,520,308 barrels which, at the wholesale price, brought \$15,203,170. The total production of beer by all the two hundred and ninety-three breweries of the state for 1876, was 450,508 barrels.

In 1876, Milwaukee produced 43,175 barrels of high wines, or distilled spirits, and the state of Wisconsin 51,959 barrels. In 1870, the former produced 108,845 barrels of beer and 22,867 barrels of distilled spirits, and in the same year the state of Wisconsin produced 189,664 barrels of beer and 36,145 barrels of distilled spirits.

MISCELLANEOUS.

Porcelain clay, or kaolin, is found in numerous places in Wood and Marathon counties. The mineral is found in but few places in the United States in quantities sufficient to justify the investment of capital necessary to manufacture it. In the counties mentioned, the deposits are found in extensive beds, and only capital and enterprise are needed to make their development profitable. Clay of superior quality for making brick and of fair quality for pottery, is found in numerous localities. The famous "Milwaukee brick," remarkable for their beautiful cream color, is made from a fine clay which is abundant near Milwaukee, and is found in extensive beds at Watertown, Whitewater, Edgerton, Stoughton, and several places on the lake shore north of Milwaukee. At Whitewater and some other places the clay is used with success for the making of pottery ware. Water-lime, or hydraulic cement, occurs in numerous places throughout the state. An extensive bed covering between one and two hundred acres, and of an indefinite depth, exists on the banks of the Milwaukee river, and not over one and a half miles from the city limits of Milwaukee. The cement made from the rock of this deposit is first-class in quality, and between twenty and thirty thousand barrels were made and sold last year. The capacity of the works for reducing the rock to cement has been increased to 500 barrels per day. Stones suitable for building purposes are widely distributed throughout the state, and nearly every town has its available quarry. Many of these quarries furnish stone of fine quality for substantial and permanent edifices. The quarry at Prairie du Chien furnished the stone for the capital building at Madison, which equals in beauty that of any state in the Union. At Milwaukee, Waukesha, Madison, La Crosse, and many other places are found quarries of superior building stone. Granite is found in extensive beds in Marathon and Wood counties, and dressed specimens exhibited at the "Centennial" last year, attracted attention for their fine polish. Marbles of various kinds are likewise found in the state. Some of them are beginning to attract attention and are likely to prove valuable. The report of Messrs. Foster & Whitney, United States geologists, speaks of quarries on the Menomonee and Michigamig rivers as affording beautiful varieties and susceptible of a high polish. Richland county contains marble, but its quality is generally considered inferior.

WATER POWERS.

Wisconsin is fast becoming a manufacturing state. Its forests of pine, oak, walnut, maple, ash, and other valuable woods used for lumber, are well-nigh inexhaustible. Its water-power for driving the wheels of machinery is not equaled by that of any state in the northwest. The Lower Fox river between Lake Winnebago and Green Bay, a distance of thirty-five miles, furnishes some of the best facilities for manufacturing enterprise in the whole country. Lake Winnebago as a reservoir gives it a great and special advantage, in freedom from liability to freshets and droughts. The stream never varies but a few feet from its highest to its lowest stage, yet gives a steady flow. The Green Bay and Mississippi canal company has, during the last twenty-five years, constructed numerous dams, canals and locks, constituting very valuable improvements. All the property of that company has been transferred to the United States government, which has entered upon a system to render the Fox and Wisconsin rivers navigable to the Mississippi. The fall between the lake and Deperre is one hundred and fifty feet, and the water can be utilized

in propelling machinery at Neenah, Menasha, Appleton, Cedar, Little Chute, Kaukauna, Rapid Croche, Little Kaukauna and Depere. The water-power at Appleton in its natural advantages is pronounced by Hon. Hiram Barney, of New York, superior to those at Lowell, Paterson and Rochester, combined. The water-power of the Fox has been improved to a considerable extent, but its full capacity has hardly been touched. Attention has been drawn to it, however, and no doubt is entertained that in a few years the hum of machinery to be propelled by it, will be heard the entire length of the thirty-five miles. The facilities presented by its nearness to timber, iron, and a rich and productive agricultural region, give it an advantage over any of the eastern manufacturing points.

The Wisconsin river rises in the extreme northern part of the state, and has its source in a great number of small lakes. The upper portion abounds in valuable water privileges, only a few of which are improved. There are a large number of saw-mills running upon the power of this river. Other machinery, to a limited extent, is in operation.

The "Big Bull" falls, at Wausau, are improved, and a power of twenty-two feet fall is obtained. At Little Bull falls, below Wausau, there is a fall of eighteen feet, partially improved. There are many other water-powers in Marathon county, some of which are used in propelling flouring-mills and saw-mills. At Grand Rapids, there is a descent of thirty feet to the mile, and the water can be used many times. Each time, 5,000 horse-power is obtained. At Kilbourn City a large amount of power can be obtained for manufacturing purposes.

Chippewa river has its origin in small streams in the north part of the state. Explorers tell us that there are a large number of water powers on all the upper branches, but as the country is yet unsettled, none of them have been improved, and very few even located on our maps. Brunette falls and Amerger falls, above Chippewa Falls city, must furnish considerable water-power, but its extent is not known. At Chippewa Falls is an excellent water-power, only partially improved. The river descends twenty-six feet in three-fourths of a mile. At Duncan creek at the same place, there is a good fall, improved to run a large flouring mill. At Eagle Rapids, five miles above Chippewa Falls, \$120,000 has been expended in improving the fall of the Chippewa river. The city of Eau Claire is situated at the confluence of the Chippewa and Eau Claire rivers, and possesses in its immediate vicinity water-powers almost unrivaled. Some of them are improved. The citizens of Eau Claire have, for several years, striven to obtain legislative authority to dam the Chippewa river, so as to improve the water-power of the Dells, and a lively contest, known as the "Dells fight," has been carried on with the capitalists along the river above that town. There are immense water-powers in Dunn county, on the Red Cedar, Chippewa and Eau Galle rivers, on which there are many lumbering establishments. In Pepin county also there are good powers. The Black river and its branches, the La Crosse, Buffalo, Trempealeau, Beaver, and Tamaso, furnish many valuable powers. The St. Croix river is not excelled in the value of its water privileges by any stream in the state, except the Lower Fox river. At St. Croix Falls, the water of the river makes a descent of eighty-five feet in a distance of five miles, and the volume of water is sufficient to move the machinery for an immense manufacturing business, and the banks present good facilities for building dams, and the river is not subject to freshets. The Kinnekinnick has a large number of falls, some of them partially improved. Within twenty-five miles of its entrance into Lake St. Croix, it has a fall of two hundred feet, and the volume of water averages about three thousand cubic feet per minute. Rock river affords valuable water-privileges at Watertown (with twenty-four feet fall, and largely improved; at Jefferson, Indian Ford and Janesville, all of which are improved. Beloit also has an excellent water-power, and it is largely improved. Scattered throughout the state are many other water-powers, not alluded

to in the foregoing. There are several in Manitowoc county; in Marquette county, also. In Washington county, at West Bend, Berlin, and Cedar Creek, there are good water-powers, partly utilized. At Whitewater, in Walworth county, is a good power. In Dane county, there is a water-power at Madison, at the outlet of Lake Mendota; also, a good one at Stoughton, below the first, or Lake Kegonsa; also at Paoli, Bellville, Albany and Brodhead, on the Sugar river. In Grant county there are not less than twenty good powers, most of them well-developed. In Racine county, three powers of fine capacity at Waterford, Rochester and Burlington, all of which are improved. The Oconto, Peshtigo and Menomonee rivers furnish a large number of splendid water-powers of large capacity. The Upper Wolf river has scores of water-powers on its main stream and numerous branches; but most of the country is still a wilderness, though containing resources which, when developed, will make it rich and prosperous. There are numerous other streams of less consequence than those named, but of great importance to the localities they severally drain, that have had their powers improved, and their waterfalls are singing the songs of commerce. On the rivers emptying into Lake Superior, there are numerous and valuable water-powers. The Montreal river falls one thousand feet in a distance of thirty miles.

MANUFACTURES.

The mechanical and manufacturing industries of Wisconsin demonstrate that the people do not rely wholly upon agricultural pursuits, or lumbering, for subsistence, but aim to diversify their labors as much as possible, and to give encouragement to the skill and ingenuity of their mechanics and artisans. All our cities, and most of our villages, support establishments that furnish wares and implements in common use among the people. We gather from the census report for 1870 a few facts that will give us an adequate idea of what was done in a single year, remembering that the data furnished is six years old, and that great advancement has been made since the statistics were gathered. In 1870, there were eighty-two establishments engaged in making agricultural implements, employing 1,387 hands, and turning out products valued at \$3,393,400. There were one hundred and eighty-eight furniture establishments, employing 1,844 men, and making \$1,542,300 worth of goods. For making carriages and wagons there were four hundred and eighty-five establishments, employing 2,184 men, and their product was valued at \$2,596,534; for clothing, two hundred and sixty-three establishments, and value of product \$2,340,400; sash, doors and blinds, eighty-one shops, and value of product \$1,852,370; leather, eighty-five tanneries, employing 577 men, and value of products \$2,013,000; malt liquors, one hundred and seventy-six breweries, 835 men, and their products valued at \$1,790,273.

At many points the business of manufacturing is carried on more or less extensively; indeed, there is hardly a village in the state where capital is not invested in some kind of mechanical industry or manufacturing enterprise, and making satisfactory returns; but for details in this respect, the reader is referred to the department of local history.

The principal commodities only, which Wisconsin contributes to trade and commerce, have been considered. There remains quite a number of minor articles from which the citizens of the state derive some revenue, such as flax and maple sugar, which can not be separately considered in this paper.

CONCLUDING REMARKS.

Statistics are usually dry reading, but, to one desiring to change his location and seeking information regarding a new country and its capabilities, they become intensely interesting and of great value. The farmer wishes to know about the lands, their value and the productiveness of the soil; the mechanic about the workshops, the price of labor, and the demand for such wares

as he is accustomed to make; the capitalist, concerning all matters that pertain to resources, advantages, and the opportunities for investing his money. Our own people want all the information that can be gained by the collection of all obtainable facts. The sources of such information are now various, and the knowledge they impart fragmentary in its character.

Provision should be made by law, for the collection and publication of reliable statistics relating to our farming, manufacturing, mining, lumbering, commercial and educational interests. Several of the states of the Union have established a "Bureau of Statistics," and no more valuable reports emanate from any of their state departments than those that exhibit a condensed view of the material results accomplished each year. Most of the European states foster these agencies with as much solicitude as any department of their government. Indeed, they have become a social as well as a material necessity, for social science extends its inquiries to the physical laws of man as a social being; to the resources of the country; its productions; the growth of society, and to *all* those facts or conditions which may increase or diminish the strength, growth or happiness of a people. Statistics are the foundation and corner-stone of social science, which is the highest and noblest of all the sciences.

A writer has said that, "If God had designed Wisconsin to be chiefly a manufacturing state, instead of agricultural, which she claims to be, and is, it is difficult to see more than one particular in which He could have endowed her more richly for that purpose." She has all the material for the construction of articles of use and luxury, the means of motive power to propel the machinery, to turn and fashion, weave, forge, and grind the natural elements that abound in such rich profusion. She has also the men whose enterprise and skill have accomplished most surprising results, in not only building up a name for themselves, but in placing the state in a proud position of independence.

It is impossible to predict what will be the future growth and development of Wisconsin. From its commercial and manufacturing advantages, we may reasonably anticipate that she will in a few years lead in the front rank of the states of the Union in all that constitutes real greatness. Her educational system is one of the best. With her richly endowed State University, her colleges and high schools, and the people's colleges, the common schools, she has laid a broad and deep foundation for a great and noble commonwealth. It was early seen what were the capabilities of this their newly explored domain. The northwestern explorer, Jonathan Carver, in 1766, one hundred and thirteen years ago, after traversing Wisconsin and viewing its lakes of crystal purity, its rivers of matchless utility, its forests of exhaustless wealth, its prairies of wonderful fertility, its mines of buried treasure, recorded this remarkable prediction of which we see the fulfillment: "To what power or authority this new world will become dependent after it has arisen from its present uncultivated state, time alone can discover. But as the seat of empire from time immemorial has been gradually progressive toward the west, there is no doubt but that at some future period mighty kingdoms will emerge from these wildernesses, and stately palaces and solemn temples with gilded spires reaching to the skies supplant the Indian huts, whose only decorations are the barbarous trophies of their vanquished enemies."

"Westward the course of empire takes its way;

The four first acts already passed,

A fifth shall close the drama with the day;

Time's noblest offspring is the last."

THE PUBLIC DOMAIN.

By D. S. DURRIE.

In the early part of the seventeenth century, all the territory north of the Ohio river, including the present state of Wisconsin, was an undiscovered region. As far as now known, it was never visited by white men until the year 1634, when Jean Nicolet came to the Green bay country as an ambassador from the French to the Winnebagoes. The Jesuit fathers in 1660 visited the south shore of Lake Superior; and, soon after, missions were established at various points in the northwest.

The French government appreciating the importance of possessing dominion over this section, M. Talon, intendant of Canada, took steps to carry out this purpose, and availed himself of the good feelings entertained toward the French by a number of the Indian tribes, to establish the authority of the French crown over this remote quarter. A small party of men led by Daumont de St. Lussou, with Nicolas Perrot as interpreter, set out from Quebec on this mission, in 1670, and St. Lussou sent to the tribes occupying a circuit of a hundred leagues, inviting the nations, among them the Wisconsin tribes inhabiting the Green bay country, by their chiefs and ambassadors, to meet him at the Sault Sainte Marie the following spring.

In the month of May, 1671, fourteen tribes, by their representatives, including the Miamis, Sacs, Winnebagoes, Menomonees, and Pottawattamies, arrived at the place designated. On the morning of the fourteenth of June, "St. Lussou led his followers to the top of the hill, all fully equipped and under arms. Here, too, in the vestments of their priestly office were four Jesuits: Claude Dablon, superior of the mission on the lakes, Gabriel Druillettes, Claude Allouez, and André. All around, the great throng of Indians stood, or crouched, or reclined at length with eyes and ears intent. A large cross of wood had been made ready. Dablon, in solemn form, pronounced his blessing on it; and then it was reared and planted in the ground, while the Frenchmen, uncovered, sang the *Vexilla Regis*. Then a post of cedar was planted beside it, with a metal plate attached, engraven with the royal arms; while St. Lussou's followers sang the *exultat*, and one of the priests uttered a prayer for the king. St. Lussou now advanced, and, holding his sword in one hand, and raising with the other a sod of earth, proclaimed in a loud voice "that he took possession of all the country occupied by the tribes, and placed them under the king's protection.

This act, however, was not regarded as sufficiently definite, and on the eighth of May, 1689, Perrot, who was then commanding for the king at the post of Nadouesionx, near Lake Pepin on the west side of the Mississippi, commissioned by the Marquis de Denonville to manage the interests of commerce west of Green bay took possession, in the name of the king, with appropriate ceremonies, of the countries west of Lake Michigan as far as the river St. Peter. The papers were signed by Perrot and others.

By these solemn acts, the present limits of Wisconsin with much contiguous territory, came under the dominion of the French government, the possession of which continued until October, 1761—a period of ninety years from the gathering of the chiefs at the Sault Ste. Marie in 1671.

From the commencement of French occupancy up to the time when the British took possession, the district of country embraced within the present limits of this state had but few white inhabitants besides the roaming Indian traders; and of these few, the locations were separated by a distance of more than two hundred miles in a direct line, and nearly double that distance by

the usual water courses. There was no settlement of agriculturists; there were no missionary establishments; no fortified posts at other points, except at Depere and Green bay on Fox river, and perhaps at Prairie du Chien, near the junction of the Wisconsin and the Mississippi.

The French government made no grant of lands; gave no attention to settlers or agriculturists, and the occupation of the country was strictly military. There were, indeed, a few grants of lands made by the French governors and commanders, previous to 1750, to favored individuals, six of which were afterward confirmed by the king of France. There were also others which did not require confirmation, being made by Cardillac, commanding at Detroit, under special authority of the king; of this latter kind, one for a small piece of thirty acres bears with it, says a writer, "so many conditions, reservations, prohibitions of sale, and a whole cavalcade of feudal duties to be performed by the grantee, that in itself, it would be a host in opposition to the agricultural settlement of any country."

The grants just referred to, relate to that part of the French possessions outside the limits of the present state of Wisconsin. Within its limits there was a grant of an extensive territory including the fort at the head of Green bay, with the exclusive right to trade, and other valuable privileges, from the Marquis de Vaudreuil, in October, 1759, to M. Rigaud. It was sold by the latter to William Gould and Madame Vaudreuil, to whom it was confirmed by the king of France in January, 1760, at a very critical period, when Quebec had been taken by the British, and Montreal was only wanting to complete the conquest of Canada. This grant was evidently intended as a perquisite to entrap some unwary persons to give a valuable consideration for it, as it would be highly impolitic for the government to make such a grant, if they continued masters of the country, since it would surely alienate the affections of the Indians. The whole country had already been virtually conquered by Great Britain, and the grant of course was not confirmed by the English government.

Of the war between the French and English governments in America, known as the French and Indian war, it is not necessary to speak, except in general terms. The English made a determined effort to obtain the possessions claimed by the French. The capture of Quebec in 1759, and the subsequent capitulation of Montreal in 1760, extinguished the domination of France in the basin of the St. Lawrence; and by the terms of the treaty of Paris, concluded February 10, 1763, all the possessions in, and all the claims of the French nation to, the vast country watered by the Ohio and the Mississippi were ceded to Great Britain.

Among the first acts of the new masters of the country was the protection of the eminent domain of the government, and the restriction of all attempts on the part of individuals to acquire Indian titles to lands. By the King of England's proclamation of 1763, no more grants of land within certain prescribed limits could be issued, and all private persons were interdicted the liberty of purchasing lands from the Indians, or of making settlements within those prescribed limits. The indulgence of such a privilege as that of making private purchases of the natives, conduced to the most serious difficulties, and made way for the practice of the most reprehensible frauds. The policy pursued by the English government has been adopted and acted upon by the government of the United States in the extinguishment of the Indian title to lands in every part of the country.

In face of the proclamation of 1763, and within three years after its promulgation, under a pretended purchase from, or voluntary grant of the natives, a tract of country nearly one hundred miles square, including large portions of what is now northern Wisconsin and Minnesota, was claimed by Jonathan Carver, and a ratification of his title solicited from the king and council. This was not conceded; and the representatives of Carver, after the change of government had

brought the lands under the jurisdiction of the United States, for a series of years presented the same claims before congress, and asked for their confirmation. Such a demand under all the circumstances, could not justify an expectation of success; and, of course, has often been refused. But notwithstanding the abundant means which the public have had of informing themselves of the true nature and condition of Carver's claim, bargains and sales of portions of this tract have been made among visionary speculators for more than half a century past. It is now only a short period since the maps of the United States ceased to be defaced by a delineation of the "Carver Grant."

The mere transfer of the dominion over the country from the French to the English government, and the consequent occupation of the English posts by the new masters, did not in any great degree affect the social condition of the inhabitants. By the terms of capitulation, the French subjects were permitted to remain in the country, in the full enjoyment of their civil and religious privileges.

The English, however, did not hold peaceable possession of the territory acquired. The war inaugurated by Pontiac and his Indian allies on the military posts occupied by the English soon followed, and in the month of May, 1763, nine posts were captured with much loss of life. In the spring of 1764, twenty-two tribes who were more or less identified in the outbreak, concluded a treaty of peace with General Bradstreet at Niagara.

The expedition of Colonel George Rogers Clark to the Illinois country, and the conquest of the British posts in 1778 and 1779, had the effect to open the way for the emigration of the Anglo-American population to the Mississippi valley; and at the close of the revolutionary war, Great Britain renounced all claim to the whole territory lying east of the Mississippi river. The dominion of the English in the Illinois and Wabash countries, ceased with the loss of the military posts which commanded the Northwestern territory of the United States. As a result of the enterprise and success of Clark, Virginia obtained possession of the Illinois country; his expedition having been undertaken and carried forward under the auspices of that state.

Several of the eastern states under their colonial charters, laid claim to portions of the land comprised in the territory northwest of the Ohio river. The claim of Massachusetts was derived from a grant from King James of November 3, 1620; and included from lat. $42^{\circ} 2'$ to about lat. 45° , extending to the south sea; Connecticut claimed from lat. 41° north to $42^{\circ} 2'$. The claims of Virginia were from grants from King James, bearing date, respectively, April 10, 1606, May 23, 1609, and March 12, 1611, and an additional claim for the territory conquered by Clark in the Illinois country; but they extended no farther north than the southern end of Lake Michigan.

It is a popular impression that the territory of the present state of Wisconsin was comprehended in the lands northwest of the river Ohio, over which Virginia exercised jurisdiction, and, consequently, was included in her deed of cession of lands to the United States. This opinion so generally entertained by writers on American history, is a statement which does not appear to have any solid foundation in fact. Virginia never made any conquests or settlements in Wisconsin, and at no time prior to the proffer of her claims to the general government had she ever exercised jurisdiction over it. In fact, there were no settlements in Wisconsin except at Green Bay and Prairie du Chien before that time, and these were made by French settlers who were in no wise interfered with while the revolution continued. In Illinois it was otherwise; and the possession of its territory by Virginia was an undisputed fact. During the revolution the title of the sovereignty in Wisconsin was actually in Great Britain, and so remained until the definite treaty of peace in 1783; at which date England yielding her right constructively to the United States, retaining possession, however, until 1796; at which time the western posts were transferred to the United States.

All the claiming states finally ceded their interests to the general government, giving the latter a perfect title, subject only to the rights of the Indians. The deed of cession from Virginia was dated March 1, 1784. The other states ceded their claims, some before this date, others subsequent thereto.

Virginia made a number of stipulations in her deed of cession; among others, that the French and Canadian inhabitants and the neighboring villages who had professed themselves citizens of Virginia, should have their possessions and title confirmed to them, and be protected in the enjoyment of their rights and liberties; that 150,000 acres of land near the rapids of the Ohio, should be reserved for that portion of her state troops which had reduced the country; and about 3,500,000 acres between the rivers Scioto and Little Miami be reserved for bounties to her troops on the continental establishment.

In consequence of certain objectionable stipulations made by Virginia as to the division of the territory into states, the deed of cession was referred back to that state with a recommendation from congress that these stipulations should be altered. On the 30th of December, 1788, Virginia assented to the wish of congress, and formally ratified and confirmed the fifth article of compact which related to that subject, and tacitly gave her consent to the whole ordinance of 1787. The provisions of this ordinance have since been applied to all the territories of the United States lying north of the 36° 40'. After the adoption of the constitution of the United States the new congress, among its earliest acts, passed one, recognizing the binding force of the ordinance of 1787.

Of this ordinance it has been said: "It was based on the principles of civil liberty, maintained in the magna charta of England, re-enacted in the bill of rights, and incorporated in our different state constitutions. It was the fundamental law of the constitution, so to speak, of the great northwest, upon which were based, and with which harmonized all our territorial enactments, as well as our subsequent state legislation, and, moreover, it is to that wise, statesman-like document that we are indebted for much of our prosperity and greatness."

After the close of the revolutionary war, enterprising individuals traversed the whole country which had been ceded to the government, and companies were formed to explore and settle the fertile and beautiful lands beyond the Ohio; but the determination of the British cabinet not to evacuate the western posts, was well known, and had its effect on the people who were disposed to make settlements.

The western tribes were also dissatisfied and threatened war, and efforts were made by the government to settle the difficulties. A grand council was held at the mouth of Detroit river in December, 1787, which did not result favorably, and two treaties were subsequently held, which were not respected by the savages who were parties to them. Soon an Indian war ensued, which resulted at first disastrously to the American troops under Generals Harmar and St. Clair, but finally with success to the American arms under General Wayne. The treaty of Greenville followed. It was concluded August 3, 1795. At this treaty there were present eleven hundred and thirty chiefs and warriors. It was signed by eighty-four chiefs and General Anthony Wayne, sole commissioner of the United States. One of the provisions of the treaty was that in consideration of the peace then established, and the cessions and relinquishments of lands made by the tribes of Indians, and to manifest the liberality of the United States as the great means of rendering this peace strong and perpetual, the United States relinquished their claims to all other Indian lands northward of the river Ohio, eastward of the Mississippi, and westward and southward of the great lakes and the waters united by them, except certain reservations and portions before purchased of the Indians, none of which were within the present limits of this state. The Indian title to the whole of what is now Wisconsin, subject only to certain restrictions, became

absolute in the various tribes inhabiting it. By this treaty it was stipulated that, of the lands relinquished by the United States, the Indian tribes who have a right to those lands, were quietly to enjoy them; hunting, planting, and dwelling thereon so long as they pleased; but, when those tribes or any of them should be disposed to sell them, or any part of them, they were to be sold only to the United States, and until such sale, the United States would protect all of the tribes in the quiet enjoyment of their lands against all citizens of the United States, and all other white persons who might intrude on the same. At the same time all the tribes acknowledged themselves to be under the protection of the United States, and no other person or power whatsoever.

The treaty also prohibited any citizen of the United States, or any other white man, settling upon the lands relinquished by the general government; and such person was to be considered as out of the protection of the United States; and the Indian tribe on whose land the settlement might be made, could drive off the settler, or punish him in such manner as it might see fit.

It will be seen that the Indians were acknowledged to have an unquestionable title to the lands they occupied until that right should be extinguished by a voluntary cession to the general government; and the constitution of the United States, by declaring treaties already made, as well as those to be made, to be the supreme law of the land, adopted and sanctioned previous treaties with the Indian nations, and consequently admitted their rank among those powers who are capable of making treaties.

The several treaties which had been made between commissioners on the part of the United States and various nations of Indians, previous to the treaty of Greenville, were generally restricted to declarations of amity and friendship, the establishment and confirming of boundaries, and the protection of settlements on Indian lands; those that followed were generally for a cession of lands and provisions made for their payment. It is proposed to notice the several treaties that took place after that held at Greenville, showing in what way the territory of the present state, came into possession of the government. As will be seen hereafter, it required treaties with numerous tribes of Indians to obtain a clear, undisputed title, as well as many years before it was fully accomplished.

1. A treaty was held at St. Louis, November 3, 1804, between the Sacs and Foxes and the United States. William Henry Harrison was acting commissioner on the part of the government. By the provisions of the treaty, the chiefs and head men of the united tribes ceded to the United States a large tract on both sides of the Mississippi, extending on the east from the mouth of the Illinois to the head of that river, and thence to the Wisconsin; and including on the west considerable portions of Iowa and Missouri, from the mouth of the Gasconade northward. In what is now the state of Wisconsin, this grant embraced the whole of the present counties of Grant and La Fayette and a large portion of Iowa and Green counties. The lead region was included in this purchase. In consideration of this cession, the general government agreed to protect the tribes in the quiet enjoyment of their land against its own citizens and all others who should intrude on them. The tribes permitted a fort to be built on the upper side of the Wisconsin river, near its mouth, and granted a tract of land two miles square, adjoining the same. The government agreed to give them an annuity of one thousand dollars per annum. The validity of this treaty was denied by one band of the Sac Indians, and this cession of land became, twenty-eight years after, the alleged cause of the Black Hawk war.

2. Another treaty was held at Portage des Sioux, now a village in St. Charles county, Missouri, on the Mississippi river, September 13, 1815, with certain chiefs of that portion of the Sac nation then residing in Missouri, who, they said, were compelled since the commencement of

the late war, to separate themselves from the rest of their nation. They gave their assent to the treaty made at St. Louis in 1804, and promised to remain separate from the Sacs of Rock river, and to give them no aid or assistance, until peace should be concluded between the United States and the Foxes of Rock river.

3. On the 14th of September, a treaty was made with the chiefs of the Fox tribe at the same place. They agreed that all prisoners in their hands should be delivered up to the government. They assented to, recognized, re-established and confirmed the treaty of 1804, to the full extent of their interest in the same.

4. A treaty was held at St. Louis, May 13, 1816, with the Sacs of Rock river, who affirmed the treaty of 1804, and agreed to deliver up all the property stolen or plundered, and in failure to do so, to forfeit all title to their annuities. To this treaty, Black Hawk's name appears with others. That chief afterward affirmed that though he himself had "touched the quill" to this treaty, he knew not what he was signing, and that he was therein deceived by the agent and others, who did not correctly explain the nature of the grant; and in reference to the treaty of St. Louis in 1804, and at Portage des Sioux in 1815, he said that he did not consider the same valid or binding on him or his tribe, inasmuch as by the terms of those treaties, territory was described which the Indians never intended to sell, and the treaty of 1804, particularly, was made by parties who had neither authority in the nation, nor power to dispose of its lands. Whether this was a true statement of the case, or otherwise, it is quite certain that the grant of lands referred to was often confirmed by his nation, and was deemed conclusive and binding by the government. The latter acted in good faith to the tribes, as well as to the settlers, in the disposition of the lands.

5. A treaty of peace and friendship was made at St. Louis, June 3, 1816, between the chiefs and warriors of that part of the Winnebagoes residing on the Wisconsin river. In this treaty the tribe state that they have separated themselves from the rest of their nation; that they, for themselves and those they represent, confirm to the United States all and every cession of land heretofore made by their nation, and every contract and agreement, as far as their interest extended.

6. On the 30th of March, 1817, the Menomonee tribe concluded a treaty of peace and friendship at St. Louis with the United States, and confirmed all and every cession of land before made by them within the limits of the United States.

7. On the 19th of August, 1825, at Prairie du Chien, a treaty was made with the Sioux, Chippewas, Sacs and Foxes, Winnebagoes, Ottawas and Pottawattamies, by which the boundary between the two first nations was agreed upon; also between the Chippewas, Winnebagoes and other tribes.

8. Another treaty was held August 5, 1826, at Fond du Lac of Lake Superior, a small settlement on the St. Louis river, in Itaska county, Minn., with the same tribes, by which the previous treaty was confirmed in respect to boundaries, and those of the Chippewas were defined, as a portion of the same was not completed at the former treaty.

9. A treaty was made and concluded August 1, 1827, at Butte des Morts, between the United States and the Chippewa, Menomonee and Winnebago tribes, in which the boundaries of their tribes were defined; no cession of lands was made.

10. A treaty was made at Green Bay, August 25, 1828, with the Winnebagoes, Pottawattamies and other tribes. This treaty was made to remove the difficulties which had arisen in consequence of the occupation by white men of that portion of the mining country in the southwestern part of Wisconsin which had not been ceded to the United States. A provisional

boundary was provided, and privileges accorded the government to freely occupy their territory until a treaty should be made for the cession of the same. This treaty was simply to define the rights of the Indians, and to give the United States the right of occupation.

11. Two treaties were made at Prairie du Chien, on the 29th of July, 1829, and August 1, 1829: at the first date, with the Chippewas, Ottawas and Pottawattamies, by which these nations ceded all their lands which they claimed in the northwestern part of Illinois; and at the latter date with the Winnebagoes, by which that nation ceded and relinquished all their right, title and claim to all their lands south of the Wisconsin river, thus confirming the purchase of the lead-mine region. Certain grants were made to individuals, which grants were not to be leased or sold by the grantees.

By this important treaty, about eight millions of acres of land were added to the public domain. The three tracts ceded, and forming one whole, extended from the upper end of Rock river to the mouth of the Wisconsin, from latitude $41^{\circ} 30'$ to latitude $43^{\circ} 15'$, on the Mississippi. Following the meanderings of the river, it was about two hundred and forty miles from west to east, extending along the Wisconsin and Fox rivers, affording a passage across the country from the Mississippi to Lake Michigan. The south part of the purchase extended from Rock Island to Lake Michigan.

12. Another important treaty was made at Green Bay, February 8, 1831, between the Menomence Indians and the United States. That nation possessed an immense territory. Its eastern division was bounded by the Milwaukee river, the shore of Lake Michigan, Green bay, Fox river, and Lake Winnebago; its western division, by the Wisconsin and Chippewa rivers on the west, Fox river on the south, Green bay on the east, and the high lands which flow the streams into Lake Superior on the north. By this treaty all the eastern division, estimated at two and a half millions of acres, was ceded to the government. By certain other provisions, the tribe was to occupy a large tract lying north of Fox river and east of Wolf river. Their territory farther west was reserved for their hunting-grounds until such time as the general government should desire to purchase it. Another portion, amounting to four millions of acres, lying between Green bay on the east and Wolf river on the west, was also ceded to the United States, besides a strip of country, three miles in width, from near the portage of the Wisconsin and Fox rivers north, on each side of the Wisconsin river, and forty-eight miles long — still leaving the tribe in peaceable possession of a country about one hundred and twenty miles long, and about eighty broad. By supplementary articles to the treaty, provision was made for the occupancy of certain lands by the New York Indians — two townships on the east side of Lake Winnebago.

13. At the conclusion of the Black Hawk war, in 1832, for the purpose of clearing up the Indian title of the Winnebago nation in the country, a treaty was made and concluded at Fort Armstrong, September 15, 1832. All the territory claimed by this nation lying south and east of the Wisconsin and Fox river of Green bay, was ceded to the United States, and no band or party of Winnebagoes was allowed to reside, plant, fish or hunt on these grounds, after June 1, 1833, or on any part of the country therein ceded.

14. On the 27th of October, 1832, articles of agreement were made and concluded at Green Bay between the United States and the Menomence Indians, by the terms of which that nation ceded to the New York Indians certain lands on Fox river.

15. An important treaty was made at Chicago, September 26, 1833, between the United States and the Chippewas, Ottawas and Pottawattamies. Those nations ceded to the government all their lands along the western shore of Lake Michigan, and between that lake and the land ceded to the United States by the Winnebago nation at the treaty at Fort Armstrong, September

15, 1832, bounded on the north by the country lately ceded by the Menomonees, and on the south by the country ceded at the treaty at Prairie du Chien, July 19, 1829 — containing about five millions of acres.

16. On the 3d of September, 1836, a treaty was made at Cedar Point with the Menomonees, by which lands lying west of Green bay, and a strip on the upper Wisconsin, were ceded to the United States — the quantity of land ceded being estimated at four millions of acres in the Green bay portion; on the Wisconsin river, a strip three miles wide on each side of the river, running forty-eight miles north in a direct line, equivalent to 184,320 acres.

17. On the 29th of July, 1837, a treaty was made with the Chippewas of the Mississippi, at Fort Snelling, and the United States, the nation ceding to the government all their lands in Wisconsin lying south of the divide between the waters of Lake Superior and those of the Mississippi.

18. Certain chiefs and braves of the Sioux nation of the Mississippi, while visiting Washington, September 29, 1837, ceded to the United States all their lands east of the Mississippi, and all their islands in said river.

19. The Winnebago nation, by the chiefs and delegates, held a treaty with the government at Washington, November 1, 1837. That nation ceded all their lands east of the Mississippi, and obligated themselves to remove, within eight months after the ratification of the treaty, to certain lands west of the river Mississippi which were conveyed to them by the treaty of September 21, 1832.

20. The Oneida or New York Indians, residing near Green Bay, by their chief and representative, on the 3d of February, 1838, at Washington City, ceded to the United States their title and interest in the land set apart by the treaty made with the Menomonees, May 8, 1831, and the treaty made with the same tribe, October 7, 1832, reserving about 62,000 acres.

21. Another treaty was made at Stockbridge on the 3d of September, 1839, by which the Stockbridge and Munsee tribes (New York Indians) ceded and relinquished to the United States the east half of the tract of 46,080 acres which was laid off for their use on the east side of Lake Winnebago by treaty of October 7, 1832.

22. On the 4th of October, 1842, a treaty was made at La Pointe, on Lake Superior, with the Chippewas. All their lands in the northern and northwestern parts of Wisconsin were ceded to the United States.

23. The Menomonee nation, on the 18th of October, 1848, at Pow-aw-hay-kon-nay, ceded and relinquished to the United States all their lands in the state, wherever situated — the government to furnish the nation as a home, to be held as Indian lands are held, all the country ceded to the United States by the Chippewa nation August 2, 1847, the consideration being the sum of \$350,000, to be paid according to the stipulations of the treaty. A supplementary treaty was made on the 24th of November, 1848, with the Stockbridges — the tribe to sell and relinquish to the United States the township of land on the east side of Lake Winnebago, secured to said tribe by treaty of February 8, 1831.

24. A treaty was made with the Menomonee nation, at the falls of Wolf river, May 12, 1854, being a supplementary treaty to one made October 18, 1848. All the lands ceded to that nation under the treaty last named was ceded to the United States — the Menomonees to receive from the United States a tract of country lying on Wolf river, being townships 28, 29 and 30, of ranges 13, 14, 15, 16.

25. A treaty was made with the Chippewas of Lake Superior, at La Pointe, on the 30th of September, 1854. That nation ceded to the United States all lands before owned by them in common with the Chippewas of the Mississippi — lying in the vicinity of Lake Superior in Wis-

consin and Minnesota.

26. On the 5th of February, 1856, a treaty was held with the Stockbridge and Munsee tribes, at Stockbridge. All the remaining right and title to lands in the town of Stockbridge, possessed by them, was ceded to the United States; and the said tribes were to receive in exchange a tract of land near the southern boundary of the Menomonee reservation, and by treaty made at Keshena, February 11, 1856, the Menomonees ceded two townships to locate the said tribes.

With this last treaty, the Indian title to all the lands of the present state of Wisconsin was ceded to the United States government, except a few small reservations to certain tribes, and a perfect, indefeasible title obtained to all the territory within its borders.

In the region of country which is now the state of Wisconsin, the settlements in early times were, as before stated, near Green Bay and at Prairie du Chien. Soon after the organization of the Northwest territory, the subject of claims to private property therein received much attention. By an act of congress approved March 3, 1805, lands lying in the districts of Vincennes, Kaskaskia and Detroit, which were claimed by virtue of French or British grants, legally and fully executed, or by virtue of grants issued under the authority of any former act of congress by either of the governors of the Northwest or Indiana territory, which had already been surveyed, were, if necessary, to be re-surveyed; and persons claiming lands under these grants were to have until November 1, 1805, to give notice of the same. Commissioners were to be appointed to examine, and report at the next session of congress. An act was also passed, approved April 25, 1806, to authorize the granting of patents for lands, according to government surveys that had been made, and to grant donation rights to certain claimants of land in the district of Detroit, and for other purposes. Another act was approved May 11, 1820, reviving the powers of the commissioners for ascertaining and deciding on claims in the district of Detroit, and for settling the claims to land at Green Bay and Prairie du Chien, in the territory of Michigan; the commissioners to have power to examine and decide on claims filed with the register of the land office, and not before acted on, in accordance with the laws respecting the same. The commissioners discharged the duties imposed on them, and in their report to congress in reference to the claims at Green Bay, they said that the antiquity of this settlement being, in their view, sufficiently established, and that they, being also satisfied that the Indian title must be considered to have been extinguished, decide favorably on the claims presented. About seventy-five titles were confirmed, and patents for the same were sent to the proper parties by the government. In relation to the Prairie du Chien titles, they reported "that they had met few difficulties in their investigations; that, notwithstanding the high antiquity which may be claimed for the settlement of that place, no one perfect title founded on French or British grant, legally authenticated, had been successfully made out; and that but few deeds of any sort have been exhibited." This they attribute to the carelessness of the Canadians in respect to whatever concerned their land titles, and accords with whatever is known in this regard, of the French population throughout the country. They therefore came to the conclusion that whatever claim the people of the place possessed, and might have for a confirmation of their land titles, they must be founded upon proof of continued possession since the year 1796. The commissioners further say, that "since the ancestors of these settlers were cut off, by the treaty which gave the Canadas to the English, from all intercourse with their parent country, the people both of Prairie du Chien and Green Bay have been left, until within a few years, quite isolated, almost without any government but their own; and, although the present population of these settlements are natives of the countries which they inhabit, and, consequently, are by birth citizens of the northwest, yet, until a few years, they have had as little political connection with its government as their ancestors had with the British. Ignorant of their civil rights, careless of their land titles, docility, habitual hospitality, cheerful

submission to the requisitions of any government which may be set over them, are their universal characteristics."

In reference to grants by the French and English governments, the commissioners say, they "have not had access to any public archives by which to ascertain with positive certainty, whether either the French or English ever effected a formal extinguishment of the Indian title at the mouth of the Wisconsin, which also may be said of the land now covered by the city of Detroit, that the French government was not accustomed to hold formal treaties for such purposes with the Indians, and when the lands have been actually procured from them, either by virtue of the assumed right of conquest, or by purchase, evidence of such acquisition is rather to be sought in the traditional history of the country, or in the casual or scanty relations of travelers, than among collections of state papers. Tradition *does* recognize the fact of the extinguishment of the Indian title at Prairie du Chien by the old French government, before its surrender to the English; and by the same species of testimony, more positive because more recent, it is established also, that, in the year 1781, Patrick Sinclair, lieutenant governor of the province of Upper Canada, while the English government had jurisdiction over this country, made a formal purchase from the Indians of the lands comprehending the settlement of Prairie du Chien."

The territories and states formed from the section known as the Northwest territory, were:

1. The Northwest territory proper (1787-1800) having jurisdiction over all the lands referred to in the ordinance of 1787. In 1802, Ohio was organized as a state with its present boundaries.

2. Indiana territory was formed July 4, 1800, with the seat of government at Vincennes. That territory was made to include all of the northwest, except what afterward became the state of Ohio.

3. Michigan territory was formed June 30, 1805. It was bounded on the south by a line drawn east from the south bend of Lake Michigan, on the west by the center of Lake Michigan. It did not include what is now Wisconsin. The upper peninsula was annexed in 1836. The state of Michigan was formed January 26, 1837, with its present boundaries.

4. Illinois territory was formed March 3, 1810. It included all of the Indiana territory west of the Wabash river and Vincennes, and a line running due north to the territorial line. All of Wisconsin was included therein, except what lay east of the line drawn north from Vincennes.

5. Indiana was admitted as a state April 19, 1816, including all the territory of Indiana territory, except a narrow strip east of the line of Vincennes, and west of Michigan territory, her western boundary.

6. Illinois was admitted as a state April 11, 1818. It included all of Illinois territory south of latitude $42^{\circ} 30'$. All of Wisconsin was added to Michigan territory. In the month of October of that year, the counties of Michilimackinac, Brown and Crawford were formed, comprising besides other territory, the whole of the present state of Wisconsin.

7. Iowa district was attached to Michigan for judicial purposes, June 30, 1834, out of which Des Moines and Dubuque counties were formed.

8. Wisconsin territory was formed April 20, 1836. The state was formed May 29, 1848.

The territory of Wisconsin being a part of the Northwest territory claimed, and congress by direct action confirmed to her, all the rights and privileges secured by the ordinance of 1787, one of which was that congress should have authority to form one or two states in that part of the territory lying north of an east and west line, drawn through the southerly bend or extreme of Lake Michigan. Notwithstanding this plain provision of the ordinance, which is declared to

be articles of compact between the original states and the people and states in the said territory, and forever to remain unalterable unless by consent; yet congress, in establishing the boundaries of the state of Illinois, extended that state about sixty miles north of the line established by the ordinance. This action was claimed to be unjust and contrary to the spirit and letter of the compact with the original states. The legislative assembly of Wisconsin passed resolutions which were approved January 13, 1840, that it was inexpedient for the people of the territory to form a constitution and state government until the southern boundary to which they are so justly entitled by the ordinance of 1787 shall be fully recognized by the parties of the original compact. Owing to various complications over which the territory had no control, her people never succeeded in obtaining from congress what they considered their just rights.

It was also contended by many, that the portion of country set off to Michigan on Lake Superior given as a compensation in part for the strip of land awarded to Ohio from her southern border, should also have constituted a portion of Wisconsin, especially as Michigan never made the least claim to it by her delegate in congress, who was decidedly opposed to the extension of Michigan beyond the limits of the lower peninsula.

The first survey of the public lands northwest of the Ohio river, was made pursuant to an act of congress approved May 20, 1785. The geographer of the confederation was directed to commence the survey of the government lands on the north side of the river Ohio—the first line running north and south, to begin on said river at a point that should be found to be due north from the western termination of a line which had been run as the southern boundary of the state of Pennsylvania; the first line running east and west, to begin at the same point, and to extend through the whole territory. The survey comprised seven ranges, composing ten counties of the present state of Ohio. Other surveys followed when the Indian title was extinguished. Thomas Hutchins, who held the office of geographer, is believed to be the inventor of the mode of laying out land which was then introduced by him, and is still in general use by the government.

Soon after the government had acquired title to the Indian lands south of the Wisconsin river, the public authorities commenced a systematic survey of the lands, for the purpose of bringing the same into market at the earliest possible period.

The public lands in Wisconsin are, as elsewhere in the west, surveyed in uniform rectangular tracts, each six miles square, by lines running north and south, intersecting others running east and west. These townships are numbered from two lines called the principal meridian and the base line. The principal meridian by which the Wisconsin surveys are governed is that known as the fourth, and extends from the Illinois boundary line to Lake Superior, at the mouth of Montreal river, about two hundred and eighty-two miles. It divides Grant from LaFayette county, and passes through the eastern parts of Vernon, Monroe, Jackson, Clark, Chippewa, and Ashland counties. The base line separates Wisconsin from Illinois in north latitude forty-two degrees, thirty minutes. There are nearly seventeen hundred townships in the state. Each township is subdivided into thirty-six sections by lines running parallel to the sides of the township, one mile apart. A section is, therefore, one mile square, and contains six hundred and forty acres. In fractional townships, each section is numbered the same as the corresponding section in whole townships. Each section is subdivided into half-mile squares, called quarter-sections, each containing one hundred and sixty acres, and the subdivision is carried still further into half-quarter or quarter-quarter sections. It is found necessary to establish at stated intervals standard parallels, commonly called correction lines, to obviate the effect of the curvature of the earth's surface. The convergence in a single township is small, though quite perceptible, the actual excess in length of its south over its north line being in the state

about three rods. The townships north of the base line, therefore, become narrower toward the north, and if continued for too great a distance, this narrowing would cause serious inconvenience. In the state of Wisconsin there are four of these correction lines. The first is sixty miles north of the base line, and accordingly runs between townships ten and eleven. The second is between townships twenty and twenty-one, and so on. They are usually sixty miles apart. On these parallels, which form new base lines, fresh measurements are made from the principal meridian, and the corners of new townships are fixed six miles apart as on the original base line. This method of procedure not only takes up the error due to convergency of meridians, but arrests that caused by want of precision in the surveys already made.

The northern or western sections of townships, which contain more or less than six hundred and forty acres, are called fractional sections, for the reason that the surplusage or deficiency arising from errors in surveying, and from other causes, is by law added to or deducted from the western or northern ranges of sections according as the error may be in running the lines from east to west, or from north to south.

As soon as the surveys were completed in southern Wisconsin and the Green Bay section, and a knowledge of the superior qualities of the land for agricultural purposes were known to the people, the emigration became large. In fact much land was taken possession of by settlers in advance of being surveyed and brought into market. As soon as the land offices at Green Bay, Mineral Point, and Milwaukee were located, public announcement was made by the government, of the time of the sale, when the lands were put up to the highest bidder, and such as were unsold were afterward subject to private entry. The first sales were held at Green Bay and Mineral Point in the year 1835. The sale at Milwaukee was in 1839. From the reports of the general land office, it appears that from 1835 to 1845 inclusive, there were sold at the three land offices from public sale, 2,958,392 $\frac{4}{10}$ acres, amounting to \$3,768,106.51.

Fort Howard military reservation was set apart by order of the president March 2, 1829, and comprised all the lands lying upon Fox river and Green bay, in township 24 north, range 20 east, 4th principal meridian, being about four thousand acres. The lands were abandoned for military purposes, by the war department, December 4, 1850. By an act of congress approved March 3, 1863, the commissioner of the general land office was authorized and directed to cause the reservation, including the site of the fort, containing three and four-hundredths acres, situated in the county of Brown, between Fox river and Beaver Dam run, and which is not included in the confirmations to T. C. Dousman and Daniel Whitney, nor in the grant to the state of Wisconsin, under resolutions of congress approved April 25, 1862, granting lands to Wisconsin to aid in the construction of railroads, to be surveyed and subdivided into lots not less than one-fourth of an acre, and not more than forty acres, deducting such portions of the same as the public interest and convenience may require; and when so surveyed and platted, to be sold separately at auction. On the 10th of November, 1864, under directions of the commissioner, the lands were offered for sale at auction at the fort. About one-half of the lands were sold, and purchased by actual settlers, and but few for speculation. The fort and the lands contiguous were sold for six thousand four hundred dollars. The other lands sold brought about the sum of nineteen thousand dollars.

That portion of the reservation unsold was to be subject to private entry at the appraised value, and that portion lying between Duck creek and Beaver Dam creek, was subject to entry as other public lands were offered.

On the 20th of May, 1868, a joint resolution of congress was approved, by which the commissioner of the general land office was authorized and directed to cause a patent to be issued to the Chicago & Northwestern railroad company, in pursuance of a resolution passed by con-

gress, granting the same to the state of Wisconsin, approved April 25, 1862, and by act of the legislature approved June 16, 1862, granting the same to that company for eighty acres of land, as was surveyed and approved by said commissioner June 11, 1864. The lands thus donated are now used by the railroad company for their depot grounds.

The Fort Crawford military reservation was purchased from J. H. Lockwood and James D. Doty by the government in the year 1829, and covered the front and main portions of farm lots numbered thirty-three and thirty-four, of the private land claims at Prairie du Chien, and comprised about one hundred and sixty acres. Fort Crawford was built on this tract in 1829, 1830 and 1831. There was also a reservation of section eighteen, township seven, north of range four west, known as the Cattle Yard. This land was at the mouth of the Kickapoo river, and is now known as the village of Wauzeka. In addition to these lands which were located in Wisconsin, there was a reservation of lands lying on the west side of the Mississippi river, in Iowa. The lands in Wisconsin were relinquished by the secretary of war, January 10, 1851, and were originally set apart by the president of the United States, February 17, 1843.

In the month of April, 1857, the secretary of war authorized Hon. H. M. Rice, of Minnesota, to sell that part of the reservation not improved, in tracts not exceeding forty acres each; and, in the month of June of that year, he sold at auction five hundred and seven acres of the reserve opposite Fort Crawford, none of which was claimed by actual settlers; and in the month of December, 1857, he sold the remainder to claimants of lands, also on the west side, and the section in Wisconsin known as the Cattle Yard, amounting to 1771⁶/₁₀₀ acres. A portion of this reservation was subdivided into town lots, 80 by 140 feet, with streets 66 feet and alleys 20 feet wide. November 17, 1864, the acting commissioner of the general land office, by order of the war department, offered for sale at public auction at La Crosse the reservation at Fort Crawford, which had been surveyed and subdivided into town lots, eighty by one hundred and forty feet, with streets sixty-five feet and alleys twenty feet wide, conforming to the plat of the village of Prairie du Chien. The lands unsold were subsequently opened to private entry and disposed of.

The lands of the Fort Winnebago reservation were set apart by order of the president, February 9, 1835, and consisted of the following territory: sections two, three, and that part of four lying east of Fox river, and fractional section nine, all in township twelve, north of range nine east, also fractional section thirty-three, in township thirteen, north of range nine east, lying west of Fox river, and the fraction of section four, township twelve north, of range nine east, lying west of claim numbered twenty-one of A. Grignon, and adjacent to Fort Winnebago, reserved by order of the president, July 29, 1851 the whole amounting to about four thousand acres. September the first, 1853, these lands were by order of the president offered for sale at public auction at the fort, by F. H. Masten, assistant quartermaster United States army, having previously been surveyed into forty acre lots, and were purchased by J. B. Martin, G. C. Tallman, W. H. Wells, Wm. Wier, N. H. Wood, M. R. Keegan, and others.

The first land offices in Wisconsin were established under an act of congress approved June 26, 1834, creating additional land districts in the states of Illinois and Missouri, and in the territory north of the state of Illinois. The first section provides "that all that tract lying north of the state of Illinois, west of Lake Michigan, south and southeast of the Wisconsin and Fox rivers, included in the present territory of Michigan, shall be divided by a north and south line, drawn from the northern boundary of Illinois along the range of township line west of Fort Winnebago to the Wisconsin river, and to be called—the one on the west side, the Wisconsin land district, and that on the east side the Green Bay land district of the territory of Michigan, which two districts shall embrace the country north of said rivers when the Indian title shall be

extinguished, and the Green Bay district may be divided so as to form two districts, when the president shall deem it proper;" and by section three of said act, the president was authorized to appoint a register and receiver for such office, as soon as a sufficient number of townships are surveyed.

An act of congress, approved June 15, 1836, divided the Green Bay land district, as established in 1834, "by a line commencing on the western boundary of said district, and running thence east between townships ten and eleven north, to the line between ranges seventeen and eighteen east, thence north between said ranges of townships to the line between townships twelve and thirteen north, thence east between said townships twelve and thirteen to Lake Michigan; and all the country bounded north by the division line here described, south by the base line, east by Lake Michigan, and west by the division line between ranges eight and nine east," to be constituted a separate district and known as the "Milwaukee land district." It included the present counties of Racine, Kenosha, Rock, Jefferson, Waukesha, Walworth and Milwaukee, and parts of Green, Dane, Washington, Ozaukee, Dodge and Columbia.

An act was approved March 3, 1847, creating an additional land district in the territory. All that portion of the public lands lying north and west of the following boundaries, formed a district to be known as the Chippewa land district: commencing at the Mississippi river on the line between townships twenty-two and twenty-three north, running thence east along said line to the fourth principal meridian, thence north along said meridian line to the line dividing townships twenty-nine and thirty, thence east along such township line to the Wisconsin river, thence up the main channel of said river to the boundary line between the state of Michigan and the territory of Wisconsin. The counties now included in this district are Pepin, Clark, Eau Claire, Dunn, Pierce, St. Croix, Polk, Barron, Burnett, Douglas, Bayfield, Ashland, Taylor, Chippewa, and parts of Buffalo, Trempeleau and Jackson; also, the new county of Price.

An act of congress, approved March 2, 1849, changed the location of the land office in the Chippewa district from the falls of St. Croix to Stillwater, in the county of St. Croix, in the proposed territory of Minnesota; and, by section two of the act, an additional land office and district was created, comprising all the lands in Wisconsin not included in the districts of land subject to sale at Green Bay, Milwaukee, or Mineral Point, which was to be known as the Western land district, and the president was authorized to designate the site where the office should be located. Willow River, now Hudson, was selected. The district was usually known as the St. Croix and Chippewa district, and included St. Croix, La Pointe, and parts of Chippewa and Marathon counties. By an act of congress, approved July 30, 1852, so much of the public lands in Wisconsin as lay within a boundary line commencing at the southwest corner of township fifteen, north of range two east of the fourth principal meridian, thence running due east to the southeast corner of township fifteen, north of range eleven, east of the fourth principal meridian, thence north along such range line to the north line of the state of Wisconsin, thence westwardly along said north line to the line between ranges one and two east of fourth principal meridian, thence south to the place of beginning, were formed into a new district, and known as the Stevens Point land district, and a land office located at that place.

The boundaries enclosed the present counties of Juneau, Adams, Marquette, Green Lake, Waushara, Waupaca, Portage, Wood, Marathon, Lincoln, Snawano, New and Marinette. The La Crosse land district was formed of the following territory: "Commencing at a point where the line between townships ten and eleven north touches the Mississippi river, thence due east to the fourth principal meridian, thence, north to the line between townships fourteen and fifteen north, thence east to the southeast corner of township fifteen north, of range one east of the

fourth principal meridian, thence north on the range line to the south line of township number thirty-one north, thence west on the line between townships number thirty and thirty-one to the Chippewa river, thence down said river to its junction with the Mississippi river, thence down said river to the place of beginning." The present counties of Vernon, La Crosse, Monroe, Buffalo, Trempealeau, Eau Claire, Clark, and parts of Juneau and Chippewa were included in its limits.

By act of congress, approved February 24, 1855, an additional district was formed of all that portion of the Willow river land district lying north of the line dividing townships forty and forty-one, to be called the Fond du Lac district—the office to be located by the president as he might from time to time direct. The present counties of Douglas, Bayfield, Ashland, and part of Burnett were included within its boundaries.

By an act of congress, approved March 3, 1857, so much of the districts of land subject to sale at La Crosse and Hudson, in the state of Wisconsin, contained in the following boundaries, were constituted a new district, to be known as the Chippewa land district: North of the line dividing townships twenty-four and twenty-five north; south of the line dividing townships forty and forty-one north; west of the line dividing ranges one and two east; and east of the line dividing ranges eleven and twelve west. The location of the office was to be designated by the president as the public interest might require. The present counties of Chippewa, Taylor, Eau Claire and Clark were in this district.

There are at the present time six land offices in the state. They are located at Menasha, Falls of St. Croix, Wausau, La Crosse, Bayfield and Eau Claire. By the provisions of law, when the number of acres of land in any one district is reduced to one hundred thousand acres, subject to private entry, the secretary of the interior is required to discontinue the office, and the lands remaining unsold are transferred to the nearest land office, to be there subject to sale. The power of locating these offices rests with the president (unless otherwise directed by law), who is also authorized to change and re-establish the boundaries of land districts whenever, in his opinion, the public service will be subserved thereby.

The pre-emption law of 1830 was intended for the benefit of actual settlers against competition in open market with non-resident purchasers. It gave every person who cultivated any part of a quarter section the previous year, and occupied the tract at the date mentioned, the privilege of securing it by payment of the minimum price at any time before the day fixed for the commencement of the public sale. To avail himself of this provision he was to file proof of cultivation and occupancy. As men frequently located claims in advance of the survey, it occasionally happened that two or more would find themselves upon the same quarter section, in which case the pre-emption law permitted two joint occupants to divide the quarter section equally between them, whereupon each party received a certificate from the land office, authorizing him to locate an additional eighty acres, elsewhere in the same land district, not interfering with other settlers having the right of preference. This was called a *floating right*. This provision of the law was ingeniously perverted from its plain purpose in various ways.

As fast as these evasions came to the notice of the department, all certificates given to occupants of the same quarter section in excess of the two first, or to more than one member of the same family, to employees, to any person who had not paid for eighty acres originally occupied, as well as those which were not located at the time of such payment, and the additional tract paid for before the public sale, were held to be worthless or fraudulent; but a large number of these certificates had been issued, and passed into the hands of speculators and designing men, and were a source of almost endless vexation and annoyance to settlers. The law of 1830

expired by limitation in one year from its passage, but was revived by the law of 1834 for two years. In the interim no settler could obtain his land by pre-emption. The law of 1834 extended only to those who had made cultivation in 1833, consequently the settlers of later date were excluded from its benefits. Meanwhile the fraudulent floats were freely used to dispossess actual settlers as late as 1835.

The pre-emption law of congress, approved September 4, 1841, provided that every person who should make a settlement in person on public land, and erect a dwelling, should be authorized to enter a quarter section (one hundred and sixty acres), at the minimum price (one dollar and twenty-five cents per acre), and thus secure the same against competition; and if any person should settle upon and improve land subject to private entry, he might within thirty days give notice to the register of the land office of his intention to claim the land settled upon, and might within one year upon making proof of his right, enter the land at the minimum price.

At the public land sales at Mineral Point, held in 1835, all those tracts on which lead was found, or on which it was supposed to exist, were reserved to the United States, and were leased under certain regulations by the government for a rent of ten per centum of all the lead raised. The quantity of land thus reserved was estimated at one million acres. Considerable difficulty was found in collecting these rents, and subsequently it was abandoned, as the amount expended in collecting exceeded the value of the lead collected. In the period of four years the government suffered a loss of over nineteen thousand dollars.

The act of congress, approved July 11, 1846, authorized the sale of the reserved mineral lands in Illinois, Wisconsin and Iowa, and provided that, after six months' public notice, the lands should not be subject to the rights of pre-emption until after the same had been offered at public sale, when they should be subject to private entry. The law also provided, that, upon satisfactory proof being made to the register and receiver of the proper land office, any tract or tracts of land containing a mine or mines of lead ore actually discovered and being worked, would be sold in such legal subdivisions as would include lead mines, and no bid should be received therefor at less than the sum of two dollars and fifty cents per acre, and if such tract or tracts should not be sold at such public sale, at such price, nor should be entered at private sale within twelve months thereafter, the same should be subject to sale as other lands. This act was changed by an act approved March 3, 1847, providing that any one being in possession by actual occupancy of a mine discovered prior to the passage of this act, who should pay the same rents as those who held leases from the secretary of war, should be entitled to purchase the lands prior to the day of sale at five dollars per acre. Mineral lands were to be offered for sale in forty acre pieces, and no bids were to be received less than five dollars per acre, and if not sold they were then to be subject to private entry at the same price. In 1847 or 1848 the reserved mineral lands were sold at public sale at Mineral Point at two dollars and fifty cents per acre, and they were all disposed of at that price.

Soon after the formation of Wisconsin territory, an act was passed by its legislature, approved January 5, 1838, incorporating the Milwaukee and Rock river canal company, and by an act of congress approved June 18 of the same year, a grant of land was made to aid in the construction of the canal. The grant consisted of the odd-numbered sections on a belt of ten miles in width from Lake Michigan to Rock river, amounting to 139,190 acres. Of those lands 43,447 acres were sold at public sale in July, 1839, at the minimum price of two dollars and fifty cents per acre. Work was commenced on the canal at Milwaukee, and the Milwaukee river for a short distance from its outlet was improved by the construction of a dam across the river, which was made available for manufacturing and other purposes. A canal was also built about a mile in length and forty feet wide, leading from it down on the west bank of the river. Much

dissatisfaction subsequently arose; the purchasers at this sale, and others occupying these canal and reserved lands felt the injustice of being compelled to pay double price for their lands, and efforts were made to repeal all laws authorizing further sales, and to ask congress to repeal the act making the grant. The legislation on the subject of this grant is voluminous. In 1862 the legislature of the state passed an act to ascertain and settle the liabilities, if any, of Wisconsin and the company, and a board of commissioners was appointed for that purpose. At the session of the legislature in 1863, the committee made a report with a lengthy opinion of the attorney-general of the state. The views of that officer were, that the company had no valid claims for damages against the state. In this opinion the commissioners concurred. On the 23d of March, 1875, an act was approved by the governor, giving authority to the attorney-general to discharge and release of record any mortgage before executed to the late territory of Wisconsin, given to secure the purchase money or any part thereof of any lands granted by congress to aid in the construction of this canal. The quantity of lands unsold was subsequently made a part of the 500,000 acre tract granted by congress for school purposes. It is believed the whole matter is now closed against further legislative enactments.

The next grant of lands made by congress for internal improvements in Wisconsin, was one approved August 8, 1846, entitled "an act to grant a certain quantity of land to aid in the improvement of the Fox and Wisconsin rivers, and to connect the same by canal." By this act there was granted to Wisconsin on her becoming a state, for improving the navigation of the above-named streams, and constructing the canal to unite the same, a quantity of land equal to one-half of three sections in width on each side of Fox river, and the lakes through which it passes from its mouth to the point where the portage canal should enter the same, and each side of the canal from one stream to the other, reserving the alternate sections to the United States with certain provisions in relation thereto. On the 3d of August, 1854, an act of congress was approved, authorizing the governor of Wisconsin to select the balance of lands to which the state was entitled to under the provisions of the act of 1846, out of any unsold government lands subject to private entry in the state, the quantity to be ascertained upon the principles which governed the final adjustment of the grant to the state of Indiana, for the Wabash and Erie canal, approved May 9, 1848. In the years 1854 and 1855, acts of congress were passed, defining and enlarging the grant. Under the grants of 1846, 1854 and 1855, the number of acres donated for this purpose and certified to the state, was 674,100.

After the admission of Wisconsin into the Union, by an act of its legislature, approved August 8, 1848, a board of public works was created, through which the work of improving the said rivers, by the application thereto of the proceeds of the sale of the lands granted by congress, was undertaken by the state.

It soon became apparent that the moneys realized from the sale of lands were insufficient to meet the obligations of the state issued by its board of public works as they became due; and in 1853 the work was turned over to the Fox and Wisconsin Improvement company, a corporation created under an act of the legislature of Wisconsin approved July 6, 1853. In 1856, by an act of the legislature of Wisconsin, approved October 3, 1856, the lands granted by congress then unsold were granted by the state, through the said company, to trustees, with power to sell, and to hold the proceeds in trust for the payment of state indebtedness, the completion of the work, thereafter for the payment of bonds issued by the said company, and the balance, if any, for the company itself.

In February, 1866, the trustees, in execution of the powers contained in the deed made to them, and pursuant to a judgment of the circuit court of Fond du Lac county, sold at public sale at Appleton, Wisconsin, the works of improvement and the balance of lands granted

by congress then unsold, and applied the proceeds to the purposes expressed in the deed of trust. The proceeds were sufficient to pay in full the expenses of the trust, the then outstanding state indebtedness, and to provide a fund sufficient to complete the work according to the plan specified in the act approved October 3, 1856.

Under an act of the legislature of Wisconsin approved April 13, 1861, and the acts amendatory thereof, the purchasers at said sale, on the 15th day of August, 1866, filed their certificate in the office of the secretary of state, and thereby became incorporated as the Green Bay and Mississippi canal company, holding, as such company, the said works of improvement.

At a subsequent date, under instructions from the engineer department of the United States, the surveys of the Fox and Wisconsin rivers were placed in the charge of General G. K. Warren, and by act of congress approved July 7, 1870, the secretary of war was authorized to appoint a board of arbitrators to ascertain how much the government should pay to the successors of the Improvement company, the Green Bay and Mississippi canal company, for the transfer of all its property and rights; and by a subsequent act, approved June 10, 1872, an appropriation was made therefor.

The legislation on matters connected with the Fox and Wisconsin river improvement would make a chapter of itself. The work is now in charge of the government, and will be prosecuted to completion in a satisfactory manner.

On the 29th of May, 1848, an act was approved by the president "to enable the people of Wisconsin territory to form a constitution and state government, and for the admission of such state into the Union," by which certain propositions were to be submitted to the convention which were to be acted upon, and subsequently submitted to the people for their approval. The first constitutional convention was held in October, 1846, and, having framed a constitution, it was submitted to a vote of the people at the election in 1847, and it was rejected. The second convention met December 15, 1847, and, having formed a constitution, it was adopted by the people at the election in 1848. The following are the propositions proposed by congress :

1. That section sixteen numbered in every township of the public lands of said state, and where such section has been sold or otherwise disposed of, other lands equivalent thereto, and as contiguous as may be, shall be granted to the said state for the use of schools.

2. That seventy-two sections, or two entire townships, of land set apart and reserved for the use and support of a university by act of congress approved June 12, 1838, are hereby granted and conveyed to the state, to be appropriated solely to the use and support of such university in such manner as the legislature may prescribe.

3. That ten entire sections of land to be selected and located under the direction of the legislature, in legal subdivisions of not less than one quarter of a section from any of the unappropriated lands belonging to the United States within the state are granted to the state for completing the public buildings, or for the erection of others at the seat of government, under the direction of the legislature.

4. That all salt-springs within the state, not exceeding twelve in number, shall be granted to the state, to be selected by the legislature, and when selected, to be used or disposed of on such terms, conditions, and regulations as the legislature shall direct.

The title to all lands and other property which accrued to the territory of Wisconsin by grant, gift, purchase, forfeiture, escheat, or otherwise, were, by the provisions of the constitution of the state, vested in the state; and the people of the state, in their right of sovereignty, were declared to possess the ultimate property in and to all lands within its jurisdiction; and all lands, the title of which shall fail from a defect of heirs, shall revert or escheat to the people.

The act of congress for the admission of the state into the Union gave formal assent to the

grant relative to the Fox and Wisconsin river improvement, and the lands reserved to the United States by said grant, and also the grant to the territory of Wisconsin, for the purpose of aiding in opening a canal to connect the waters of Lake Michigan with those of Rock river, were to be offered for sale at the same minimum price, and subject to the same rights of pre-emption as other public lands of the United States.

By the provisions of the state constitution, the secretary of state, the state treasurer and attorney-general, were constituted a board of commissioners for the sale of the school and university lands, and for the investment of the funds arising therefrom. In the year 1850 the commissioners put into market, for the first time, the school lands which had been donated to the state. The total quantity of lands offered was 148,021, 44-100 acres, which sold for the sum of \$444,265.19.

By an act of congress, approved September 4, 1841, there were granted to the state 500,000 acres of land, which were, by act of the territorial legislature of 1849, appropriated to the school fund, and the unsold lands of the Milwaukee and Rock river canal company, amounting to about 140,000 acres, were to be included as a part of the above grant. These lands, and the sixteenth section of each township, make up the whole of the school lands of the state. The whole number of acres sold up to the year 1877 is 1,243,984 acres, and there remain unsold, subject to entry, 216,016 acres.

The state university land grant was made in 1838, and seventy-two sections set apart and reserved. The lands were selected in 1845 and 1846. On the 15th of December, 1854, an act of congress was approved, relinquishing to the state the lands reserved for the salt-springs, and seventy-two sections were granted in lieu thereof, in aid of the university of the state. The number of acres amounts to 92,160, all of which have been sold except 4,407 acres, which are subject to entry. Under the re-organization and enlargement of the university, under provisions of chapter 114, of general laws of 1866, section thirteen provides, among other things, that the income of a fund to be derived from the sales of the two hundred and forty thousand acres, granted by congress by act approved July 2, 1862, entitled: "An act donating lands to the several states and territories which may provide colleges for the benefit of agriculture and mechanic arts," be devoted to the state university, and the funds arising therefrom to be known as the "agricultural college fund." All of the grant of lands have been sold except 51,635 acres. The quantity of lands donated by act of congress August 6, 1846, for the purpose of completing or erecting public buildings at the seat of government, known as "Capitol Lands," amounted to ten entire sections, or six thousand four hundred acres. A grant of lands was made to the state by act of congress, approved September 28, 1850, of all the swamp and overflowed lands within its limits. The total number of acres of this grant, as certified to the state from the government, to the year 1877, is 1,869,677.

A grant of land was made by congress, approved March 3, 1863, for the construction of a military road from Fort Wilkins, Michigan, to Fort Howard, Wisconsin, of every alternate section of public lands, designated by even numbers for three sections in width on each side of said road, and subject to the disposal of the legislature. In 1865 sales of land were made to the number of 85,961.89 acres, which realized the sum of \$114,856.54.

An act of congress was approved June 25, 1864, granting lands to the state to build a military road from Wausau, Wisconsin, to Ontonagon, on Lake Superior, of every alternate section of land designated as odd sections, for three sections in width on each side of the road. The grant was accepted by the state by law, approved April 10, 1865.

An act was also passed by congress, approved April 10, 1866, granting to the state of Wisconsin a donation of public lands to aid in the construction of a breakwater and harbor and ship

canal at the head of Sturgeon bay, Wis., to connect the waters of Green bay with Lake Michigan. The grant was for 200,000 acres of land. The grant was accepted by the legislature of 1868. In 1874, the same body by resolution transferred to the Sturgeon bay and Lake Michigan ship canal and harbor company 32,342 acres, and the remaining portion was authorized to be sold for agricultural purposes by said company.

The first railroad grant in Wisconsin was by act of congress, approved June 3, 1856, by the first section of which there was granted to the state, for the purpose of aiding in the construction of a railroad from Madison or Columbus, by the way of Portage City, to the St. Croix river or lake, between townships twenty-five and thirty-one, and from thence to the west end of Lake Superior and to Bayfield; and from Fond du Lac, on Lake Winnebago, northerly to the state line, every alternate section of land designated by odd numbers, for six sections in width on each side of said roads, respectively; the land to be applied exclusively in the construction of said roads, and to no other purpose whatever, and subject to the disposal of the legislature, and the same shall retain public highways for the use of the government, free from toll and other charges upon the transportation of property or troops of the United States, with other conditions as to the disposal of said lands.

The grant was accepted by the legislature by an act approved October 8, 1856, and on the 11th of the same month an act was approved granting a portion of the lands to the La Crosse & Mississippi railroad company, who were to carry out all the requirements of the original grant. A supplementary act was approved the same session, October 13, incorporating the Wisconsin & Superior railroad, which company was required to commence the construction of their road on or before January 1, 1857, and to complete the same to Oshkosh before August 1, 1858. Of this land grant John W. Cary says: "That portion of the grant given to aid in the construction of a railroad northerly to the state line was conferred on the Wisconsin & Superior railroad company. This company was organized in the interest of the Chicago, St. Paul & Fond du Lac railroad company, and that part of the grant was transferred to it. The road was, in 1859, extended to Oshkosh, and thence to Menasha, and finally to Green Bay. In the panic of 1857, the company failed to meet its obligations, but was afterward enabled to go on, and continued in possession until June 2, 1859, when its road was sold on the foreclosures of the mortgages given thereon; and on the sixth of the same month the present Chicago & Northwestern railroad company was organized under the statute, by purchasers at said sale, and took possession."

A large portion of the original grant was given for the construction of a road from Madison or Columbus to the St. Croix river, as before stated. The La Crosse company, during the years 1857 and 1858, completed its main line to La Crosse; the Watertown line, from Watertown to Columbus, and partially graded the line from Madison to Portage City. Neither it nor its successors ever received any part of the lands of the land grant.

In 1856 and 1857, the La Crosse & Milwaukee railroad graded most of the line from Madison to Portage. After the failure of the company, this line was abandoned, and so remained until 1870, when a new company was organized, under the name of the Madison & Portage City railroad company. In 1873, an act was passed chartering the Tomah & Lake St. Croix railroad company, and repealing and annulling that portion of the land grant which bestowed the lands from Tomah to Lake St. Croix upon the La Crosse company, and bestowing the same upon the company chartered by this act. This road is known as the West Wisconsin railroad.

An act of congress was approved May 5, 1864, granting lands to aid in the construction of certain roads in the state. This was a re-enactment of the law of 1856, and divided the grant in three sections, one of which was for a road from a point on the St. Croix river or lake, between

townships twenty-five and thirty-one, to the west end of Lake Superior, and from some point on the line of said road, to be selected by the state, to Bayfield — every alternate section designated by odd numbers, for ten sections in width on each side of said road, with an indemnity extending twenty miles on each side, was granted, under certain regulations; another, for aiding in building a road from Tomah to the St. Croix river, between townships twenty-five and thirty-one — every alternate section by odd numbers, for ten sections in width on each side of the road; another for aiding and constructing a railroad from Portage City, Berlin, Doty's Island, or Fond du Lac, as the legislature may determine, in a northwestern direction, to Bayfield, on Lake Superior, and a grant of every alternate section designated by odd numbers, for ten sections in width on each side of said road, was donated.

The legislature of 1865 failed to agree upon a disposition of the grant. The succeeding legislature conferred the grant partly upon the "Winnebago & Lake Superior Railroad Company," and partly upon the "Portage & Superior Railroad Company," the former April 6, 1866, and the latter April 9, 1866. The two companies were consolidated, under the name of the "Portage, Winnebago & Superior Railroad," by act of the legislature, March 6, 1869, and by act of legislature approved February 4, 1871, the name was changed to the "Wisconsin Central Railroad."

HEALTH OF WISCONSIN.

By JOSEPH HOBBS, M.D.

An article on state health, necessarily embracing the etiology, or causes of disease, involves the discussion of the geographical position of the state; its area, physical features; its elevations, depressions; water supply; drainage; its mean level above the sea; its geology; climatology; the nationality of its people; their occupations, habits, food, education; and, indeed, of all the physical, moral and mental influences which affect the public health.

GEOGRAPHICAL POSITION.

The geographical position of Wisconsin, considered in relation to health, conveys an immediate and favorable impression, which is at once confirmed by a reference to the statistical atlas of the United States. On its north it is bounded by Lake Superior, Minnesota, and the northern peninsula of Michigan; on the south by Illinois; on the east by Lake Michigan, and on the west by the Mississippi. It lies between $42^{\circ} 30'$ and $46^{\circ} 55'$ N. latitude, and between 87° and $92^{\circ} 50'$ W. long.; is 285 miles long from north to south, and 255 in breadth from east to west, giving it an area of some 53,924 square miles, or 34,511,360 acres. Its natural surface divisions, or proportions, are 16 per cent. of prairie, 50 of timber, 19 of openings, 15 of marsh, mineral undefined. North of 45° the surface is nearly covered with vast forests of pine. The proportion of the state cultivated is nearly one-sixth.

PHYSICAL FEATURES.

Among these, its lacustrine character is most conspicuous, so much so that it may not inaptly be called the state of a thousand lakes, its smaller ones being almost universal and innumerable.

It has an almost artificially perfect arrangement of its larger rivers, both for supply and drainage, is rolling in its surface, having several dividing ridges or water sheds, and varies from 600 to 1,600 feet above the level of the sea, Blue Mounds being 1,729 feet above sea level. Its pine and thickly wooded lands are being rapidly denuded, and to some extent converted to agricultural purposes; its marshes in the north are being reclaimed for cranberry cultivation, and in the more thickly settled parts of the state for hay purposes. The surface of the state is beautifully diversified with stream, waterfall and rapids; richly wooded bluffs several hundred feet in height, assuming the most romantic and pleasing forms, and composed of sandstone, magnesian limestone, granite, trap, etc. The health and summer resorts of Wisconsin are illustrative of its beauty, and its numerous mineral springs have long since formed an important feature of its character for salubrity.

GEOLOGY.

The geology of Wisconsin does not require from us but a very general notice, as it is only from its relation to disease that we have to consider it. This relation is in a measure apparent in the fact that everywhere the topographical features are governed by the strata below them. The relationship will be seen still further in the chemical or sanitary influence of the geological structures. Through the greater part of the south half of the state limestone is found, the cliff prevailing in the mineral region, and the blue in the other parts; while in the north part of the state the primitive rocks, granite, slate, and sandstone prevail. South of the Wisconsin river sandstone in layers of limestone, forming the most picturesque bluffs, abounds. While west of Lake Michigan extends up to these rocks the limestone formation, being rich in timber or prairie land. Sandstone is found underneath the blue limestone. The general dip of the stratified rocks of the state is toward the south, about 8 feet to the mile.

Medical geology treats of geology so far only as it affects health. Thus, some diluvial soils and sands are known to be productive of malarial fevers; others, of a clayey character, retaining water, are productive of cold damp, and give rise to pulmonary and inflammatory diseases; while others still, being very porous, are promotive of a dry and equable atmosphere. In the Potsdam rocks arise our purest waters and best supply, while our magnesian limestone rocks (a good quality of this kind of rock being composed of nearly equal parts of carbonate of lime and carbonate of magnesia) affect the water to the extent of producing simple diarrhoea in those unaccustomed to drinking it, as is observed in southern visitors, and was especially noticeable in the rebel prisoners at Camp Randall, though singularly enough do not seem to produce stone and gravel, as is alleged of the same kind of water in the north of England. Why this is so—if so—is a question of some interest. Goitre and cretinism are both attributed to the use of the same magnesian limestone water. Goitre is by no means an uncommon affection here, but not common enough, perhaps, to warrant us in thinking its special cause is in the water. Boiling the water is a preventive of all injurious effects. There is still another objection—particularly applicable to cities—to this kind of water, the carbonates of lime and magnesia which it contains, not simply making it hard, but giving it the power to promote the decomposition of organic matters, and thus where the soil is sandy or porous, endangering the purity of our well-water. Geology in general affects all our soils and their products; all our drainage; even our architecture, the material with which we build. Our building stone for half of the state is a magnesian limestone, a rather soft or poor quality of which will absorb one-third of its bulk of water, or two and a half gallons to the cubic foot, while most kinds of sandstone are nearly as porous as loose sand, and in some of them the penetrability for air and water is the same. (A single brick of poor quality will absorb a pint of water). Such materials used in the construction

of our dwellings, without precautionary measures, give rise to rheumatism, other grave diseases, and loss of strength. Besides, this character of stone absorbs readily all kinds of liquid and gaseous impurities, and though hardening in dry air, decays soon when exposed to underground moisture. The material of which our roads are made, as well as the kind of fuel we use in our homes, have the same unquestionable relationship to geology and disease.

DRAINAGE.

The natural drainage of the state, bearing in mind that the mean elevation of its hydrographical axis is about 1,000 feet above the sea level, is as excellent as it is obvious. (A line running from Lake Michigan across the state to the Mississippi, shows an elevation of about 500 feet). North its drainage is by a few rapid but insignificant streams into Lake Superior, while east it increases greatly and enters Lake Michigan by way of Green bay. The principal part of the supply and drainage, however, is from the extreme north to the southwest through the center of the state, by five large rivers, which empty themselves into the Mississippi at almost equal distances from each other.

CLIMATOLOGY.

The climatology of Wisconsin will be exhibited in the observations taken at different times, for longer or shorter periods, and at different points of the state. But it must be borne in mind that climate depends quite as much and very frequently more upon the physical surroundings, upon the presence of large bodies of water, like our lakes, upon large forests, like our pineries, like our heavy hard-woods, and of land elevations and depressions, upon isothermal lines, etc., as it does upon latitude. Our historic period is of a character too brief for us to assume to speak of our climate, or of all the changing causes which influence it—in a positive manner, our horticultural writers, to make the difficulty still greater, affirming that it has *several climates within itself*; still, sufficient data have been gathered from sufficiently reliable sources to enable us to form a tolerably accurate idea of the subject.

The great modifiers of our climate are our lakes. These, bounding as they do, the one, Lake Superior (600 feet above the level of the sea, 420 miles long and 160 broad), on the north side of the state, and the other, Lake Michigan (578 feet above the sea level, 320 miles long and 84 broad), on the east side of the state, serve to govern the range of the thermometer and the mean temperature of the seasons, as much as they are governed in New England by the ocean. Our climate is consequently very much like that of the New England sea-board. They both exhibit the same extremes and great extremes, have the same broadly marked continental features at some seasons, and decided tropical features at others. It is of special interest in this connection to know that the climate between the eastern coast and the lakes increases in rigor as one advances west until the lakes are reached, and again becomes still more rigorous as one advances into the interior west of the lakes, thus affording proof, if proof were wanting, of the modifying and agreeable influences of large bodies of water.

During the winter the mean temperature of the east on the New England coast is 8.38 higher than the west (beyond the lakes); during the spring 3.53 lower; during the summer 6.99 lower; and during the autumn 1.54 higher. In the mean temperature for the year there is but a fractional difference. That the winters are less rigorous and the summers more temperate on the Great Lakes is demonstrated to be owing not to elevation, but, as on the ocean, to the equalizing agency of an expanse of water.

On the lakes the annual ratio of fair days is 117, and on the New England coast 215; the

cloudy days are as 127 to 73; the rainy as 63 to 46, and the snowy as 45 to 29. In the former the prevailing weather is cloudy, and in the latter it is fair. The immense forests on the upper lake shores of course exercise a considerable influence in the modification of our temperature, as well as in the adding to our rain-fall and cloudy days. A climate of this character, with its attendant rains, gives us that with which we are so abundantly supplied, great variety of food, both for man and beast, the choicest kinds of fruits and vegetables in the greatest profusion, and of the best quality, streams alive with fish, woods and prairies with game, the noblest trees, the most exquisite flowers, and the best breeds of domestic animals the world can boast of.

The semi-tropical character of our summer, and its resemblance to that of New England, is shown by the mean temperature — 70° — for three months at Salem, Massachusetts, at Albany, New York, at southern Wisconsin, Fort Snelling and Fort Benton on the Upper Missouri, being the same; while at Baltimore, Cincinnati and St. Louis, it is 75° , and around the gulf of Mexico it is 80° . Another feature of our climate is worthy the notice of invalids and of those who make the thermometer their guide for comfort. It is a well-ascertained fact that during the colder seasons the lake country is not only relatively, but positively, warmer than places far south of it. The thermometer, during the severe cold of January, 1856, did not fall so low at the coldest, by 10° to 15° at Lake Superior as at Chicago at the same time. This remark holds true of the changes of all periods of duration, even if continued over a month. The mean temperature at Fort Howard, Green Bay, Wisconsin, 600 feet above the level of the Atlantic, latitude $44^{\circ} 40'$, longitude 87° , observations for nine years, is 44.93; and at Fort Crawford, Prairie du Chien, Wisconsin, 580 feet above the level of the Atlantic, latitude $43^{\circ} 3'$, longitude $90^{\circ} 53'$, observations for four years, is 45.65, giving a just idea of our mean temperature for the state. Under the head of distribution of heat in winter, it is found that the maximum winter range at Fort Winnebago, Wisconsin, for sixteen years, is 9.4.

HYETAL OR RAIN CHARACTER.

Wisconsin is situated within what is termed the *area of constant precipitation*, neither affected by a rainy season, nor by a partial dry season. The annual quantity of rain on an average for three years at Fort Crawford, was 29.54 inches, and at Fort Howard the mean annual on an average of four years, was 38.83 inches. The annual quantity of rain, on an average of three years was 31.88 inches at Fort Winnebago, situate (opposite the portage between the Fox and Wisconsin rivers) 80 miles west of Lake Michigan and 112 miles southwest of Green Bay. The rain-fall is less in the lake district than in the valley of the Mississippi in the same latitudes. One of the peculiarities of our winters is the almost periodical rain-fall of a few days in the middle of the winter (usually in the middle of January), which extends to the Atlantic coast, while north and northwest of us the dry cold continues without a break, winter being uniform and severe, characterized by aridity and steady low temperature. Another peculiarity of our climate is, the number of snowy and rainy days is increased disproportionately to the actual quantity — the large bodies of water on the boundaries of the state, contrary to the popular opinion, reducing the annual quantity of rain in their immediate vicinity instead of adding to it, the heavier precipitation being carried further away. One of the most pleasing features of our climate is its frequent succession of showers in summer, tempering as it does our semi-tropical heat, increasing the fertility of the soil, and carpeting our prairies with a green as grateful to the eye as that of England.

The hygrometric condition of Wisconsin may be judged of with proximate accuracy by that given of Poultney, Iowa:

Day.	Temperature of Air.	Temperature of Evaporat'n	Humidity, per cent.	Day.	Temperature of Air.	Temperature of Evaporat'n	Humidity, per cent.
10th.....	92°	78°	51	19th.....	94°	81°	55
11.....	87	75	55	20.....	97	81	48
12.....	92	77	48	21.....	96	80	47
13.....	96	81	50	29.....	81	72	65
14.....	93	78	44	30.....	84	71	50

The average depth of snow for three years, at Beloit, Wisconsin, was twenty-five inches, while at Oxford county, Maine, the average for twelve years was ninety inches. The isohyetal lines of the mean precipitation of rain and melted snow, for the year 1872, show that of Wisconsin to be thirty-two.

ISOTHERMS.

The mean temperature of spring is represented by the isotherm of 45° F. which enters Wisconsin from the west about forty miles south of Hudson, passing in a nearly southeast direction, and crosses the south line of the state near the west line of Walworth county. It then passes nearly around the head of Lake Michigan, then northeast until it reaches the latitude of Milwaukee, whence it passes in a somewhat irregular course east through Ontario, New York, and Massachusetts, entering the ocean in the vicinity of Boston. The summer mean isotherm of 70° F. enters Wisconsin from the west but little farther north than the spring isotherm, and passes through the state nearly parallel with the course of that line, crossing the southern boundary near the east line of Walworth county; passing through Chicago it goes in a direction a little south of east, and enters the Atlantic at New Haven. The mean isotherm of 47° F. for autumn, enters the state about twenty miles north of Prairie du Chien, passing in a direction a little north of east through Portage, and enters Lake Michigan near Manitowoc. The isotherm of 20° F. representing the mean temperature of winter, enters the state near Prairie du Chien, passes east and north and enters Lake Michigan at Sturgeon bay. The annual mean temperature is represented by the isotherm of 45° F. which enters the state near Prairie du Chien, passes across the state in a direction a little south of east, and enters Lake Michigan a little south of Milwaukee.

What influence these isotherms have upon our belts of disease there are no data to show. But from their influence upon vegetable life, one can not but infer a similar good influence on the animal economy. This is a question for the future.

BAROMETRICAL.

Yearly mean of barometer at 32° F. as observed at the University of Wisconsin, altitude 1,088 feet above the sea:

1869.....	28.932 inches.	1873.....	28.892 inches.
1870.....	28.867 "	1874.....	28.867 "
1871.....	28.986 "	1875.....	28.750 "
1872.....	28.898 "	1876.....	28.920 "

Atmospheric pressure, as indicated by the barometer, is an important element in the causation of disease, far more so than is generally thought. The barometer indicates not only the coming of the storm, but that state of the atmosphere which gives rise to health at one time, and to disease at another. When the barometer is high, both the body and mind have a feeling of elasticity, of vigor and activity, and when the barometer ranges low, the feelings of both are just the reverse; and both of these states, commonly attributed to temperature, are mostly the result of change in the barometric pressure. Many inflammations, as of the lungs, etc., commonly

attributed to change in the temperature, have their origin in barometrical vicissitudes.

WINDS.

Generally speaking, the atmospheric movement is from the west. It is of little purpose what the surface wind may be, as this does not affect the fact of the *constancy* of the *westerly winds* in the middle latitudes. The showers and cumulus clouds of the summer always have this movement. The belt of westerly winds is the belt of constant and equally distributed rains, the feature of our winds upon which so much of our health and comfort depends.

CLIMATOLOGICAL CHANGES FROM SETTLING THE STATE.

There are many theories afloat concerning the effects of reclaiming the soil and the destruction of its forests. To us, a new people and a new state, the question is one of great moment, the more so that it is still in our power not only to watch the effects of such changes, but still more so to control them in a measure for our good. As to the effects upon animal and vegetable life, it would appear that so far as relates to the clearing away of forests, the whole change of conditions is limited to the surface, and dependent for the most part on the retention and slow evaporation in the forest, in contrast with the rapid drainage and evaporation in the open space. The springs, diminishing in number and volume in our more settled parts of the state, do not indicate a lessening rain-fall. It is a well ascertained fact that in other places so denuded, which have been allowed to cover themselves again with forests, the springs reappear, and the streams are as full as before such denudation. With us, happily, while the destruction of forests is going on in various parts of the state, their *second growth* is also going on, both in the pinceries, where new varieties of hard-wood take the place of the pine, and in the more cultivated parts of the state, cultivation forbidding, as it does, the practice so much in vogue some years ago, of running fires through the undergrowth. Thus, though the renewal of forests may not be keeping pace with their destruction, it would seem clear that as time advances, the springs and streams in the more cultivated sections of the state will fill and flow again, increasing in proportion as the second growth increases and expands.

The change, however, from denudation, though strictly limited to the surface, affects the surface in other ways than simply in the retention and evaporation of rain. When the winter winds are blowing, the want of the sheltering protection of belts of trees is bitterly felt, both by man and beast. And so, too, in the almost tropical heats of the summer; both languish and suffer from the want of shade. Nor is the effect of denudation less sensibly felt by vegetable life. The growing of our more delicate fruits, like the peach, the plum, the pear, the better varieties of the cherry and gooseberry, with the beautiful half-hardy flowering shrubs, all of which flourished so well in a number of our older counties some twenty years ago, are as a rule no longer to be found in those localities, having died out, as is believed, from exposure to the cold winds, to the south west winds in particular, and for want of the protecting influence of the woods. In fruits, however, we have this compensation, that, while the more tender varieties have been disappearing, the hardier and equally good varieties, especially of apples, have been increasing, while the grape (than which nothing speaks better for climatology), of which we grow some 150 varieties, the strawberry, the raspberry, blackberry and currant, etc., hold their ground. Nor are the cattle suffering as much as formerly, or as much as is perhaps popularly believed, from this want of forests or tree shelter. With the better breeds which our farmers have been able of late years to purchase, with better blood and better food, and better care, our stock instead of dwindling in condition, or in number, from the effect of cold, has progressed in quality and quantity, and competes with the best in the Chicago and the New York markets.

There can, however, be no doubt that the planting of groves and belts of trees in exposed localities, would be serviceable in many ways; in tempering the air and imparting to it an agreeable moisture in the summer; in modifying the severity of the cold in winter; in moderating the extreme changes to which our climate is subject; and thus in a measure preventing those discomforts and diseases which occur from sudden changes of temperature. Besides, these plantings, when made between our homes or villages and malarial marshes *southwest* of us, serve (by the aid of our prevailing southwest winds) to break up, to send over and above and beyond us the malarial substratum of air to which we are otherwise injuriously exposed.

The effects of reclaiming the soil, or "breaking" as it is called in the west, have, years ago, when the state first began to be settled, been disastrous to health and to life. The moist sod being turned over in hot weather, and left to undergo through the summer a putrifying fermentative process, gave rise to the worst kind of malarial, typhoid (bilious) and dysenteric disease. Not, however, that the virulence or mortality altogether depended upon the soil emanations. These were undoubtedly aggravated by the absolute poverty of the early settlers, who were wanting in everything, in proper homes, proper food and proper medical attendance, medicines and nursing. These fevers have swept the state years ago, particularly in the autumns of 1844 and 1845, but are now only observed from time to time in limited localities, following in the autumn the summer's "breaking." But it is pleasing to be able to add that through the advancing prosperity of the state, the greater abundance of the necessaries and comforts of life, and the facilities for obtaining medical care, the diseases incident to "settling" are much less common and much less fatal than formerly.

RELATIONS OF CLIMATOLOGY TO SANITARY STATUS.

One of the principal reasons for gathering climatological observations, is to obtain sanitary information, which serves to show us where man may live with the greatest safety to his health. Every country, we might perhaps correctly say every state, has, if not its peculiar diseases, at least its peculiar type of diseases. And by nothing is either this type or variety of disease so much influenced as by climate. Hence the great importance of the study of climatology to health and disease, nay, even to the kind of medicine and to the regulating of the dose to be given. It is, however, best to caution the reader that these meteorological observations are not always made at points where they would most accurately show the salubrity of a geographical district, by reason of the fact that the positions were chosen not for this special purpose, but for purely military purposes. We allude to the forts of Wisconsin, from which our statistics for the most part come. Another caution it is also well to bear in mind in looking over the class of diseases reported at these stations in connection with their observations. The diseases are those of the military of the period, a class from which no very favorable health reports could be expected, considering their habits, exposure, and the influences incidental to frontier life.

The geography of disease and climate is of special interest to the public, and a knowledge especially necessary to the state authorities, as it is only by such a knowledge that state legislation can possibly restrain or root out the endemic diseases of the state. In connection with the gathering of vital statistics must go the collection of meteorological and topographical statistics, as without these two latter the former is comparatively useless for sanitary purposes. More particularly does this apply to the malarial diseases of the state.

Acclimation is very rarely discussed or even alluded to by our people in relation to Wisconsin, for the reason that, come from whatever part of Europe men may, or from the eastern states, acclimation is acquired for the most part unconsciously, rarely attended by any malarial affection, unless by exposure in such low, moist localities, where even the natives of the state could not

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live with impunity. It seems to be well enough established that where malaria exists, whether in London, New York, or Wisconsin; where the causes of malarial disease are permanent, the effects are permanent, and that there is no positive acclimation to malaria. Hence it should follow that since life and malaria are irreconcilable, we should root out the enemy, as we readily can by drainage and cultivation, or, where drainage is impossible, by the planting of those shrubs or trees which are found to thrive best, and thereby prove the best evaporators in such localities. Our climate, approximating as it does the 45th degree (being equi-distant from the equator and pole), would *a priori* be a common ground of compromise and safety, and from this geographical position is not liable to objections existing either north or south of us.

INFLUENCE OF NATIONALITIES.

Our population is of such a confessedly heterogeneous character that naturally enough it suggests the question: Has this intermingling of different nationalities sensibly affected our health conditions? Certainly not, so far as intermarriages between the nations of the Caucasian race are concerned. This opinion is given first upon the fact that our classes of diseases have neither changed nor increased in their intensity by reason of such admixture, so far as can be learned by the statistics or the history of disease in the northwest. Imported cases of disease are of course excepted. Second, because all that we can gather from statistics and history concerning such intermingling of blood goes to prove that it is beneficial in every respect, physically, mentally and morally.

England, of all nations, is said to be the best illustration of the good attending an intermingling of the blood of different nations, for the reason that the English character is supposed to be, comparatively speaking, good, and that of all countries she has been perhaps more frequently invaded, and to a greater or less part settled by foreign peoples than any other.

From a residence of nearly a quarter of a century in the center of Wisconsin, and from an adequate knowledge of its people, whose nationalities are so various and whose intermarriages are so common, it is at least presumable that we should have heard of or noted any peculiar or injurious results, had any such occurred. None such, however, have been observed. Some fears have been expressed concerning the influence of Celtic blood upon the American temperament, already too nervous, as is alleged. It is scarcely necessary to say that these fears are unsupported by figures or facts. Reasoning from analogy, it would seem safe to affirm that the general intermingling by intermarriage now going on in our population, confined to the Caucasian nationalities, will tend to preserve the good old Anglo-Saxon character, rather than to create any new character for our people. If this view needed support or confirmation, it is to be found in some very interesting truths in relation to it. Mr. Edwin Seguin, in his work on Idiocy, lays special stress on the influences of races in regard to idiocy and other infirmities, like deafness. He says that the crossing of races, which contributed to the elimination of some vices of the blood (as was the case in the United States, where there are proportionally less deaf and dumb than in Europe), produces a favorable effect on the health of the population, and cites as an example, Belgium, which has fewer deaf and dumb than any country in Europe, owing to the influence of the crossing of races in past ages from the crowds of northern tribes passing, mingling and partly settling there on the way to England.

We are aware that it has been predicted that our future will give us a *new type*, distinct from all other peoples, and that with this type must come not only new diseases but modifications or aggravations of the present diseases, in particular, consumption and insanity. But so long as we are in a formative state as a nation, and that this state seems likely to continue so long as the country has lands to be occupied and there are people in Europe to occupy them, such speculations can be but of little value.

OCCUPATIONS, FOOD, EDUCATION, ETC., AS AFFECTING PUBLIC HEALTH.

The two chief factors of the social and sanitary well-being of a people are a proper education of the man and a proper cultivation of the soil. Our two principal occupations in Wisconsin are education and agriculture, the learners in the schools being in excess of the laborers on the soil. A happier combination could scarcely be desired, to form an intelligent and a healthy people. How this will affect our habits in the future it is easy to conceive, but for the present it may be said (of so many different nationalities are we composed), that we have no habits which serve to distinguish us from the people of other northwestern states. A well-fed and a well-taught people, no matter how mixed its origin, must sooner or later become homogeneous and a maker of customs. In the mean time we can only speak of our habits as those of a people in general having an abundance of food, though it is to be wished the workers ate more beef and mutton, and less salt-pork, and that whisky was less plentiful in the land. The clothing is sufficient, fuel is cheap, and the dwellings comfortable. Upon the whole, the habits of the people are conducive to health. It is thought unnecessary to refer to the influence upon health in general of other occupations, for the reason that manufacturers, traders and transporters are for the most part localized, and perhaps not sufficiently numerous to exercise any marked influence on the state health.

HISTORY OF DISEASE.

In searching for historical data of disease in Wisconsin, we are able to go back to the year 1766, commencing with the aborigines. The Indians, says Carver, in his chapter on their diseases, in general are healthy and subject to few diseases. Consumption from fatigue and exposure he notices, but adds that the disorder to which they are most subject is pleurisy. They are likewise afflicted with dropsy and paralytic complaints. It is to be presumed that while Carver is speaking generally, he means his remarks to apply, perhaps, more particularly to those Indians with whom he lived so long, the Sioux of this state. That they were subject to fevers is gathered from the use of their remedies for fever, the "fever bush" being an ancient Indian remedy, and equally valued by the inhabitants of the interior parts of the colonies. Besides this, they had their remedies for complaints of the bowels, and for all inflammatory complaints. These notices sufficiently indicate the class of diseases which have certainly followed in the wake of the Indians, and are still occurring to his white brother, making it plain enough that lung diseases, bowel complaints, and fevers are in fact native to the state. The fact must not be ignored that the Indian is subject to the same diseases as the human race in general.

After Carver, we may quote Major Long's expedition in 1824. The principal disease of the Sacs appears to be a mortification of the intestinal canal, more common among men than women, the disease proving fatal in four days if not relieved. It is unaccompanied with pain, and is neither hernia, dysentery, nor hemorrhoids. Intermitents were prevalent, and the small-pox visited them at different periods. As the Chippewas have a common Algonquin origin with the Sacs, and as their home and customs were the same, it may be expected that their diseases were similar. The principal disease to which the Chippewas are liable is consumption of the lungs, generally affecting them between the ages of 30 and 40; they linger along for a year or two, but always fall victims to it. Many of them die of a bowel complaint which prevails every year. This disease does not partake, however, of the nature of dysentery. They are frequently affected with sore eyes. Blindness is not common. Many of them become deaf at an early age.

Referring to the report of the commissioner of Indian affairs for 1854, we find that the decrease in the number of the Menomonees is accounted for by the ravages of small-pox, in 1838,

of the cholera, in 1847 (which latter was superinduced by misery and starvation), and by the fever, which from time to time, commonly in the winter, has been raging among them, being clearly the consequence of want of provisions and other necessaries. The report for 1850 says, there has been considerable sickness among the Winnebagoes for several months past; dysentery has been the prevalent disease, confined mostly to children. For 1857: the Winnebagoes have suffered considerably from chronic diseases, scrofula and consumption. For 1859: the chief malady among the Winnebagoes is phthisis pulmonalis and its analogous diseases, having its source in hereditary origin. Some of the malignant diseases are occasionally met with among them, and intermittent and remittent fevers. In 1863: of the Menomonees, there is a large mortality list of the tribes under my charge. Measles and some of the more common eruptive diseases are the causes. But the most common and most fatal disease which affects the Indians at this agency is pneumonia, generally of an acute character. There is but little tubercular disease to be found in any of these tribes, Menomonees, Stockbridges, Oneidas, etc. In the report for 1865, one can not but notice with some regret the absence of all allusion, except to small-pox, to the diseases of the Indians. Regret, because reliable information of such diseases serves a variety of valuable purposes, for comparison, confirmation, etc., of those of the white population. For these reasons, if for none other, it is to be hoped that the attention of the proper authorities will be called to this feature of such reports.

The first reliable report on the diseases of the people (as distinguished from the Indians) of Wisconsin to which we have had access, is Lawson's Army Report of Registered Diseases, for 10 years, commencing 1829, and ending 1838 (ten years before the admission of Wisconsin into the Union as a state).

FORT HOWARD, GREEN BAY.

Intermittent fever.....	30	This abstract exhibits the second quarters only, the mean strength being 1,702.
Remittent do	11	
Synochal do	4	All other diseases 114, excepting venereal diseases, abscesses, wounds, ulcers, injuries, and ebriety cases.
Typhus do .....	.....
Diseases of respiratory organs.....	101	
Diseases of digestive organs.....	184	
Diseases of brain and nervous system...	9	
Dropsies	1	
Rheumatic affections.....	61	

Under the class of diseases of the respiratory organs, are comprised 384 catarrh, 6 pneumonia, 60 pleuritis, and 28 phthisis pulmonalis; under the class of digestive organs, 376 diarrhoea and dysentery, 184 colic and cholera, and 10 hepatitis; under the class of diseases of the brain and nervous system, 15 epilepsy, etc. The deaths from all causes, according to the post returns, are 25, being $1\frac{1}{2}$ per cent. per annum. The annual rate of intermittent cases is 6, and that of remittent is 3, per 100 of mean strength.

TABLE OF RATIO OF SICKNESS AT FORT HOWARD.

SEASONS.	MEAN STRENGTH.	NUMBER TREATED.	RATE PER 1,000 OF MEAN STRENGTH TREATED QUARTEELY.
10 first quarters.....	1,764	715	405
10 second "	1,702	726	425
9 third "	1,326	1,073	793
10 fourth "	1,594	636	399
Annual rate.....	1,647	3,150	1,913

Every man has consequently, on an average, been reported sick about once in every six months, showing this region to be extraordinarily salubrious. The annual ratio of mortality, according to the medical reports, is $\frac{1}{10}$ per cent.; and of the adjutant-general's returns, $\frac{1}{16}$ per cent.

FORT WINNEBAGO.

Intermittent fever.....	21
Remittent fever.....	10
Synochal fever.....	1
Typhus fever.....	—
Diseases of the respiratory organs.....	141
Diseases of digestive organs.....	90
Diseases of brain and nervous system..	2
Rheumatic affections.....	26

This abstract exhibits the fourth quarters only, the mean strength being 1,571.

All other diseases, 80, with the exceptions as above.

Under the class of diseases of the respiratory organs are comprised 448 catarrh, 11 pneumonia, 29 pleuritis and 10 phthisis pulmonalis; under the head of digestive organs, 193 diarrhoea and dysentery, 149 colic and cholera, and 17 hepatitis; under the class of brain and nervous system, 1 epilepsy. The total number of deaths, according to the post returns, is 20. Of these, 3 are from phthisis pulmonalis, 1 pleuritis, 2 chronic hepatitis, 1 gastric enteritis, 1 splenitis, etc.

TABLE OF RATIO OF SICKNESS AT FORT WINNEBAGO.

SEASONS.	MEAN STRENGTH.	NUMBER TREATED.	RATIO PER 1,000 OF MEAN STRENGTH TREATED QUARTERLY.
10 first quarters.....	1,535	552	360
10 second ".....	1,505	517	343
10 third ".....	1,527	581	350
10 fourth ".....	1,571	495	315
Annual ratio.....	1,534	2,145	1,398

Every man on an average is consequently reported sick once in eight months and a half.

FORT CRAWFORD.

Intermittent fever.....	262
Remittent fever.....	61
Synochal fever.....	—
Typhus fever.....	—
Diseases of re-piratory organs.....	177
Diseases of digestive organs.....	722
Diseases of brain and nervous system..	16
Rheumatic affections.....	58

This abstract exhibits the third quarters only, the mean strength being 1,885.

All other diseases, 309, with the same list of exceptions as above.

Under the class of diseases of the respiratory organs are included 1,048 of catarrh, 28 pneumonia, 75 pleuritis and 13 phthisis pulmonalis; under the head of digestive organs, 933 diarrhoea and dysentery, and 195 colic and cholera; under the head of brain and nervous diseases, 7 epilepsy, etc. The total of deaths, according to the post returns, is 94, the annual ratio being $\frac{2}{15}$ per cent. The causes of death are: 6 phthisis pulmonalis, 6 epidemic cholera, 1 common cholera, 4 remittent fever, 3 dysentery, etc. In the third quarter of 1830 there were 154 cases of fever, while the same quarter of 1836, with a greater strength, affords but one case, the difference seeming to depend upon the temperature.

The relative agency of the seasons in the production of disease in general is shown in the annexed table :

TABLE EXHIBITING THE RATIO OF SICKNESS.

SEASONS.	MEAN STRENGTH.	NUMBER TREATED.	RATIO PER 1,000 OF MEAN STRENGTH TREATED QUARTERLY.
9 first quarters.....	1,660	987	595
10 second ".....	1,749	1,267	724
10 third ".....	1,885	1,948	1,033
10 fourth ".....	1,878	1,270	676
Annual ratio.....	1,793	5,472	3,052

Consequently every man on an average has been reported sick once in nearly every four months. But high as this ratio of sickness is, at this fort, and, indeed, at the others, it is low considering the topographical surroundings of the posts. But besides these injurious topographical and other influences already alluded to, there were still other elements of mischief among the men at these stations, such as "bad bread and bad whisky," and salt meat, a dietary table giving rise, if not to "land-scurvy," as was the case at the posts lower down in the Mississippi valley (more fatal than either small-pox or cholera), at least to its concomitant diseases.

The reason for using these early data of the United States Army medical reports in preference to later ones is, that even though the later ones may be somewhat more correct in certain particulars, the former serve to establish, as it were, a connecting link (though a long one) between the historical sketch of the diseases of the Indian and those of the white settler; and again—these posts being no longer occupied—no further data are obtainable.

To continue this historical account of the diseases of Wisconsin, we must now have recourse to the state institutions.

THE INSTITUTION FOR THE EDUCATION OF THE BLIND.

The first charitable institution established by the state was formally opened in 1850, at Janesville. The census of 1875 showed that there were 493 blind persons in the state, those of school age—that is—under 20 years of age, probably amounting to 125. The number of pupils in the institution that year, 82; the average for the past ten years being 68. If the health report of the institution is any indication of the salubrity of its location, then, indeed, is Janesville in this respect an enviable city. Its report for 1876 gives one death from consumption, and a number of cases of whooping-cough, all recovered. In 1875, ten cases of mild scarlet fever, recovered. One severe and two mild cases of typhoid fever, recovered. For 1873, no sick list. For 1872, the mumps went through the school. For 1871, health of the school reasonably good; few cases of severe illness have occurred.

THE INSTITUTE FOR THE DEAF AND DUMB.

This was organized in June, 1852, at Delavan. The whole number of deaf and dumb persons in the state, as shown by the census of 1875, was 720. The report for 1866 gives the number of pupils as 156.

Little sickness, a few cases of sore throat, and slight bowel affections comprise nearly all the ailments; and the physician's report adds: "The sanitary reports of the institution from its earliest history to the present date has been a guarantee of the healthiness of the location. Having gone carefully over the most reliable tabulated statements of deaf-mutism, its parent-

age, its home, its causes, and its origin, we would most earnestly call the attention of the public to the fact that the chief cause comes under the head of congenital, 75 of the 150 pupils in this institution having this origin. Such a fearful proportion as this must of necessity have its origin in a cause or causes proportionately fearful. Nor, fortunately, is the causation a mystery, since most careful examination leaves not a shadow of doubt that consanguineous marriages are the sources of this great evil. Without occupying further space by illustrative tables and arguments, we would simply direct the attention of our legislators and thoughtful men to *the law of this disease* — which is, *that the number of deaf and dumb, imbeciles, and idiots is in direct keeping with the degree of consanguinity.* With such a law and exhibit before us, would not a legislative inquiry into the subject, with the view of adopting *preventive* means, be a wise step? The evil is fearful; the cause is plain; so, too, is the remedy."

INDUSTRIAL SCHOOL FOR BOYS.

This institution is situated on the banks of the Fox river, at Waukesha, and was organized in 1860. The whole number of the inmates since it was opened in July, 1860, to October 10, 1876, was 1,291. The whole number of inmates for 1876 was 415. Of these, since the period of opening up to date, October, 1876, 25 have died: 8, of typhoid fever; 1, of typhoid erysipelas; 1, of gastric fever; 3, of brain fever; 1, nervous fever; 2, congestion of the lungs; 2, congestive chills; 5, of consumption; 1 of dropsy; and 1 of inflammatory rheumatism.

THE STATE PRISON.

This was located at Waupun in July, 1857. On September 30, 1876, there were 266 inmates. But one death from natural causes occurred during the year. The health of the prisoners has been unusually good, the prevalent affections attendant upon the seasons, of a mild and manageable character.

STATE HOSPITAL FOR THE INSANE.

This institution, located near Madison, was opened for patients in July, 1860. The total number of admissions down to the year 1877, was 1,227 males, 1,122 females, total 2,349. Over one half of these have been *improved*; nearly one third *recovered*; while less than one quarter have been discharged *unimproved*. Total number of deaths, 288. At the commencement of the year, October 1, 1875, there were in the hospital 376 patients. In the report for the year ending September 30, 1876, we find the past year has been one of unusual health in the hospital. No serious epidemic has prevailed, although 20 deaths have been reported, 7 fatally ill before admission, 4 worn-out cases, etc. Insanity, coming as it does, under this head of an article on State Health, is of the highest interest from a state point of view, not only because so much may be done to remedy it, but that still more can and ought to be done by the state to prevent it. Our insane amount to 1 in 700 of the whole population, the total number in hospitals, poor-houses and prisons being in round numbers 1,400. It is a striking fact, calling for our earnest consideration, that the Germans, Irish and Scandinavians *import and transmit* more insanity — three to one — than the American-born population produce. The causes assigned for this disparity, are, a affecting importation, that those in whom there is an hereditary tendency to disease constitute the migratory class, for the reason that those who are sound and in the full possession of their powers are most apt to contend successfully in the struggle to live and maintain their position at home; while those who are most unsound and unequal to life's contests are unable to migrate. In other words, the strongest will not leave, the weakest can not leave. By this, the character of the migratory is defined. As affects transmission, poverty is a most fruitful parent of insanity, so too is poor land. Says Dr. Boughton, superintendent of the Wisconsin State Hospital for the Insane:

Wisconsin is characterized by a large poor class, especially in the northern part of the state, where people without means have settled on new and poorly paying farms, where their life is made up of hard work, exposure to a severe climate, bad and insufficient diet, cheerless homes, etc., etc. These causes are prolific in the production of insanity. It is easy, therefore, to trace the causes that give us so large a per cent. of insane in many of the counties of the state. Nor is it of less interest to know, as Dr. B. adds: We draw our patients from those families where phthisis pulmonalis, rheumatism and insanity prevail. Insanity and rheumatism are interchangeable in hereditary cases, so too are insanity and phthisis. What may be accomplished by intelligent efforts to stem the increase of insanity in our state? Much. Early treatment is one means, this is of course curative in its character. And its necessity and advantage are well illustrated in table No. 10 of the annual report of Dr. Boughton, for 1876, where it is seen that 45.33 of males, and 44.59 of the females who had been sent to the State Hospital having been insane but three months before admission, were cured, the proportion of cures becoming less in proportion to the longer duration of insanity before admission. As a preventive means, the dissemination of the kind of knowledge that shows indisputably that insanity is largely hereditary, and consequently that intermarriage with families so tainted should on the one hand be avoided by the citizen, and on the other hand, perhaps, *prevented by the state*, (congress at the same time restraining or preventing as far as possible persons so tainted from settling in this country.) By the state, inasmuch as the great burthen of caring for the insane falls upon the state. Still other preventive means are found in the *improved cultivation of our lands* and in our improved education; in fact, in whatever lessens the trials of the poor and lifts them out of ignorance and pauperism. It is only by culture, says Hufeland, that man acquires perfection, morally, mentally and physically. His whole organization is so ordered that he may either become nothing or anything, *hyperculture* and the *want* of cultivation being alike destructive.

THE NORTHERN HOSPITAL FOR THE INSANE.

This hospital was opened at Oshkosh, May, 1873. The total number under treatment September 30, 1876 was—males 246, females 257, total 503. No ailment of an epidemic character has affected the health of the household, which has been generally good. The report of Dr. Kempster is full of suggestive matter for the legislator and sociologist.

CITY OF MILWAUKEE.

Still adhering to the plan, in writing the sanitary history of the state, of gathering up all the health statistics which properly belong to us, we now take up those of Milwaukee, the only city in Wisconsin, so far as we know, that has kept up a system of statistics of its diseases. The city is built on each side of the mouth of Milwaukee river, on the west shore of Lake Michigan in lat. 43° 3' 45" N., long. 87° 57' W., and is considered remarkable for its healthy climate. The board of health has furnished us with its report for 1870 and downward. The character of its mortality from June 19, 1869, to March 31, 1870, is thus summarized: In children under five years of age, 758 out of 1,249 deaths, consumption, 93; convulsions, 128; cholera infantum, 59; diarrhoea, 128; scarlet fever, 132; typhoid fever, 52; inflammation of the lungs, 41; still-born, 79. This disproportionate number of still-born children is attributed in part to a laxity of morals. The deaths from consumption in Milwaukee are 7 1/2 out of every 100, one third less out of a like number of deaths than in San Francisco, in which city, in 4,000 deaths, 441 died of consumption, being 11 out of every 100 deaths for the year ending July, 1869. The deaths for 1870 numbered 1,655, the population being at the last census report, 71,636.

TABLE OF PRINCIPAL CAUSES.

Consumption.....	143	The Milwaukee population being about 72,000, the death rate per annum for every 1,000 inhabitants would be 21, after proper deductions of deaths from other causes than from disease, showing very favorably as compared with other cities.
Inflammation of lungs.....	56	
Convulsions.....	259	
Diarrhœa.....	131	
Diphtheria.....	74	
Scarlet fever.....	52	
Typhoid fever.....	49	
Old age.....	25	
Still-born.....	123	

Glasgow has 39 to every 1,000; Liverpool, 36; London, 25; New Orleans, 54; New York, 32; San Francisco, 24; Milwaukee, 21. Among seventeen of the principal cities of the Union, Milwaukee ranks the ninth in rate of mortality. An impression has prevailed that Milwaukee is subject to a large and disproportionate amount of lung and allied diseases. Statistics disprove this, its deaths from consumption being only 6 per cent., while those of Chicago are 7.75; of St. Louis, 9.68; of Cincinnati, 11.95; and of Boston, 19.31. But few cases of malarial disease occur in Milwaukee, and fewer cases of intestinal fever than in the interior of the state. The mortality among children is explained by its occurring chiefly among the poor foreign-born population, where all that can incite and aggravate disease is always to be found.

This, (the historical part of the health article), will doubtless call forth from the profession much additional and desirable matter, but excepting what will further appear under the head of Madison it is proper to say that we have exhausted the sources of information on the subject within our reach.

HEALTH RESORTS.

Next in order would seem to come some notice of the summer and health resorts of Wisconsin, which, significant of the salubrity of the state, are not only becoming more numerous, but also more frequented from year to year.

Madison, the capital of the state, with a population of 11,000, is built on an isthmus between two considerable lakes, from 70 to 125 feet above their level; 80 miles west of Milwaukee, in latitude 43° 5' north, and longitude 89° 20' west, in the northern temperate region. The lake basins, and also the neck of land between them, have a linear arrangement, trending northeast and southwest. The same linear topography characterises the whole adjacent country and the boundary lines of its various geological formations, this striking feature being due to the former movement of glacier ice over the face of the country. At two points, one mile apart, the Capitol and University hills, respectively 348 and 370 feet above the level of Lake Michigan, rise prominently above the rest of the isthmus. Both of these hills are heaps of drift material from 100 to 126 feet thickness, according to the record of the artesian well. The neck of land on which Madison stands is of the same material. The same boring discloses to us the underlying rock structure, penetrating 614 feet of friable quartzose sandstone belonging to the Potsdam series, 10½ feet of red shale belonging to the same series, and 209½ feet of crystalline rocks belonging to the Archaean. In the country immediately around Madison, the altitude is generally considerably greater, and the higher grounds are occupied by various strata, nearly horizontal, of sandstone and limestone. The Potsdam sandstone rises about 30 feet above the level of Lake Mendota, on its northern shore, where at McBride's Point it may be seen overlaid by the next and hitherto unrecognized layer, one of more or less impure, dark-colored, magnesian limestone, to which the name of Mendota is assigned, and which furnishes a good building stone. The descent of these strata is about

9 feet to the mile in a due southerly direction. Overlying the Mendota beds are again sandstone layers, the uppermost portions of which are occasionally charged with 10 to 20 per cent. of calcareous and dolomitic matter, and then furnish a cream-colored building stone of considerable value. Most of this stratum which has been designated as the *Madison* sandstone, is, however, quite non-calcareous, being either a ferruginous brown stone, or a quite pure, white, nearly loose sand. In the latter phase it is of value for the manufacture of glass. In a number of quarries, cuttings and exposed places around the city, the Madison beds are seen to be overlaid by a grayish, magnesian limestone, the lower magnesian, varying very considerably in its character, but largely composed of a flinty-textured, heavy-bedded, quite pure dolomite, which is burnt into a good quality of lime. Its thickness exceeds 80 feet. Madison, with the conveniences and comforts of a capital city, from its easy access by railroads, from not only in itself being beautiful, but from its beautiful surroundings, from its good society, charming climate, and artesian mineral water, is naturally a great summer resort.

Though there are no vital statistics of the city to refer to, a residence of nearly a quarter of a century has made us sufficiently acquainted with its sanitary history, which is more or less the sanitary history of this part of the state, and in a measure of the state itself. In 1844 and 1845, it was visited by an epidemic malarial fever of a bilious type, and not unfrequently fatal, which passed very generally through the state, and was attributed to the turning up of the soil. It was most virulent in the autumn. Again in 1854 it was visited by a light choleraic epidemic, which also swept the state, assuming very generally a particularly mild type. Again in 1857 it suffered lightly from the epidemic dysentery, which passed through the state. In 1865, it suffered from a visitation of diphtheria, the disease prevailing generally over the state at that time. It has also had two visitations of the epidemic grip (*grippe*), or influenza. The last invasion, some five years since, commencing in a manner perhaps worthy of noting, by first affecting the horses very generally, and again, by beginning on the east side of the city, while the other epidemics for the past twenty-five years (unless the choleraic visitation was an exception) came in on the southwest side of the city, as has been the case, so far as we have been able to observe with the light epidemics to which children are subject. But little typhoid fever is found here, and the aguish fevers when they occur are light and easy of control. There is but little diarrhoea or dysentery. Pneumonia and its allied affections are more common, so is rheumatism, and so neuralgia. Inflammatory croup, however, is very rare, sporadic diphtheria seeming to be taking its place. All the ordinary eruptive fevers of children are and always have been of a peculiarly mild type.

Prairie du Chien, situated immediately at the junction of the Wisconsin with the Mississippi, is built about 70 feet above low water, and 642 feet above the level of the sea. The cliffs on both sides of the river present on their summits the lower strata of the blue Silurian limestone of Cincinnati, beneath which are found sandstone and magnesian limestone down to the water's edge. We give this notice of Prairie du Chien for the purpose of bringing to the knowledge of the public that it possesses one of the most superb artesian wells in the state, which is attracting many persons by its remedial mineral properties.

Green Bay sanitarily may be considered as sufficiently indicated under the head of Fort Howard. It is, however, proper to add that from its geographical position and beautiful situation at the head of the bay, its easy access both by railroad and steamboat, its pleasant days and cool summer nights, it has naturally become quite a popular summer resort, particularly for southern people.

Racine, some 25 miles south by east by rail from Milwaukee and 62 by rail from Chicago, is built upon the banks and some 40 feet above the level of the lake. Its soil is a sandy loam and

gravel, consequently it has a dry, healthy surface, and is much frequented in the summer for its coolness and salubrity.

Waukesha, 18 miles west of Milwaukee by railroad, is a healthy, pleasant place of resort at all times on account of its mineral water, so well known and so highly appreciated throughout the country.

Oconomowoc, 32 miles by railroad west by north of Milwaukee, is a healthy and delightfully located resort for the summer. Its many lakes and drives form its chief attractions, and though its accommodations were considered ample, during the past summer they were found totally inadequate to meet the demands of its numerous visitors.

The Dalles, at Kilbourn City, by rail 16 miles from Portage, is unsurpassed in the northwest for the novelty, romantic character, and striking beauty of its rock and river scenery. It is high and dry; has pure water and fine air, and every-day boat and drive views enough to fill up a month pleasantly.

Lake Geneva, 70 miles by rail from Chicago, is built on the north side of the lake, is justly celebrated for its beauty, and its reputation as a summer resort is growing.

Green Lake, six miles west of Ripon, and 89 northwest from Milwaukee, is some 15 miles long and three broad, surrounded by beautiful groves and prairies; and is claimed to be one of the healthiest little places on the continent.

Devil's Lake is 36 miles by rail north of Madison. Of all the romantic little spots in Wisconsin, and they are innumerable, there is none more romantic or worthy of a summer visitor's admiration than this. It is, though shut in from the rude world by bluffs 500 feet high, a very favorite resort, and should be especially so for those who seek quiet, and rest, and health.

Sparta, 246 miles by rail from Chicago, is pleasantly and healthily situated, and its artesian mineral water strongly impregnated with carbonate of iron, having, it is said, over 14 grains in solution to the imperial gallon, an unusually large proportion, attracts its annual summer crowd.

Sheboygan, 62 miles by rail north of Milwaukee, from its handsome position on a bluff overlooking the lake, and from the beauty of its surroundings as well as from the character of its mineral waters, is an attractive summer resort.

Elkhart Lake, 57 miles by rail north of Milwaukee, is rapidly acquiring a good name from those seeking health or pleasure.

CHANGE IN DISEASES.

In order to ascertain whether the classes of diseases in the state at the date of Carver's travels are the same which prevail to-day, we have compared his description of them with those tabulated in the army medical reports of Forts Howard, Crawford and Winnebago, and again with those given in the U. S. Census for 1870, and with the medical statistics of the city of Milwaukee. The three distinct and prominent classes prevailing from Carver's to the present time, are, in the order of prevalence, diseases of the respiratory organs, consumption, pneumonia, bronchitis, etc.; diseases of the digestive organs, enteritis, dysentery, diarrhœa, etc.; and the malarial fevers. At Fort Howard alone do the diseases of the digestive organs seem to have outnumbered those of the respiratory organs. So far as it is possible to gather from the reports of the commissioners of Indian affairs, these features of the relative prevalence of the three classes of disease are not disturbed.

There are, however, some disturbing or qualifying agencies operating and affecting the amount or distribution of these classes in different areas or belts. For instance, there are two

irregular areas in the state; the one extending from the Mississippi east and north, and the other starting almost as low down as Madison, and running up as far as Green Bay, which are more subject to malarial diseases than are the other parts of the state. While it is found that those parts of the state least subject to diseases of the digestive organs are, a belt along the western shore of Lake Michigan, and a belt running from near Prairie du Chien north into the pineries. Again, it is found that the part of the state most subject to enteric, cerebro-spinal and typhus fevers, is quite a narrow belt running north from the southern border line into the center of the state, or about two-thirds of the distance toward the pineries. All along the western shore of Lake Michigan, and stretching across the country by way of Fond du Lac to the Mississippi, is a belt much less subject to these disorders. It is equally beyond question that the western shore of Lake Michigan, and the southern shore of Lake Superior, as well as the western half of the southern boundary line of the pineries, are less affected with consumption than the interior parts of the state.

The tendency of these diseases is certainly to amelioration. The sanitary history of Wisconsin does not differ from that of any other state east of us, in this striking particular; the farther you trace back the history of disease, the worse its type is found to be. It follows, then, that the improvement in public health must progress with the general improvement of the state, as has been the case with the eastern states, and that the consequent amelioration of our malarial diseases especially will tend to mitigate infectious diseases. The ameliorating influences, however, that sanitary science has brought to bear upon disease, of which England is so happy an illustration, has scarcely as yet begun to be known to us. But the time has come at last when this science is moving both the hearts and minds of thinking and humane men in the state, and its voice has been heard in our legislative halls, evoking a law by which we are, as a people, to be governed, as by any other enactment. The organization of a state board of health is a new era in our humanity. In this board is invested all legal power over the state health. To it is committed all the sanitary responsibility of the state, and the greatest good to the people at large must follow the efforts it is making.

There are many other points of sanitary interest to which it is desirable to call the attention of those interested in Wisconsin. It is a popular truth that a dry climate, all other things being equal, is a healthy climate. Our hygrometrical records show Wisconsin to have one of the driest climates in the United States. Choleraic diseases rarely prevail unless in a comparatively stagnant state of the atmosphere, where they are most fatal. Where high winds prevail such diseases are rare. The winds in Wisconsin, while proverbially high and frequent (carrying away and dissipating malarial emanations), are not destructive to life or property, as is the case, by their violence, in some of the adjoining states. A moist, warm atmosphere is always provocative of disease. Such a state of atmosphere is rare with us, and still more rarely continuous beyond a day or two. Moist air is the medium of malarial poisoning, holding as it does in solution gases and poisonous exhalations. Its character is readily illustrated by the peculiar smell of some marsh lands on autumnal evenings. Such a state of moisture is seen only in our lowest shut-in marshes (where there is but little or no air-current), and then only for a very limited period, in very hot weather.

But too much importance is attached by the public to a simply dry atmosphere for respiratory diseases. The same mistake is made with regard to the good effects in such disorders of simply high elevations. Dry air in itself, or a high elevation in itself, or both combined, are not necessarily favorable to health, or curative of disease. In the light and rare atmosphere of Pike's Peak, an elevation of 6,000 feet, the pulse is accelerated, the amount of sleep is diminished, and the human machine is put under a high-pressure rate of living, conducive only to its

injury. The average rate of the pulse in healthy visitors is from 115 to 120 per minute (the normal rate, in moderate elevations, being about 75). And where there is any organic affection of the heart, or tendency to bleeding from the lungs, it is just this very dry atmosphere and high elevation that make these *remedies* (?) destructive. Hence it is that Wisconsin, for the generality of lung diseases, especially when accompanied with hemorrhage, or with heart disease, is preferable to Colorado. It may be objected, that the diseases of the respiratory organs are in excess of other diseases in Wisconsin. This feature, however, is not confined to the cold belt of our temperate latitudes—our proportion of respiratory diseases, be it noted, comparing most favorably with that of other states, as may be seen in the following table:

CLIMATOLOGICAL DISTRIBUTION OF PULMONARY DISEASES.

STATES.	Deaths by Phthisis.	Per cent. of entire Mortality.	Deaths by all diseases of Respiratory Organs.	Per cent. of entire Mortality.
Massachusetts, 1850, U. S. Census.....	3,426	17.65	4,418	22.27
Ohio, 1849-50, U. S. Census.....	2,558	3.83	3,988	13.77
Michigan, 1850, U. S. Census.....	657	14.55	1,084	24.00
Illinois, 1849-50, U. S. Census.....	866	7.36	1,709	15.00
Wisconsin, 1849-50, U. S. Census.....	290	9.99	535	18.43

Now, while the mortuary statistics of the United States census for 1850 are acknowledged to be imperfect, they are, nevertheless, undoubtedly correct as to the causes of mortality. But besides this statistical evidence of the climatological causes of disease, there are certain relative general, if not special, truths which serve to guide us in our estimate. Respiratory diseases of all kinds *increase* in proportion as the temperature *decreases*, the humidity of the air being the same. Another equally certain element in the production of this class of diseases is variability of climate. Still, this feature of our climate is only an element in causation, and affects us, as we shall see in the table below, very little as compared with other states. Indeed, it is still disputed whether there is not more consumption in tropical climates than in temperate climates. This much is admitted, however, that consumption is rare in the arctic regions. Dr. Terry says the annual ratio of pulmonary diseases is lower in the northern than in the southern regions of the United States, and Dr. Drake, an equally eminent authority, recommends those suffering from or threatened with pulmonary affections, to *retreat* to the colder districts of the country, citing among others localities near Lake Superior—a recommendation which our experience of nearly half a century endorses.

PROPORTION OF PNEUMONIA TO CONSUMPTION IN THE DIFFERENT STATES.

STATES.	CONS.	PNEUM.	STATES.	CONS.	PNEUM.
Massachusetts.....	3,424	549	North Carolina.....	562	664
Ohio.....	2,558	795	Kentucky.....	1,238	429
Illinois.....	567	647	Wisconsin.....	290	194

When we compare the general death-rate of Wisconsin with that of the other states of the Union, we find that it compares most favorably with that of Vermont, the healthiest of the New England states. The United States census of 1850, 1860 and 1870, gives Wisconsin 94 deaths to 10,000 of the population, while it gives Vermont 101 to every 10,000 of her inhabitants. The

census of 1870 shows that the death-rate from consumption in Minnesota, Iowa, California and Wisconsin are alike. These four states show the lowest death-rate among the states from consumption, the mortality being 13 to 14 per cent. of the whole death-rate.

Climatologically considered, then, there is not a more healthy state in the Union than the state of Wisconsin. But for health purposes something more is requisite than climate. Climate and soil must be equally good. Men should shun the soil, no matter how rich it be, if the climate is inimical to health, and rather choose the climate that is salubrious, even if the soil is not so rich. In Wisconsin, generally speaking, the soil and climate are equally conducive to health, and alike good for agricultural purposes.

STATISTICS OF WISCONSIN.

1875.

ADAMS COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Adams	209	198			398
Big Falls	77	71	4	4	154
Del Prairie	244	221			465
Easton	164	153			317
Jackson	292	290			582
Leola	117	100			217
Lincoln	291	194			397
Montrose	240	239			479
New Chester	163	137			300
New Haven	444	403			847
Preston	74	62			136
Quincy	176	178			354
Richfield	121	99			220
Rome	199	151			350
Springville	183	182			365
Strong's Prairie	501	433			934
White Creek	127	115			242
Total	3,451	3,045	4	4	6,502

ASHLAND COUNTY.

Ashland	268	180			448
La Pointe	141	141			282
Total	409	321			730

BAYFIELD COUNTY.

Bayfield	538	493	1		1,032
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BARRON COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Barron	343	285			628
Chetek	459	397			856
Prairie Farm	364	319			683
Stanford	326	276			602
Sumner	214	183			397
Rice Lake	123	84			206
Dallas	240	156			396
Total	2,068	1,669			3,737

BROWN COUNTY.

Aswaabon	210	173			383
Altona	114	136			250
Belle Vue	371	337	3		711
Deperre	410	358			768
Deperre Village	973	926	5	6	1,910
Edwin	291	298			589
Fort Howard City	1,839	1,721			3,560
Glenboro	391	452			843
Green Bay City	3,009	4,017	29	25	8,080
Green Bay	781	512			1,293
Holland	781	505			1,286
Howard	687	579			1,266
Lawrence	519	467			986
Lawrence	299	418	2		719
Maple	763	675			1,338
New Richmond	618	529			1,147
Parishfield	344	345			689
Proctor	878	792	6	6	1,682
Lowland	131	132			263
Scott	441	490			931
Solution	177	172			349
West Deperre Village	683	611			1,294
Wrightstown	1,222	1,058	8	7	2,295
Total	18,370	16,899	51	45	35,472

BURNETT COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Grantsburg.....	433	379	11	4	827
Trade Lake.....	231	191	13	14	439
Wood Lake.....	87	82	12	14	195
Total.....	751	652	35	25	1,456

BUFFALO COUNTY.

Alona.....	296	274	12	3	550
Beveland.....	32	29	.....	.....	61
Buffalo.....	307	279	.....	.....	526
Buffalo City.....	178	147	.....	.....	325
Canon.....	326	336	.....	.....	627
Crane.....	359	371	.....	.....	659
Door.....	292	283	.....	.....	574
Lincolnton.....	413	373	.....	.....	701
Geneseo.....	239	212	.....	.....	453
Greenfield.....	339	309	.....	.....	645
Lincoln.....	249	240	.....	.....	515
Manville.....	215	212	.....	.....	427
7-Town.....	402	393	.....	.....	725
Montana.....	341	306	.....	.....	647
Naples.....	147	171	.....	.....	318
Nelson.....	839	664	.....	.....	1,793
Waunakee.....	552	521	.....	.....	1,053
Alma village.....	465	461	.....	.....	886
Fountain City village.....	500	491	.....	.....	994
Total.....	7,517	6,702	2	3	14,219

CALUMET COUNTY.

Brothertown.....	864	809	12	7	1,692
Brillon.....	669	597	.....	.....	1,173
Childen.....	1,061	1,060	10	16	2,097
Charlestown.....	668	592	3	4	1,227
Harrison.....	1,998	875	1	.....	2,884
New Holstein.....	1,016	919	.....	.....	1,995
Rantoul.....	837	751	.....	.....	1,590
Shockbridge.....	810	865	161	139	2,669
Waukegan.....	650	639	.....	.....	1,329
Total.....	7,720	6,989	193	182	15,085

CLARK COUNTY.

Beaver.....	166	91	.....	.....	197
Culby.....	304	210	.....	.....	513
Edison.....	183	142	.....	.....	325
Frenthold.....	57	47	.....	.....	114
Grant.....	353	310	.....	.....	663
Hewel.....	28	43	.....	.....	101
Havoth.....	205	173	.....	.....	328
Loyal.....	292	237	.....	.....	499
Lyons.....	84	71	.....	.....	155
Lyons.....	151	113	.....	.....	263
Menard.....	317	297	.....	.....	614
Mayville.....	177	147	.....	.....	320
Time Valley.....	759	736	.....	.....	1,525
Pringles.....	39	37	.....	.....	76
Sherman.....	132	120	.....	.....	252
Unity.....	152	107	.....	.....	299
Waunder.....	186	121	.....	.....	307
Weyton.....	126	103	.....	.....	249
Washburn.....	70	68	.....	.....	138
York.....	171	145	.....	.....	306
Total.....	3,988	3,294	.....	.....	7,282

CHIPPEWA COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Ansolt.....	361	269	.....	.....	630
Auburn.....	488	420	.....	.....	908
Bloomer.....	671	609	.....	.....	1,220
Chippewa Falls city.....	3,285	1,755	6	3	5,050
Edson.....	329	338	.....	.....	617
Eagle Point.....	1,360	1,074	.....	.....	2,434
La Fayette.....	1,046	675	.....	4	1,688
Sage.....	346	292	.....	.....	728
Wheaton.....	442	368	.....	.....	810
Total.....	8,312	5,670	6	7	13,995

COLUMBIA COUNTY.

Arlington.....	512	497	.....	.....	1,009
Calumet.....	629	584	.....	.....	1,233
Columbus town.....	481	400	.....	.....	881
Columbus city.....	813	661	.....	.....	1,402
Courtland.....	627	612	.....	.....	1,209
Dekora.....	662	618	.....	.....	1,250
Fort Winnebago.....	376	351	.....	.....	727
Holland Prairie.....	548	512	.....	.....	1,060
Hampden.....	519	497	.....	.....	1,012
Lee's.....	596	509	1	.....	1,102
Leicester.....	513	505	.....	.....	1,016
Leola.....	705	743	.....	.....	1,448
Lowville.....	449	457	.....	.....	856
Marathon.....	444	409	4	1	858
Newport.....	853	842	3	3	1,731
Oscego.....	759	737	.....	.....	1,496
Parma.....	130	119	.....	.....	249
Parkville.....	2,761	2,104	7	5	4,877
Randolph.....	630	596	.....	.....	1,186
Scott.....	409	374	.....	.....	783
Spring Vale.....	423	347	.....	.....	770
West Point.....	486	442	.....	.....	928
Wyanona.....	580	549	.....	.....	1,120
West W. Vil. of Randolph.....	33	34	.....	.....	67
Total.....	14,710	14,069	15	9	28,803

CRAWFORD COUNTY.

Bridgeport.....	177	186	.....	.....	363
Clayton.....	851	765	.....	.....	1,616
La-Math.....	751	678	.....	.....	1,433
Freemant.....	768	766	.....	.....	1,594
Honey.....	313	257	.....	.....	571
Marquette.....	498	368	4	3	902
Prairie du Chien town.....	394	426	.....	.....	759
Prairie du Chien city.....	.....	.....	.....	.....	.....
First ward.....	411	352	.....	.....	763
Second ward.....	129	135	2	3	269
Third ward.....	404	424	.....	.....	828
Fourth ward.....	184	209	12	5	393
St. Charles.....	425	368	.....	.....	953
S. Iowa.....	704	682	.....	.....	1,391
Union.....	723	697	.....	.....	1,420
Wauzeka.....	583	511	1,094
Total.....	7,729	7,676	18	11	15,035

DOUGLAS COUNTY.

Superior.....	186	346	3	6	741
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EAU CLAIRE COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Augusta Village.....	519	507	.....	.....	1,026
Bridge Creek.....	404	383	.....	.....	787
Peninsular.....	419	357	.....	.....	776
Eau Claire city.....	1,646	3,174	13	4	8,140
Farwell.....	221	174	.....	.....	395
Laird.....	158	163	.....	.....	321
Lindholm.....	501	553	.....	.....	1,054
Osceola Creek.....	406	433	.....	.....	839
Plains Valley.....	300	233	.....	.....	533
St. Marie.....	93	78	.....	.....	171
Union.....	327	290	.....	.....	617
Washington.....	395	324	.....	.....	720
Total.....	8,724	7,250	13	4	15,991

GREEN LAKE COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Booth.....	548	574	.....	.....	1,122
Brookfield.....	1,389	1,777	.....	.....	3,166
Brooklyn.....	707	691	.....	.....	1,398
Green Lake.....	729	759	.....	.....	1,509
Kilbuck.....	452	442	6	6	895
Manitou.....	630	634	.....	.....	1,264
Mapleford.....	531	682	.....	.....	1,213
Mapleton.....	553	521	.....	.....	1,074
Princeton.....	1,038	1,015	.....	.....	2,053
St. Marie.....	79	316	.....	.....	395
Sorensen.....	242	245	1	.....	487
Total.....	7,632	7,612	9	6	15,247

GREEN COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	Male.	Female.	Male.	Female.	Aggregate.
Adams.....	476	477	.....	.....	953
Albany.....	517	585	.....	.....	1,102
Brooklyn.....	585	554	.....	.....	1,139
Brookfield Village.....	669	730	.....	.....	1,398
Clay.....	665	640	.....	.....	1,305
Green.....	424	434	.....	.....	858
Hebster.....	311	550	1	2	761
Keokuk.....	453	343	.....	.....	796
Le Roy.....	457	377	.....	.....	834
Jordan.....	540	486	.....	.....	1,026
Monroe.....	462	511	.....	.....	973
Northfield.....	1,175	1,253	6	3	2,427
North Pleasant.....	550	528	2	.....	1,110
New Glarus.....	510	415	.....	.....	925
Spring Grove.....	619	567	1	1	1,188
St. Lawrence.....	446	508	.....	.....	954
Washington.....	417	399	.....	.....	816
York.....	520	466	.....	.....	1,016
Total.....	11,102	10,930	14	11	22,027

GRANT COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	Male.	Female.	Male.	Female.	Aggregate.
Beetham.....	875	805	27	20	1,717
Blue River.....	419	453	.....	.....	872
Brookfield.....	944	960	4	3	1,907
Brommington.....	607	593	.....	.....	1,200
Clifton.....	487	512	.....	.....	999
Cassville.....	789	789	.....	.....	1,578
Farholm.....	425	384	.....	.....	809
Fennimore.....	915	875	.....	.....	1,790
Greenfield.....	611	611	.....	.....	1,222
Hillsdale.....	416	397	.....	.....	813
Hazel Green.....	1,147	1,061	.....	.....	2,208
Harrison.....	526	527	.....	.....	1,053
Jameson.....	506	527	.....	.....	1,033
Lima.....	574	481	.....	.....	1,055
L Liberty.....	454	423	.....	.....	877
Lawrence.....	1,259	1,178	6	2	2,442
Little Grant.....	379	399	.....	.....	778
Missouri.....	674	663	.....	.....	1,337
Narvon.....	729	732	.....	.....	1,461
Mayville.....	169	167	.....	.....	336
Mount Hope.....	110	124	.....	.....	234
Paris.....	708	700	.....	.....	1,408
Platteville.....	2,610	2,614	1	1	5,226
Polk.....	1,173	1,268	.....	.....	2,441
St. Charles.....	716	718	19	9	1,452
St. Lawrence.....	1,116	1,111	.....	.....	2,227
Waverly.....	369	369	.....	.....	738
Watts.....	110	113	.....	.....	223
Watts.....	576	481	.....	.....	1,057
Washington.....	560	553	.....	.....	1,113
Washington.....	293	293	.....	.....	586
Total.....	20,917	18,911	65	41	39,835

JACKSON COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	Male.	Female.	Male.	Female.	Aggregate.
Albion.....	1,128	1,131	5	1	2,268
Ames.....	609	622	.....	.....	1,231
Green Valley.....	514	457	.....	.....	1,029
Harrison.....	714	581	.....	.....	1,295
Le Roy.....	469	483	.....	.....	952
Manchester.....	236	197	.....	.....	433
Marquette.....	133	136	.....	.....	269
Northfield.....	148	84	.....	.....	232
Springfield.....	448	429	.....	.....	877
Union.....	535	567	.....	.....	1,102
Total.....	6,629	5,994	5	1	11,429

JEFFERSON COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	Male.	Female.	Male.	Female.	Aggregate.
Adrian.....	669	677	4	4	1,344
Concord.....	750	517	.....	.....	1,267
East Troy.....	1,075	1,030	.....	.....	2,105
Jefferson.....	1,215	1,111	.....	.....	2,326
Madison.....	662	668	.....	.....	1,330
Mapleton.....	629	577	.....	.....	1,206
Mapleton.....	2,081	1,978	.....	.....	4,059
Mapleton.....	1,241	1,210	.....	.....	2,451
Mapleton.....	235	239	21	11	489
Mapleton.....	564	572	.....	.....	1,136
Mapleton.....	224	211	.....	.....	435
Mapleton.....	508	478	.....	.....	986
Mapleton.....	278	276	.....	.....	554
Mapleton.....	736	489	.....	.....	1,225
Mapleton.....	318	307	.....	.....	625
Mapleton.....	1,115	1,065	.....	.....	2,180
Mapleton.....	1,266	1,283	.....	.....	2,549
Total.....	17,702	17,117	40	26	34,908

JUNEAU COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
	Atholville	117	119	.....		.....	236
Clearfield	135	115	.....	.....	250
Fountain	347	343	.....	.....	690
Greenbriar	360	323	.....	.....	683
Kildare	309	219	.....	.....	528
Lemonweir	553	519	.....	.....	1,072
Lindala	536	510	.....	.....	1,046
Lisbon	274	210	.....	.....	484
Yanion	259	224	.....	.....	483
Yaron	178	160	.....	.....	338
Manson village.	548	569	1	.....	1,118
Neocah.	1,001	864	1	.....	1,865
New Lisbon village.	252	573	1	1	1,123
Orange	297	248	.....	.....	545
Plymouth	718	690	.....	.....	1,408
Seven Mile Creek	419	377	.....	.....	796
Summit	510	430	.....	.....	940
Wanewau	574	719	.....	.....	1,293
Total	7,993	7,301	3	3	15,300

KENOSHA COUNTY.

Brighton	561	505	.....	.....	1,066
Bristol	585	552	.....	.....	1,137
Kenosha city	2,436	2,533	.....	.....	4,969
Paris	759	479	.....	.....	1,238
Pleasant Prairie	734	723	5	5	1,457
Romald	797	752	.....	.....	1,549
Somerset	794	630	5	5	1,430
Union	697	669	.....	.....	1,366
Wheatland	434	413	.....	.....	847
Total	7,099	6,801	19	19	13,907

KEWAUNEE COUNTY.

Abnott town.	687	632	.....	.....	1,319
Abnott village.	532	509	.....	.....	1,041
Carlton	706	706	.....	.....	1,412
Cass	516	467	.....	.....	983
Franklin	717	726	.....	.....	1,443
Kewaunee town & village	1,347	1,233	.....	.....	2,580
Liberty	497	419	.....	.....	916
Montpelier	623	514	.....	.....	1,137
Pierce	917	780	.....	.....	1,697
Red River	718	685	.....	.....	1,403
Total	7,506	6,899	.....	.....	14,405

LA CROSSE COUNTY.

Barre	366	348	.....	.....	714
Bangor	697	604	.....	.....	1,301
Brian	516	483	.....	.....	999
Cambridge	528	375	2	1	906
Carleton	919	910	.....	.....	1,829
Greenfield	326	350	.....	.....	676
Hamilton	863	839	1	.....	1,703
Holland	464	462	.....	.....	926
La Crosse city.	.....	.....	.....	.....	.....
First ward	1,191	1,295	33	21	2,499
Second ward	775	619	6	2	1,392
Third ward	1,784	1,916	6	1	3,707
Fourth ward	799	753	.....	.....	1,552
Fifth ward	1,195	962	3	2	2,152
North Fork River	732	666	.....	.....	1,398
Onalaska village.	294	282	.....	.....	576
Shelby	482	375	.....	.....	857
Washington	499	434	.....	.....	933
Total	12,265	11,599	55	37	23,915

LA FAYETTE COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
	Argyle	583	571	.....		.....	1,154
Bethel	660	591	1	.....	1,251
Benton	880	765	.....	.....	1,645
Blochard	273	295	.....	.....	568
Darlington	1,229	1,311	.....	2	2,541
Elk Grove	510	435	.....	.....	945
Fayette	602	595	.....	.....	1,197
Gravel	866	835	.....	.....	1,701
Keokuk	468	429	.....	.....	897
Keosauqua	278	231	1	.....	509
Newburg	522	483	.....	.....	1,005
New Martins	529	416	.....	.....	945
Newport	1,275	1,282	1	.....	2,558
Wayne	554	527	.....	.....	1,081
White Oak Springs	231	215	.....	.....	446
Willow Springs	375	308	.....	.....	683
Worland	965	836	1	1,801
Total	11,383	10,781	2	4	22,169

LINCOLN COUNTY.

Jenny	523	372	895
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MARQUETTE COUNTY.

Buffalo	262	370	1	633
Crystal Lake	284	330	614
Douglas	326	318	644
Harris	290	271	.....	.....	561
Montello	379	325	.....	.....	704
Myran	356	352	.....	.....	708
Northville	219	179	.....	.....	398
Nowton	331	378	.....	.....	709
Osborn	257	252	.....	.....	509
St. Joseph	274	268	.....	.....	542
Waukegan	312	326	.....	.....	639
Shelby	163	147	.....	.....	310
Springfield	232	149	.....	.....	381
Westfield	348	391	.....	.....	739
Total	4,490	4,207	1	.....	8,697

MARATHON COUNTY.

Berg	109	59	.....	.....	168
Bethel	585	574	.....	.....	1,159
Carleton	77	258	.....	.....	335
Knobloch	115	129	.....	.....	244
Marathon	422	333	.....	.....	755
Marquette	397	28	.....	.....	425
North	479	430	.....	.....	909
Peas	139	119	.....	.....	258
Peas	139	119	.....	.....	258
Waukegan	1,900	1,294	.....	.....	3,194
Waukegan	130	119	.....	.....	249
Waukegan	263	215	1	.....	479
Total	5,524	4,586	1	.....	10,111

MANITOWOC COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Cato.....	951	955	.....	.....	1,906
Cetteville.....	721	789	.....	.....	1,510
Coopers town.....	281	291	.....	.....	1,711
Faxon.....	712	791	.....	.....	1,503
Federal.....	675	877	.....	.....	1,552
Gilson.....	571	877	.....	.....	1,448
Kosuth.....	1,176	1,084	.....	.....	2,260
Liberty.....	678	692	.....	.....	1,370
Manitowoc city.....	3,239	3,498	1	.....	6,737
Manitowoc town.....	669	662	.....	.....	1,331
Mishicot.....	748	692	.....	.....	1,440
Menom.....	601	675	.....	.....	1,276
Manitowoc Rapids.....	1,060	1,014	.....	.....	2,074
Maple Grove.....	721	641	.....	.....	1,362
Newton.....	1,170	1,076	.....	.....	2,246
Rockland.....	591	519	.....	.....	1,110
Schleswig.....	1,065	915	.....	.....	1,980
Two Rivers Village.....	1,019	922	.....	.....	1,941
Two Rivers town.....	288	837	.....	.....	1,125
Two Creeks.....	511	313	.....	.....	824
Total.....	18,535	18,921	1	.....	38,456

MILWAUKEE COUNTY.

Milwaukee city—					
First ward.....	4,127	5,161	1	3	9,292
Second ward.....	6,874	6,617	.....	.....	13,491
Third ward.....	3,009	3,491	4	6	6,500
Fourth ward.....	2,025	2,491	70	70	4,606
Fifth ward.....	3,111	3,678	7	10	6,796
Sixth ward.....	4,019	4,222	.....	.....	8,241
Seventh ward.....	3,281	3,714	7	2	6,994
Eighth ward.....	3,122	3,376	.....	.....	6,498
Ninth ward.....	3,010	3,176	.....	.....	6,186
Tenth ward.....	3,281	3,257	.....	.....	6,538
Eleventh ward.....	3,017	3,259	.....	.....	6,276
Twelfth ward.....	3,226	1,988	.....	.....	5,214
Thirteenth ward.....	1,709	1,674	.....	.....	3,383
Franklin.....	915	855	.....	.....	1,770
Greenfield.....	1,243	1,299	2	2	2,544
Wauwatosa.....	3,216	1,815	1	1	5,033
Oconomowoc.....	1,122	1,191	.....	.....	2,313
Oak Creek.....	1,175	1,151	.....	.....	2,326
Lake.....	2,282	2,270	.....	.....	4,552
Milwaukee town.....	1,712	1,755	.....	.....	3,467
Total.....	61,758	66,979	96	91	128,927

MONROE COUNTY.

Adrian.....	371	508	.....	.....	879
Angelo.....	291	276	.....	.....	567
Byron.....	191	178	.....	.....	369
Chetek.....	474	521	.....	.....	995
Gibson.....	709	501	.....	.....	1,210
Greenfield.....	377	392	.....	.....	769
Jefferson.....	429	479	.....	.....	908
La Fayette.....	1,054	976	.....	.....	2,030
La Grange.....	322	370	34	35	699
Leont.....	101	102	.....	.....	203
Little Falls.....	102	227	2	1	332
Lincoln.....	102	281	.....	.....	383
New York.....	281	315	.....	.....	596
Oneida.....	371	315	6	11	703
Port Arthur.....	168	204	.....	.....	372
Edgewood.....	679	716	.....	.....	1,395
Sheldon.....	474	512	.....	.....	986
Sparta.....	1,111	1,024	6	7	2,145
Tomba.....	1,151	1,074	.....	.....	2,225
Willington.....	474	512	.....	.....	986
Wilton.....	271	315	.....	.....	586
Well.....	371	291	.....	.....	662
Total.....	11,690	9,925	47	51	21,616

OCONTO COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Gillett.....	196	179	.....	.....	375
Little Shantow.....	551	391	.....	.....	942
Maple Valley.....	152	198	.....	.....	350
Mapleton.....	1,140	1,086	.....	.....	2,226
Oconto town.....	359	453	1	2	814
Oconto village.....	2,711	2,086	.....	.....	4,797
Positivon.....	1,495	1,022	6	1	2,524
Positivon village.....	711	531	.....	.....	1,242
Stires.....	293	153	.....	.....	446
Total.....	7,729	6,017	6	3	13,812

OUTAGAMIE COUNTY.

Appleton city.....	3,207	3,403	11	9	6,730
Brooklyn.....	489	492	.....	.....	981
Boysie.....	778	479	4	3	1,263
Black Cro.....	516	493	.....	.....	1,009
Centre.....	876	718	4	1	1,599
Cleto.....	278	.....	.....	.....	278
Deer Creek.....	536	516	.....	.....	1,052
Deer Creek.....	159	159	.....	.....	318
Edgemoor.....	689	675	2	7	1,373
Edgemoor.....	870	711	.....	.....	1,581
Grand Chute.....	832	811	.....	.....	1,643
Greenville.....	719	669	.....	.....	1,388
Hopkinton.....	562	572	.....	.....	1,134
Keosauqua.....	990	927	.....	.....	1,917
Liberty.....	263	236	.....	.....	499
Madison.....	498	578	.....	.....	1,076
Madison.....	111	92	.....	.....	203
New London, 3d ward.....	100	100	.....	.....	200
Oshong.....	270	247	.....	.....	517
Seymour.....	739	621	1	.....	1,361
Total.....	11,127	12,313	27	20	23,558

OZAUKEE COUNTY.

Centerville.....	1,276	1,268	.....	.....	2,544
Edgemoor.....	1,011	1,009	.....	.....	2,020
Edgemoor.....	692	624	.....	.....	1,316
Edgemoor.....	470	474	1	1	945
Edgemoor.....	1,617	1,522	.....	.....	3,139
Port Washington.....	1,487	1,481	.....	.....	2,968
Saukville.....	1,081	979	.....	.....	2,060
Total.....	8,516	8,029	1	1	16,545

PIERCE COUNTY.

Chetek.....	588	521	.....	.....	1,109
Dodgeville.....	675	240	.....	.....	915
Edgemoor.....	1,011	691	1	.....	1,702
Edgemoor.....	287	243	.....	.....	530
Edgemoor.....	783	348	.....	.....	1,131
Edgemoor.....	1,011	712	.....	.....	1,723
Edgemoor.....	1,234	104	.....	.....	1,338
Edgemoor.....	513	513	.....	.....	1,026
Edgemoor.....	544	489	.....	.....	1,033
Edgemoor.....	483	415	.....	.....	898
Edgemoor.....	711	714	24	24	1,453
Edgemoor.....	199	174	10	9	392
Edgemoor.....	197	111	.....	.....	308
Edgemoor.....	103	127	.....	.....	230
Edgemoor.....	1,111	451	4	2	1,568
Edgemoor.....	291	252	.....	.....	543
Edgemoor.....	326	255	.....	.....	581
Total.....	7,977	6,051	41	35	15,101

POLK COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Abden.....	510	417	.....	.....	927
Black Brook.....	376	318	.....	.....	694
Balsam Lake.....	266	268	12	9	555
Eureka.....	265	174	.....	.....	383
Farmington.....	425	352	.....	.....	417
Lincoln.....	399	322	.....	.....	423
Luck.....	209	141	56	47	453
Lotah.....	61	55	.....	.....	106
Laketon.....	160	127	.....	.....	317
Milltown.....	105	85	10	9	209
Oceoro.....	485	428	.....	.....	914
St. Croix Falls.....	298	195	.....	.....	496
Steering.....	124	110	.....	.....	244
Total.....	3,548	3,045	78	95	6,756

PORTAGE COUNTY.

Amherst.....	650	575	.....	.....	1,225
Almond.....	378	315	.....	.....	721
Beaumont.....	248	230	.....	.....	478
Brigg Vista.....	264	222	.....	.....	526
East Portage.....	357	323	.....	.....	709
Grant.....	126	120	.....	.....	246
Hull.....	522	497	.....	.....	1,019
Lamar.....	293	265	.....	.....	604
Linwood.....	234	199	.....	.....	443
New Hope.....	511	496	.....	.....	1,037
Plover.....	271	244	.....	.....	509
Pine Grove.....	131	130	.....	.....	261
Stockton.....	531	616	.....	.....	1,227
Spartan.....	783	744	.....	.....	1,544
Stevens Point city.....	474	444	.....	.....	908
Stevens Point city—					
First ward.....	219	612	1	.....	1,211
Second ward.....	141	612	.....	.....	1,125
Third ward.....	315	289	.....	.....	604
Total.....	7,842	7,071	1	.....	14,526

PEPIN COUNTY.

Albany.....	191	181	.....	.....	375
Orlando.....	327	285	.....	.....	605
Frankfort.....	251	225	.....	.....	505
Little.....	211	274	.....	.....	554
Pepin.....	209	186	2	.....	414
Stockholm.....	215	258	.....	.....	606
Waterville.....	293	285	.....	.....	1,128
Waubeek.....	120	117	.....	.....	277
Total.....	3,060	2,750	2	.....	5,816

ROCK COUNTY.

Abell.....	115	453	.....	.....	878
Beaumont.....	52	334	.....	.....	711
Beaumont city.....	2,172	2,271	4	33	4,605
Brookfield.....	265	173	.....	.....	664
Centerville.....	342	308	.....	.....	1,001
Clinton.....	965	952	2	2	1,922
Fulton.....	120	960	.....	.....	2,016
Hammond.....	413	360	.....	.....	1,136
Jen. Wood.....	343	360	.....	.....	825
Janney (city).....	5,040	5,175	1	26	10,115
Jefferson.....	421	387	.....	.....	1,141
La Prairie.....	424	387	1	.....	822
Letna.....	278	333	.....	.....	1,121
Magnolia.....	312	315	1	1	1,079
Melrose.....	292	277	1	1	829
Newark.....	481	421	.....	.....	921
Plymouth.....	639	695	.....	.....	1,722
Porter.....	664	624	.....	.....	1,411
Rock.....	532	497	.....	.....	1,411
Strong Valley.....	589	578	.....	.....	1,128
Union.....	292	277	1	.....	822
Union.....	1,029	1,015	1	.....	2,125

RACINE COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Burlington.....	1,403	1,424	1	.....	2,827
Caladonia.....	1,592	1,375	.....	.....	2,847
Boxley.....	538	455	1	.....	993
Mt. Pleasant.....	1,237	1,104	.....	.....	2,341
Norway.....	506	437	4	2	963
Racine city.....	6,371	6,590	62	51	13,274
Richmond.....	254	210	.....	.....	1,574
Rochester.....	116	408	1	.....	524
Waterford.....	784	725	.....	.....	1,514
Yorkville.....	810	753	.....	.....	1,565
Total.....	14,616	13,973	69	53	28,702

RICHLAND COUNTY.

Akan.....	361	381	.....	.....	742
Blair.....	685	714	.....	.....	1,299
Brown Vista.....	569	529	.....	.....	1,086
Dayton.....	573	525	.....	.....	1,098
Edgemoor.....	706	582	.....	.....	1,185
Foster.....	490	422	.....	.....	912
Hartford.....	464	438	.....	.....	941
Harvey.....	627	597	.....	.....	1,219
Marshall.....	363	410	.....	.....	802
Orion.....	371	394	5	2	874
Rockland.....	602	605	5	2	1,210
Richmond.....	749	690	1	.....	1,440
Rockhouse.....	588	544	.....	.....	1,132
Salem.....	521	483	.....	.....	1,010
Westford.....	535	477	.....	.....	1,004
Willow.....	435	403	10	3	851
Total.....	8,896	8,436	16	5	17,333

ST. CROIX COUNTY.

Babwin.....	160	119	.....	.....	299
Edgemoor Village.....	255	215	.....	.....	522
Gay.....	184	115	.....	.....	341
Le Roy.....	235	209	.....	.....	477
Le Roy Prairie.....	164	267	.....	.....	393
Emmett.....	373	367	.....	.....	743
Le Roy city.....	277	259	.....	.....	541
Hartford.....	618	562	.....	.....	1,226
Richmond.....	336	302	.....	.....	688
Richmond city.....	979	945	4	1	1,977
Rockhouse.....	393	341	.....	.....	725
Traverse Valley.....	378	340	.....	.....	721
Rush Key (city).....	299	316	.....	.....	645
Richmond.....	694	537	1	.....	1,140
Summit.....	255	265	.....	.....	588
Stoughton.....	298	298	.....	.....	600
Stoughton.....	259	293	.....	.....	482
Star Prairie.....	378	314	.....	.....	692
Star Prairie.....	164	196	.....	.....	290
Traverse Valley.....	529	396	.....	.....	914
Warren.....	378	304	1	.....	686
Total.....	8,099	6,941	6	1	14,966

SAUK COUNTY.

Baraboo.....	2,026	1,931	11	8	3,976
Beaumont.....	116	912	.....	.....	1,028
Beaumont city.....	115	341	.....	.....	397
Beaumont city.....	211	281	.....	.....	742
Beaumont city.....	367	485	.....	1	1,141
Baraboo.....	262	204	.....	.....	744

SAUK COUNTY.—Cont'd.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Greenfield.....	991	971	1	.....	766
Honey Creek.....	648	622	.....	.....	1,270
Ironton.....	658	.....	.....	.....	1,211
La Valle.....	664	573	.....	.....	1,137
Merrimack.....	456	199	.....	.....	886
Prairie du Sac.....	934	1,015	.....	.....	1,909
Roskoshing.....	1,111	1,112	.....	.....	2,222
Spring Creek.....	561	519	6	.....	1,074
Sulzfeldt.....	292	281	.....	.....	773
Troy.....	532	531	.....	.....	1,052
Washington.....	297	.....	.....	.....	1,499
Westfield.....	684	612	3	2	1,299
Windsor.....	439	353	.....	.....	827
Woodland.....	645	575	.....	.....	1,229
Total.....	13,816	13,088	17	17	26,932

SHAWANO COUNTY.

Almond.....	53	60	.....	.....	83
Angels.....	266	199	.....	.....	466
Belle Plaine.....	264	253	.....	.....	708
Grant.....	272	198	.....	.....	470
Green Valley.....	150	141	11	9	294
Harland.....	157	417	.....	.....	918
Herman.....	145	175	.....	.....	282
Maple Grove.....	251	190	.....	.....	441
Navarino.....	80	68	.....	.....	148
Palis.....	238	228	.....	.....	466
Rhodes.....	161	136	.....	.....	304
Seymour.....	90	89	.....	.....	179
Shawano.....	72	69	.....	.....	132
Shawano town.....	151	99	.....	.....	224
Shawano city.....	105	392	12	10	499
Washington.....	239	216	.....	.....	455
Waukegan.....	218	197	.....	.....	435
Total.....	3,518	3,018	26	13	6,635

*Stockbridge Indian.

SHEBOYGAN COUNTY.

Greenbush.....	1,094	969	.....	.....	1,973
Herman.....	1,122	1,085	.....	.....	2,207
Holland.....	1,572	1,092	.....	.....	2,975
Lima.....	1,167	1,149	.....	.....	2,316
London.....	967	.....	1	.....	1,688
Michigan.....	677	741	.....	.....	1,414
Missil.....	555	511	.....	.....	1,092
Portsmouth.....	1,269	1,200	.....	.....	2,567
Rhine.....	292	236	.....	.....	526
Russell.....	254	267	.....	.....	524
Spartan.....	1,034	739	.....	.....	1,754
Sheboygan town.....	799	749	.....	.....	1,596
Sheboygan city.....	567	1,431	.....	.....	1,996
First ward.....	117	192	.....	.....	242
Second ward.....	73	181	.....	.....	212
Third ward.....	73	181	.....	.....	212
Fourth ward.....	919	853	.....	.....	1,877
Sheboygan Falls.....	1,179	1,192	.....	.....	1,900
Sheboygan Falls village.....	612	563	.....	.....	1,177
Shorttall.....	824	815	.....	.....	1,687
Wilson.....	646	617	.....	.....	1,222
Total.....	11,268	10,772	1	.....	19,211

TREMPEALEAU COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Armadilla.....	1,161	1,265	.....	.....	2,892
Albion.....	201	169	.....	.....	370
Barraboo.....	547	493	.....	.....	1,010
Chisholm.....	297	212	.....	.....	510
Dodge.....	285	261	.....	.....	576
Edmore.....	274	241	.....	.....	1,515
Edmore.....	889	856	.....	.....	1,745
Hole.....	577	463	.....	.....	1,020
LaPointe.....	419	355	.....	.....	743
Prescott.....	759	799	3	.....	1,464
Prison.....	39	493	.....	.....	539
Sartor.....	406	412	.....	.....	858
Trempealeau.....	882	795	1	1,678
Total.....	7,844	7,144	4	14,992

TAYLOR COUNTY.

Madison.....	542	297	7	3	849
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VERNON COUNTY.

Bergen.....	476	458	1	1	936
Chisholm.....	614	610	1,224
Chisholm.....	484	456	939
Concord.....	508	451	.....	.....	957
Edmore.....	561	313	55	53	879
Edmore.....	515	678	.....	.....	1,311
Edmore.....	478	379	.....	.....	715
Edmore.....	431	431	.....	.....	862
Harrison.....	656	809	.....	.....	1,219
Harrison.....	519	477	.....	.....	1,016
Hillsborough.....	581	525	.....	.....	1,108
Jackson.....	642	572	.....	.....	1,254
Kaibab.....	551	501	.....	.....	1,115
Liberty.....	251	223	.....	.....	447
Shark.....	461	415	.....	.....	899
Shark.....	694	621	.....	.....	1,250
Union.....	355	266	1	1	623
Union.....	1,046	920	.....	.....	2,016
Wells.....	242	479	1	.....	606
Windsor.....	412	311	.....	.....	883
Windsor.....	343	344	.....	.....	717
Total.....	11,166	10,215	38	55	21,524

WALWORTH COUNTY.

Bloomfield.....	291	516	.....	.....	1,107
Dodge.....	513	529	.....	.....	1,142
Dodgeville.....	879	875	7	9	1,775
Dodgeville.....	287	269	.....	.....	764
Dodgeville.....	794	883	.....	.....	1,389
Dodgeville.....	100	569	.....	.....	1,269
Dodgeville.....	829	814	.....	.....	1,649
Dodgeville.....	741	498	1	.....	1,010
Dodgeville.....	514	465	.....	.....	1,009
Dodgeville.....	319	416	.....	.....	745
Dodgeville.....	433	427	.....	.....	820
Dodgeville.....	736	664	.....	.....	1,250
Dodgeville.....	115	115	.....	.....	230
Dodgeville.....	1,001	923	7	8	1,939
Dodgeville.....	506	574	.....	.....	1,180
Dodgeville.....	562	416	.....	.....	978
Dodgeville.....	719	824	.....	.....	1,441
Dodgeville.....	575	616	.....	.....	1,270
Dodgeville.....	2,069	2,122	2	8	4,295
Total.....	13,119	13,095	18	25	26,259

WASHINGTON COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Addison.....	671	875	.....	.....	1,546
Barston.....	560	659	1	.....	1,220
Erin.....	612	751	.....	.....	1,363
Farmington.....	878	874	.....	.....	1,752
German town.....	1,010	675	.....	.....	1,685
Hartford.....	1,075	1,321	3	.....	2,399
Jackson.....	1,128	1,014	.....	.....	2,142
Kewaskum.....	1,101	705	.....	.....	1,806
Polk.....	966	820	.....	.....	1,786
Richfield.....	822	839	.....	.....	1,661
Schlesinger Vill.....	570	1,000	.....	.....	1,570
Trenton.....	1,067	697	.....	.....	1,764
Wayne.....	875	895	.....	.....	1,770
West Bend Town.....	473	114	.....	.....	587
West Bend Village.....	91	624	.....	.....	1,225
Total.....	12,882	11,576	4	.....	23,862

WAUKESHA COUNTY.

Brookfield.....	1,128	1,095	.....	.....	2,223
Delafield.....	742	736	1	.....	1,479
Eagle.....	617	695	.....	.....	1,312
Geneseo.....	746	1,044	.....	.....	1,790
Lisbon.....	751	758	.....	.....	1,509
Menomonie.....	1,275	1,113	.....	.....	2,388
Metoll.....	742	752	.....	.....	1,494
Muskogee.....	769	684	.....	.....	1,453
New Berlin.....	887	820	.....	.....	1,707
Orford.....	494	119	.....	.....	613
Oconomowoc Town.....	729	710	.....	.....	1,439
Oconomowoc City.....	946	1,115	4	4	2,171
Pewaukee.....	1,134	1,036	4	5	2,180
Summit.....	619	539	.....	.....	1,158
Verona.....	667	588	.....	.....	1,255
Waukesha Town.....	1,021	709	4	.....	1,734
Waukesha Village.....	1,758	1,191	51	16	2,967
Total.....	13,149	14,199	53	20	26,425

WAUPACA COUNTY.

Bear Creek.....	394	384	.....	.....	778
Caldonia.....	478	451	.....	.....	929
Daxton.....	375	369	1	.....	745
Harmon.....	172	129	.....	.....	301
Farmington.....	411	564	.....	.....	975
Fremont.....	411	564	.....	.....	975
Helix.....	111	112	.....	.....	223
Iola.....	788	114	.....	.....	902
Lafayette.....	788	775	.....	.....	1,563
Lebanon.....	788	775	.....	.....	1,563
Leola.....	788	775	.....	.....	1,563
Little Wolf.....	788	775	.....	.....	1,563
Milwaukee.....	112	112	.....	.....	224
Muskegon.....	559	426	.....	.....	985
New London.....	875	831	2	4	1,682
Raymond.....	711	465	.....	.....	1,176
Scandinavia.....	711	465	.....	.....	1,176
St. Lawrence.....	118	297	.....	.....	415
Tipton.....	297	184	.....	.....	481
Waupaca City.....	112	112	2	.....	224
Waupaca.....	112	112	.....	.....	224
Wyanoga.....	297	184	.....	.....	481
Wyanoga Village.....	12	888	.....	.....	900
Total.....	10,116	9,421	7	1	19,445

WAUSHARA COUNTY.

TOWNS, CITIES AND VILLAGES.	POPULATION.				
	White.		Colored.		Aggregate.
	Male.	Female.	Male.	Female.	
Arthur.....	537	473	4	6	1,020
Bloomfield.....	693	656	.....	.....	1,349
Conant.....	137	147	.....	.....	284
Dodge.....	756	244	.....	.....	1,000
Dowdell.....	129	114	.....	.....	243
Hartwick.....	224	256	.....	.....	480
Leon.....	433	390	.....	.....	823
Mount Morris.....	219	271	.....	.....	490
North.....	500	369	.....	.....	869
Oshkosh.....	331	277	.....	.....	608
Port Hope.....	429	292	.....	.....	721
Portland.....	473	447	.....	.....	920
Rice.....	193	185	.....	.....	378
Richfield.....	180	186	.....	.....	366
Saukville.....	784	319	.....	.....	1,103
Stoughton.....	235	229	.....	.....	464
Whitewater.....	392	325	.....	.....	717
Wintona.....	347	591	.....	.....	938
Total.....	5,953	5,560	4	6	11,523

WINNEBAGO COUNTY.

Albion.....	394	367	.....	.....	761
Black Wolf.....	459	438	.....	.....	897
Carleton.....	691	609	.....	.....	1,300
Menasha.....	389	331	.....	.....	720
Winnebago.....	1,579	1,821	.....	.....	3,400
Neenah.....	236	252	3	3	484
Neshkum.....	697	578	.....	.....	1,275
Northport.....	373	350	.....	.....	723
Neenah City.....	2,062	1,961	.....	.....	4,023
Oshkosh.....	610	510	1	3	1,124
Harmon.....	1,622	1,690	.....	.....	3,312
Oshkosh City.....	674	8,263	11	11	10,059
Port Hope.....	414	405	.....	.....	819
Winnebago City.....	1,075	1,018	3	3	2,099
Ellettsville.....	199	199	.....	.....	398
Amherst.....	588	554	.....	.....	1,142
Winchester.....	799	525	.....	.....	1,324
Winnebago.....	1,312	1,240	4	4	2,560
Wolf River.....	460	417	.....	.....	877
Total.....	23,106	21,825	51	51	45,033

WOOD COUNTY.

Amherst.....	132	74	.....	.....	206
Central City.....	129	271	1	.....	400
Dodge.....	291	113	.....	.....	404
Geneseo.....	689	291	.....	.....	980
Central City.....	176	247	3	1	427
Union.....	119	164	.....	.....	283
Port Hope.....	119	117	.....	.....	236
Richfield.....	235	229	.....	.....	464
Stoughton.....	179	144	.....	.....	323
Stoughton City.....	179	144	.....	.....	323
Stoughton.....	23	201	1	.....	224
Stoughton Village.....	187	175	.....	.....	362
Woodville.....	125	104	.....	.....	229
Total.....	3,241	2,750	6	1	6,048

POPULATION BY COUNTIES.

SUMMARY FROM STATE AND FEDERAL CENSUS.

COUNTIES.	1840.	1850.	1855.	1860.	1865.	1870.	1875.
Adams		187	6,868	6,192	5,698	6,601	6,502
Ashland				515	256	221	750
Barron				14		578	3,757
Bay field				375	269	314	1,032
Brown	2,107	6,215	6,699	11,795	15,282	23,178	25,373
Buffalo				3,894	6,776	11,743	11,219
Burnett				12	141	406	1,456
Calumet	275	1,743	3,641	7,895	8,698	12,435	15,065
Chippewa		615	1,295	1,295	1,831	8,311	13,993
Clark			292	789	1,041	3,499	7,282
Columbia		9,765	17,965	24,441	26,112	28,804	28,803
Crawford		2,748	2,323	8,008	11,011	13,075	18,095
Dane	1,702	46,639	45,714	48,922	50,942	53,096	52,768
Dodge	67	19,138	31,540	42,818	46,841	47,035	48,394
Douglas			729	2,018	3,258	4,019	8,029
Dunn			1,097	8,422	11,222	14,722	13,427
Eau Claire			2,704	2,704	5,179	9,488	13,427
Fond du Lac		14,510	21,754	31,154	35,281	40,769	45,991
Grant		926	21,770	31,899	24,848	36,479	30,086
Green		933	14,827	19,808	20,646	22,611	22,611
Green Lake			15,265	12,664	12,709	15,795	15,774
Iowa		3,978	9,222	18,967	20,976	23,344	24,414
Jefferson		914	11,98	31,148	30,597	31,059	31,903
Jordan				87,70	100,14	12,096	17,700
Kenosha		10,734	12,397	13,900	12,656	13,477	14,607
Kewaunee			1,409	5,540	7,039	10,281	14,405
Lafayette			3,904	12,186	18,831	20,295	20,043
Laporte			11,521	16,094	18,134	20,438	22,667
Lincoln						22,667	22,667
Manitowish	235	3,702	13,018	22,416	26,769	33,306	38,459
Marathon		489	447	2,822	2,678	3,885	10,711
Marquette	18	598	1,427	8,243	7,367	8,967	8,967
Milwaukee	5,605	31,077	46,265	62,518	65,230	80,936	122,927
Monroe			2,407	8,410	11,752	16,362	21,256
Oconto			1,561	3,512	4,788	8,422	13,812
Outagamie			4,914	5,587	11,832	18,440	25,578
Ozaukee			14,973	15,682	14,882	15,579	16,715
Pepin			2,392	3,092	3,092	4,659	5,816
Pierce			1,759	3,672	6,221	10,003	15,101
Polk			517	1,400	1,677	2,677	6,775
Portage	1,624	1,250	5,121	7,597	8,411	10,433	13,896
Racine	3,475	14,974	20,674	21,660	22,881	26,742	28,102
Reichland			5,534	9,732	12,184	17,716	17,716
Rock	1,791	29,770	31,264	36,990	36,013	39,019	39,019
St. Croix	809	624	2,010	3,422	3,725	11,039	11,039
Sauk	102	4,771	15,644	18,905	20,154	21,868	26,942
Shawano			257	879	1,670	2,165	2,165
Shelburne						31,773	34,041
Taylor	133	8,370	20,341	26,877	27,614	31,773	34,041
Trempealeau			302	7,555	7,199	10,728	11,819
Vernon			4,823	11,007	13,654	18,673	25,254
Walworth	2,611	17,862	22,692	26,196	25,771	29,992	26,259
Washington	343	16,185	17,632	17,010	17,010	21,905	25,862
Waushara			2,408	4,811	6,221	11,039	15,878
Wauwaga			4,127	8,251	11,098	15,333	16,646
Wausau			5,341	8,770	12,092	11,759	11,759
Winnebago	135	10,167	17,439	23,759	26,667	32,435	35,749
Wood			2,425	2,425	2,425	3,911	6,018
Total	30,945	205,991	552,110	775,881	898,425	1,054,870	1,259,799

In a note to the territory of Indiana it thus appears the following: "On the 1st of August, 1890, Prairie du Chien, on the Mississippi, had 65, and Green Bay 50 inhabitants.

NATIVITY BY COUNTIES.

CENSUS OF 1850.

COUNTIES.	NATIVE.		FOREIGN BORN.											
	Born in U. S.	Born in Wis.	Total.	British America.	England & Wales.	Ireland.	Scotland.	Germany.	France.	Sweden & Norway.	Polonia.	Switzerland.	Holland.	Denmark.
Adams	5,351	2,649	1,250	137	142	225	26	133	5	552	4		6	32
Ashland	174	47	148	47	4	4	1	1	.....	.....	.....	.....	.....	.....
Barren	246	142	292	157	14	7	7	41	.....	98	.....	14	.....	.....
Bayfield	288	175	366	173	4	4	.....	23	.....	165	.....	.....	.....	.....
Berksh.	14,728	11,068	16,440	1,687	2,232	1,442	112	2,773	.....	451	105	.....	.....	.....
Burling.	6,534	4,455	4,269	273	56	242	125	1,991	.....	556	67	941	.....	371
Burnett	144	100	161	14	4	4	1	1	.....	551	.....	.....	.....	.....
Calumet	7,061	5,952	1,061	167	167	500	13	3,207	.....	51	168	.....	.....	.....
Chippewa	7,725	2,764	1,447	120	417	417	15	1,075	.....	34	439	31	35	29
Clark	2,731	1,166	690	226	81	45	18	2,25	.....	4	439	79	1	.....
Columbia	19,632	12,273	3,711	2,015	1,312	629	629	2,744	.....	1,315	34	67	44	46
Crawford	9,612	5,878	3,464	3,464	3,017	909	48	619	.....	73	764	401	29	11
Dane	31,156	22,778	16,641	1,671	2,975	415	6,276	169	6,691	135	216	17	131	3
Dodge	28,708	20,924	12,327	3,675	1,246	301	236	12,456	.....	384	165	97	44	46
Douglas	2,809	1,672	2,117	290	89	228	23	429	.....	157	513	16	17	15
Douglas	712	340	410	142	41	66	6	60	.....	4	94	2	2	3
Dunn	6,268	3,177	3,220	132	147	227	51	812	.....	17	1,376	41	51	.....
Emmenet	7,294	3,776	3,757	767	242	437	74	845	.....	24	871	39	21	.....
Fond du Lac	31,427	20,112	11,546	1,264	1,291	3,542	317	7,727	.....	125	156	184	98	.....
Grant	28,595	19,390	9,414	1,846	2,551	1,251	189	2,722	.....	82	513	347	118	13
Green	18,332	10,613	5,079	2,22	3,98	912	50	892	.....	39	1,017	1,247	12	.....
Green Lake	9,068	4,753	4,097	400	592	432	62	2,614	.....	.....	.....	.....	.....	.....
Iowa	13,266	12,662	9,178	316	3,874	1,229	86	1,347	.....	11	1,614	315	31	3
Jackson	5,764	2,966	3,243	291	154	172	92	270	.....	29	91	12	16	15
Jefferson	21,737	13,467	12,244	3,609	913	1,097	182	8,115	.....	41	359	114	19	.....
Juniata	9,494	5,749	3,011	236	395	1,194	81	548	.....	11	379	.....	11	55
Kenosha	9,069	5,279	4,084	158	650	843	100	2,042	.....	39	29	11	30	.....
Kewaunee	4,642	4,262	2,86	179	37	314	16	1,611	.....	25	2,011	27	48	44
Lafayette	11,695	6,759	8,62	530	750	488	109	2,521	.....	57	2,119	489	271	94
La Fayette	15,975	11,216	6,724	186	2,281	2,345	111	727	.....	17	692	21	21	.....
Madison	16,888	13,109	16,366	318	223	1,133	73	6,375	.....	45	1,426	153	51	38
Manitowish	3,149	2,241	2,116	139	191	26	22	275	.....	19	.....	.....	.....	.....
Marquette	5,128	3,412	2,228	151	251	597	198	1,011	.....	1	31	1	.....	5
Milwaukee	47,087	37,487	42,215	1,977	4,694	3,693	502	10,019	.....	288	676	1,524	417	180
Monroe	12,514	6,772	4,058	356	310	611	1,601	39	.....	39	573	40	1	.....
Oconto	1,591	2,677	3,750	1,635	111	422	38	77	.....	23	521	72	60	.....
Outagamie	11,731	8,966	6,689	1,716	177	792	85	2,262	.....	41	54	78	56	.....
Oriskany	8,778	8,214	6,878	1,110	648	475	18	3,124	.....	.....	.....	.....	.....	.....
Polk	3,751	1,612	1,298	318	91	118	29	399	.....	27	181	.....	7	.....
Portage	7,160	6,118	2,498	210	102	422	31	449	.....	16	1,052	1	76	19
Price	1,219	951	1,121	191	46	102	19	172	.....	2	153	.....	1	106
Racine	7,213	4,327	3,421	491	247	359	69	1,224	.....	27	795	71	5	.....
Racine	15,949	11,716	16,291	250	1,858	1,049	289	3,879	.....	52	1,088	104	67	46
Rechenland	1,654	1,172	1,172	168	224	421	16	181	.....	25	237	124	13	.....
Rock	39,732	15,264	8,745	1,282	2,859	1,600	1,112	4,147	.....	87	1,375	6	50	.....
Sauk	17,108	9,795	3,86	765	636	103	417	67	.....	93	6	691	31	9
Shtawab	1,688	1,422	1,172	27	27	27	5	1,099	.....	146	.....	12	23	.....
St. Croix	19,131	11,657	13,727	1,611	2,043	61	88	8,076	.....	119	.....	.....	1,682	.....
St. Croix	7,451	4,178	3,584	146	150	1,292	57	294	.....	6	610	99	38	71
Trempealeau	6,639	3,720	4,292	209	185	286	114	776	.....	22	274	41	16	.....
Vernon	17,045	5,040	1,841	189	87	671	67	671	.....	39	2,128	283	35	.....
Washburn	20,822	11,214	5,159	341	921	1,729	148	1,173	.....	11	470	1	46	15
Washington	11,868	12,041	10,673	97	119	882	35	2,21	.....	143	46	296	79	.....
Waukesha	18,718	11,001	2,065	1,264	397	70	1,112	4,147	.....	.....	.....	.....	.....	.....
Waupaca	11,911	7,455	8,228	269	315	60	1,244	.....	.....	.....	.....	.....	.....	.....
Waushara	8,792	4,328	2,777	244	598	397	42	876	.....	11	29	3	3	.....
Winnebago	25,209	14,227	12,620	1,578	1,511	1,299	146	5,241	.....	51	702	26	360	.....
Wood	2,538	1,381	1,374	646	42	171	34	259	.....	5	189	.....	23	51

ACREAGE OF PRINCIPAL CROPS GROWN IN 1876.

COUNTIES.	NUMBER OF ACRES.						Clover Seed, Bushels.
	Cultivated Grasses.	Potatoes.	Roots.	Apples.	Cultivated Ornamentals.	Timber.	
Adams.....	3,161	771	6	58	48	25,640	553
Ashland.....	241	266	77	.....	.....	13,324,000	.....
Baycon.....	1,846	341	55	28	.....	24,175	.....
Bayfield.....	100	30	.....	.....	.....	.....	.....
Brown.....	.....	130	.....	.....	.....	.....	.....
Buttala.....	5,769	809	25	219	.....	12,739	.....
Burnett.....	39	120	17	.....	4,000	.....	.....
Calumet.....	13,391	1,017	37	552	.....	57,463	1,733
Chippewa.....	.....	425	.....	.....	.....	126,000	.....
Clark.....	9,348	.....	.....	78	.....	51,879	1,689
Colombia.....	22,226	1,913	104	1,534	36	.....	50
Crawford.....	2,625	2,193	648	2,100	.....	.....	2,600
Dallas.....	5,219	3,755	80	4,840	30	111,493	2,400
Dodge.....	20,322	3,780	89	16,251	.....	49,360	2,480
Dorset.....	277	.....	.....	.....	.....	500,000	.....
Douglas.....	100	10	219	2	.....	5,114	8
Dunn.....	10,032	989	.....	61	.....	.....	.....
Eau Claire.....	.....	2,703	61	2,935	.....	41,985	1,500
Fond du Lac.....	37,742	3,038	.....	2,766	.....	126,116	3,848
Grant.....	38,856	1,150	16	5,600	.....	20,313	1,037
Green.....	1,020	921	5	1,467	45	22,305	506
Iowa.....	15,566	1,603	46	1,877	.....	51,626	1,545
Jackson.....	2,736	730	41	100	520	53,880	1,07
Jefferson.....	17,497	2,200	61	2,241	.....	34,574	5,279
Jennings.....	8,505	1,728	52	304	2,577	.....	781
Kenosha.....	29,850	1,060	187	2,170	.....	10,806	1,321
Kewaunee.....	2,905	1,487	10	44	.....	31,571	1,174
Lafayette.....	17,350	721	69	2,9	2	29,763	30
La Fayette.....	23,719	1,633	26	994	.....	24,037	1,007
Linn.....	39,266	2,106	108	689	.....	257,341	7,745
Marathon.....	5,154	667	12	46	.....	.....	.....
Marquette.....	2,227	926	50	1,826	151	30,225	1,023
Menasha.....	20,577	3,000	1,271	1,943	1	16,211	111
Monroe.....	14,217	1,720	99	406	4,412	33,756	1,666
Oconto.....	6,170	826	71	.....	20	.....	.....
Oncago.....	11,081	54	108	1,534	1	19,434	97
Oshkosh.....	8,528	1,566	100	1,266	.....	22,077	1,349
Peppin.....	1,201	724	41	77	.....	182,671	121
Peter.....	3,741	501	178	11	.....	.....	.....
Portage.....	10,112	2,078	128	609	580	52,150	343
Racine.....	21,517	1,758	187	16,091	.....	28,715	800
Richland.....	18,943	1,176	108	1,424	.....	73,391	2,100
Rock.....	57,124	2,940	122	3,676	.....	57,883	5,316
St. Croix.....	11,233	1,176	10	10	.....	2,600	80
Stark.....	3,293	3,293	108	1,534	.....	8,000	1,218
Shawano.....	4,111	548	64	76	3,101	80,532	16
Shouabon.....	49,121	2,725	143	1,730	.....	68,057	10,738
Taylor.....	18,707	2,000	71	.....	.....	.....	.....
Trempealeau.....	18,107	878	11	278	1	12,149	270
Vernon.....	30,107	1,211	110	719	.....	91,194	1,144
Walworth.....	35,093	2,756	178	1,256	.....	50,221	2,788
Washington.....	18,372	4,831	64	50,000	17	10,080	16,680
Winnebago.....	25,629	3,922	8,419	1,812	30	42,400	1,229
Winchester.....	1,549	1,045	98	203	.....	8,283	610
Wausau.....	9,740	1,242	47	834	1,054	66,510	117
Waushara.....	2,443	1,600	35	1,261	194	28,717	720
Wood.....	205	100	.....	400	.....	91,242	.....
Total.....	884,018	12,120	13,623	129,895	17,963	4,090,226	78,945

ABSTRACT OF LAWS.

WISCONSIN.

ELECTORS AND GENERAL ELECTIONS.

SEC. 12. Every male person of the age of twenty-one years or upward, belonging to either of the following classes, who shall have resided in the State for one year next preceding any election, shall be deemed a qualified elector at such election :

1. Citizens of the United States.
2. Persons of foreign birth who shall have declared their intention to become citizens conformably to the laws of the United States on the subject of naturalization.
3. Persons of Indian blood who have once been declared by law of Congress to be citizens of the United States, any subsequent law of Congress to the contrary notwithstanding.
4. Civilized persons of Indian descent not members of any tribe. Every person convicted of bribery shall be excluded from the right of suffrage unless restored to civil rights ; and no person who shall have made or become directly or indirectly interested in any bet or wager depending upon the result of any election at which he shall offer to vote, shall be permitted to vote at such election.

SEC. 13. No elector shall vote except in the town, ward, village or election district in which he actually resides.

SEC. 14. The general election prescribed in the Constitution shall be held in the several towns, wards, villages and election districts on the Tuesday next succeeding the first Monday in November in each year, at which time there shall be chosen such Representatives in Congress, Electors of President and Vice President, State officers, and county officers as are by law to be elected in such year.

SEC. 15. All elections shall be held in each town at the place where the last town-meeting was held, or at such other place as shall have been ordered at such last meeting, or as shall have been ordered by the Supervisors when they establish more than one election poll, except that the first election after the organization of a new town shall be held at the place directed in the act or proceeding by which it was organized ; and all elections in villages constituting separate election districts and in the wards of cities, shall be held at the place to be ordered by the Trustees of such village, or the Common Council of such city, at least ten days before such election, unless a different provision is made in the act incorporating such village or city.

SEC. 16. Whenever it shall become impossible or inconvenient to hold an election at the place designated therefor, the Board of Inspectors, after having assembled at or as near as practicable to such place, and before receiving any votes may adjourn to the nearest convenient place for holding the election, and at such adjourned place shall forthwith proceed with the election. Upon adjourning any election as hereinbefore provided, the Board of Inspectors shall cause proclamation thereof to be made, and shall station a Constable or some other proper person at the place where the adjournment was made, to notify all electors arriving at such place of adjournment, and the place to which it was made.

SEC. 20. A registry of electors shall annually be made:

1. In each ward or election district of every city which, at the last previous census, had a population of three thousand or more.
2. In each ward or election district of every incorporated village in which, by law, separate elections are held; which village at the last preceding census, had a population of fifteen hundred or more.
3. In every town containing a village which, at said census, had a population of fifteen hundred or more, in which village separate general elections are not by law required to be held.
4. In all towns any part of which shall have been embraced in any part of any city or village in which a registration by this chapter is required.

Such registration shall be made in the manner provided by this chapter. The persons authorized by law to act as Inspectors of Election in each of such towns, wards or election districts shall constitute the Board of Registry therefor.

SEC. 21. The said Inspectors shall have their first meeting on Tuesday, four weeks preceding each general election, at the place where said election is to be held; and in election districts at which there were polled at the previous general election three hundred votes or less, they shall sit for one day, and in districts at which there were more than three hundred votes polled, they shall have power to sit two days if necessary, for the purpose of making such list. They shall meet at 9 o'clock in the forenoon and hold their meetings open until 8 o'clock in the evening of each day during which they shall so sit. The Clerks appointed by law to act as Clerks of Election shall act as Clerks of the Board of Registry on the day of election only. The proceedings shall be open, and all electors of the district shall be entitled to be heard in relation to corrections or additions to said registry. They shall have the same powers to preserve order which Inspectors of Election have on election days, and in towns vacancies in the Board shall be filled in the same manner that vacancies are filled at elections.

SEC. 22. The said Inspectors at their first meeting, and before doing any business, shall severally take and subscribe the oath of Inspectors at a general election, and said Inspectors shall at their first meeting make a registry of all the electors of their respective districts, placing thereon the full names, alphabetically arranged according to surnames, in one column, and in another the residence by number and name of street or other location, if known. If any elector's residence is at any hotel or public boarding-house the name of the hotel or boarding-house shall be stated in the registry. They shall put thereon the names of all persons residing in their election district appearing on the poll-list kept at the last preceding general election, and are authorized to take therefor such poll-list from the office where kept, omitting such as have died or removed from the district, and adding the names of all other persons known to them to be electors in such district. In case of the formation of a new election district since the last preceding general election, the said Board therein may make such registry from the best means at their command, and may, if necessary, procure therefor certified copies of the last poll-list. They shall complete said registry as far as practicable at their first meeting, and shall make four copies thereof, and certify the original and each copy to be a true list of the electors in their district so far as the same are known to them. One of said copies shall be immediately posted in a conspicuous place in the room in which their meeting was held, and be accessible to any elector for examination or making copies thereof, and one copy shall be retained by each Inspector for revision and correction at the second meeting. They shall within two days after said first meeting file the original registry made by them, and said poll-list in the office of the proper town, city or village clerk, and may, in their discretion, cause ten printed copies of said registry to be made and posted in ten of the most public places of said election district, or may publish the same in a newspaper at an expense not exceeding one cent for each name.

SEC. 23. The Inspectors shall hold their second meeting at the same place designated for holding elections on the Tuesday two weeks preceding the election. They shall meet at 9 o'clock in the forenoon. In election districts having less than three hundred voters, as shown by the

preliminary registry, the Board shall complete the registry on the same day; but if there are more than that number of voters, they shall sit two days. They shall remain in session until 8 o'clock in the evening. They shall revise and correct the registry first by erasing the name of any person who shall be proved to their satisfaction by the oaths of two electors of the district to be not entitled to vote therein at the next ensuing election, unless such person shall appear and be challenged, shall answer the questions and take the oath hereinafter provided; secondly, by entering thereon the names of every elector entitled to vote in the district at the next election who shall appear before the Board and require it, and state his place of residence, giving street and number, if numbered, or location, as hereinbefore provided, if challenged answer the questions, and take the oaths provided in case of challenge at an election; but if any person shall refuse to answer all such questions or to take such oath, his name shall not be registered. Any person who is not twenty-one years of age before the date when the registry is required to be corrected, but will be if he lives until the day of election, shall have his name put on the registry if he be otherwise qualified to be an elector. Any elector who did not vote at the previous general election shall be entitled to be registered either at the preliminary or the final registration of electors by appearing before the Board of Registration of his election district and establishing his right to be registered, or, instead of a personal appearance, he may make his application to be registered to the Board in writing. Such application shall state the name and period of continuous residence in the election district and place of residence therein, giving the number and street of the applicant, and, in case the person making the application is of foreign birth, he shall state when he came to the United States and to the State of Wisconsin, and the time and place of declaring his intention of becoming a citizen of the United States, and that he is entitled to vote at the election. Upon receiving such application, the Board of Registration shall register the name of such applicant, if it appears to the Board that the applicant is, by his statement, entitled to vote. Such statement shall be made under oath, and shall be preserved by the Board and be filed in the office of the village or city clerk, as the case may be. All city and village clerks shall keep blanks for making the application for registration, as provided by this section. The form shall be prescribed by the Secretary of State. Every person named in this section shall be subject to the same punishment for any false statement or other offense in respect thereto as is provided in case of such false statement or other offense by an elector offering to vote at an election. After such registry shall have been fully completed on the days above mentioned, no name shall be added thereto by any person or upon any pretext. Within three days after the second meeting the said Board shall cause four copies of the registry to be made, each of which shall be certified by them to be a correct registry of the electors of their district, one of which shall be kept by each Inspector for use on election day, and one shall forthwith be filed in the office of the proper town, city or village clerk. All registries shall at all times be open to public inspection at the office where deposited without charge.

SEC. 24. On election day the Inspectors shall designate two of their number at the opening of the polls, who shall check the names of every elector voting in such district whose name is on the registry. No vote shall be received at any general election in any ward or election district defined in Section 20, if the name of the person offering to vote be not on said registry made at the second meeting as aforesaid, except as hereinafter provided; but in case any one shall, after the last day for completing such registry, and before such election, become a qualified voter of the district, he shall have the same right to vote therein at such election as if his name had been duly registered, provided he shall, at the time he offers to vote, deliver to the Inspectors his affidavit, in which he shall state the facts, showing that he has, since the completion of such registry, become a qualified elector of such district, and the facts showing that he was not such elector on the day such registry was completed, and shall also deliver to such Inspectors the affidavits of two freeholders, electors in such election district, corroborating all the material statements in his affidavit. In case any person who was a voter at the last previous general election shall not be registered, such person shall be entitled to vote on making affidavit that he was entitled to vote at the previous election, and that he has not become disqualified by reason of removal

from the election district or otherwise, since that election, which affidavit shall also be corroborated by the affidavits of two freeholders, as is provided for other non-registered voters. No one freeholder shall be competent to make at any one election corroborating affidavits for more than three voters. All of said affidavits shall be sworn to before some officer authorized by the laws of this State to take depositions. The Inspectors shall keep a list of the names and residence of the electors voting whose names are not on said completed registry, and attach said list to the registry and return it, together with all such affidavits, to the proper town, city or village clerk. No compensation shall be paid or received for taking or certifying any such affidavits. On the day following the election, one of said poll-lists and one copy of the registry so kept and checked shall be attached together and filed in the office of the proper town, city or village clerk, and the other of said poll-lists and copy of the registry so kept and checked shall be returned to the County Clerk with the returns of the election. Such Inspectors shall give notice by advertisement in a newspaper printed in the city, village or town where such registration was made, of the registry, and shall include in such notice all additions to and omissions from the preliminary list, and shall also state where the election is to be held. In case there be no newspaper printed in such city, village or town, such notice shall be given by posting copies thereof in three or more public places in each ward or election district in such city, village or town. For publication of such notice in any such newspaper the publisher thereof shall be entitled to the same compensation per folio as is prescribed for publishing other legal notices.

COMMON SCHOOLS.

SEC. 413. The formation of any school district shall be by written order of the Town Board, describing the territory embraced in the same, to be filed with the Town Clerk within twenty days after the making thereof. The Supervisors shall deliver to a taxable inhabitant of the district their notice thereof in writing, describing its boundaries, and appointing a time and place for the first district meeting, and shall therein direct such inhabitant to notify every qualified voter of the district, either personally or by leaving a written notice at his place of residence, of the time and place of such meeting, at least five days before the time appointed herefor, and said inhabitant shall notify the voters of such district accordingly, and indorse thereon a return containing the names of all persons thus notified, and said notice and return shall be recorded as a part of the record of the first meeting in such district.

SEC. 414. In case such notice shall not be given, or the inhabitants of a district shall neglect or refuse to assemble and form a district meeting when so notified, or in case any school district having been formed or organized shall afterward be disorganized, so that no competent authority shall exist therein to call a special district meeting, in the manner hereinafter provided, notice shall be given by the Town Board, and served in the manner prescribed in the preceding section. Whenever a district meeting shall be called as prescribed in this and the preceding section, it shall be the duty of the electors of the district to assemble at the time and place so directed.

SEC. 415. Whenever it shall be necessary to form a district from two or more adjoining towns, the Town Boards of such towns shall meet together and form such districts by their written order, describing the territory embraced in such district, signed by at least two of the Supervisors of each town; and shall file one such order with the Town Clerk of each town, and deliver the notice of formation to a taxable inhabitant of such district, and cause the same to be served and returned in the time and manner hereinbefore prescribed; and any such district may be altered only by the joint action of the Town Boards of such towns in the same manner that other districts are altered.

SEC. 416. Every school district shall be deemed duly organized when any two of the officers elected at the first legal meeting thereof shall have consented to serve in the offices to which they have been respectively elected, by a written acceptance thereof filed with the clerk of the first meeting, and recorded in the minutes thereof; and every school district shall be considered

as duly organized after it shall have exercised the franchises and privileges of a district for the term of two years.

SEC. 425. The annual meeting of all school districts in which graded schools of two or more departments are taught, shall be held on the second Monday of July, and of all other school districts on the last Monday of September, in each year. The hour of such meeting shall be seven o'clock in the afternoon, unless otherwise provided by a vote of the district, duly recorded at the last previous annual meeting; but at any annual meeting a majority of the electors present may determine that the annual meeting of such district shall be held on the last Monday of August instead of the last Monday of September. Said determination to take effect when a copy of the proceedings of said annual meeting in reference to such change shall have been filed with the Town Clerk in which the schoolhouse of such district is situated, and to remain in force until rescinded by a like vote of the electors of such district.

SEC. 426. The Clerk shall give at least six days' previous notice of every annual district meeting, by posting notices thereof in four or more public places in the district, one of which shall be affixed to the outer door of the schoolhouse, if there be one in the district, and he shall give like notices for every adjourned district meeting when such meeting shall have been adjourned for more than one month; but no annual meeting shall be deemed illegal for want of due notice, unless it shall appear that the omission to give such notice was willful and fraudulent.

SEC. 427. Special district meetings may be called by the Clerk, or, in his absence, by the Directors or Treasurer, on written request of five legal voters of the district, in the manner prescribed for calling an annual meeting; and the electors, when lawfully assembled at a special meeting, shall have power to transact the same business as at the first and each annual meeting, except the election of officers. The business to be transacted at any special meeting shall be particularly specified in the notices calling the same, and said notices shall be posted six full days prior to the meeting. No tax or loan or debt shall be voted at a special meeting, unless three-fourths of the legal voters shall have been notified, either personally or by a written notice left at their places of residence, stating the time and place and objects of the meeting, and specifying the amount proposed to be voted, at least six days before the time appointed therefor.

SEC. 428. Every person shall be entitled to vote in any school district meeting who is qualified to vote at a general election for State and county officers, and who is a resident of such school district.

ASSESSMENT AND COLLECTION OF DISTRICT TAXES.

SEC. 469. All school district taxes, unless otherwise specially provided by law, shall be assessed on the same kinds of property as taxes for town and county purposes; and all personal property which, on account of its location or the residence of its owner, is taxable in the town, shall, if such locality or residence be in the school district, be likewise taxable for school district purposes.

BORROWING MONEY.

SEC. 474. Whenever, upon any unusual exigency, any school district shall, before the annual meeting, vote a special tax to be collected with the next levy, the district may, by vote, authorize the District Board to borrow for a period not exceeding one year a sum not exceeding the amount of such tax, and by such vote set apart such tax when collected to repay such loan, and thereupon the District Board may borrow such money of any person and on such terms and execute and deliver to the lender such obligation therefor, and such security for the repayment, including a mortgage or pledge of any real or personal property of the district, subject to the directions contained in the vote of the district as may be agreed upon and not prohibited by law.

SEC. 498. Every District Clerk who shall willfully neglect to make the annual report for his district as required by law shall be liable to pay the whole amount of money lost by such

district in consequence of his neglect, which shall be recovered in an action in the name of and for the use of the district.

SEC. 499. Every Town Clerk who shall neglect or refuse to make and deliver to the County Superintendent his annual report, as required in this chapter within the time limited therefor, shall be liable on his official bond to pay the town the amount which such town or any school district therein, shall lose by such neglect or refusal, with interest thereon; and every County Superintendent who shall neglect or refuse to make the report required of him by this chapter to the State Superintendent shall be liable to pay to each town the amount which such town or any school district therein shall lose by such neglect or refusal, with interest thereon, to be recovered in either case in an action prosecuted by the Town Treasurer in the name of the town.

SEC. 503. Every member of a district board in any school district in this State in which a list of text-books has been adopted according to law, who shall, within three years from the date of such adoption, or thereafter, without the consent of the State Superintendent, order a change of text-books in such district, shall forfeit the sum of fifty dollars.

SEC. 513. Every woman of twenty-one years of age and upward may be elected or appointed as director, treasurer or clerk of a school district, director or secretary of a town board under the township system; member of a board of education in cities, or county superintendent.

SEC. 569. In reckoning school months, twenty days shall constitute a month and one hundred days five months.

ASSESSMENT OF TAXES.

SEC. 1035. The terms "real property," "real estate" and "land," when used in this title, shall include not only the land itself, but all buildings, fixtures, improvements, rights and privileges appertaining thereto.

SEC. 1036. The term "personal property," as used in this title, shall be construed to mean and include toll-bridges, saw-logs, timber and lumber, either upon land or afloat, steamboats, ships and other vessels, whether at home or abroad; buildings upon leased lands, if such buildings have not been included in the assessment of the land on which they are erected; ferry-boats, including the franchise for running the same; all debts due from solvent debtors, whether on account, note, contract, bond, mortgage or other security, or whether such debts are due or to become due; and all goods, wares, merchandise, chattels, moneys and effects of any nature or description having any real or marketable value and not included in the term "real property," as above defined.

SEC. 1037. The improvements on all lands situated in this State, which shall have been entered under the provisions of the act of Congress entitled "An act to secure homesteads to actual settlers on the public domain," approved May twentieth, one thousand eight hundred and sixty-two, and which shall be actually occupied and improved by the person so entering the same, or his heirs, shall be subject to taxation, and such improvements shall be assessed as personal property. All taxes levied thereon shall be collected out of the personal property of the occupant of such lands, and in no other manner.

SEC. 1038. The property in this section described is exempt from taxation, to wit:

1. That owned exclusively by the United States or by this State, but no lands contracted to be sold by the State shall be exempt.
2. That owned exclusively by any county, city, village, town or school district; but lands purchased by counties at tax sales shall be exempt only in the cases provided in Section Eleven Hundred and Ninety-one.
3. Personal property owned by any religious, scientific, literary or benevolent association, used exclusively for the purposes of such association, and the real property, if not leased, or not otherwise used for pecuniary profit, necessary for the location and convenience of the buildings of such association, and embracing the same not exceeding

- ten acres : and the lands reserved for grounds of a chartered college or university, not exceeding forty acres : and parsonages, whether of local churches or districts, and whether occupied by the pastor permanently or rented for his benefit. The occasional leasing of such buildings for schools, public lectures or concerts, or the leasing of such parsonages, shall not render them liable to taxation.
4. Personal property owned and used exclusively by the State or any county agricultural society, and the lands owned and used by any such society exclusively for fair grounds.
 5. Fire engines and other implements used for extinguishing fires, owned or used by any organized fire company, and the buildings and necessary grounds connected therewith, owned by such company, and used exclusively for its proper purposes.
 6. The property of Indians who are not citizens, except lands held by them by purchase.
 7. Lands used exclusively as public burial-grounds, and tombs and monuments to the dead therein.
 8. Pensions receivable from the United States.
 9. Stock in any corporation in this State which is required to pay taxes upon its property in the same manner as individuals.
 10. So much of the debts due or to become due to any person as shall equal the amount of bona-fide and unconditional debts by him owing.
 11. Wearing apparel, family portraits and libraries, kitchen furniture and growing crops.
 12. Provisions and fuel provided by the head of a family to sustain its members for six months : but no person paying board shall be deemed a member of a family.
 13. All the personal property of all insurance companies that now are or shall be organized or doing business in this State.
 14. The track, right of way, depot grounds, buildings, machine-shops, rolling-stock and other property necessarily used in operating any railroad in this State belonging to any railroad company, including pontoon, pile and pontoon railroads, and shall henceforth remain exempt from taxation for any purpose, except that the same shall be subject to special assessments for local improvements in cities and villages and all lands owned or claimed by such railroad company not adjoining the track of such company, shall be subject to all taxes. The provision of this subdivision shall not apply to any railroad that now is or shall be operated by horse-power, whether now or hereafter constructed in any village or city.
 15. The property, except real estate, of all companies which are or shall be engaged in the business of telegraphing in this State.
 16. The real estate of the Home of the Friendless in the city of Milwaukee, not exceeding one lot in amount, is exempted, so long as the same shall continue to be used as such home.
 17. All property of any corporation or association formed under the laws of this State for the encouragement of industry by agricultural and industrial fairs and exhibitions, which shall be necessary for fair grounds, while used exclusively for such fairs and exhibitions, provided the quantity of land so exempt shall not exceed forty acres.
 18. Such tree-belts as are or may be planted and maintained in compliance with chapter sixty-six of one of these statutes.

SEC. 1191. Real property, upon which the county holds any certificates of tax sale, shall continue liable to taxation and to sale for unpaid taxes, and the county shall be the exclusive purchaser at the sale : but when a tax deed shall be issued to the county, and it shall hold tax certificates of sale unredeemed on the same property for two successive years subsequent to the date of the sale on which such deed shall issue, including certificates of sale made prior to the passage of these statutes, such property shall thereafter be exempt from taxation until the same is sold by the county. The County Clerk shall annually, before the first day of June, furnish to the Assessors of each town a list of the lands in such town exempt under this section. Nothing in this section shall be so construed as to apply to lands owned by minors, married women, widowed women, idiots or insane persons.

COLLECTION OF TAXES.

SEC. 1089. The Town Treasurer of each town, on the receipt of the tax-roll for the current year, shall forthwith post notices in three or four public places in such towns, that the tax-roll for such town is in his hands for collection, and that the taxes charged therein are subject to payment at his office at any time prior to the first day of January in such year; and after the said first day of January he shall proceed to collect the taxes charged in such roll and remaining unpaid, and for that purpose shall call at least once on the person taxed, or at any place of his usual residence, if within the town, and demand payment of the taxes charged to him on such roll.

SEC. 1090. On all taxes paid or tendered at the office of such Treasurer prior to said first day of January, he shall remit all of the 5-per-cent collection fees, except so much thereof as he is authorized by law to have for his fees upon taxes so paid.

SEC. 1091. Town orders shall be receivable for taxes in the town where issued, and shall be allowed the Town Treasurer on settlement of town taxes; and county orders and jurors' certificates shall be receivable for taxes in the county where issued, and shall be allowed such Treasurer on settlement of county taxes with the County Treasurer, but no Town Treasurer shall receive town orders in payment for taxes to a larger amount than the town taxes included in his assessment-roll exclusive of all taxes for school purposes, nor county orders and jurors' certificates to a greater amount than the county tax included therein.

SEC. 1097. In case any person shall refuse or neglect to pay the tax imposed upon him, the Town Treasurer shall levy the same by distress and sale of any goods and chattels belonging to such person, wherever the same may be found within his town; and if a sufficient amount of such property cannot be found in such town, the Town Treasurer may levy the same by distress and sale of the goods and chattels belonging to such person, wherever the same may be found in the county or in any adjoining counties.

SEC. 1098. The Town Treasurer shall give public notice of the time and place of such sale, at least six days previous thereto, by advertisement, containing a description of the property to be sold, to be posted up in three public places in the town where the sale is to be made. The sale shall be at public auction, in the daytime, and the property sold shall be present; such property may be released by the payment of the taxes and charges for which the same is liable, to be sold; if the purchase-money on such sale shall not be paid at such time as the Treasurer may require, he may again, in his discretion, expose such property for sale, or sue, in his name of office, the purchaser for the purchase-money, and recover the same with costs and 10-per-centum damages.

SEC. 1099. If the property so levied upon shall be sold for more than the amount of tax and costs, the surplus shall be returned to the owner thereof; and if it cannot be sold for want of bidders, the Treasurer shall return a statement of the fact, and return the property to the person from whose possession he took the same; and the tax, if unsatisfied, shall be collected in the same manner as if no levy had been made.

HIGHWAYS AND BRIDGES.

SEC. 1223. The Supervisors of the several towns shall have the care and supervision of the highways and bridges therein, and it shall be their duty:

1. To give directions for repairing the highways and bridges within their respective towns, and cause to be removed all obstructions therefrom.
2. To cause such of the roads used as highways as have been laid out but not sufficiently described, and such as have been lawfully laid out and used as such up to the then present time, but not fully and sufficiently recorded, to be ascertained, described and entered of record in the Town Clerk's office.

3. To cause bridges which are or may be erected over streams intersecting highways to be kept in repair.
4. To divide their respective towns into so many road districts as they shall judge convenient, and specify every such division in writing under their hands, to be recorded in the office of the Town Clerk: but no such division shall be made within ten days next preceding the annual town meeting.
5. To assign to each of the said road districts such of the inhabitants liable to pay taxes on highways as they think proper, having regard to the nearness of residence as much as practicable.
6. To require the Overseers of Highways from time to time, and as often as they shall deem necessary, to perform any of the duties required of them by law.
7. To assess the highway taxes in their respective towns in each year, as provided by law.
8. To lay out and establish upon actual surveys, as hereinafter provided, such new roads in their respective towns as they may deem necessary and proper: to discontinue such roads as shall appear to them to have become unnecessary, and to widen or alter such roads when they shall deem necessary for public convenience, and perform all other duties respecting highways and bridges directed by this chapter.

INTOXICATING LIQUORS.

SEC. 1548. The Town Boards, Village Boards and Common Councils of the respective towns, villages and cities may grant license to such persons as they may deem proper, to keep groceries, saloons or other places, within their respective towns, villages or cities, for the sale in quantities less than one gallon of strong, spirituous, malt, ardent or intoxicating liquors, to be drank on the premises: and in like manner may grant licenses for the sale in any quantity of such liquors not to be drank on the premises. The sum to be paid for such license for the sale of such liquor to be drank on the premises shall not be less than twenty-five nor more than one hundred and fifty dollars: and for the sale of such liquors not to be drank on the premises shall be not less than ten nor more than forty dollars.

SEC. 1549. Every applicant for such license shall, before delivery thereof, file with such town, village or city clerk a bond to the State in the sum of five hundred dollars, with at least two sureties, to be approved by the authorities granting the license, who shall each justify in double its amount over and above their debts and liabilities and exemptions, and be freeholders and residents of the county, conditioned that the applicant, during the continuance of his license will keep and maintain an orderly and well-regulated house; that he will permit no gambling with cards, dice or any device or implement for that purpose, within his premises or any out-house, yard or shed appertaining thereto; that he will not sell or give away any intoxicating liquor to any minor, having good reason to believe him to be such, unless upon the written order of the parents or guardian of such minor, or to persons intoxicated or bordering upon intoxication, or to habitual drunkards; and that he will pay all damages that may be recovered by any person, and that he will observe and obey all orders of such Supervisors, Trustees or Ablermen, or any of them, made pursuant to law. In case of the breach of the condition of any such bond, an action may be brought thereon in the name of the State of Wisconsin, and judgment shall be entered against the principals and sureties therein named for the full penalty thereof: and execution may issue thereupon by order of the court therefor, to satisfy any judgment that may have been recovered against the principal named in said bond, by reason of any breach in the conditions thereof, or for any penalties or forfeitures incurred under this chapter. If more than one judgment shall have been recovered, the court, in its discretion, may apply the proceeds of said bond toward the satisfaction of said several judgments, in whole or in part, in such manner as it may see fit.

SEC. 1550. If any person shall vend, sell, deal or traffic in or for the purpose of evading this chapter, give away, any spirituous, malt, ardent or intoxicating liquors or drinks in any

quantity whatever without first having obtained license therefor, according to the provisions of this chapter, he shall be deemed guilty of a misdemeanor, and, on conviction thereof shall be punished by fine of not less than ten nor more than forty dollars, besides the costs of suit, or, in lieu of such fine, by imprisonment in the county jail of the proper county not to exceed sixty days nor less than twenty days; and, in case of punishment by fine as above provided, such person shall, unless the fine and costs be paid forthwith, be committed to the county jail of the proper county until such fine and costs are paid, or until discharged by due course of law; and, in case of a second or any subsequent conviction of the same person during any one year, the punishment may be by both fine and imprisonment, in the discretion of the court.

SEC. 1551. Upon complaint made to any Justice of the Peace by any person that he knows or has good reason to believe that an offense against this chapter, or any violation thereof, has been committed, he shall examine the complainant on oath, and he shall reduce such complaint to writing and cause the same to be subscribed by the person complaining. And if it shall appear to such Justice that there is reasonable cause to believe that such offense has been committed, he shall immediately issue his warrant, reciting therein the substance of such complaint and requiring the officer to whom such warrant shall be directed forthwith to arrest the accused and bring him before such Justice, to be dealt with according to law; and the same warrant may require the officer to summon such persons as shall be therein named to appear at the trial to give evidence.

SEC. 1552. The District Attorney of the proper county shall, on notice given to him by the Justice of the Peace before whom any such complaint shall be made, attend the trial before such Justice and conduct the same on behalf of the State.

SEC. 1553. Every supervisor, trustee, alderman and justice of the peace, police officers, marshal, deputy marshal and constable of any town, village or city who shall know or be credibly informed that any offense has been committed against the provisions of this chapter shall make complaint against the person so offending within their respective towns, villages or cities to a proper Justice of the Peace therein, and for every neglect or refusal so to do every such officer shall forfeit twenty-five dollars, and the Treasurer of such town, village or city shall prosecute therefor.

SEC. 1557. Any keeper of any saloon, shop or place of any name whatsoever for the sale of strong, spirituous or malt liquors to be drunk on the premises in any quantity less than one gallon, who shall sell, vend or in any way deal or traffic in or for the purpose of evading this chapter, give away any spirituous, ardent or malt liquors or drinks in any quantity whatsoever to or with a minor, having good reason to believe him to be such, or to a person intoxicated or bordering on a state of intoxication, or to any other prohibited person before mentioned, shall be deemed guilty of a misdemeanor; nor shall any person sell or in any way deal or traffic in, or, for the purpose of evading this chapter, give away, any spirituous, ardent, intoxicating or malt liquors or drinks in any quantity whatsoever within one mile of either of the hospitals for the insane; and any person who shall so sell or give away any such liquors or drinks shall be deemed guilty of a misdemeanor.

BILLS OF EXCHANGE AND PROMISSORY NOTES.

SEC. 1675. All notes in writing made and signed by any person or for any corporation, and all certificates of the deposit of money issued by any person or corporation, whereby he or it shall promise to pay to any person or order, or unto the bearer, any sum of money, as therein mentioned, shall be due and payable as therein expressed, and shall have the same effect and shall be negotiable in like manner as inland bills of exchange, according to the custom of merchants. But no order drawn upon or accepted by the Treasurer of any county, town, city, village or school district, whether drawn by any officer thereof or any other person, and no obligation nor instrument made by such corporation or any officer thereof, unless expressly authorized by law

to be made negotiable, shall be, or shall be deemed to be, negotiable according to the customs of merchants, in whatever form they may be drawn or made.

SEC. 1680. On all bills of exchange payable at sight, or at future day certain, within this State, and all negotiable promissory notes, orders and drafts payable at a future day certain, within this State, in which there is not an express stipulation to the contrary, grace should be allowed in like manner as it is allowed by the custom of merchants on foreign bills of exchange payable at the expiration of a certain period after date or sight. The provisions of this section shall not extend to any bill of exchange, note or draft payable on demand.

SEC. 1684. All notes, drafts, bills of exchange or other negotiable paper maturing on Sunday or upon any legal holiday shall be due and payable on the next preceding secular day.

HOURS OF LABOR.

SEC. 1728. In all manufactories, work-shops and other places used for mechanical or manufacturing purposes, the time of labor of children under eighteen years of age and of women employed therein, shall not exceed eight hours in one day; and any employer, stockholder, director, officer, overseer, clerk or foreman who shall compel any woman or any child to labor exceeding eight hours in any one day, or who shall permit any child under fourteen years of age to labor more than ten hours in any one day in any such place, if he shall have control over such child sufficient to prevent it, or who shall employ at manual labor any child under twelve years of age in any factory or work-shop where more than three persons are employed, or who shall employ any child of twelve and under fourteen years of age in any such factory or work-shop for more than seven months in any one year, shall forfeit not less than five nor more than fifty dollars for each such offense.

SEC. 1729. In all engagements to labor in any manufacturing or mechanical business, where there is no express contract to the contrary, a day's work shall consist of eight hours, and all engagements or contracts for labor in such cases shall be so construed; but this shall not apply to any contract for labor by the week, month or year.

FORM OF CONVEYANCES.

SEC. 2207. A deed of quitclaim and release of the form in common use or of the form hereinafter provided, shall be sufficient to pass all the estate which the grantor could lawfully convey by deed of bargain and sale.

SEC. 2208. Conveyances of land may be in substantially the following form:

WARRANTY DEED.

A B, grantor of _____ County, Wisconsin, hereby conveys and warrants to C D, grantee, of _____ County, Wisconsin, for the sum of _____ dollars, the following tract of land in _____ County.

(Here describe the premises.)

Witness the hand and seal of said grantor this _____ day of _____, 18—.

In the presence of)
 _____)
 _____)

QUITCLAIM DEED.

A B, grantor, of _____ County, Wisconsin, hereby quitclaims to C D, grantee, of _____ County, Wisconsin, for the sum of _____ dollars, the following tract of land in _____ County.

(Here describe the premises.)

Witness the hand and seal of said grantor this _____ day of _____, 18—.

In presence of)
 _____)
 _____)

_____ [SEAL.]
 _____ [SEAL.]

_____ [SEAL.]
 _____ [SEAL.]

Such deeds, when executed and acknowledged as required by law, shall, when of the first of the above forms, have the effect of a conveyance in fee simple to the grantee, his heirs and assigns of the premises therein named, together with all the appurtenances, rights and privileges thereto belonging, with a covenant from the grantor, his heirs and personal representatives, that he is lawfully seized of the premises; has good right to convey the same; that he guarantees the grantee, his heirs and assigns in the quiet possession thereof; that the same are free from all incumbrances, and that the grantor, his heirs and personal representatives will forever warrant and defend the title and possession thereof in the grantee, his heirs and assigns against all lawful claims whatsoever. Any exceptions to such covenants may be briefly inserted in such deed, following the description of the land; and when in the second of the above forms, shall have the effect of a conveyance in fee simple to the grantee, his heirs and assigns, of all the right, title, interest and estate of the grantor, either in possession or expectancy, in and to the premises therein described, and all rights, privileges and appurtenances thereto belonging.

MORTGAGES.

SEC. 2200. A mortgage may be substantially in the following form:

A B, mortgagor, of _____ County, Wisconsin, hereby mortgages to C D, mortgagee, of _____ County, Wisconsin, for the sum of _____ dollars, the following tract of land in _____ County.

(Here describe the premises)

This mortgage is given to secure the following indebtedness:

(Here state amount or amounts and form of indebtedness, whether on note, bond or otherwise, time or times when due, rate of interest, by and to whom payable, etc.)

The mortgagor agrees to pay all taxes and assessments on said premises, and the sum of _____ dollars attorney's fees in case of foreclosure thereof.

Witness the hand and seal of said mortgagor this _____ day of _____, 18____.

In presence of

_____ } _____ [SEAL.]
 _____ } _____ [SEAL.]

when executed and acknowledged according to law shall have the effect of a conveyance of the land therein described, together with all the rights, privileges and appurtenances thereunto belonging in pledge to the mortgagee, his heirs, assigns and legal representatives for the payment of the indebtedness therein set forth, with covenant from the mortgagor that all taxes and assessments levied and assessed upon the land described during the continuance of the mortgage shall be paid previous to the day appointed by law for the sale of lands for taxes, as fully as the forms of mortgage now and heretofore in common use in this State, and may be foreclosed in the same manner and with the same effect, upon any default being made in any of the conditions thereof as to payment of either principal, interest or taxes.

ASSIGNMENT OF MORTGAGE.

SEC. 2210. An assignment of a mortgage substantially in the following form:

For value received I, A B, of _____, Wisconsin, hereby assign to C D, of _____, Wisconsin, the within mortgage or a certain mortgage executed to _____ by E F and wife, of _____ County, Wisconsin, the _____ day of _____, 18____, and recorded in the office of the Register of Deeds of _____ County, Wisconsin, in Vol. _____ of mortgages, on page _____, together with the _____ and indebtedness therein mentioned.

Witness my hand and seal this _____ day of _____, 18____.

In presence of

_____ } _____ [SEAL.]
 _____ }

shall be sufficient to vest in the assignee for all purposes all the rights of the mortgagee under the mortgage, and the amount of the indebtedness due thereon at the date of assignment. Such assignment, when indorsed upon the original mortgage, shall not require an acknowledgment in order to entitle the same to be recorded.

TITLE TO REAL PROPERTY BY DESCENT.

SEC. 2270. When any person shall die, seized of any lands, tenements or hereditaments, or any right thereto, or entitled to any interest therein in fee simple, or for the life of another, not having lawfully devised the same, they shall descend subject to his debts, except as provided in the next section, in the manner following:

1. In equal shares to his children, and to the lawful issue of any deceased child, by right of representation; and if there be no child of the intestate living at his death, his estate shall descend to all his other lineal descendants; and if all the said descendants are in the same degree of kindred to the intestate, they shall share the estate equally, otherwise they shall take according to the right of representation.
2. If he shall leave no lawful issue, to his widow; if he shall leave no such issue or widow, to his parents, if living; and if either shall not be living, the survivor shall inherit his said estate. If a woman shall die, leaving no issue, her estate shall descend to her husband, if she shall have one at the time of her decease, and if she shall leave, surviving her, neither issue nor husband, to her parents, if living; and if either shall not be living, the survivor shall inherit her said estate.
3. If he shall leave no lawful issue, nor widow, nor father, nor mother, his estate shall descend in equal shares to his brothers and sisters, and to the children of any deceased brother or sister, by right of representation.
4. If the intestate shall leave no lawful issue, widow, father, mother, brother nor sister, his estate shall descend to his next of kin in equal degree, except that when there are two or more collateral kindred in equal degree, but claiming through different ancestors, those who claim through the nearest ancestor shall be preferred to those claiming through an ancestor more remote; provided, however,
5. If any person die leaving several children, or leaving one child, and the issue of one or more other children, and any such surviving child shall die under age, and not having been married, all the estate that came to the deceased child, by inheritance from such deceased parent, shall descend in equal shares to the other children of the same parent, and to the issue of any such other children who shall have died, by right of representation.
6. If, at the death of such child, who shall die under age, and not having been married, all the other children of his said parent shall also be dead, and any of them shall have left issue, the estate that came to said child by inheritance from his said parent, shall descend to all the issue of the other children of the same parent; and if all the said issue are in the same degree of kindred to said child, they shall share the said estate equally; otherwise they shall take according to the right of representation.
7. If the intestate shall leave no widow nor kindred, his estate shall escheat to the State, and be added to the capital of the school fund.

SEC. 2271. When the owner of any homestead shall die, not having lawfully devised the same, such homestead shall descend free of all judgments and claims against such deceased owner or his estate, except mortgages lawfully executed thereon, and laborers' and mechanics' liens, in the manner following:

1. If he shall have no lawful issue, to his widow.
2. If he shall leave a widow and issue, to his widow during her widowhood, and, upon her marriage or death, to his heirs, according to the next preceding section.
3. If he shall leave issue and no widow, to such issue, according to the preceding section.
4. If he shall leave no issue or widow, such homestead shall descend under the next preceding section, subject to lawful liens thereon.

OF WILLS.

SEC. 2277. Every person of full age, and any married woman of the age of eighteen years and upward, being of sound mind, seized in his or her own right of any lands, or of any right thereto, or entitled to any interest therein, descendible to his or her heirs, may devise and dispose of the same by last will and testament in writing; and all such estate not disposed of by will, shall descend as the estate of an intestate, being chargeable, in both cases, with the payment of all his debts or her debts, except as provided in the next preceding chapter, and in section twenty-two hundred and eighty.

SEC. 2278. Every devise of land in any will shall be construed to convey all the estate of the devisor therein, which he could lawfully devise, unless it shall clearly appear by the will that the devisor intended to convey a less estate.

SEC. 2279. Any estate, right or interest in lands acquired by the testator, after the making of his will, shall pass thereby in like manner as if possessed at the time of making the will, if such shall manifestly appear, by the will, to have been the intention of the testator.

SEC. 2280. When any homestead shall have been disposed of by the last will and testament of the owner thereof, the devisee shall take the same, free of all judgments and claims against the testator or his estate, except mortgages lawfully executed thereon, and laborers' and mechanics' liens.

SEC. 2281. Every person of full age, and every married woman of the age of eighteen years and upward, being of sound mind, may, by last will and testament in writing, bequeath and dispose of all his or her personal estate remaining at his or her decease, and all his or her rights thereto and interest therein, subject to the payment of debts; and all such estate not disposed of by the will shall be administered as intestate estate.

SEC. 2284. All beneficial devises, legacies and gifts whatsoever, made or given in any will to a subscribing witness thereto, shall be wholly void, unless there be two other competent subscribing witnesses to the same; but a mere charge on the lands of the devisor for the payment of debts, shall not prevent his creditors from being competent witnesses to his will.

SEC. 2285. But if such witness, to whom any beneficial devise may have been made or given, would have been entitled to any share of the estate of the testator, in case the will was not established, then so much of the share that would have descended or been distributed to such witness as will not exceed the devise or bequest made to him in the will, shall be saved to him, and he may recover the same of the devisees or legatees named in the will, in proportion to and out of the parts devised or bequeathed to them.

SEC. 2286. When any child shall be born, after the making of his parent's will, and no provision shall be made therein for him, such child shall have the same share in the estate of the testator as if he had died intestate; and the share of such child shall be assigned to him, as provided by law, in case of intestate estates, unless it shall be apparent from the will that it was the intention of the testator that no provision should be made for such child.

SEC. 2290. No will, or any part thereof, shall be revoked, unless by burning, tearing, canceling or obliterating the same, with the intention of revoking it, by the testator, or by some person in his presence, and by his direction, or by some other will or codicil in writing, executed as prescribed in this chapter, or by some other writing, signed, attested and subscribed in the manner provided in this chapter, for the execution of a will; excepting, only, that nothing contained in this section shall prevent the revocation implied by law, from subsequent changes in the condition or circumstances of the testator. The power to make a will implies the power to revoke the same.

OF THE ADOPTION OF CHILDREN.

SEC. 4921. Any inhabitant of this State may petition the County Court, in the county of his residence, for leave to adopt a child not his own by birth; but no such petition made by a married person shall be granted, unless the husband or wife of the petitioner shall join therein;

nor shall any such petition be granted, unless the child, if of the age of fourteen years, or more, shall consent thereto in writing, in the presence of the court.

Sec. 4022. No such adoption shall be made, without the written consent of the living parents of such child, unless the court shall find that one of the parents has abandoned the child, or gone to parts unknown, when such consent may be given by the parent, if any, having the care of the child. In case where neither of the parents is living, or if living, have abandoned the child, such consent may be given by the guardian of such child, if any; if such child has no guardian, such consent may be given by any of the next of kin of such child, residing in this State, or, in the discretion of the court, by some suitable person to be appointed by the court.

2. In case of a child not born in lawful wedlock, such consent may be given by the mother, if she is living, and has not abandoned such child.

Sec. 4023. If upon such petition and consent, as herein provided, the County Court shall be satisfied of the identity and the relations of the persons, and that the petitioners are of sufficient ability to bring up, and furnish suitable nurture and education for the child, having reference to the degree and condition of its parents, and that it is proper that such adoption shall take effect, such court shall make an order, reciting said facts that, from and after the date thereof, such child shall be deemed, to all legal intents and purposes, the child of the petitioners; and by such order the name of such child may be changed to that of the parents by adoption.

Sec. 4024. A child so adopted, shall be deemed for the purposes of inheritance and succession by such child, custody of the person and right of obedience by such parents by adoption, and all other legal consequences and incidents of the natural relation of parents and children, the same to all intents and purposes as if such child had been born in lawful wedlock of such parents by adoption, excepting that such child shall not be capable of taking property expressly limited to the heirs of the body of such parents.

The natural parents of such child shall be deprived, by such order of adoption, of all legal rights whatsoever, respecting such child, and such child shall be freed from all legal obligations of maintenance and obedience to such natural parents.

INTEREST.

The legal rate of interest is 7 per cent. A higher rate of interest, not exceeding 10 per cent, may be contracted for, but the same must be clearly expressed in writing. If a higher rate than 10 per cent is collected or paid, the party so paying may, by himself or his legal representative, recover treble the amount so paid above the 10 per cent, if the action is brought within one year, and all bills, notes, or other contracts whatsoever, whereby a higher rate than 10 per cent is secured, shall be liable for the principal sum, but no interest shall be recovered.

JURISDICTION OF COURTS.

The Circuit Courts have general jurisdiction over all civil and criminal actions within their respective circuits, subject to a re-examination by the Supreme Court.

The County Courts shall have jurisdiction over the probate matters in their respective counties, and shall have exclusive appellate jurisdiction in the counties of Brown, Dodge, Fond du Lac, Milwaukee and Winnebago in all cases of appeals from Justices of the Peace in civil actions, and all cases commenced in Justices' Courts therein, there shall be an answer put in, showing that the title of lands will come in question.

And such Courts shall have concurrent and equal jurisdiction in all civil actions and proceedings with the Circuit Courts of said counties to the following extent respectively:

The County Court of Brown, when the value of the property in controversy, after deducting all payments and set-offs, shall not exceed five thousand dollars.

The County Court of Dodge County, when such value shall not exceed twenty-five thousand dollars.

The County Court of Fond du Lac, when such value shall not exceed twenty thousand dollars.

The County Court of Milwaukee, when such value does not exceed five million dollars.

The County of Winnebago, when such value does not exceed twenty thousand dollars.

They shall have jurisdiction of all actions for foreclosure where the value does not exceed the above amounts, and of all actions for divorce or for affirmation or annulment of marriage contract.

Justices of the Peace have jurisdiction in civil matters where two hundred dollars or less are involved.

The criminal jurisdiction of Justices extends to all cases where the fine is one hundred dollars, or the imprisonment six months.

JURORS.

All persons who are citizens of the United States, and qualified electors of the State shall be liable to be drawn as jurors, except as provided as follows:

The following persons shall be exempt from serving as jurors:

All officers of the United States, the Governor, Lieutenant Governor, Secretary of State, Attorney General, State Superintendent and Treasurer; all Judges, Clerks of Courts of Record; all county officers, Constables, attorneys and counselors at law, ministers of the Gospel of any religious society, practicing physicians, surgeons, dentists, and the President, professors and instructors of the University and their assistants, and of the several colleges and incorporated academies; all teachers of the State Normal Schools, one teacher in each common school, the officers and employes of the several State institutions, one miller in each grist-mill, one ferryman at each licensed ferry, one dispensing druggist in each prescription drug-store, all telegraph operators and superintendents, conductors, engineers, firemen, collectors and station-agents of any railroad or canal, while in actual employment as such; all officers of fire departments, and all active members of fire companies organized according to law; all persons more than sixty years of age, and all persons of unsound mind or subject to any bodily infirmity amounting to disability; all persons who have been convicted of any infamous crime, and all persons who have served at any regular term of the Circuit Court as a grand or petit juror within one year, except he shall be summoned on a special venire or as a talesman.

CAPITAL PUNISHMENT.

Capital punishment has been abolished in this State.

WOLF SCALPS.

A bounty of five dollars is paid for each wolf scalp.

WEIGHTS AND MEASURES.

Whenever either of the articles, as commodities hereafter mentioned, shall be sold by the bushel, and no special agreement as to measure or weight thereof shall be made by the parties, the measure shall be ascertained by weight, and shall be computed as follows:

Sixty pounds for a bushel of wheat, clover seed, potatoes or beans.

Fifty pounds for a bushel of green apples; fifty-six pounds for a bushel of rutabagas, flaxseed, rye or Indian corn shelled, and seventy pounds of Indian corn unshelled; fifty pounds for a bushel of rape seed, buckwheat, beets, carrots or onions; forty-eight pounds for a bushel of barley; forty-five pounds for a bushel of timothy seed; forty-four pounds for a bushel of parsnips; forty-two pounds for a bushel of common flat turnips; thirty-two pounds for a bushel of oats; and twenty-eight pounds for a bushel of dried apples or dried peaches.

No person shall sell, buy or receive in store any grain at any weight or measure per bushel other than the standard weight or measure per bushel fixed by law; and, for any violation, the offender shall forfeit not less than five nor more than fifty dollars.

DAMAGES FOR TRESPASS.

Any person who shall willfully, maliciously or wantonly destroy, remove, throw down or injure any fence, hedge or wall inclosing any orchard, pasture, meadow, garden, or any field whatever on land belonging to or lawfully occupied by another, or open and leave open, throw down, injure, remove or destroy any gate or bars in such fence, hedge or wall, or cut down, root up, sever, injure, destroy or carry away when severed, any fruit, shade, ornamental or other tree, or any shrub, root, plant, fruit, flower, grain or other vegetable production, or dig up, sever or carry away any mineral, earth or stone, or tear down, mutilate, deface or injure any building, sign-board, fence or railing, or sever and carry away any part thereof, standing or being upon the land of another or held in trust, or who shall willfully, maliciously or wantonly cut down, root up, injure, destroy or remove or carry away any fruit, ornamental or other tree, or any shrub, fruit, flower, vase or statue, arbor, or any ornamental structure, standing or being in any street or public ground in any city or village, in any private inclosure or highway, or destroy, remove, mutilate or injure any milestone or board, or any guide-post or board erected in any highway or public way, or on any turnpike, plank-road or railroad, or deface or obliterate any device or inscription thereon, or cut down, break down, remove, mutilate or injure any monument erected or tree marked for the purpose of designating the boundaries of any town or tract of land or subdivision thereof, or deface or obliterate any figures, letters, device or inscription thereon, made for such purpose, or break, remove, destroy or injure any post, guard, railing or lamp-post or lamp thereon, erected or being on any bridge, street, sidewalk, alley, court, passage, park, public ground, highway, turnpike, plank or rail road, or extinguish or break any lamp on any such lamp-post, or tear, deface, mutilate or injure any book, map, pamphlet, chart, picture or other property belonging to any public library, or take and carry away the same with intent to convert to his own use, or shall injure or destroy any personal property of another, shall be punished by imprisonment in the county jail not more than six months, or by fine not exceeding one hundred dollars.

Any person who shall willfully, maliciously or wantonly kill, maim, mutilate, disfigure or injure any horse, mule, cattle, sheep or other domestic animal of another, or administer poison to such animal, or expose any poison, with intent that the same may be taken or swallowed by such animal; and any person who shall overdrive, overwork, overload, maim, wound, torture, torment, cruelly beat or kill any such animal belonging to himself or another, or being the owner or having the care or charge thereof, shall fail to provide necessary food, water or shelter for any such animal, or who shall turn out and abandon, without proper care and protection, or cruelly work any such animal when old, diseased, disabled or unfit for work, or shall carry or confine any live animal, fowl or bird, in a cruel or inhuman manner, or who shall cause, procure or abet any cruelty above mentioned, or the fighting or baiting of bulls, dogs or cocks, shall be punished by imprisonment in the county jail not more than six months or by fine not exceeding one hundred dollars.

ESTRAYS.

No stray, except horses and mules, shall be taken up by any person not a resident of the town in which it is found; nor unless it is found upon land owned or occupied by him. Every finder for a stray must notify the owner, if he is known, within seven days, and request him to pay all reasonable charges and take the stray away. If the owner is not known, he must file a notice with the Town Clerk within ten days, who shall transmit a copy thereof to the County Clerk.

If the stray is not worth five dollars, the finder shall post a copy of such notice in two public places in such town; if it exceed five dollars in value, he shall publish such notice four

successive weeks either in some newspaper published in the county or in an adjoining county, if one be published nearer his residence than any published in his county; but if no newspaper is published within twenty miles of his residence, then he must post such notice in three public places in his county. Such notice shall describe the stray by giving its marks, natural or artificial, as near as possible, the name and residence of the finder, specifying the section and town, and the time when such stray was taken up. For neglect to post up or publish as required, the finder shall be liable to double the amount of damages sustained by the owner. For neglect to post or publish for one year, the finder shall be liable for its full value, to be recovered in the name of the town, and the amount recovered to be added to the school fund of such town.

The finder shall, within one month, cause the stray to be appraised by a Justice of the Peace and a certificate of such appraisal signed by such Justice filed in the Town Clerk's office. The finder shall pay the Justice fifty cents for such certificate, and ten cents per mile for each mile necessarily traveled to make the same.

The owner may have the same restored to him any time within one year after such notice is filed in the town Clerk's office, by proving that the stray belongs to him, and paying all lawful charges incurred in relation to the same. If the owner and finder cannot agree as to the charges, either party, on notice to the other, may apply to a Justice of such town to settle the same, who, for that purpose, may examine witnesses upon oath, and the amount found due, with the costs, shall be a lien upon such stray. If no owner applies for the return of such stray, as provided, and the same is not worth more than ten dollars, it shall become the absolute property of such finder; but if the appraisal shall exceed ten dollars, it shall be sold at public auction by the Sheriff or any Constable of the county, on the request of the finder, and he shall be entitled to one-half the proceeds, and the other half shall be paid to the Treasurer of the town within ten days. If the finder shall neglect or refuse to cause such sale, he shall pay to the town the value of such stray, to be recovered by the town.

If any person, without the consent of the owner, shall take away such stray, without first paying the lawful charges, he shall be liable to the finder for the value of such stray. If the finder shall neglect to do any act prescribed above, he shall be precluded from acquiring any right in such stray, and from receiving any charges or expenses relative thereto.

FENCES.

The Overseers of Highways in their respective towns, the Aldermen of cities in their respective wards, and the Trustees of villages in their respective villages, shall be Fence Viewers, and in towns having less than three road districts, the Supervisors shall be Fence Viewers.

All fences four and a half feet high, and in good repair, consisting of rails, timber, boards or stone walls, or any combination thereof, and all brooks, rivers, ponds, creeks, ditches and hedges or other things which shall be considered equivalent thereto, in the judgment of the Fence Viewers, within whose jurisdiction the same may be, shall be deemed legal and sufficient fences. Every partition of a fence, or line upon which a fence is to be built, made by the owners of the adjoining lands, in writing, sealed and witnessed by two witnesses, or by Fence Viewers in writing, under their hands, after being recorded in the Town Clerk's office, shall oblige such owners and their heirs, as long as they remain owners, and after parting with the ownership, until a new partition is made. A division of a partition fence, or line upon which a partition fence between adjoining lands shall be built, may be made by Fence Viewers in the following cases:

1. When any owner of uninclosed lands shall desire to inclose the same, he may have the line between his land and the adjoining land of any other person divided, and the portion upon which the respective owners shall erect their share of the partition fence assigned, whether such adjoining land be inclosed or not.

2. When any lands belonging to different persons in severalty, shall have been occupied in common, or without a partition fence between them, and one of the occupants shall be desirous

to occupy his part in severalty, and the others shall refuse or neglect, on demand, to divide with him the line where the fence ought to be built, or to build a sufficient fence on his part of the line, when divided, the occupant desiring it may have the same divided, and the share of each assigned.

3. When any controversy shall arise about the right of the respective occupants in partition fences, or their obligations to maintain the same, either party may have the line divided, and the share of each assigned.

In either case, application may be made to two or more Fence Viewers of the town where the lands lie, who shall give reasonable notice in writing to each party, and they shall in writing under their hands, divide the partition fence or line, and assign to each owner or occupant his share thereof, and in the second and third cases direct within what time each party shall build or repair his share of the fence, having regard to the season of the year, and shall file such decision in the Town Clerk's office. If either party shall neglect or refuse to build or repair within the time so assigned, his part of the fence, the other may, after having completed his own part, build or repair such part, and recover double the expense thereof.

Where the whole or a greater share than belongs to him has been built by one of the occupants, before complaint to the Fence Viewers, the other shall be obliged to pay for his share of such fence.

Where uninclosed land is afterward inclosed, the owner shall pay for one-half the partition fence upon the line between him and any other owner or occupant.

If any person shall determine not to keep inclosed any part of his land adjoining any partition fence, and shall give six months' notice of such determination to all adjoining occupants, he shall not be required to maintain any part of such fence during the time his lands shall lie open.

LANDLORD AND TENANT.

The common law right to distrain for rent is abolished.

The attornment of a tenant to a stranger shall be absolutely void, and shall not in anywise effect the possession of his landlord, unless it be made.

1. With the consent of the landlord; or
 2. Pursuant to, or in consequence of, a judgment or order of a court of competent jurisdiction; or

3. To a purchaser upon a judicial sale, who shall have acquired title to the lands by a conveyance thereof, after the period for redemption, if any, has expired. A tenancy, a will or sufferance may be determined by the landlord, giving one month's notice to quit, or the tenant giving one month's notice of his intention to quit, or if the terms of payment are for less than a month, notice equal to the time between payments, or for non-payment of rent, fourteen days' notice to quit. Such notice shall be served by delivering the same to such tenant, or to some person of proper age residing on the premises, or if no such person can be found, by affixing the same in a conspicuous part of the premises, where it may be conveniently read, and, at the expiration of the time required after the service of such notice, the landlord may re-enter, or maintain an action for the recovery of the possession thereof, or proceed in the manner prescribed by law to remove such tenant without farther or other notice to quit. If, after giving notice of determination to quit, the tenant neglects or refuses to deliver up the premises, he shall be liable to double the rent agreed upon, to be collected the same as single rent.

MARKS AND BRANDS.

Every Town Clerk shall, on application of any person residing in his town, record a description of the marks or brands with which such person may be desirous of marking his horses, cattle, sheep or hogs; but the same description shall not be recorded or used by more than one resident of the same town. If any person shall mark any of his horses, cattle, sheep

or hogs, with the same mark or brand previously recorded by any resident of the same town, and while the same mark or brand shall be used by such resident, he shall forfeit for every such offense \$5; if any person shall willfully mark or brand any of the horses, cattle, sheep or hogs, of any other person with his mark or brand, he shall forfeit for every such offense \$10; and, if any person shall willfully destroy or alter any mark or brand upon any of the horses, cattle, sheep or hogs of another, he shall forfeit \$10, and pay to the party injured double damages.

SURVEYORS AND SURVEYS.

A County Surveyor is elected every two years.

The surveyor may appoint and remove deputies at will, on filing a certificate thereof with the County Clerk. He shall be responsible on his bond for the faithful performance by every deputy of his duties.

It shall be the duty of the County Surveyor:

(1.) To execute, himself or by his deputy, any survey which may be required of him by order of court, or upon application of any individual or corporation.

(2.) To make a record of the plat and field notes of each survey made by him or his deputies, in record books kept therefor, and to so arrange or index the same as to be easy of reference, and to file and preserve in his office the original field notes and calculations thereof.

(3.) To safely keep all books, records, plats, files, papers and property belonging to his office; afford opportunity to examine the same to any person desiring, and deliver the same to his successor in office.

(4.) To furnish a copy of any record, plat or paper in his office, to any person on demand and payment of his legal fees therefor.

(5.) To administer to every chainman and marker assisting in any survey, before commencing their duties as such, an oath or affirmation faithfully and impartially to discharge the duties of chainman or marker, as the case may be; and the surveyor and his deputies are empowered to administer the same.

(6.) To perform such other duties as may be required by law.

The surveyor and his deputies may demand and receive the following fees, except it be otherwise agreed upon with the parties employing them, to wit:

For each day's service, \$3.

For each mile traveled in going from his office to the place of rendering service and returning, 10 cents.

For plat and certificate, except town plats, 50 cents.

For recording a survey, 50 cents.

For each chainman and marker necessarily employed, \$1.50 per day, unless they be furnished by the person for whom the survey is made.

For making a copy, 10 cents a folio, and 25 cents for his certificate.

SUPPORT OF THE POOR.

Every town shall relieve and support all poor and indigent persons lawfully settled therein, whenever they shall stand in need thereof, excepting as follows:

The father, mother and children, being of sufficient ability, of any poor person, who is blind, old, lame, impotent or decrepit, so as to be unable to maintain himself, shall, at their own charge, relieve and maintain such poor person in such manner as shall be approved by the Supervisors of the town where such person may be, and, upon the failure of any such relative so to do, the Supervisors shall apply to the County Judge for an order to compel such relief.

Legal settlement may be acquired by one year's residence in a town of this State.

MARRIED WOMEN.

In Wisconsin, the marriage of a *femme sole*, executrix or administratrix, extinguishes her authority; and of a female ward, terminates the guardianship as to custody of person, but not as to estate. The husband holds his deceased wife's lands for life, unless she left, by a former husband, issue to whom the estate might descend. Provisions exist by which powers may be given to married women, and regulating their execution of them. If husband and wife are impleaded, and the husband neglects to defend the rights of the wife, she applying before judgment, may defend without him; and, if he lose her land, by default, she may bring an action for ejectment after his death. The real estate of females married before, and the real and personal property of those after February 21, 1850, remain their separate property. And any married woman may receive, but not from her husband, and hold any property as if unmarried. She may insure the life of her husband, son, or any other person, for her own exclusive benefit. The property of the wife remains to her separate use, not liable for her husband's debts, and not subject to his disposal. She may convey her separate property. If her husband desert her, or neglect her, she may become a sole trader; and she may insure his life for her benefit. Her husband is not liable for her debts contracted before marriage; the individual earnings of the wife are her separate property, and she may sue, and be sued alone, in regard to the same. She may make and hold deposits in savings-banks. She may, by a separate conveyance, release her dower in any lands which her husband has conveyed.

If a woman has authority, she can transact all her husband's business for him; and while they live together, the wife can buy all family things necessary for the support of the family, and for which he is liable.

The husband is responsible for necessaries supplied to his wife, if he does not supply them himself; and he continues so liable, if he turns her out of his house, or otherwise separates himself from her without good cause. But he is not so liable, if she deserts him (unless on extreme provocation), or if he turns her away for good cause. If she leaves him, because he treats her so ill, that she has good right to go from him, this is the same thing as turning her away, and she carries with her his credit for all necessaries supplied to her: but what the misconduct must be, to give this right, is uncertain. In America the law must be, and undoubtedly is, that the wife is not obliged to stay and endure cruelty and indecency.

If a man lives with a woman as his wife, and represents her to be so, he is responsible, the same as if she were his wife, even if it is known that she is not his wife.

ACTIONS.

All distinctions have been abolished, and there is now but one form, which must be prosecuted in the name of the real party in interest, except in case of executors, administrators and trustees, and which is begun by the service of a summons on the defendant, to be answered within twenty days.

ARREST.

Defendant may be arrested: 1. In an action to recover damages not on contract, where the defendant is a non-resident, or is about to remove from the State, or where the action is for injury to the person or character, or for injury to, or wrong taking, detaining or converting property, or in an action to recover damages for property taken under false pretenses.

2. In an action for a fine or penalty or for money received or property embezzled or fraudulently misapplied by a public officer or attorney, solicitor, or counsel or officer of a corporation as such, or factor agent or broker, or for misconduct or neglect in official or professional employment.

3. In an action to recover property unjustly detained where it is so concealed that the Sheriff cannot find the same.

4. Where the defendant was guilty of fraud in contracting the debt, or in concealing or disposing of the property for the taking, detaining or disposing of which the action is brought.

An affidavit must be made on the part of the plaintiff, stating the cause of action and one of the above causes.

ATTACHMENT

is allowed on an affidavit that the defendant is indebted to plaintiff, and stating the amount and that it is due on contract; and.

1. That defendant has absconded, or is about to abscond, or is concealed to the injury of his creditors.

2. That defendant has assigned, disposed or concealed his property or is about to do so with intent to defraud creditors.

3. That the defendant has removed, or is about to remove, his property from the State with intent to defraud creditors.

4. That the debt was fraudulently contracted.

5. That he is a non-resident.

6. Or a foreign corporation.

7. That he has fraudulently conveyed or disposed of his property with intent to defraud creditors.

The amount sued for must exceed \$50.

GARNISHMENT

is allowed on an affidavit on behalf of the creditor, that he believes that any third person (naming him) has property effects, or credits of defendant, or is indebted to him, also in execution, on a similar affidavit.

JUDGMENT

is a lien on real estate in the county where rendered from the date of docketing, and in other counties from the time of filing a transcript, and the lien continues for ten years. It bears interest at 7 per cent, or as high as 10 per cent if stipulated for in the contract.

STAY LAWS.

In Justices' Courts, on giving bond with surety within five days after judgment was rendered, stay of execution is allowed, as follows:

On sums not exceeding \$10, exclusive of costs, one month; between \$10 and \$30, two months; between \$30 and \$50, three months; over \$50, four months.

EXEMPTIONS.

A homestead not exceeding forty acres used for agriculture and a residence, and not included in a town plat or a city or village; or, instead, one-quarter of an acre in a recorded town plat, city or village. Also, 1. Family Bible; 2. Family pictures and school-books; 3. Private library; 4. Seat or pew in church; 5. Right of burial; 6. Wearing-apparel, beds, bedsteads and bedding, kept and used in the family, stoves and appurtenances, put up and used, cooking utensils and household furniture to the value of \$200, one gun, rifle or fire-arm to the value of \$50; 7. Two cows, ten swine, one yoke of oxen and one horse or mule, or in lieu thereof, a span of horses or mules, ten sheep and the wool therefrom, necessary food for exempt stock for one year, provided or growing or both, one wagon, cart or dray, one sleigh, one plow, one drag and other farm utensils, including tackle for the teams to the value of \$50; 8. Provisions and fuel for the family for one year; 9. Tools and implements or stock-in-trade of a

mechanic or miner, used and kept, not exceeding \$200 in value, library and implements of a professional man to the value of \$200; 10, Money arising from insurance of exempt property destroyed by fire; 11, Inventions for debts against the inventor; 12, Sewing-machines; 13, Sword, plate, books or articles presented by Congress or Legislature of a State; 14, Printing-material and presses to the value of \$1,500; 15, Earnings of a married person necessary for family support for sixty days previous to issuing process.

LIMITATIONS OF ACTIONS.

Real actions, *twenty years*: persons under disabilities, five years after removal of the same. Judgments of Courts of Record of the State of Wisconsin and sealed instruments when the cause accrues within the State, *twenty years*. Judgments of other Courts of Record and sealed instruments accruing without the State, *ten years*. Other contracts, statute liabilities other than penalties and forfeitures, trespass on real property, trover detainee and replevin, *six years*. Actions against Sheriffs, Coroners and Constables, for acts done in their official capacity, except for escapes, *three years*. Statutory penalties and forfeitures, libel, slander, assault, battery and false imprisonment, *two years*. Actions against Sheriffs, etc., for escapes, *one year*. Persons under disabilities, except infants, may bring action after the disability ceases, provided the period is not extended more than *five years*, and infants *one year* after coming of age. Actions by representatives of deceased persons, *one year* from death; against the same, *one year* from granting letters testamentary or of administration. New promise must be in writing.

COMMERCIAL TERMS.

§—Means dollars, being a contraction of U. S., which was formerly placed before any denomination of money, and meant, as it means now, United States currency.

£—Means pounds, English money.

@—Stands for *at or to*; lb for pounds, and bbl. for barrels; % for *per*, or *by the*. Thus: Butter sells at 20¢ 30¢ % lb, and Flour at \$8 12 % bbl. % for per cent., and Z for numbers.

May 1. Wheat sells at \$1.20 to \$1.25, "seller June." *Seller June* means that the person who sells the wheat has the privilege of delivering it at any time during the month of June.

Selling *short* is contracting to deliver a certain amount of grain or stock at a fixed price, within a certain length of time, when the seller has not the stock on hand. It is for the interest of the person selling *short* to depress the market as much as possible, in order that he may buy and fill his contract at a profit. Hence the "shorts" are termed "bears."

Buying *long* is to contrive to purchase a certain amount of grain or shares of stock at a fixed price, deliverable within a stipulated time, expecting to make a profit by the rise in prices. The "longs" are termed "bulls," as it is for their interest to "operate" so as to "toss" the prices upward as much as possible.

SUGGESTIONS TO THOSE PURCHASING BOOKS BY SUBSCRIPTION.

The business of publishing books by subscription having so often been brought into disrepute by agents making representations and declarations not authorized by the publisher, in order to prevent that as much as possible, and that there may be more general knowledge of the relation such agents bear to their principal, and the law governing such cases, the following statement is made:

A subscription is in the nature of a contract of mutual promises, by which the subscriber agrees to pay a certain sum for the work described; the consideration is concurrent that the publisher shall publish the book named, and deliver the same, for which the subscriber is to pay the price named. The nature and character of the work is described by the prospectus and sample shown. These should be carefully examined before subscribing, as they are the

basis and consideration of the promise to pay, and not the too often exaggerated statements of the agent, who is merely employed to solicit subscriptions, for which he is usually paid a commission for each subscriber, and has no authority to change or alter the conditions upon which the subscriptions are authorized to be made by the publisher. Should the agent assume to agree to make the subscription conditional or modify or change the agreement of the publisher, as set out by the prospectus and sample, in order to bind the principal, the subscriber should see that such condition or changes are stated over or in connection with his signature, so that the publisher may have notice of the same.

All persons making contracts in reference to matters of this kind, or any other business, should remember that the law as written is, that they cannot be altered, varied or rescinded verbally, but, if done at all, must be done in writing. It is therefore important that all persons contemplating subscribing should distinctly understand that all talk before or after the subscription is made, is not admissible as evidence, and is no part of the contract.

Persons employed to solicit subscriptions are known to the trade as canvassers. They are agents appointed to do a particular business in a prescribed mode, and have no authority to do it in any other way to the prejudice of their principal, nor can they bind their principal in any other matter. They cannot collect money, or agree that payment may be made in anything else but money. They cannot extend the time of payment beyond the time of delivery, nor bind their principal for the payment of expenses incurred in their business.

It would save a great deal of trouble, and often serious loss, if persons, before signing their names to any subscription book, or any written instrument, would examine carefully what it is; if they cannot read themselves call on some one disinterested who can.



CONSTITUTION OF THE STATE OF WISCONSIN.

CONDENSED.

PREAMBLE.

We, the People of Wisconsin, grateful to Almighty God for our freedom: in order to secure its blessings, form a more perfect government, insure domestic tranquillity, and promote the general welfare, do establish this Constitution.

ARTICLE I.

DECLARATION OF RIGHTS.

SECTION 1. All men are born free and independent, and have, among other rights, those of life, liberty and pursuit of happiness. Governments are instituted to secure these rights.

SEC. 2. There shall be neither slavery nor involuntary servitude, except for the punishment of crimes.

SEC. 3. Liberty of speech and of the press shall not be abridged.

SEC. 4. The right of the people to peaceably assemble to consult for the common good shall never be abridged.

SEC. 5. The right of trial by jury shall remain inviolate.

SEC. 6. Excessive bail shall not be required, nor excessive fines imposed, nor cruel punishments inflicted.

SEC. 7. In criminal prosecutions, the rights of the accused shall be protected.

SEC. 8. Criminal offenses shall be prosecuted on presentment of a grand jury. No one shall be twice put in jeopardy for the same offense, nor be compelled to be a witness against himself. Every one shall have the right of giving bail except in capital offenses; and the writ of habeas corpus shall not be suspended, except in case of rebellion or invasion.

SEC. 9. Every person is entitled to a certain remedy for all injuries or wrongs.

SEC. 10. Treason consists in levying war against the State, or giving aid and comfort to its enemies. Two witnesses are necessary to convict a person of the crime.

SEC. 11. The people are to be secure against unreasonable searches and seizures.

SEC. 12. Bills of attainder, ex post facto laws, or laws impairing obligation of contracts, shall never be passed.

SEC. 13. No property shall be taken for public use without compensation.

SEC. 14. All laws in the State are allodial. Feudal tenures are prohibited.

SEC. 15. The rights of property are the same in resident aliens and citizens.

SEC. 16. No person shall be imprisoned for debt.

SEC. 17. Wholesome exemption laws shall be passed.

SEC. 18. Liberty of conscience and rights of worship shall never be abridged. The public money shall never be applied to sectarian uses.

SEC. 19. No religious test shall ever be required as a qualification for any office.

SEC. 20. The military shall be in strict subordination to the civil power.

SEC. 21. Writs of error shall never be prohibited by law.

SEC. 22. A free government can only be maintained by adhering to justice, moderation, temperance, frugality and virtue.

ARTICLE II.

BOUNDARIES.

SECTION 1. The boundary of the State, beginning at the northeast corner of the State of Illinois, runs with the boundary line of Michigan, through Lake Michigan and Green Bay, to the mouth of the Mepominie River; up that stream and the Brule River to Lake Brule; along the southern shore of that lake to the Lake of the Desert; thence in a direct line to the head of Montreal River; down the main channel of that stream to the middle of Lake Superior; thence through the center of said lake to the mouth of St. Louis River; up the channel of that stream to the first rapids; thence due south to the main branch of the St. Croix; down that river and the Mississippi to the northwest corner of Illinois; thence due east with the northern boundary of that State to the place of beginning.

SEC. 2. The propositions in the enabling act of Congress are accepted and confirmed.

ARTICLE III.

SUFFRAGE.

SECTION 1. The qualified electors are all male persons twenty-one years of age or upward, who are (1.) white citizens of the United States; (2.) who are white persons of foreign birth that have declared their intentions, according to law, to become citizens; (3) who are persons of Indian blood and citizens of the United States; and (4.) civilized Indians not members of any tribe.

SEC. 2. Persons under guardianship, such as are non compos mentis or insane, and those convicted of treason and felony and not pardoned, are not qualified electors.

SEC. 3. All votes shall be by ballot, except for township officers when otherwise directed by law.

SEC. 4. No person shall be deemed to have lost his residence by reason of his absence on business for the State or United States.

SEC. 5. No person in the army or navy shall become a resident of the State in consequence of being stationed therein.

SEC. 6. Persons convicted of bribery, larceny or any infamous crime, or those who bet on elections, may be excluded by law from the right of suffrage.

ARTICLE IV.

LEGISLATIVE.

SECTION 1. The Legislative power is vested in a Senate and Assembly.

SEC. 2. Members of the Assembly shall never number less than fifty-four, nor more than one hundred; of the Senate, not more than one-third, nor less than one-fourth of the members of the Assembly.

SEC. 3. Census shall be taken, every ten years, of the inhabitants of the State, beginning with 1855, when a new apportionment of members of the Senate and Assembly shall be made; also, after each United States census.

SEC. 4. Members of the Assembly shall be chosen on the Tuesday succeeding the first Monday of November of each year.

SEC. 5. Members of the Senate shall be elected for two years, at the same time and in the same manner as members of the Assembly.

SEC. 6. No person shall be eligible to the Legislature, unless a resident of the State one year, and a qualified elector.

SEC. 7. Each House shall be the judge of the qualifications of its members. A majority shall be necessary to form a quorum.

SEC. 8. Each House shall make its own rules.

SEC. 9. Each House shall choose its own officers.

SEC. 10. Each House shall keep a journal of its proceedings.

SEC. 11. The Legislature shall meet at the seat of government once a year.

SEC. 12. No member shall be eligible to any other civil office in the State, during the term for which he was elected.

SEC. 13. No member shall be eligible to any office of the United States, during the term for which he was elected.

SEC. 14. Writs of election, to fill vacancies in either House, shall be issued by the Governor.

SEC. 15. Except treason, felony and breach of the peace, members are privileged from arrest in all cases: nor subject to any civil process during a session.

SEC. 16. Members are not liable for words spoken in debate.

SEC. 17. The style of all laws shall be, "The people of the State of Wisconsin represented in Senate and Assembly, do enact as follows:"

SEC. 18. Private or local bills shall not embrace more than one subject.

SEC. 19. Bills may originate in either House, and a bill passed by one House may be amended by the other.

SEC. 20. Yeas and nays, at the request of one-sixth of the members present, shall be entered on the journal.

SEC. 21. [Each member shall receive, as an annual compensation, three hundred and fifty dollars and ten cents for each mile traveled in going to and returning from the seat of government.] As amended in 1867.

SEC. 22. Boards of Supervisors may be vested with powers of a local, legislative and administrative character, such as shall be conferred by the Legislature.

SEC. 23. One system only, of town and county government, shall be established by the Legislature.

SEC. 24. The Legislature shall never authorize any lottery, or grant any divorce.

SEC. 25. Stationery, for State use and State printing, shall be let by contract to the lowest bidder.

SEC. 26. Extra compensation to any public officer shall not be granted after service is rendered, nor shall his compensation be increased or diminished during his term of office.

SEC. 27. The Legislature shall direct, by law, in what manner and in what Courts suits against the State may be brought.

SEC. 28. Public officers shall all take an oath of office.

SEC. 29. The Legislature shall determine what persons shall constitute the militia, and may provide for organizing the same.

SEC. 30. Members of the Legislature shall vote *viva voce* in all elections made by them.

SEC. 31. [Special legislation is prohibited (1) for changing the names of persons, or constituting one person the heir-at-law of another; (2) for laying out, opening or altering highways, except in certain cases; (3) for authorizing persons to keep ferries; (4) for authorizing the sale of the property of minors; (5) for locating a county seat; (6) for assessment of taxes; (7) for granting corporate powers, except to cities; (8) for apportioning any part of the school fund; and (9) for incorporating any town or village, or to award the charter thereof]. Added by amendment, in 1871.

SEC. 32. [General laws shall be passed for the transaction of any business prohibited by Section 21 of this Article.] Added by amendment, in 1871.

ARTICLE V.

SECTION 1. The executive power shall be vested in a Governor, who shall hold his office two years. A Lieutenant Governor shall be elected at the same time and for the same term.

SEC. 2. Governor and Lieutenant Governor must be citizens of the United States, and qualified electors of the State.

SEC. 3. Governor and Lieutenant Governor are elected at the times and places of choosing members of the Legislature.

SEC. 4. The Governor shall be (1) commander-in-chief of the military and naval forces of the State; (2) he has power to convene the Legislature in extra session; (3) he shall communicate to the Legislature all necessary information; (4) he shall transact all necessary business with the officers of the State; and (5) shall expedite all legislative measures, and see that the laws are faithfully executed.

SEC. 5. [The Governor's salary shall be five thousand dollars per annum.] As amended in 1869.

SEC. 6. The Governor shall have power to grant reprieves and pardons.

SEC. 7. The executive duties shall devolve upon the Lieutenant Governor when, from any cause, the executive office is vacated by the Governor.

SEC. 8. The Lieutenant Governor shall be President of the Senate. The Secretary of State shall act as Governor when both the Governor and Lieutenant Governor are incapacitated from any causes to fill the executive office.

SEC. 9. [The Lieutenant Governor shall receive a salary of one thousand dollars per annum.] As amended in 1869.

SEC. 10. All legislative bills shall be presented to the Governor for his signature before they become laws. Bills returned by the Governor without his signature may become laws by agreement of two-thirds of the members present in each house.

ARTICLE VI.

ADMINISTRATION.

SECTION 1. A Secretary of State, Treasurer and Attorney General shall be elected at the times and places of choosing members of the Legislature, who shall severally hold their offices for two years.

SEC. 2. The Secretary of State shall keep a record of the official acts of the Legislature and Executive Department. He shall be ex officio Auditor.

SEC. 3. The powers, duties and compensation of the Treasurer and Attorney General shall be prescribed by law.

SEC. 4. Sheriffs, Coroners, Registers of Deeds and District Attorneys shall be elected every two years.

ARTICLE VII.

JUDICIARY.

SECTION 1. The Senate shall form the Court of Impeachment. Judgment shall not extend farther than removal from office; but the person impeached shall be liable to indictment, trial and punishment, according to law.

SEC. 2. The judicial power of the State is vested in a Supreme Court, Circuit Courts, Courts of Probate, and in Justices of the Peace. Municipal courts, also, may be authorized.

SEC. 3. The Supreme Court shall have appellate jurisdiction only. Trial by jury is not allowed in any case. The Court shall have a general superintending control over inferior courts, and power to issue writs of habeas corpus, mandamus, injunction, quo warranto, certiorari, and other original and remedial writs.

SEC. 4. [The Supreme Court shall consist of one Chief Justice, and four Associate Justices, each for the term of ten years.] As amended in 1877.

SEC. 5. The State shall be divided into five Judicial Circuits.

SEC. 6. The Legislature may alter the limits or increase the number of the circuits.

SEC. 7. There shall be a Judge chosen for each Circuit, who shall reside therein; his term of office shall be six years.

SEC. 8. The Circuit Courts shall have original jurisdiction in all matters civil and criminal, not excepted in this Constitution, and not prohibited hereafter by law, and appellate jurisdiction from all inferior courts. They shall have power to issue writs of habeas corpus, mandamus, injunction, quo warranto, certiorari, and all other writs necessary to carry their orders and judgments into effect.

SEC. 9. Vacancies in the office of Supreme or Circuit Judge shall be filled by the Governor. Election for Judges shall not be at any general election, nor within thirty days before or after said election.

SEC. 10. Judges of the Supreme and Circuit Courts shall receive a salary of not less than one thousand five hundred dollars, and shall hold no other office, except a judicial one, during the term for which they are respectively elected. Each Judge shall be a citizen of the United States, and have attained the age of twenty-five years. He shall also be a qualified elector within the jurisdiction for which he may be chosen.

SEC. 11. The Supreme Court shall hold at least one term annually. A Circuit Court shall be held at least twice in each year, in each county of this State organized for judicial purposes.

SEC. 12. There shall be a Clerk of the Circuit Court chosen in each county, whose term of office shall be two years. The Supreme Court shall appoint its own Clerk.

SEC. 13. Any Judge of the Supreme or Circuit Court may be removed from office by vote of two-thirds of all the members elected to both Senate and Assembly.

SEC. 14. A Judge of Probate shall be elected in each county, who shall hold his office for two years.

SEC. 15. Justices of the Peace shall be elected in the several towns, villages and cities of the State, in such manner as the Legislature may direct, whose term of office shall be two years. Their civil and criminal jurisdiction shall be prescribed by law.

SEC. 16. Laws shall be passed for the regulation of tribunals of conciliation. These may be established in and for any township.

SEC. 17. The style of all writs and process shall be "The State of Wisconsin." Criminal prosecutions shall be carried on in the name and by authority of the State; and all indictments shall conclude against the peace and dignity of the same.

SEC. 18. A tax shall be imposed by the Legislature on all civil suits, which shall constitute a fund, to be applied toward the payment of the salary of Judges.

SEC. 19. Testimony in equity causes shall be taken the same as in cases at law. The office of Master in Chancery is prohibited.

SEC. 20. Any suitor may prosecute or defend his case in his own proper person, or by attorney or agent.

SEC. 21. Statute laws and such judicial decisions as are deemed expedient, shall be published. No general law shall be in force until published.

SEC. 22. The Legislature at its first session shall provide for the appointment of three Commissioners to revise the rules of practice in the several Courts of Record in the State.

SEC. 23. The Legislature may confer judicial powers on one or more persons in each organized county of the State. Powers granted to such Commissioners shall not exceed that of a Judge of a Circuit Court at chambers.

ARTICLE VIII.

FINANCE.

SECTION 1. Taxation shall be uniform, and taxes shall be levied upon such property as the Legislature may prescribe.

SEC. 2. [No money shall be paid out of the treasury except in pursuance of an appropriation by law. Claims made against the State must be filed within six years after having accrued.] As amended in 1877.

SEC. 3. The credit of the State shall never be given or loaned in aid of any individual, association or corporation.

SEC. 4. The State shall never contract any public debt, except in the cases and manner provided in this Constitution.

SEC. 5. A tax shall be levied each year sufficient to defray estimated expenses.

SEC. 6. Debts not to exceed one hundred thousand dollars may be contracted by the State, which shall be paid within five years thereafter.

SEC. 7. The Legislature may borrow money to repel invasion, suppress insurrection or defend the State in time of war.

SEC. 8. All fiscal laws in the Legislature shall be voted on by yeas and nays.

SEC. 9. State scrip shall not be issued except for such debts as are authorized by the sixth and seventh sections of this article.

SEC. 10. No debt for internal improvements shall be contracted by the State.

ARTICLE IX.

EMINENT DOMAIN AND PROPERTY OF THE STATE.

SECTION 1. The State shall have concurrent jurisdiction on all rivers and lakes bordering on Wisconsin.

SEC. 2. The title to all property which has accrued to the Territory of Wisconsin shall vest in the State of Wisconsin.

SEC. 3. The ultimate property in and to all lands of the State is possessed by the people.

ARTICLE X.

EDUCATION.

SECTION 1. The supervision of public instruction shall be vested in a State Superintendent and such other officers as the Legislature shall direct. The annual compensation of the State Superintendent shall not exceed twelve hundred dollars.

SEC. 2. The school fund to support and maintain common schools, academies and normal schools, and to purchase apparatus and libraries therefor, shall be created out of (1) the proceeds of lands from the United States; (2) out of forfeitures and escheats; (3) out of moneys paid as exemptions from military duty; (4) out of fines collected for breach of penal laws; (5) out of any grant to the State where the purposes of such grant are not specified; (6) out of the proceeds of the sale of five hundred thousand acres of land granted by Congress September 14, 1841; and (7) out of the five per centum of the net proceeds of the public lands to which the State shall become entitled on her admission into the Union (if Congress shall consent to such appropriation of the two grants last mentioned.)

SEC. 3. District schools shall be established by law which shall be free to all children between the ages of four and twenty years. No sectarian instruction shall be allowed therein.

SEC. 4. Each town and city shall raise for common schools therein by taxation a sum equal to one-half the amount received from the school fund of the State.

SEC. 5. Provisions shall be made by law for the distribution of the income of the school fund among the several towns and cities for the support of common schools therein; but no appropriation shall be made when there is a failure to raise the proper tax, or when a school shall not have been maintained at least three months of the year.

SEC. 6. Provision shall be made by law for the establishment of a State University. The proceeds of all lands granted for the support of a university by the United States shall constitute "the University fund," the interest of which shall be appropriated to the support of the State University. No sectarian instruction shall be allowed in such university.

SEC. 7. The Secretary of State, Treasurer and Attorney General shall constitute a Board of Commissioners to sell school and university lands and for the investments of the proceeds thereof.

SEC. 8. School and university lands shall be appraised and sold according to law. The Commissioners shall execute deeds to purchasers, and shall invest the proceeds of the sales of such lands in such manner as the Legislature shall provide.

ARTICLE XI.

CORPORATIONS.

SECTION 1. Corporations without banking powers may be formed under general laws, but shall not be created by special act, except for municipal purposes, and in cases where, in the judgment of the Legislature, the objects of the corporation cannot be attained under general laws.

SEC. 2. No municipal corporation shall take private property for public use, against the consent of the owner, except by jury trial.

SEC. 3. Cities and incorporated villages shall be organized, and their powers restricted by law so as to prevent abuses. [No county, city, town, village, school district, or other municipal corporation, shall become indebted to exceed five per centum on the value of the taxable property therein.] As amended in 1874.

SEC. 4. Banks shall not be created except as provided in this article.

SEC. 5. The question of "bank" or "no bank" may be submitted to the voters of the State; and if a majority of all the votes cast shall be in favor of banks, the Legislature shall have power to grant bank charters, or pass a general banking law.

ARTICLE XII.

SECTION 1. Amendments to the Constitution may be proposed in either house of the Legislature, and referred to the next Legislature and published for three months previous. If agreed to by a majority of all the members elected to each house, then the amendment or amendments shall submit them to the vote of the people; and if the people shall approve and ratify such amendment or amendments, they shall become a part of the Constitution.

SEC. 2. If a convention to revise or change the Constitution shall be deemed necessary by the Legislature, they shall recommend to the electors of the State to vote at the next general election for or against the same. If the vote shall be for the calling of such convention, then the Legislature, at its next session, shall provide for the same.

ARTICLE XIII.

MISCELLANEOUS PROVISIONS.

SECTION 1. The political year for Wisconsin shall commence on the first Monday in January in each year. General elections shall be holden on the Tuesday succeeding the first Monday in November.

SEC. 2. A duelist shall not be qualified as an elector in this State.

SEC. 3. United States officers (except Postmasters), public defaulters, or persons convicted of infamous crimes, shall not be eligible to office in this State.

SEC. 4. A great seal for the State shall be provided, and all official acts of the Governor (except his approbation of the laws), shall be authenticated thereby.

SEC. 5. Residents on Indian lands may vote, if duly qualified, at the polls nearest their residence.

SEC. 6. Elective officers of the Legislature, other than the presiding officers, shall be a Chief Clerk, and a Sergeant-at-Arms, to be elected by each House.

SEC. 7. No county with an area of nine hundred square miles or less, shall be divided, without submitting the question to the vote of the people of the county.

SEC. 8. [The Legislature is prohibited from enacting any special or private laws, for locating or changing any county seat.] See amendment adopted in 1871, as Sec. 31 (Subdivision 5) of Art. IV.

SEC. 9. Officers not provided for by this Constitution shall be elected as the Legislature shall direct.

SEC. 10. The Legislature may declare the cases in which any office shall be deemed vacant, and also the manner of filling the vacancy, where no provision is made for that purpose in this Constitution.

ARTICLE XIV.

SCHEDULE.

SECTION 1. All rights under the Territorial government are continued under the State government. Territorial processes are valid after the State is admitted into the Union.

SEC. 2. Existing laws of the Territory of Wisconsin not repugnant to this Constitution shall remain in force until they expire by limitation or are altered or repealed.

SEC. 3. All fines, penalties or forfeitures accruing to the Territory of Wisconsin shall inure to the use of the State.

SEC. 4. Territorial recognizances, bonds and public property shall pass to and be vested in the State. Criminal prosecutions, offenses committed against the laws, and all actions at law and suits in equity in the Territory of Wisconsin shall be contained in and prosecuted by the State.

SEC. 5. Officers holding under authority of the United States or of the Territory of Wisconsin shall continue in office until superseded by State authority.

SEC. 6. The first session of the State Legislature shall commence on the first Monday in June next, and shall be held at the village of Madison, which shall be and remain the seat of government until otherwise provided by law.

SEC. 7. Existing county and town officers shall hold their offices until the Legislature of the State shall provide for the holding of elections to fill such offices.

SEC. 8. A copy of this Constitution shall be transmitted to the President of the United States to be laid before Congress at its present session.

SEC. 9. This Constitution shall be submitted to the vote of the people for ratification or rejection on the second Monday in March next. If ratified, an election shall be held for Governor, Lieutenant Governor, Treasurer, Attorney General, members of the State Legislature and members of Congress, on the second Monday of May next.

SEC. 10. [*Omitted.* See Section 1, Chapter 3, Acts of Extra Session of 1878.]

SEC. 11. The several elections provided for in this Article shall be conducted according to the existing laws of the Territory of Wisconsin.

SEC. 12. [*Omitted.* See Section 1, Chapter 3, Acts of Extra Session of 1878.]

SEC. 13. The common law in force in the Territory of Wisconsin shall continue in force in the State until altered or suspended by the Legislature.

SEC. 14. The Senators first elected in the even-numbered Senate districts, the Governor, Lieutenant Governor and other State officers first elected under this Constitution, shall enter upon their duties on the first Monday of June next, and hold their offices for one year from the first Monday of January next. The Senators first elected in the odd-numbered districts and the

members of the Assembly first elected shall enter upon their duties on the first Monday of June next, and continue in office until the first Monday in January next.

SEC. 15. The oath of office may be administered by any Judge or Justice of the Peace, until the Legislature shall otherwise direct.

We, the undersigned, members of the Convention to form a Constitution for the State of Wisconsin, to be submitted to the people thereof for their ratification or rejection, do hereby certify that the foregoing is the Constitution adopted by the Convention.

In testimony whereof, we have hereunto set our hands, at Madison, the 1st day of February, A. D. 1848.

MORGAN L. MARTIN,

President of the Convention and Delegate from Brown County.

THOMAS MCHUGH,

Secretary.

CONSTITUTION OF THE UNITED STATES.

C O N D E N S E D.

PREAMBLE.

We, the people of the United States, in order to form a more perfect union, establish justice, insure domestic tranquillity, provide for the common defense, promote the general welfare, and secure the blessings of liberty to ourselves and our posterity, do ordain and establish this Constitution for the United States of America.

ARTICLE I.

SECTION 1. All legislative powers herein granted shall be vested in a Congress, which shall consist of a Senate and House of Representatives.

SEC. 2. The House of Representatives shall be composed of members chosen every second year by the people of the States, and electors shall have qualifications for electors of the most numerous branch of the State Legislature.

Representatives must be twenty-five years of age, and must have been seven years citizens of the United States, and inhabitants of the State in which they shall be chosen.

Representatives and direct taxes shall be apportioned among the several States according to population, which shall be determined by adding to the whole number of free persons, including apprentices and excluding Indians not taxed, three-fifths of all other persons. The enumeration shall be made within three years after the first meeting of Congress, and every ten years thereafter in such manner as Congress shall by law direct. States shall have one Representative only for each thirty thousand, but each State shall have at least one Representative; and until such enumeration shall be made, New Hampshire shall choose three; Massachusetts, eight; Rhode Island, one; Connecticut, five; New York, six; New Jersey, four; Pennsylvania, eight; Delaware, one; Maryland, six; Virginia, ten; North Carolina, five; South Carolina, five, and Georgia, three.

Vacancies in the representation from any State shall be filled by elections, ordered by the executive authority of the State.

The House of Representatives shall choose their Speaker and other officers, and shall have the sole power of impeachment.

SEC. 3. The Senate shall be composed of two Senators from each State, chosen by the Legislature thereof for six years; and each Senator shall have one vote.

Senators shall be divided as equally as may be into three classes immediately after assembling, in consequence of the first election. The first class shall vacate their seats at the expiration of the second year; the second class, at the expiration of the fourth year, and the third class, at the expiration of the sixth year, so that one-third may be chosen every second year; and vacancies happening by resignation or otherwise during the recess of the Legislature of any State may be filled by temporary appointments of the Executive until the next meeting of the Legislature.

All Senators shall have attained the age of thirty years, and shall have been nine years citizens of the United States, and shall be inhabitants of the State for which they shall be chosen.

The Vice President of the United States shall be President of the Senate, but shall have no vote, unless they be equally divided.

The Senate shall choose their other officers and also a President pro tempore, in the absence of the Vice President, or when he shall exercise the office of President,

The Senate shall have the sole power to try impeachments. When sitting for that purpose, they shall be on oath or affirmation. When the President is tried, the Chief Justice shall preside, and concurrence of two-thirds of the members present shall be necessary to conviction.

Judgment in cases of impeachment shall be limited to removal from office and disqualification to hold any office under the United States; but the party convicted shall be liable to trial and punishment according to law.

SEC. 4. The Legislature of each State shall prescribe the times, places and manner of holding elections for Senators and Representatives, but Congress may make or alter such regulations, except as to the place of choosing Senators.

Congress shall assemble annually, on the first Monday in December, unless a different day be appointed.

SEC. 5. Each House shall be the judge of the elections, returns and qualifications of its own members, and a majority of each shall constitute a quorum to do business; but a smaller number may adjourn from day to day, and may compel attendance of absent members, under penalties.

Each House may determine its own rules of proceeding, punish its members, and, by a two-thirds vote, expel a member.

Each House shall keep a journal, which shall be published at their discretion, and one-fifth of those present may require the yeas and nays to be entered on the journal.

Neither House shall adjourn for more than three days without the consent of the other, nor to any other place than that in which they are sitting.

SEC. 6. The compensation of Senators and Representatives shall be fixed by law, and paid out of the Treasury of the United States. They shall be privileged from arrest during attendance at the session of their respective Houses, except for treason, felony and breach of the peace, and shall not be questioned in any other place for any speech or debate in either House.

No Senator or Representative shall, during the time for which he was elected, be appointed to any civil office under the United States which shall have been created or the emoluments whereof shall have been increased during such time; and no person holding office under the United States shall be a member of either House during his continuance in office.

SEC. 7. All bills for raising revenue shall originate in the House of Representatives, but may be amended by the Senate.

Every bill passed by the House of Representatives and the Senate shall, before it becomes a law, be presented to the President; if he approve, he shall sign it; but if not, he shall return

it, with his objections, to that House in which it originated, who shall enter the objections on their journal and proceed to reconsider it. If, after reconsideration, two-thirds shall agree to pass the bill, it shall be sent, with the objections, to the other House, and, if approved by two-thirds of that House, it shall become a law. But in all such cases, the yeas and nays shall be taken, and entered upon the journal of each House, respectively. Any bill not returned by the President within ten days (Sundays excepted) after it shall have been presented to him, shall be a law, as if he had signed it, unless Congress, by adjournment, shall prevent its return, in which case it shall not be a law.

Every order, resolution or vote requiring the concurrence of the Senate and House of Representatives (except a question of adjournment), shall be approved by the President before taking effect; or, being disapproved by him, shall be re-passed by a two-thirds vote of each House, as in the case of a bill.

SEC. 8. Congress shall have power:

To lay and collect taxes, duties, imposts and excises, to pay the debts and provide for the common defense and general welfare of the United States; but all duties, imposts and excises shall be uniform throughout the United States;

To borrow money on the public credit;

To regulate commerce with foreign nations, and among the several States and with the Indian tribes;

To establish a uniform rule of naturalization, and uniform laws on the subject of bankruptcies;

To coin money, regulate the value thereof and foreign coin, and fix the standard of weights and measures;

To provide for the punishment of counterfeiting the securities and current coin of the United States;

To establish post offices and post roads;

To promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries;

To constitute tribunals inferior to the Supreme Court;

To define and punish piracies and felonies committed on the high seas, and offenses against the laws of nations;

To declare war, grant letters of marque and reprisal, and make rules concerning captures on land and water;

To raise and support armies, but no appropriation of money to that use shall be for a longer term than two years;

To provide and maintain a navy;

To make rules for the government and regulation of the land and naval forces;

To provide for calling forth the militia to execute the laws of the Union, suppress insurrection and repel invasions;

To provide for organizing, arming and disciplining the militia, and for governing such parts of them as may be employed in the service of the United States—the several States to appoint the officers and to train the militia according to the discipline prescribed by Congress;

To exercise exclusive legislation, in all cases, over the seat of Government, and over all forts, magazines, arsenals, dock-yards and other needful buildings; and

To make all laws necessary and proper for carrying into execution all powers vested by this Constitution in the Government of the United States, or in any department or officer thereof.

SEC. 9. Foreign immigration or the importation of slaves into the States shall not be prohibited by Congress prior to the year one thousand eight hundred and eight, but a tax or duty may be imposed not exceeding ten dollars for each person so imported.

The writ of habeas corpus shall not be suspended, unless required by the public safety in cases of rebellion or invasion.

No bill of attainder or ex post facto law shall be passed.

No capitation or other direct tax shall be laid, unless in proportion to the census or enumeration hereinbefore directed to be made.

No tax or duty shall be laid on articles exported from any State.

In regulating commerce or revenue, no preference shall be given to the ports of one State over those of another; nor shall vessels bound to or from one State be obliged to enter, clear or pay duties in another.

No money shall be drawn from the Treasury unless appropriated by law; and accounts of the receipts and expenditures of all public money shall be published from time to time.

No title of nobility shall be granted by the United States; and no person holding any office under them shall accept any present, emolument, office or title from any foreign State, without the consent of Congress.

SEC. 10. No State shall enter into any treaty, alliance or confederation; grant letters of marque and reprisal; coin money; emit bills of credit; make anything but gold and silver coin a tender in payment of debts; pass bills of attainder, ex post facto laws, or law impairing the obligation of contracts, or grant any title of nobility.

No State shall, without the consent of Congress, lay any imposts or duties on imports or exports, except for the execution of its inspection laws; and all such duties shall be for the use of the United States; and all such laws shall be subject to the revision and control of Congress.

No State shall, without the consent of Congress, lay any duty of tonnage, keep troops or ships of war in time of peace, enter into any agreement or compact with another State or with a foreign power, or engage in war unless actually invaded or in imminent and immediate danger.

ARTICLE II.

SECTION 1. The executive power shall be vested in a President. He shall hold office for four years, and, together with the Vice President chosen for the same term, shall be elected as follows:

Each State shall appoint in the manner directed by the Legislature, a number of electors equal to the whole number of its Senators and Representatives in Congress; but no Senator or Representative or person holding any office under the United States shall be appointed an elector.

[The third clause of this section has been superseded and amended by the 12th Amendment.]
Congress may determine the time of choosing the electors, and the day on which they shall give their votes, which day shall be the same throughout the United States.

A natural born citizen, or a citizen of the United States at the time of the adoption of this Constitution, only shall be eligible to the office of President; and he must have attained the age of thirty-five years, and been fourteen years a resident within the United States.

If the President be removed from office, die, resign, or become unable to discharge the duties of his office, the same shall devolve upon the Vice President, and Congress may provide by law for the case of removal, death, resignation or inability of both the President and Vice President, declaring what officer shall then act as President, and such officer shall act accordingly, until the disability be removed or a President elected.

The President shall receive a compensation for his services, which shall be neither increased nor diminished during the period for which he shall have been elected; and within that period he shall not receive any other emolument from the United States or from any of them.

Before entering upon office he shall take the following oath or affirmation: "I do solemnly swear (or affirm) that I will faithfully execute the office of President of the United States, and will, to the best of my ability, preserve, protect and defend the Constitution of the United States."

* By act of March 1, 1792, Congress provided for the contingency, designating the President of the Senate *pro tempore*, or if there be none the Speaker of the House of Representatives, to succeed to the chief Executive office in the event of a vacancy in the offices of both President and Vice President.

† The President's salary was fixed February 19, 1793, at \$25,000, and was increased March 3, 1853, to \$50,000.

SEC. 2. The President shall be the Commander-in-Chief of the army and navy of the United States, and of the militia of the several States, when in actual service of the United States; he may require the written opinion of the principal officers of the several executive departments upon subjects relating to the duties of their respective offices, and shall have power to grant reprieves and pardons for offenses against the United States, except in cases of impeachment.

He shall have power, by and with the advice and consent of the Senate, to make treaties, provided two-thirds of the Senators present concur, and shall nominate to the Senate ambassadors, other public ministers and consuls, Judges of the Supreme Court, and all other officers of the United States whose appointment is not otherwise provided for; but Congress may vest the appointment of inferior officers in the President alone, in the courts of law, or in the heads of departments.

The President may fill all vacancies that may happen during the recess of the Senate, by granting commissions which shall expire at the end of their next session.

He shall, from time to time, give Congress information of the state of the Union, and recommend measures to their consideration; he may, on extraordinary occasions, convene both Houses or either of them, and, in case of disagreement between them as to the time of adjournment, he may adjourn them to such time as he shall think proper; he shall receive ambassadors and other public ministers; he shall take care that the laws be faithfully executed, and shall commission all the officers of the United States.

SEC. 4. The President, Vice President and all civil officers of the United States, shall be removed from office on impeachment for and conviction of treason, bribery, or other high crimes and misdemeanors.

ARTICLE III.

SECTION 1. The judicial power of the United States shall be vested in one Supreme Court, and in such inferior courts as Congress may establish. The Judges, both of the Supreme and inferior Courts, shall hold their offices during good behavior, and shall receive a compensation which shall not be diminished during their continuance in office.

SEC. 2. The judicial power shall extend to all cases, in law and equity, arising under this Constitution, the laws of the United States, treaties, cases affecting ambassadors, other public ministers and consuls, all cases of admiralty and maritime jurisdiction; to controversies to which the United States shall be a party; controversies between two or more States; between a State and citizens of another State; between citizens of different States; between citizens of the same State claiming lands under grants of different States, and between a State or the citizens thereof and foreign States, citizens or subjects.

In all cases affecting Ministers and Consuls, and those in which a State is a party, the Supreme Court shall have original jurisdiction. In all other cases mentioned, the Supreme Court shall have appellate jurisdiction, both as to law and fact, subject to exceptions and regulations made by Congress.

All crimes, except in cases of impeachment, shall be tried by jury, and in the State where the crime was committed; but Congress shall fix the place of trial for crimes not committed within any State.

SEC. 3. Treason against the United States shall consist only in levying war against them, or in adhering to their enemies, giving them aid and comfort. No person shall be convicted of treason unless on the testimony of two witnesses to the same overt act, or on confession in open court.

Congress shall have power to declare the punishment of treason, but no attainder of treason shall work corruption of blood or forfeiture, except during the life of the person attainted.

ARTICLE IV.

SECTION 1. Each State shall give full faith and credit to the public acts, records and judicial proceedings of every other State, and Congress may prescribe the manner in which such acts, records and proceedings shall be proved, and the effect thereof.

SEC. 2. The citizens of each State shall be entitled to all privileges and immunities of citizens in the several States.

Fugitives from justice in any State found in another State, shall, on demand of the Executive, be delivered up and removed to the State having jurisdiction of the crime.

No person held to service or labor in one State under the laws thereof, escaping into another, shall, in consequence of any law or regulation therein, be discharged from such service or labor, but shall be delivered up on claim of the party to whom such service or labor may be due.

SEC. 3. New States may be admitted to the Union, but no new State shall be formed within the jurisdiction of any other State; nor by the junction of two or more States, or parts of States, without the consent of the Legislatures of the States concerned, as well as of Congress.

Congress shall have power to dispose of and to regulate and govern the territory or other property belonging to the United States; and nothing in this Constitution shall be construed to prejudice any claims of the United States, or any particular State.

Every State shall be guaranteed a republican form of government, and shall be protected against invasion; and on an application of the Legislature, or of the executive (when the Legislature cannot be convened), against domestic violence.

ARTICLE V.

Congress, whenever two-thirds of both Houses shall deem it necessary, shall propose amendments to this Constitution, or, on application of two-thirds of the Legislatures of the several States, shall call a convention for proposing amendments, which, in either case, shall be valid to all intents and purposes, as part of this Constitution when ratified by the Legislatures of three-fourths of the several States, or by conventions in three-fourths thereof, as the one or the other mode of ratification may be proposed by the Congress; provided that no amendment which may be made prior to the year one thousand eight hundred and eight shall in any manner affect the first and fourth clauses in the ninth section of the first article; and that no State, without its consent, shall be deprived of its equal suffrage in the Senate.

ARTICLE VI.

All existing debts and engagements shall be valid against the United States under this Constitution.

This Constitution and the laws of the United States made in pursuance thereof, and all treaties made under the authority of the United States, shall be the supreme law of the land, and the Judges in every State shall be bound thereby; anything in the Constitution or laws of any State to the contrary notwithstanding.

Senators and Representatives, members of the several State Legislatures, and all executive and judicial officers, both of the United States and of the several States, shall be bound by oath or affirmation, to support this Constitution; but no religious test shall ever be required as a qualification to any office or public trust under the United States.

ARTICLE VII.

The ratification of the Convention of nine States shall be sufficient for the establishment of this Constitution between the States so ratifying the same.

DONE in convention by the unanimous consent of the States present, the seventeenth day of September, in the year of our Lord one thousand seven hundred and eighty-seven, and of the independence of the United States of America the twelfth.

IN WITNESS WHEREOF we have hereunto subscribed our names.

GEORGE WASHINGTON,
President and Deputy from Virginia.

[Other signatures omitted.]

AMENDMENTS TO THE CONSTITUTION OF THE UNITED STATES OF AMERICA.

Proposed by Congress and ratified by the Legislatures of the several States, pursuant to the Fifth Article of the original Constitution.

ARTICLE I.

Congress shall make no law respecting religion, or prohibiting the free exercise thereof; or abridging the freedom of speech or of the press; or of the right of the people peaceably to assemble and to petition the Government for a redress of grievances.

ARTICLE II.

A well-regulated militia being necessary to the security of a free State, the right of the people to keep and bear arms shall not be infringed.

ARTICLE III.

No soldier shall, in time of peace, be quartered in any house without the consent of the owner, nor in time of war, but in a manner to be prescribed by law.

ARTICLE IV.

The right of the people to be secure in their persons and property against unreasonable searches and seizures shall not be violated, and no warrants shall issue but upon probable cause, supported by oath or affirmation, and particularly describing the place to be searched and the persons or things to be seized.

ARTICLE V.

No person shall be held to answer for any infamous crime unless on an indictment of a grand jury, except in cases arising in the land or naval forces, or in the militia, when in actual service in time of war or public danger; nor shall any person be twice put in jeopardy of life or limb for the same offense; nor shall he be compelled, in any criminal case, to be a witness against himself, nor be deprived of life, liberty or property without due process of law; nor shall private property be taken for public use without just compensation.

ARTICLE VI.

In all criminal prosecutions, the accused shall enjoy the right to speedy and public trial, by an impartial jury of the State and district wherein the crime shall have been committed, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the assistance of counsel for his defense.

ARTICLE VII.

In suits at common law, when the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury shall be otherwise re-examined in any court of the United States than according to the rules of the common law.

ARTICLE VIII.

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

ARTICLE IX.

The enumeration in the Constitution of certain rights shall not be construed to deny or disparage others retained by the people.

ARTICLE X.

The powers not delegated to the United States by the Constitution, nor prohibited by it to the States, are reserved to the States respectively or to the people.

ARTICLE XI.

The judicial power of the United States shall not be construed to extend to any suit in law or equity commenced or prosecuted against one of the United States by citizens of another State, or by citizens or subjects of any foreign State.

ARTICLE XII.

The electors shall meet in their respective States, and vote by ballot for President and Vice President, one of whom, at least, shall not be an inhabitant of the same State with themselves; distinct ballots shall be made for President and Vice President, and distinct lists made of such ballots and of the number of votes for each, which lists they shall sign and certify and transmit sealed to the seat of government, addressed to the President of the Senate; the President of the Senate shall, in presence of the Senate and House of Representatives, open all the certificates, and the votes shall then be counted; the person having the greatest number of votes for President shall be President, if such number be a majority of the whole number of electors appointed; if no person have such majority, then from those having the highest numbers, not exceeding three on the list of those voted for as President, the House of Representatives shall choose immediately by ballot the President. But, in choosing the President, the vote shall be taken by States, each State having one vote; a quorum for this purpose shall consist of a member or members from two-thirds of the States, and a majority of all the States shall be necessary to a choice. If, whenever the right of choice shall devolve upon them, the House of Representatives shall not choose a President before the fourth day of March next following, then the Vice President shall act as President, as in the case of death or disability of the President. The person having the greatest number of votes as Vice President shall be the Vice President, if such number be a majority of the whole number of electors appointed, and if no person have a majority, then from the two highest numbers on the list, the Senate shall choose the Vice President; a quorum for the purpose shall consist of two-thirds of the whole number of Senators, and a majority of the whole number shall be necessary to a choice. But no person ineligible to the office of President shall be eligible to that of Vice President of the United States.

ARTICLE XIII.

SECTION 1. Neither slavery nor involuntary servitude, except as a punishment for crime whereof the party shall have been duly convicted, shall exist within the United States, or any place subject to their jurisdiction.

SEC. 3. Congress shall have power to enforce this article by appropriate legislation.

ARTICLE XIV.

SECTION 1. All persons born or naturalized in the United States, or subject to the jurisdiction thereof, are citizens of the United States, and of the State wherein they reside. No State shall make or enforce any law which shall abridge the privileges or immunities of citizens of the United States; nor shall any State deprive any person of life, liberty or property without

due process of law, nor deny to any person within its jurisdiction the equal protection of the law.

SEC. 2. Representatives shall be apportioned among the States according to population, counting the whole number of persons in each State, including Indians not taxed. But when the right to vote is denied to any of the male inhabitants of a State, being twenty-one years of age and citizens of the United States, or in any way abridged, except for participation in rebellion or other crime, the basis of representation therein shall be reduced in the proportion which the number of such male citizens shall bear to the whole number of male citizens twenty-one years of age in such State.

SEC. 3. No person shall hold any office under the United States or under any State, who having previously, as an officer of the United States of any State, taken an oath to support the Constitution of the United States, shall have engaged in insurrection or rebellion against the same, or given aid and comfort to the enemies thereof. But Congress may, by a vote of two-thirds of each House, remove such disability.

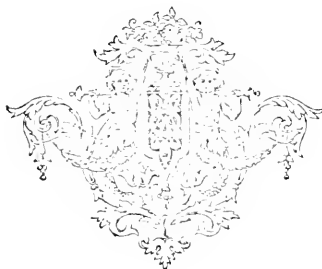
SEC. 4. The validity of the public debt of the United States, including pensions and bounties, shall not be questioned. But neither the United States nor any State shall assume or pay any debt or obligation incurred in aid of insurrection or rebellion against the United States, or any claim for the loss or emancipation of any slave; but all such debts, obligations and claims shall be held illegal and void.

SEC. 5. Congress shall have power to enforce, by appropriate legislation, the provisions of this article.

ARTICLE XV.

SECTION 1. The right of citizens to vote shall not be denied or abridged by the United States, or by any State, on account of race, color, or previous condition of servitude.

SEC. 2. Congress shall have power to enforce this article by appropriate legislation.



ALPHABETICAL LIST OF COUNTIES AND CITIES

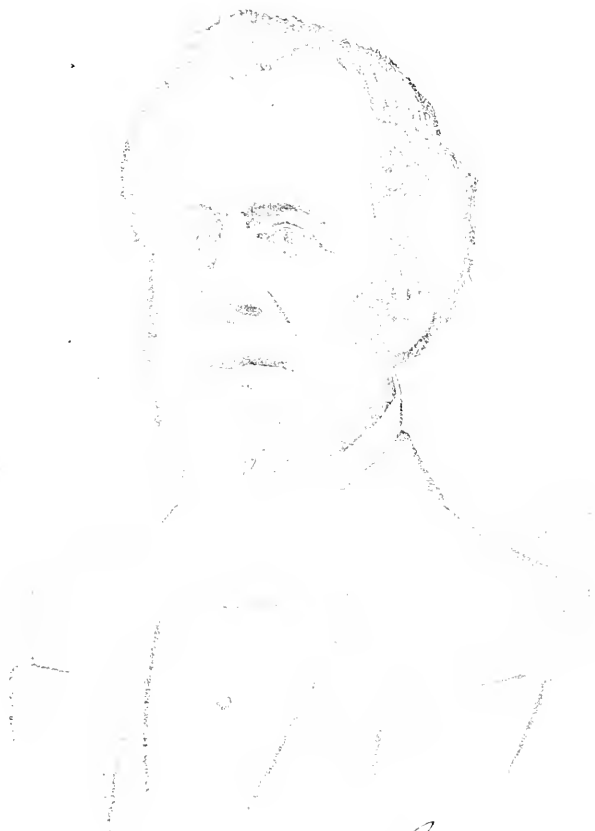
WITH GUBERNATORIAL AND PRESIDENTIAL VOTES.

Note.—The Republican or Democratic majority in each county is given as between Smith and Mallory. Green-back majority is only given when the vote for Allis exceeds the others, and is taken from the highest vote.

COUNTIES.	GOVERNOR 1877				PRESIDENT 1876			
	Smith	Mallory	Allis	May	Hayes.	Tilden.	Mag.	
Adams.....	580	233	116	R.	317	981	442 R.	539
Ashland.....	86	163	.....	D.	77	109	189 D.	80
Barron.....	459	203	53	R.	256	644	257 R.	387
Bayfield.....	40	34	2	R.	6	86	74 R.	12
Brown.....	1387	1740	1015	D.	353	2755	2647 D.	892
Buffalo.....	1975	810	76	R.	265	1189	1162 R.	24
Burnett.....	336	21	.....	R.	312	285	28 R.	257
Calumet.....	450	1120	839	D.	680	1012	2145 D.	1133
Chippewa.....	685	656	689	D.	18	1599	1774 D.	178
Clark.....	449	153	816	G.	267	1255	600 R.	595
Columbia.....	2048	1597	118	R.	451	2532	2490 R.	1039
Crawford.....	806	1068	146	D.	292	1355	1904 D.	249
Dane.....	3613	3903	614	D.	290	5455	5726 D.	291
Dodge.....	2333	4267	981	D.	1934	3230	6361 D.	3125
Door.....	477	126	283	R.	351	1035	596 R.	499
Douglas.....	21	28	.....	D.	7	42	67 D.	25
Dunn.....	1174	407	412	K.	767	2033	894 R.	1139
Eau Claire.....	1208	805	597	R.	403	2266	1785 R.	481
Fond du Lac.....	3089	2444	1249	D.	328	4847	5660 D.	815
Grant.....	2920	1958	1637	R.	682	4723	3198 R.	1525
Green.....	1823	849	580	R.	974	2601	1735 R.	866
Green Lake.....	879	896	215	D.	17	1739	1514 R.	225
Iowa.....	1461	1175	1021	R.	289	2651	2348 R.	303
Jackson.....	802	391	521	R.	411	1507	718 R.	789
Jefferson.....	1947	2418	296	D.	591	2874	4134 D.	1200
Juneau.....	1045	883	463	K.	162	1714	1458 R.	256
Kenosha.....	938	967	51	R.	31	1610	1432 R.	178
Kewaunee.....	247	557	20	D.	311	561	1654 D.	1093
La Crosse.....	1968	1115	524	R.	853	2614	2481 R.	163
La Fayette.....	1460	1206	268	R.	162	2424	2299 R.	125
Lincoln.....	57	15	169	G.	142	71	174 D.	107
Manitowoc.....	1265	1951	98	D.	587	2709	3508 D.	1298
Marathon.....	301	755	746	D.	454	608	1796 D.	1128
Marquette.....	447	730	76	D.	283	697	1112 D.	415
Milwaukee.....	5843	6288	1228	D.	545	9981	12926 D.	2045
Monroe.....	1162	1096	1019	R.	6	2558	2030 R.	528
Osonto.....	1059	764	157	R.	295	1813	1174 R.	679
Outagamie.....	777	2065	992	D.	1228	1859	3608 D.	1749
Ozaukee.....	437	1579	17	D.	1442	583	5480 D.	1897
Poplin.....	521	171	123	R.	350	836	394 R.	447
Pierce.....	1523	545	408	R.	978	2195	985 R.	1152
Polk.....	916	363	60	R.	553	1019	362 R.	650
Portage.....	1080	917	728	R.	163	1855	1794 R.	61
Racine.....	2304	1906	112	R.	398	3566	2880 R.	686

GUBERNATORIAL AND PRESIDENTIAL VOTES—1877—1876—Continued.

COUNTIES—Continued.	GOVERNOR. 1877.				PRESIDENT. 1876.		
	Smith.	Mallery.	Allis.	Maj.	Hayes.	Tilden.	Maj.
	Richland.....	1201	729	705	R. 472	2038.	1591
Rock.....	3375	1620	781	R. 1755	5755	2514	R. 2893
St. Croix.....	1558	1489	93	R. 70	1775	1736	R. 29
Sauk.....	1826	922	574	R. 904	3395	2201	R. 1194
Shawano.....	269	605	92	D. 336	582	873	D. 291
Sheboygan.....	1598	1787	750	D. 139	3224	3633	D. 409
Taylor.....	195	254	53	D. 59	240	246	D. 6
Trempealeau.....	2483	731	178	R. 1452	2360	790	R. 1570
Vernon.....	1678	416	846	R. 1262	2764	1117	R. 1647
Walworth.....	2904	1374	160	R. 1530	4212	1970	R. 2242
Washington.....	934	2187	187	D. 1905	1321	3047	D. 1726
Waukesha.....	2484	2938	276	R. 96	3129	3335	D. 206
Waupaca.....	1473	990	772	R. 482	2642	1592	R. 1060
Waushara.....	1282	257	377	R. 1025	2080	548	R. 1532
Winnebago.....	2068	2238	1887	D. 170	5992	4426	R. 666
Wood.....	247	196	601	G. 354	658	745	D. 87
CITIES.							
Appleton.....	231	522	201	D. 291	549	911	D. 262
Beaver Dam.....	229	361	6	D. 41	357	465	D. 108
Beloit.....	377	169	240	R. 268	745	627	R. 118
Berlin.....	219	197	56	R. 22	456	312	R. 144
Buffalo.....	25	17		R. 8	14	31	D. 17
Centralia.....	16	5	97	G. 81	64	93	D. 29
Chilton.....	31	128	33	D. 97			
Chippewa Falls.....	229	294	143	D. 65	475	572	D. 97
Columbus.....	216	123	3	R. 87	254	212	R. 42
Eau Claire.....	626	459	250	R. 164	1265	1013	R. 189
Fond du Lac.....	862	884	520	D. 22	1382	1512	D. 160
Fort Howard.....	150	85	195	G. 45	669	288	R. 81
Grand Rapids.....	50	42	110	G. 60	121	191	D. 70
Green Bay.....	432	333	181	R. 99	696	647	R. 49
Hudson.....	226	207	3	R. 19	250	224	R. 26
Janesville.....	771	605	31	R. 166	1036	848	R. 188
Kenosha.....	281	314	42	D. 33	514	544	D. 30
La Crosse.....	712	671	351	R. 41	1085	1549	D. 464
Madison.....	740	1073	13	D. 317	831	1252	D. 418
Manitowoc.....	349	284	17	R. 61	660	512	R. 148
Menasha.....	146	311	67	D. 165	291	344	D. 53
Milwaukee.....	4816	5927	1056	D. 211	8218	9625	D. 1407
Mineral Point.....	260	219	21	R. 11	348	324	R. 24
Neenah.....	115	146	376	G. 230	511	385	R. 126
New London.....	84	125	118	D. 41	206	208	D. 2
Oconomowoc.....	172	167	24	R. 5	222	238	D. 16
Oconto.....	270	311	6	D. 41	399	506	D. 107
Oshkosh.....	724	954	375	D. 230	1496	1910	D. 414
Plymouth.....	69	127	28	D. 58			
Portage.....	245	405	7	D. 100	396	532	D. 166
Prairie du Chien.....	155	267	3	D. 112	215	377	D. 162
Prescott.....	87	61	10	R. 26	143	108	R. 35
Racine.....	1052	921	82	R. 131	1672	1324	R. 348
Ripon.....	270	229	33	R. 31	397	333	R. 64
Shawano.....	55	73	13	D. 18	87	83	R. 4
Sheboygan.....	248	410	68	D. 192	575	873	D. 298
Stevens Point.....	252	270	145	D. 18	423	563	D. 140
Watertown.....	232	687	164	D. 415	372	1295	D. 923
Waupaca.....	210	49	20	R. 161	280	52	R. 228
Wausau.....	76	170	300	G. 130	210	595	D. 385



Cyrus K. Lord

LA CROSSE.

HISTORY OF LA CROSSE COUNTY.

GEOLOGICAL FORMATION OF THE REGION.

BY DR. J. A. RENGEY.

The geological formations of La Crosse County are substantially the same as in the adjoining counties of Vernon, Monroe and Trempealeau. Where the bluffs arise over four hundred and five hundred feet above the level of the Mississippi and Black Rivers, the upper layer of rock is limestone, often of a thickness of fifty to sixty feet. Below the limestone and wherever it is absent on account of the incisions in the bluffs, Potsdam sandstone¹ makes its appearance, more or less impregnated with lime, of greater or less hardness, and consisting of horizontal layers of various thickness and of a volume of from four to five hundred feet, according to the elevation of the bluffs. There is a total absence of other intermixtures to this and the limestone formation, except that the former is often of brownish color from oxide of iron or ochre. On many places, especially where the bluff incisions are low, as for instance, at the mouth of State Road Cooley, the lower base of the Potsdam sandstone is visible, and underneath a layer of caolin² of greater or lesser thickness appears, often as loose sand, and often as an easy crumbling, soft rock, mostly of a glittering white, sometimes of a dirty yellowish-white color. Granite, which, by the geological rules, should underlay this, is, according to our observations, not to be found in the county. It is not unlikely that in some places Niagara shale underlies the Potsdam sandstone, as may be observed in the corresponding bluff parts on the Minnesota side, for instance, at Dresbach extending out to the surface of the Mississippi.

All the above formations appear in horizontal layers and belong to the old Silurian system. In many places of the county, especially in the towns of Hamilton, Barre, Bangor, Burns, etc., petrefactions are imbedded in the Potsdam sandstone, which, with the stone itself, are of the Silurian period. In the lowest strata there are found the little shells "*Lingula prima*" and "*antiqua*," as remnants of the most ancient animal creation, whilst in the upper layers of Potsdam sandstone shells of the higher order and trilobites abound. Probably, remains of rhizopods, corals, erinoids, fishes, etc., of the Silurian period are imbedded here, though we have thus far not succeeded in finding any.

It is thus apparent that the geological formation of La Crosse County consists of sediment from the ocean that once covered the North American Continent, or the greater part of the same. Indications of the friction of moving ice masses upon the rocks, which are so frequent in the State of Wisconsin, are scarcely visible in La Crosse County; but we have found large and small loose stones that bear those marks, of which, however, it is difficult to say whether they belonged to the finding-place at the time of the ice period, or whether they were carried there by earlier or

later ice or water-floods. Petrified trunks and branches of trees, that are found on the tops of our bluffs and even in the valleys, were undoubtedly brought there by the Northern flood, the same as the many inflated, bubble-like but almost porphyry-hard stone formations that are numerous deposited in some places, whilst those of the shape of fungi, that are found in smaller and larger dimensions, have developed in the way of stalactites at their finding-places, and, like the former, consist mainly of silicate of lime. Remarkable objects are the hollow balls of stone (quartz nodules) of from six to twelve inches diameter, that are found mostly in the upper layers of the Potsdam sandstone, are easily detached from the stone, and are closely covered on their inner walls with colorless crystals. Along some of the bluffs, especially along the bluff-line at the mouth of Mormon Cooley, in the town of Shelby, there have been found cubiform crystallized groups of pure lead, and it seemed to appear that they had rolled down from the adjacent hill. Recently an enterprising citizen, at the State Road Cooley, in the town of Shelby, has dug a sloping shaft, close to the road ascending to St. Joseph's Ridge, into the bluffs, expecting to find copper. Among different materials without value, he has struck a bed of sandy marl of greenish-blue color similar to malachite, but which did not stand the copper test of our chemist, Mr. L. Runckel. It is not impossible, yea, very probable, that at some places in La Crosse County, smaller or larger masses of less precious ore may be found; but it is unlikely that, according to the geological formations, they would be remunerative. But the Potsdam sandstone, especially the upper beds that are more or less impregnated with lime, yield an excellent reddish-brown, bluish-gray or whitish-gray fine-kernelled building stone.

The geological rock formations of La Crosse County and the adjacent counties on the Wisconsin side, as well as in Minnesota, at the time of their being covered by the ocean, consisted of one horizontal, coherent plane that was torn up by the force of the departing waters. The immense detrital consequent thereof has partly been carried south, and partly forms the valley bottoms. The extensive deposits of sand along the rivers, especially the Mississippi and Black Rivers, often of a thickness of one hundred feet and more, are the results of this flood and the crushing of the sandstone. Even to-day the washing and working of the southward flowing waves is easily perceptible at different elevations of the perpendicular precipices of the Potsdam sandstone and the limestone surfaces on the Wisconsin as well as on the Minnesota side, and, in some instances, the washings are particularly distinct, as, for instance, on the perpendicularly ascending bluff in the rear of Wyle's farm and further south in the town of Bergen, Vernon County.

The violent power of the waters in the ancient Silurian period, in their grand process of demolishing rock and carrying off the detritus, has, in the course of time, formed the orographic relief of the earth's surface, and the hydrographic order of flowing waters and small lakes of our landscape. The presumption of a creation of our territorial picture by a momentary dictate, or even during a process of a few years' duration, must wane before the forum of geological science. It is more obvious and natural that, after the great flow of waters, a course impression of the present landscape was left behind, which, in the course of time, gradually molded itself in its present form. The original flow of the Silurian waters, with its effects, has, no doubt, concentrated itself in the direction of the present Mississippi Valley, and unfolded its mighty powers in the direction from north to south. The currents from the side valleys, and their smaller tributaries, especially in the territories of the Chippewa, Eau Claire, Beef, Trempealeau, Black and La Crosse Rivers on the east, and of Pine Creek, Root River and Crooked Creek, on the west side of the main valley, no doubt followed the main stream and were auxiliary in its formations, whilst within their own provinces they achieved similar orographic objects in a smaller measure. The landscape must have appeared monotonous and melancholy after the drain. Bald, rocky bluffs, and barren, desolate, stony valleys, made their appearance, large and small channels were filled with water, and before they found their regular beds lakes must have formed, and the water must have moved on over cascades and falls. The marine animals and plants that were not destroyed or carried off by the flood remained to enliven the lakes and rivers. But no plant and no animal vivified the air or land, no human eye could perceive the disconsolate desert, for man did not then exist.

The rock of the Silurian system, which is that of our country, is the oldest rock formation that has been built up by sediments of the ocean upon the primitive rock. At that time, the temperature of the water and air was incomparably higher than at present, the same as that of our globe itself. The evaporations of the water from the barren earth must consequently have been very rapid and voluminous, and the rainfalls immense; we will not call them deluges, because there were no sinners yet to drown. There were no grass plains, no brush, no forests yet to stop the colossal rain-streams rushing down hills and dales in their course. The rough, bare stone plateaus were at the mercy of the rapid streams; the surfaces of the bluffs were gradually washed off; the intervening large and small valleys were washed out, their surfaces smoothed, their beds deepened and transformed into regular stream channels, until the landscape assumed the orographic form and system of the present time.

There was undoubtedly a period when the waters on the North American continent, as well as on the whole globe, were a torpid mass of ice—it was the so-called Ice Period, and before the revolution above described. The movements of the ice masses upon the rocks and of the glaciers left their distinct grinding marks in the direction of their movement, which are to-day plainly visible in many places of our county. As in our days, and in our region, snow and ice melt with the increase of warmth in spring, so must have melted the ice at this pre-historic time, only in a longer period. The ocean was restored by the waters of the dissolved ice; extensive ice-fields of enormous thickness and ice mountains began to move; rocks, that before had rolled from the projecting islands of the ice ocean upon the icy plain, or that were frozen to its lower strata, were carried away hundreds of miles to places where they had no relations whatever. Geologists call such blocks erratic "foundlings" (boulders). Often they have the size of small houses, and lay strewn about on plains or at the foot of hills. This catastrophe must have preceded the Silurian period, and the connection of the Silurian ocean.

Let us now return to the barren, stony skeleton of our own province, which, after the cessation of flow of waters, presented itself for a fair vegetation and vivification by animals. It would doubtless be very interesting to the reader to insert here a history of the origin and development of the plants and animals that from beginning up to our day have enlivened our country, but that is not within our present object. But we cannot leave it unmentioned that the different genders and species of plants and animals were not produced at once or in the lapse of a few years, but that they gradually developed in a remarkably long period of time, and ascended to an increasing higher perfection, and that those inhabitants, in conjunction with the detritus of stony material, in the end furnished the rich, humus soil that now forms the essential substance of the orographic surface of the earth.

How long the Silurian Ocean covered the earth; what time it took to form the Silurian rock system by the ocean's sediment; of how long a duration the ice period was, and how many years passed away until our country received its fundamental adaptability to become enlivened by plants and animals of different kinds and species, up to the appearance of man in his different forms, races and colors, it is impossible even to approximately estimate. Certain it is, however, that to the geologist a period of six or seven thousand years for such development cannot be sufficient; nay, considering all the facts that appear to him in his scientific researches of the development of the earth, and its inhabitants, his mind must conjecture a period of a hundred thousand and more years.

The geological formation of the area of our county presents a landscape of bluff hills, interspersed with erosion-valleys. On the west side of the bluff-lands expands a wide level delta, extending northerly to the Black River and southerly to the Mississippi. A main chain of the bluffs, forming the western border of the bluff land, runs nearly parallel with the said two rivers, from the north in town of Farmington, through the towns of Holland, Onalaska, Campbell, La Crosse and Shelby, and extending far out in the town of Bergen in Vernon County; only in front of the northern section Black River makes a departure, forming a large curve in a northwestern direction, leaning on Trempealeau County, and returning to the bluffs near Onalaska. On many places, this chain of hills is intersected to the depth of the table-

land, as by mountain passes, leading to the valleys in the rear and affording free exit to the numerous brooks of the valleys. Along the west side of this chain of hills one may perceive vault-like indentures and picturesque rock sceneries in a thousandfold variations, and more or less deep, tray-like vales and dales affording mostly a beautiful view. Similar bluffs extend in the rear of these main pillars in an easterly and southeasterly direction, thus forming the main and side valleys between them. In comparison with the main hills, we would call them of the secondary order. These secondary elevations partly run parallel with each other, and partly depart in diverging or converging curves, thus forming the direction and shape of their valleys. They frequently send out projectures, mostly in a rectangular direction, which, as bluffs of the third order, shape, corresponding smaller vales and hollows that descend to and connect with the secondary branches. A labyrinth is thus formed of hills and dales, which, however, is expressed in a regular system, and may easily be depicted in a geographical map.

Considering the relation of these interior valleys to the main valleys of the Mississippi and the Black River, we must designate them as of the secondary order. On the southern terminus of the county, but in the greater part situated in Vernon County, we find a large bluff-opening leading to the long and extended "Coon Valley," which sends out a few side valleys to the towns of Greenfield and Washington in our county. Another no less extensive pass in the bluffs leads us into the secondary valley of "Chipmunk Cooley," which, by means of intruding bluffs is cut up into three narrow, long valleys extending into the towns of Shelby, Bergen and Hamburg. A third well-marked opening in the bluffs leads to the long and expanded "Mormon Cooley," in the towns of Shelby and Greenfield, with its numerous larger or smaller side issues of the third order. A fourth gate to the interior, guarded on both sides by high bluffs, is the mouth of the comparatively short and narrow "State Road Cooley," in the town of Shelby. On the north side we have the fifth and most expanded opening to the greatest valley in the county, the "La Crosse Valley," which extends from the prairie through the whole county in an easterly direction to Monroe County. As side valleys, appear in town of Campbell the narrow "Smith's Cooley," in town of Barre the narrow "Roberts Cooley," then the very extensive "Bostwick Valley," of several miles' length and with a great number of long side-issues. A narrow but important side valley shoots out from La Crosse Valley in a southeasterly direction in the town of Bangor, known as "Dutch Valley." The balance of the passes in the bluffs further north lead to comparatively small, and at their termini, closed-up valleys, among which is "Sand Lake Cooley," in the town of Onalaska, and "Spring Cooley" and "Long Cooley," in the town of Holland.

The bottoms of these valleys of all these different orders gradually slope in the direction of the above described gates toward the fronting delta, partly toward the Black River, and partly toward the Mississippi. All the water falling down upon La Crosse County and that coming from a distance east and south through the clefts and fissures of rock, feeding innumerable springs, must naturally move toward the streams of the main valley—the Coon Creek, Chipmunk Creek, Mormon Cooley Creek, State Road Creek, and the more voluminous La Crosse River descend into the Mississippi; the creek of the Sand Lake Cooley, Half-way Creek, Fleming Creek, and others, into Black River.

La Crosse County, especially the bluff part, is rich in springs and creeks, with the exception of the ridge-plateaus and the sandy prairie, and (excepting the steep slopes) is covered with a layer of humus more or less thick. These two factors, the abundance of water and the rich humus layer, impart to the county the greatest facilities for cultivation, of which the luxuriant growth of trees upon the slopes of the bluffs, the prolific growth on the farms in the valleys and upon the plateaus bear ample testimony.

Notes.—(1.) The layer of limestone that forms the transition to the Potsdam sandstone is known to the geologist as "Lower Magnesia limestone."

(2.) In many instances free from clay; in this case it is vitreous sand.

(3.) "Silicate."

(4.) Of the form of very large fungi, like *lymnoria*, *scyphia*, *siphonia*, etc., which we can also find in the formation of the Jurassic period.

THE PICTURED CAVE.

BY REV. EDWARD BROWN.

This curious cavern is situated on the farm of David Samuel, in the town of Barre, four miles from West Salem, and eight miles from La Crosse, on the northwest quarter of Section 20, of Township 16, Range 6. It was discovered in October, 1878, by Frank Samuel, a son of the owner of the land, eighteen years of age, who had set a trap for racoons at a hole of considerable size in the hill. Finding that he could, with a little difficulty, crawl into the aperture, which had been dug by wild animals through a land slide at the foot of a cliff of Potsdam sandstone, he entered, and finding that it opened into a spacious cavern, he procured lights, and with his two older brothers and a friend explored it. They found the walls extensively covered with pictures and hieroglyphic characters, and charcoal paintings. It thus became known to a few neighbors, and a few boys, who, in the winter, resorted to it and built fires and carved their names and their own pictures.

About the 1st of June, 1879, I heard of such a cave with such pictures and characters, and immediately visited it. I quickly saw that there was something of much value to the cause of archaeological science; that the rude pictures were evidently quite old; that the now close chamber had been an open cavern in the cliff, which had been closed not less than 150 years by a land-slide from the hill above. A poplar tree, two feet in diameter, having 120 growths of circles, stood as a dead tree twenty-five years ago, when Mr. Samuel first came there, and had rotten and fallen; and a birch tree stood upon the edge of the cliff where the land-slide had passed over, of from 150 to 160 annual growths. I visited Mr. Samuel and informed him of the value to science of the inscriptions and possible discoveries to be made by digging. He immediately took measures to stop the vandalism that was fast destroying them; to enlarge the opening, and clear out the sand that had washed in from the land-slide and half filled the cave. In the meantime, I took fac similies of the pictures and characters by pressing tissue paper into the grooves, and with black crayons followed each line to its termination, preserving also its original width. In this way I got perfect outlines, and by placing other sheets over them, in the light of a window pane, took small copies that showed the pictures in their original form and size. I sent one set to Prof. Chamberlin, State Geologist, not intending to make anything public till an examination had been made by an archaeological expert, and their value to science ascertained. In the meantime, it having become noised about that I was examining such a cave, I was called upon by the local editor of the *Chronicle*, of La Crosse, to whom I gave copies of some of the most prominent of the pictures, from which hasty and imperfect wood cuts were prepared, which appeared in the *Chronicle*. The article was seen by Mr. Lyman C. Draper, Secretary of the State Historical Society, who wrote to me for information in regard to it. I sent him copies of the pictures, so far as I had taken them, and designated a time, June 27, to dig into the bottom of the cave, requesting him to come, or send a competent archaeologist. He communicated with Dr. J. A. Rice, of Merton, Waukesha County, who came at the time appointed with Mr. Rockwell Sayer, of Chicago. A company of seventeen men repaired to the place with shovels, wheelbarrows and other necessary things for explorations. Several intelligent ladies also attended, and prepared a dinner.

Commencing at the back end of the cave, the sand was carefully dug up and wheeled out, every bar carefully inspected, and the work continued till the whole had been examined. We came upon four layers of ashes, each from four to six inches deep, and containing charcoal, and burned and nearly vitrified sand-rock. They were separated from each other throughout the whole length and breadth of the cave by layers of clean, white sand, of from ten to fourteen inches in depth. Below the whole was water, of the same level as a marsh that lies in front of the cliff. The lower stratum of sand and ashes contained nothing. In the second, were fragments of pottery, made of clay and ground shells. These were smooth, and of the oldest kind found in mounds. In the third more elaborately wrought pottery, the newest found in mounds, with numerous fragments and whole sides of Mississippi River bivalve shells, and a bolkin

of bone, seven inches long. This, according to the opinion of old hunters, was of the "hook bone" of an elk. It was in dry, white sand, and is quite sharp and smooth with use, and in a perfect state of preservation, even retaining the glassy polish of wear and handling, as if used but yesterday.

All the layers had become compact and well stratified, and all contained bits of charcoal, and charred and rotten wood. In the upper layer, we found two bones of birds, and two of small animals, and a "clue-claw" of a deer, and a cartilaginous maxillary inferior of a reptile. The four completely diffused strata of ashes, separated by a foot average of clear sand, showed that there had been four distinct periods of occupancy, separated by considerable intervals of time. This was also indicated by two orders of pottery, one always below the other; but nothing to measure the time. The only conclusion we could arrive at was, that the first occupancy was very ancient, and the last before the land-slide, or not less than 150 or 160 years ago. The zone of the pictures agreed best, for convenience of engraving, with the third occupancy, the age of the figured pottery.

Before the land-slide, it was an open shelter cavern, 15 feet wide at the opening, and 7 feet at the back end; greatest width, 16 feet; average 13 feet; length, 30 feet; height, 13 feet, and depth of excavation, after clearing out the sand of the land-slide, 5 feet. The pictures are mostly of the rudest kind, but differing in degree of skill. Except several bisons, a lynx, rabbit, otter, badger, elk and heron, it is, perhaps, impossible to determine, with certainty, what were intended, or whether they represented large or small animals, no regard being had to their relative sizes. A bison, lynx and rabbit are pictured in one group, all of the same size. One picture perhaps suggests a mastodon; another, the largest, a hippopotamus; but whether they were really intended to represent those animals, is quite uncertain. Other seem to refer to animals yet in existence. Many pictures are fragmentary by the erosion of the soft sand-rock on which they are engraved. In one place is a crevice, 8 feet long, 2 feet high, and extending inward 2½ feet, with fragments of pictures above and below.

The appearance and connection of the pictures and characters indicate that they were historical, rather than engraved for mere amusement, and suggest that thorough exploration of caves may shed much light on the history of the pre-historic aborigines of our country.

ADDITIONAL NOTES ON THE PICTURED CAVE.

By Hon. JOHN A. RICE.

I visited the Pictured Cave you so kindly requested me to do in behalf of the State Historical Society, and avail myself of the earliest opportunity to examine my notes, and also the fac-simile sketches of the animal representations there found, courteously presented to me by Rev. Edward Brown, and from them have prepared the report, which I now submit for the use of the society. Great credit is due to Mr. Brown for bringing the discovery of the cave to the notice of archaeologists. This cave is situated on the farm of a Mr. Samuel, near West Salem, in the county of La Crosse, and was discovered by a son of Mr. Samuel when trapping coons in a hole some animal had dug into the cave.

Mr. Rice then notices each picture as Mr. Brown has done, and adds:

In regard to the antiquity of these drawings there can be no question, for some of them were covered with sand, and, besides, I found pieces of the rock buried in the sand, which had fallen from the sides with portions of the inscriptions upon them, which fact must be regarded as proof positive of a greater or lesser antiquity. These are all the facts in regard to the cave that I think worth noting.

Now, as to the conclusions to be drawn from the representations here found, and which are the only objects of interest. The fact that we find four distinct and separate layers of ashes, with pottery in two of them of a different odor and make, would certainly indicate four separate and distinct occupancies of the rock-shelter, each occupying a greater or less length of time, and when we recollect that the Indian always contents himself with the smallest possible amount

of fire, and take into consideration the thickness of the layers of ashes, it is fair to conclude that each occupation of the cave must have continued some considerable period of time. The layers of sand are easily accounted for, as resulting from the disintegration of the soft rock above the cave, as it fell down from the edge of the cliff, which would naturally drift into the cavern or shelter, and, more or less rapidly, make the layers mentioned, and although the rock of the sides and roof of the cave are quite soft, the disintegration has been exceedingly slow, as there has been no percolation of water, and especially since the closure of the opening the forest has not acted upon the walls; so that the change since that time, at least, has been very slight indeed, and accounts for the well-preserved condition of the pictures.

It is, perhaps, impossible to say during which of these occupations of the shelter the drawings were made; but, taking into consideration the height of the zone of pictures above the first and second occupations, they could hardly be referred to either of these, and, therefore, must have been made during the third or fourth occupation, and from the proof positive of the closure of the cave for a period of at least one hundred and fifty years, a considerable antiquity must be allowed.

I have an interesting fac simile of an attempt at history-writing by the Sioux, with its interpretation. It is a rough representation of some one event in each year, occurring during the period from 1800 to 1870, and very much resembles some of the sketches in this cave. After a careful comparison of these and similar Indian drawings I have, I am forced to the conclusion that these representations in the La Crosse Valley Pictured Cave are also of Indian origin. Everything about them indicates this, especially the drawing of the human figure with eight plumes on his head can be regarded in no other light than as an Indian of some note, who displayed his eight feathers as indicating the taking of so many scalps, and would be so interpreted by any Sioux or other Northwestern Indian. If these conclusions are correct, the greatest antiquity allowable would be from, perhaps, three to eight hundred years.

POLITICAL BOUNDARIES.

The territory which is now embraced in La Crosse County formed, prior to 1851, a part of Crawford County.

In 1851, the same territory which is now embraced in La Crosse County, with the exception of that part of Township No. 19 north, of Range No. 7 west, which lies south of Black River, was set off by the Legislature of the State as La Crosse County.

In 1856, by act of Legislature, Townships Nos. 19 north, of Range Nos. 5 and 6 west, in the county of Jackson, were attached to and made part of La Crosse County. Subsequently, by the Revised Statute of 1858, these two townships were set back into Jackson County and that portion of Township No. 19 north, of Range No. 7 west, which lies south of Black River, was made a part of La Crosse County, leaving the present boundaries of the county as described in said revised statutes and in the Revised Statutes of 1878, as follows:

Beginning at a point in the western boundary line of this State in the Mississippi River, where the township line between Townships 17 and 18 intersects said boundary line, running thence east on said township line to the main channel of Black River; thence up the main channel of Black River to the range line between Ranges 6 and 7, west; thence south on said range line to the township line between Townships 18 and 19; thence east on said township line to the range line between Ranges 4 and 5, west of the meridian aforesaid; thence south on said range line to the township line between Townships 14 and 15; thence west on said township line, to the western boundary line of this State, in the Mississippi River; thence northerly up the main channel of said river to the place of beginning.

The extent of the county, according to these boundaries, is from Jackson and Trempealeau Counties on the north (Trempealeau County being partly on the west), to Vernon County on the south and from Monroe County on the east to the Mississippi and Black Rivers on the west, Houston and Winona Counties, in Minnesota being on the west side of the Mississippi River.

opposite to La Crosse County, and Tempealeau County being upon the north and west side of Black River, opposite La Crosse County.

The county contains all of the full Townships 15, 16, 17 and 18, of Range 5; Townships 15, 16, 17 and 18, of Range 6, and Township 17, Range 7; all of the fractional Townships 15, and 16, Ranges 7 and 17, Range 8, and 17, Range 9, and all of those portions of Townships 18, Ranges 8, and 19, Range 7, which lie south and east of Black River. The area of these townships or parts of townships within the county is as follows:

Township 15, Range 5.....	23,125.97
Township 16, Range 5.....	23,158.14
Township 17, Range 5.....	22,881.01
Township 18, Range 5.....	22,830.99
Township 15, Range 6.....	22,970.67
Township 16, Range 6.....	22,749.65
Township 17, Range 6.....	22,669.91
Township 18, Range 6.....	22,710.55
Township 15, Range 7.....	18,817.88
Township 16, Range 7.....	21,423.96
Township 17, Range 7.....	22,869.63
Township 18, Range 7.....	22,629.59
Township 19, Range 7.....	1,502.82
Township 16, Range 8.....	4,250.89
Township 17, Range 8.....	18,136.25
Township 18, Range 8.....	10,175.89
Township 17, Range 9.....	651.24
	303,545.14

The towns, city and villages into which the county is divided for local government, and the number of acres in each, are as follows:

City of La Crosse.....	3,995.60
Town of Washington.....	23,125.97
Town of Greenfield.....	19,871.40
Town of Shelby.....	19,950.04
Town of Campbell.....	22,457.86
Town of Barre.....	13,399.54
Town of Bangor.....	23,158.14
Town of Burns.....	31,652.33
Town of Hamilton.....	35,183.10
Town of Onalaska.....	31,831.89
Village of Onalaska.....	1,226.74
Town of Holland.....	29,476.52
Town of Farmington.....	48,221.95
	303,545.14

TOPOGRAPHICAL FEATURES.

The county is divided topographically into the land in the valleys of streams, the hillsides bounding these valleys, a large extent of bottom lands along the Mississippi and Black Rivers subject to annual overflow, a few sandy prairies, numerous dry valleys and ravines with the hillsides bounding them, and elevated table-lands upon the top of the ridges.

Black River flows through a portion of the county, and forms the northern and western boundaries of another portion. It has itself no distinct valley in La Crosse County, but flows through the bottom and prairie lands which lie in the valley of the Mississippi River.

The main mouth of Black River is in the northern part of the city of La Crosse, and is about seven miles north of the southern boundary of the county, about eleven miles south of the northern boundary of the county on the Mississippi River, and eighteen and a quarter miles south of the extreme northern boundary of the county on Black River. Besides this main mouth, it has two other mouths or channels, which run from the main channel to the Mississippi River. The northerly one of these two channels is called Hammond Chute, and the southerly Gibbs' Chute. The mouth of Hammond Chute is about one and a half miles south from

the northern boundary of the county, on the Mississippi River, and about nine miles south of the extreme northern boundary of the county. The mouth of Gibbs' Chute is about four and a quarter miles south of the north line of the county, on the Mississippi River, and eleven and three-quarter miles from the extreme northern boundary of the county on Black River. Along the whole course of Black River, in La Crosse County, there are sloughs and bayous which encroach upon or intersect and ramify the adjacent bottom lands. For a distance of several miles, it has, besides its main channel, another separate and distinct channel, known as Black Snake. There is also, in another place, another distinct channel, known as Broken Gun.

The bottom lands in the county which are subject to annual overflow, and which lie in the valley of the Mississippi River, through a large portion of which Black River flows, amount to about 33,000 acres. The principal, and in fact only value of these lands is for timber and hay. The timber is mostly soft maple, birch and elm, with some ash, hackberry and other varieties. A great part of the original timber has been cut off, but the rapid growth of the soft maple and birch fast replaces it. The prairie lands in the county amount to about 20,000 acres. The lands in the valleys of the streams amount to about 145,000 acres. This is all rich and fertile, and is the most valuable land of the county. The steep hillsides bounding these valleys with the dry ravines and hillsides bounding them amount to about 38,000 acres, and the elevated table-lands with the rolling lands and hillsides not too steep for cultivation, amount to about 62,000 acres. This has all of it a clay subsoil, and is the best kind of land for the production of wheat.

WATER-COURSES AND THEIR IMPROVEMENTS.

The rivers in La Crosse County or upon its boundaries, are the Mississippi, Black and La Crosse Rivers; the two last named flow into the Mississippi River within the county.

The Mississippi River as has been stated, forms the greater part of the western boundary of the county.

The following statistics in regard to this river opposite La Crosse, are found in a "Report upon the Physics and Hydraulics of the Mississippi River," prepared by Capt. A. A. Humphrey and Lieut. Abbot, submitted in 1861, and published in 1867:

"The distance of La Crosse from the mouth of the river (that is the mouth of the Upper Mississippi being at its junction with the Missouri) is 514 miles; the elevation above the sea is 638 feet. The fall per mile is 0.22 feet, the width between banks is 5,000 feet, the least low-water depth upon bars is 2 feet, the range between high and low water is 14 feet, the area at high water is 100,000 square feet." Since this report was made there has been a greater range between high and low water, that is between low water of 1863 and 1864, and the high water of 1880, this range being 16 feet, and owing to certain improvements made by the Government upon the river opposite and above La Crosse, the least low-water depth upon bars is said by those who run boats upon the river to have been increased.

These improvements consist in the building of low-water dams with fascines and stones across the head of the east channel of the river above La Crosse, and above the mouth of the Black and La Crosse Rivers, and across the head of the west channel of the river opposite La Crosse, commonly known as Raft Channel. Black River forms the north boundary of that part of the county embraced in Townships 17 and 18 north, of Range 7 west, and Township 18 north, of Range 8 west, and the western boundary of that portion of the county embraced in Township 18 north, of Range 8 west, and from the south line of said township. Black River flows, as has been described, in several channels through bottom-lands, and empties through different mouths, as have been described, into the Mississippi River.

Black River is a sluggish stream, and but for the improvements made by the Black River Improvement Company, would be so obstructed by sand-bars as to be un navigable. This company, under a charter from the State, has improved the stream by wing dams and dredging for the purpose of running logs from the pineries at its source, and on its tributaries. These logs are sawn at the mills at La Crosse, and at points on the Mississippi River below La Crosse. Black River is kept open and navigable for the largest steamers on the Mississippi as far as the

boat-yard of the packet company, in the Fifth Ward of La Crosse, about a mile above its mouth.

La Crosse River enters the county near the middle of the eastern boundary, and runs in a southwesterly direction across the whole width of the county, east and west, emptying into the Mississippi at the city of La Crosse. The La Crosse River, although meandered by the United States Surveyors when the public lands were surveyed, is not navigable. There are two flouring-mills upon the river within La Crosse County, one at the village of Neshonoc, about the center of the county, one mile north of West Salem, a station on the Chicago, Milwaukee & St. Paul and Chicago & North-Western Railroads, and another about two miles below Neshonoc. The former of these two mills is owned by Alexander McMillan, and has six run of stone; one of these run is exclusively for grinding feed, and the other five, with rolls and modern machinery, for making patent flour.

The capacity of this mill is one hundred barrels of flour and twenty-four tons of feed per day. The dam at this mill is ten feet high, and would furnish power for several more run of stone. The dam could be raised ten feet higher, which would give a power for a mill with a capacity of from six to eight hundred barrels of flour per day.

The other mill upon La Crosse River has two run of stone, and is owned by H. Lovejoy.

There is sufficient fall in the river below the Lovejoy Mill for two other water-powers of about eight feet head each.

Upon the creeks tributary to La Crosse River, there are mills as follows: On Dutch Creek at Bangor, a flouring-mill owned by J. Bosshart and H. Legler, in which there are two run of stone. There is also a woolen-mill on the same stream, owned by Otto Bodman and the estate of J. Ruely.

On Bostwick Creek, there are two flouring-mills, one owned by O. S. Barlow, and the other known as the Barre Mills, owned by William Rugs.

These two creeks are upon the south side of the La Crosse River.

On Big Creek, near the eastern boundary of the county upon the north side of the La Crosse River, there is a flouring-mill owned by Manuel Roberts.

On Burns Creek, also on the north side of La Crosse River, there are two mills, one a saw-mill owned by D. Vaughn, and the other a flouring-mill owned by L. Bowen.

Upon Fleming Creek, in the northern part of the county, which empties into Black River, there are two flouring-mills, the Union Mill, owned by James Barclay, and another owned by J. A. Young. There are also a feed and saw mill on this creek owned by H. N. Sly.

Upon Halway Creek, which empties into Black River about six miles above La Crosse City, there are two flouring-mills, one near Midway, owned by A. Grams, and one about two miles above owned by C. Christianson.

Upon Mormon Creek, in the south part of the county, there are three flouring-mills. This creek rises in the eastern part of the county upon the west side of the town of Washington, Township No. 15 north, of Range No. 5 west. It runs through the central part of the lower tier of townships in the county, about twelve miles, and empties into what is called Mormon Slough. This slough is really a part of the Mississippi River, flowing from it a short distance below the city of La Crosse, and running back into it in Vernon County, about fourteen miles below La Crosse.

The lower mill upon Mormon Creek is owned by Valentine Oehler, and has three run of stone. The second mill, counting from the mouth of the stream, is owned by Matthias Blumer, and has three run of stone. The third, or upper mill, is owned by S. McKown, and has three run of stone.

Upon Coon Creek, there is a flouring-mill owned by Joseph Nedwielek. This creek rises in the northeastern part of the town of Washington, and flows through the central part of the town southward into Vernon County where it empties into Coon River.

Chipmunk Creek (a small part of which is within the county along its southern boundary, the remainder being in Vernon County), furnishes no water-power in La Crosse County, although

there is a mill on this creek in Vernon County. This creek empties into Mormon Slough in Vernon County, a short distance below the southern boundary of La Crosse County. All of the remaining streams in La Crosse County not hereinbefore mentioned, are tributary to those named. The principal ones are Fish Creek, Thompson's Creek and Smith Creek flowing into the La Crosse River on the south side, and Adams' Creek and Thrasher's Creek flowing into the La Crosse River on the north side.

The total number of mills run by water-power in La Crosse County as above described, are fifteen for flour and feed, one feed and saw mill, and one woolen-mill, eighteen in all.

THE WINNEBAGO CONFEDERACY AND INDIAN OCCUPATION.

By JUDGE GALE.

For this article we are indebted to Judge George Gale's valuable work, "The Upper Mississippi," to whose compilation he gave years of labor and research, and which was the crowning effort of a most noble and useful life:

When Sieur Jean Nicolet visited the *O-chunk-o-raws*, or Winnebagoes, at Green Bay, in 1639,* he spoke of them as then "sedentary and very numerous," but this fact has since been doubted, as, the following year, they were nearly exterminated by the Illinois, and if so easily exterminated, it was thought they could not have been very numerous. Again, it was said by authors, that the Winnebagoes were only an insignificant band of the Sioux, speaking a dialect of the Sioux language. But later investigations into the language of the *Ochutkoraws* and several other Western tribes, seem to establish the fact that they are the parent nation to a confederacy of an independent language, reaching from Lake Superior south to the Red River, and composed of the Winnebagoes, Menomonees, Iowas, Missouris, Osages, Kansas, Quapaws, Otoes, Omahas, Poncas, Mardans, and perhaps others.

On this subject Rev. William Hamilton, who had for fifteen years been a missionary among the Iowas, and had published a grammar of their language, in answer to questions from H. R. Schoolcraft, wrote as follows: "There is no more difference between the language of the Iowas, Otoes and Menomonees than between the language of a New Englander and a Southerner. A few words are common to one tribe and not to another. They say the Winnebago is the *full language*. This may be true; if so, the Iowa, Otoe and Missouri languages would be one dialect: the Omaha and Ponca another: the Konza, Osage, Quapaw and Apaches (a band of the Osages), another: or, perhaps, the Omahas, Poncas, Konzas, etc., might all be called one dialect. * * * The Osage, Konza, Quapaw, etc., are the same language. The Omaha and Ponca are the same. Many words of the Winnebagoes are the same in Iowa."—"Schoolcraft's History of the Indian Tribes," Part IV, pages 405, 406).

In the same volume, page 227, J. E. Fletcher, Esq., Indian Agent to the Winnebagoes, writes: "The Winnebagoes claim that they are an original stock, and that the Missouris, Iowas, Otoes and Omahas sprang from them. These Indians call the Winnebagoes their elder brothers, and the similarity of their language renders it probable that they belong to the same stock. Even in 1670, the Winnebagoes told Rev. Father Allouez that there were only certain people of the Southwest who spoke as they did."

To this testimony we may add that of Mr. Saterlee Clark, an old Winnebago trader, and one of the few who ever learned the language, that he could converse with and understand the Iowas, and that the Iowas called themselves *O-chunk-o-raws*. Also the statement of the Winnebagoes to Gen. Sully, that they spoke the same language as the Omahas; and the further statement of James Reed, Esq., of Trempealeau County, Wis., to the writer, that he had not been able to learn the Winnebago language on account of its being so deeply guttural, notwithstanding he had many years spoken Sioux, been a farmer and trader amongst them, and had a

* Jean Nicolet visited Green Bay in 1634 and in 1639, as has been stated by historians for many years. Recent investigation has developed this fact. "The History of Northern Wisconsin," Western Historical Co., Chicago. "Nicolet's Discovery of the Northwest," by C. W. Butterfield, Robert Clark & Co., Cincinnati.

cousin of the chief Wabasha as his wife. This we imagine, makes a strong case against the assertion that the Winnebago is only a dialect of the Sioux.

When Sieur Nicolet assembled four or five thousand Winnebagoes, Sioux, Illinois and Pottawatomies at Green Bay, in 1639 [1634—see foot note] for a general council, is it not probable that there came also the Menomonees, Iowas, Osages and other kindred bands of the Winnebagoes, and from their numbers he correctly came to the conclusion that the Winnebagoes were "sedentary and very numerous?" They then evidently occupied the territory from near Mackinaw, southwest to the Red River, extending east as far as the Illinois River, the Mississippi and the Lower Ohio Valley. For over thirty years later, and after the advent of the fugitive Algonquins, the eight Illinois bands were on Illinois River as their real homes, although Marquette, January 25, 1673, found the Peorias on the Mississippi when descending the river; but they had returned to the Illinois when he came back, some two months later. Rev. Father Allouez also found the Illinois on the Illinois River in 1677. This was evidently situated in the Winnebago Confederacy in 1634, "sedentary and very numerous."

O-CHUNK-O-RAW.

The tradition of the O-chunk-o-raw claims that the tribe was created at the Mok-kau-shoots-raw, on Red Earth Banks, on the south shore of Green Bay. They were known to the Algonquin tribe by the name of "Winnebagoec," or people of the salt water; and as the Algonquin word for salt water and stinking water was the same, the French gave them the name of *La Puants*, or stinkards. They, however, call themselves O-chunk-o-raw.

The tribe was spoken of by Sieur Champlain, who visited Lake Huron in 1615, and the singularity of their names probably induced the French Governor of Canada to send Sieur Nicollet, his Indian interpreter, to visit them in 1634, in hopes of discovering the Western ocean.* They continued to occupy Green Bay, Fox River and Lake Winnebago until modern times, and were generally allies of the Sacs and Foxes in the old Indian wars. They were, after 1754, allies of the French while they held Canada, and afterward of the British, until the close of the war in 1812.

In 1816, the United States concluded a treaty of peace with the Portage bands, under the chief *Choo-ke-kaw*, or the *Ladle*, more commonly known by his French name, "De Cora." This band agreed to separate themselves from the balance of the tribe until they made a treaty of peace also, and delivered up their prisoners. The O-chunk-o-raws joined the tribes at the great council with the United States, held at Prairie du Chien August 19, 1825. This gave to the Winnebagoes the country bounded as follows: "Southeasterly by Rock River, from its source near the Winnebago Lake to the Winnebago village, about forty miles above its mouth; westerly, by the east line of the tract lying upon the Mississippi, herein secured to the Ottawas, Chippewas and Pottawatomies of the Illinois; and also by the high bluff described in the Sioux boundary, and running north to Black River; from this point the Winnebagoes claim up Black River to a point due west from the source of the Left Fork of the Ouisconsin to the Portage, and across the Portage to Fox River; thence down Fox River to the Winnebago Lake, and to the grand Kan-kaulin, including in thin claim the whole of Winnebago Lake."

In a second treaty, August 11, 1827, between the United States and the Chippewas, Menominees and Winnebagoes, our Government stipulated that "the sum of \$1,000 shall be annually appropriated, for the term of three years; and the sum of \$1,500 shall be annually thereafter appropriated as long as Congress thinks proper, for the education of the children of the tribes, parties thereto, and of the New York Indians near Green Bay, to be expended under the direction of the President of the United States."

In 1827, some Winnebagoes attacked and killed eight Chippewas near Fort Snelling, whereupon the Commandant of that fort took four of the offending Winnebagoes and delivered them

*Nicolet's mission was to confirm peace between the Hurons (allies of the French) and the Western tribes, for the purpose of increasing the trade in furs. His journey was not one of exploration, in a geographical sense, but was commercial in its character. He went westward to within about three days' travel of the Wisconsin, not the Mississippi, as has been erroneously stated.

to the Chippewas, who immediately put them to death. Red Bird's band soon after attacked two keel-boats at the mouth of Coon Slough, on the Mississippi, killing two and wounding six whites; while Red Bird himself killed two whites at Prairie du Chien. The settlers at once organized for war, electing Gen. Dodge commander. Gen. Atkinson, with a small force of regular troops, marched up the Wisconsin, and, joined by the forces of Gen. Dodge, advanced to attack the Winnebagoes in force at the Portage; but on their arrival received overtures from the Indians, who delivered up Red Bird and six others as the guilty parties, which ended the difficulty.

The next year, 1828, the United States made an unsuccessful attempt to purchase the Winnebago lands, including the lead mines, and failed.

In 1829, by a treaty concluded at Prairie du Chien, concluded August 1 of that year, the tribe ceded their territory south of the Wisconsin River, and west of a line running south from Lake Puckaway, by Duck Creek, Fourth Lake, near Madison, Sugar River and *Pee-ku-tal-a-ka*, by which the Winnebago interest in the mines was secured to the United States. The consideration for the territory purchased was \$8,000, paid annually for thirty years; \$30,000 in goods paid down, and 30,000 pounds of tobacco, and fifty barrels of salt, delivered annually for thirty years.

By a treaty, on September 15, 1832, the Winnebagoes ceded to the United States all the balance of their lands south of the Wisconsin and Fox Rivers, for which the Government gave them an interest in the "neutral grounds" west of the Mississippi, an annual annuity for twenty-seven successive years of \$10,000, and further agreed to establish and maintain a school at Prairie du Chien for twenty-seven years, at an annual expense not exceeding \$3,000; support six agriculturists for twenty-seven years; pay not exceeding \$2,500 for twelve yoke of oxen and agricultural implements; pay the Rock River band 1,500 pounds of tobacco per annum; and pay \$200 per annum each for the services of two physicians, one stationed at Fort Winnebago, and the other at Prairie du Chien. The treaty contained some small grants of land to half-breeds, and required the surrender of eight Indians, charged with the murder of some whites in the Black Hawk war.

By another treaty, November 1, 1837, the Winnebagoes ceded to the United States all the balance of their territory on the east side of the Mississippi River, and certain interests on the west side, for which the Government paid \$1,500,000. Of this amount, \$100,000 was to be expended in goods, horses, provisions, opening farms and expenses of the removal of the Indians west of the Mississippi, where the tribe engaged to go in eight months after the ratification of the treaty. However, they did not perform that agreement until 1840. A new treaty was entered into at Washington, D. C., October 13, 1846, by which the tribe surrendered all their interests in lands in the United States, for which the United States engaged to give the tribe 800,000 acres of land north of the St. Peters, or Minnesota River, for a residence, and pay in addition \$190,000. The chiefs selected a tract north of the Watab, but the tribe was generally dissatisfied with the location, and the most of them remained scattered about the country.

In 1853, a new treaty was made, by which they were allowed to change their location to the Crow River; but the ratification of this treaty was refused on the remonstrance of the people of Minnesota. The matter was compromised by the United States, and in February, 1855, the chiefs were permitted to select their land on the Blue Earth River, south of the Minnesota. Here the tribe settled the same spring, highly satisfied with their land, and immediately commenced building houses and improving land. So well had they succeeded that the Government Agent at St. Paul, in 1860, reported as follows:

"There have been raised by individual Indians as high as sixty acres of wheat on a single farm. The reservation presents the appearance of as much improvement as the surrounding country; and, in fact, when viewing the comfortable log and frame houses that dot the reservation as far as the eye can reach, it presents a far different scene than is usual to be found upon Indian reservations, for wigwams are becoming as rare as houses were but two years since."

The same year the teachers of the reported one hundred and eighteen pupils enrolled, of which sixty-two were males and fifty-six females; that they were instructed in the ordinary English branches, and had "as much educational capacity as can be found in any school of equal size."

In the midst of their prosperity, when their civilization had become almost a certainty, the occurrence of the "Sioux massacre," in June, 1862, dashed their fond hopes to the ground. Notwithstanding the Winnebagoes took no part, but offered the services of their warriors to our Government to help punish that rebellious nation; yet the exasperated inhabitants of Minnesota demanded their removal, and Congress, by a special act, directed the President to transport them to the Missouri River with the friendly Sioux.

Accordingly, in May and June, 1863, without any treaty, they were loaded upon steamers and taken to the Missouri River, where, in the language of a missionary to the writer, "they were, like the Sioux, dumped in the desert one hundred miles from Fort Randall."

When the purposes of the Government became known to the tribe, the old chiefs, De Cora, Winneshiek, Dandy and their families, and some others, fled to Wisconsin, where, near the tunnel, in the fall of 1864, the venerable old chief, DeCora, who captured Black Hawk in 1832, and sent him to the Government Agent at Prairie du Chien, died in poverty.

Soon after the Winnebagoes were landed at Crow Creek, Dakota Territory, they pronounced the country not fit for cultivation, and were generally dissatisfied. They soon commenced the manufacture of canoes to return down the river. Brig. Gen. Sully visited their reservation, and July 15, 1863, sent a dispatch to Gen. Pope, in which he remarked: "I find both tribes (Sioux and Winnebagoes) very discontented, and if troops are not constantly kept here, I think there will be trouble.

"The Winnebagoes I find hard at work making canoes, with the intention of quitting the agency and going to join the Omahas, or some other tribes down the river. I had a council with them yesterday, in which they said they had been promised, when they left their last reservation, to be settled on the Big Sioux River. How true that is, I cannot say. They also stated that nothing would grow here. They dare not go out to hunt, for fear of the other tribes, and they would all starve to death. This I believe to be true, without the Government intends to ration them all the time. The land is dry, sandy and parched up."

In a letter to the Secretary of the Interior, dated the following day, Gen. Sully remarked: "I state this from my own knowledge of the country. The land is poor, a low, sandy soil. I don't think you can depend on a crop of corn even once in five years, as it seldom rains here in the summer. There is no hunting in the immediate vicinity, and the bands of Sioux near here are hostile to them. The Winnebagoes tell me they are friends of the Omahas, and speak nearly the same language. It is their wish to be united with them on the Omaha reservation, and, as they say, the Omahas are in favor of this also. Their last removal from Minnesota was hard for them, for they were not implicated in the late massacre."

The Indian Agent for the Omahas, October 16, 1863, reported the continued arrival of small parties of Winnebagoes at that reservation in a destitute condition, and he was soon after instructed from Washington to provide for all that arrived. In September, 1864, over twelve hundred had arrived, and the agent, with the consent of the Omahas, had assigned them a tract of land for temporary cultivation, and they had harvested 100 acres of corn.

Soon after this the Winnebagoes contracted with the Omahas for nearly one-third of their reservation at about 30 cents per acre, of which the Indian Agent said, September 13, 1865: "If this arrangement be ratified by the Senate the coming winter, they will become possessed of lands (240 sections) ample in extent for all the purposes of the tribe, abounding in wood and water, and for agricultural purposes equal to the best farming lands in Nebraska."

This contract was finally ratified by the United States Government.

Speaking generally of the Winnebagoes, the Indian Superintendent of the northern department, in September, 1865, said: "I cannot too strongly recommend this unfortunate and much-abused tribe to the fostering care and protection of the Department. Hurried from

their comfortable homes in Minnesota, in 1863, and located at the Crow Creek Agency, where it is impossible, one year in six, to raise a crop, either of corn, wheat or potatoes, they have suffered more than any other tribe in the country. They are now subsisted by the Government on the Omaha Reservation, in Nebraska, whither they have all sought refuge to escape starvation, and, under the most favorable auspices, they must continue a charge upon the Government to a greater or less extent for nearly two years to come."

In the August report occur these remarks: "This tribe is characterized by frugality, thrift and industry to an extent unequalled by any other tribe of Indians in the Northwest. Loyal to the Government and peaceful toward their neighbors, they are entitled to the fostering care of the General Government."

The removal and unsettled condition of the Winnebagoes broke up their schools and religious instruction, and in December, 1864, thirty-eight chiefs and head men, at their Omaha residence, petitioned their "Father," the President, among other things, as follows: "It is our sincere desire to have again established among us such schools as we see in operation among your Omaha children. Father, as soon as you find a permanent home for us, will you not do this for us? And, Father, as we would like our children taught the Christian religion, as before, we would like our school placed under the care of the Presbyterian Board of Foreign Missions. And last, Father, to show you our sincerity, we desire to have set apart for its establishment, erection and support all of our school funds, and whatever more is necessary."

The population of this tribe has been variously estimated at different periods. Thus we find in a French document that they had 230 warriors in 1736; according to Sir William Johnson, in 1763 they had increased to 360; Capt. Carver, in 1766, reduced the number to 200. By a census of the tribe in 1859, they were found to number 2,256 souls, of which 1,055 were males, and 1,201 females; but by the census of 1865 the whole number had diminished to 1,900. The latter census probably did not include the stragglers in Wisconsin, which were still there in 1866. They have been a vigorous, athletic race, and received from the Sioux a name—O-ton-ta-kah—said to mean "the large and strong people."

In the spring of 1866, the Winnebagoes finally settled on their Omaha reservation and commenced building houses, of which they had been destitute these years; they also put on white men's clothing, and have cheerfully settled down, hoping to have a permanent home.

The Agent, in his report of August 20, 1866, said: "There have returned to the tribe, within the past few weeks, about one hundred soldiers, who have served with credit to themselves and to their tribe, in the defense of their country. I consider the Winnebagoes one of the best tribes of Indians in the country, and with proper treatment they will soon become a self-sustaining, prosperous and happy people."

By the treaty with the United States ratified and proclaimed March 28, 1866, the Winnebagoes released their Crow Creek Reservation and accepted their Omaha Reservation, paid for by the United States. They also were to receive 100 cows, 400 horses, 20 yoke of oxen, and wagons; have a steam saw and grist mill, and necessary buildings for a complete agency erected, and are to be paid the expenses of removal and subsistence for one year.

In the account of Rev. Alfred Barenson, of Prairie du Chien, he says:

Some of Shea's authorities found them at Green Bay as early as 1639. Winnebago is the name given them by the Algonquins, which means "fetid." It was because they were said to have come from the salt water, which the Indians style fetid water. This name, however, is corrupted. *Wene*, means filthy or fetid, *be* water, *go* gives its character. *Wenebago* is the name of the water in a marsh that is scented or filthy. *Ouinnebago* is the French of it. The Algonquins called the Winnebagoes a Dakota tribe, but as there is no analogy between their languages, there is no probability of such relationship. They called themselves *Ouchegras*, but were nicknamed by the French voyager Plaines, *fitid*, probably translating the Algie into French, and no less than ten different names are given them by different writers.

The various names, and the variations of the same name, are thus treated by an article relating thereto in the Wisconsin Historical Collection of 1856, page 137, which is taken in turn from the Jesuit Relations of 1639-69, 1669-70:

They are a Dakota tribe, and this name is that given by the Algonquins, and means "fetid." The French translated it by the word Plaines, giving it as a name to the tribe and to Green Bay (Sagard). The early mission-

aries (Brussana, p. 64, and Marquette) state that they were so called by the Algonquins, as coming from the ocean or salt water, which the Indians style "feril water." Nicolet called them more properly *Gondes mer* (men of the sea). The Hurons called the tribe Awaenswaenthorons, and the Sioux, Otoukuk or Sturgeon (Schoolcraft), but they call themselves Ouchagras (Charlevoix). Ouchungara or Ouchungarou, or Trout Nation, or Horogi (fish eaters), Schoolcraft. Gaynon states in his Recollections, page 286, that the name was given by the Menomonees *Wan-n-pa-go*, or fishy. They were the original inhabitants of Wisconsin, and were often troublesome and hostile. They were allies of Pontiac in 1763, were defeated by Wayne in 1794, and adhered to England in the war of 1812.

From Capt. Carver's North America, page 13, the following statement is given of his first meeting with these Indians:

On the 25th of September, 1766, I arrived at the great town of the Winnebagoes, situated on a small island just as you enter the east end of Lake Winnebago. Here the Queen who presided over this tribe received me with great civility, and entertained me in a very distinguished manner during the four days I continued with her. The time I tarried here I employed in making the best observations possible on the country, and in collecting the most certain intelligence I could of the origin, language and customs of this people. From these inquiries, I have reason to conclude that the Winnebagoes originally resided in some of the provinces belonging to New Mexico, and being driven from their native country, either by intestine divisions, or by the extension of the Spanish conquests, they took refuge in these more northern parts about a century ago.

My reasons for adopting this supposition are, first from their unalienable attachment to the Mandawessie Indians (Sioux), who, they say, gave them the earliest succor during their emigration, notwithstanding their present residence is more than six hundred miles distant from that people. Secondly, that their dialect differs from every other nation yet discovered, it being very unsmooth, guttural jargon, which none of their neighbors will attempt to learn. They converse with other nations in the Chippeway tongue, which is the prevailing language throughout all the tribes, from the Mohawks of Canada to those who inhabit the borders of the Mississippi, and from the Hurons and Illinois to such as dwell near Hudson's Bay. Thirdly, from their inveterate hatred to the Spaniards. Some of them informed me that they had made many excursions to the southwest, which took up several moons. An elderly chief, more particularly acquainted me that, about forty-six winters ago, he marched at the head of fifty warriors toward the southwest for three moons. That during this expedition, whilst they were crossing a plain, they discovered a body of men on horseback, who belonged to the black people, for so they call the Spaniards. As soon as they perceived them, they proceeded with caution, and concealed themselves till night came on, when they drew so near as to be able to discern the number and situation of their enemies. Finding they were not able to cope with so great a superiority by daylight, they waited till they had retired to rest, when they rushed upon them, and after having killed the greatest part of the men, took eighty horses loaded with what they termed white stone. This I suppose to have been silver; he told me the horses were shod with it, and that their bridles were ornamented with the same. When they had satisfied their revenge, they carried off their spoil, and being got so far as to be out of reach of the Spaniards that had escaped their fury, they left the useless and ponderous burthen with which the horses were loaded in the woods, and mounting themselves in this manner returned to their friends. The party they had thus defeated I conclude to be the caravan than annually conveys to Mexico its silver, which the Spaniards find in great quantities on the mountains lying near the head of the Colorado River. The Winnebagoes can raise about two hundred warriors. Their town contains about fifty houses, which are strongly built with palisades and the island on which it is situated nearly fifty acres. It lies thirty-five miles, reckoning according to the course of the river, from Green Bay.

PRELIMINARY.

Wisconsin was very early known, having been first visited by a white man in 1634, less than a score of years from the date of the landing at Plymouth Rock, and the introduction of slavery into the colonies. Most fortunately for the welfare of the State, it has always been the home of freemen. In the year above mentioned, it is established that an adventurous Frenchman, Jean Nicolet, first set foot within the present State, and ascended Fox River to within three days' journey of the Wisconsin. It has previously been stated that he approached the Mississippi; but this is now known to be an error. It is painful to add that this venturesome explorer met his death in 1642, in the St. Lawrence River, while engaged in a benevolent mission to rescue a defenseless Aborigine from a relentless enemy. Nicolet visited Wisconsin but once, spending the winter of 1634-35 at Green Bay, and then returning to his home near Quebec.

No State in the Union, whose annals commence at a date so remote from the present, has been subject to so numerous a change of rulers or a more peaceful career in her history than Wisconsin. From 1670 to 1760, the territory was tributary to France. In the latter year, Green Bay was wrested from France by the English giving that nation virtual control of all the French possessions west of Lake Michigan, confirmed by the treaty of Paris in 1763.

During their occupation the laws of Canada were enforced over the Northwest; Jonathan Carver made his exploration; the Northwestern Fur Company was organized, civil government established by the Quebec act, and its possession retained by the aid of Indians until 1783. In

1000

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Théodore Lacroix

LA CROSSE.

that year, the territory came into the possession of the United States, and by Jay's treaty, concluded in 1795, the donation was further vested, together with its forts, trading-posts and dependencies.

Until 1800, Wisconsin Territory was attached to Virginia and Ohio, afterward transferred to Indiana, Illinois and Michigan; its dependence upon these several commonwealths continuing one hundred and sixty-six years.

BEGINNING OF LA CROSSE COUNTY.

All the territory now embraced within the State of Wisconsin was attached to the Territory of Michigan as early as 1818. On the 16th of October of that year, it was divided into two counties, Brown and Crawford, by an act of the Legislative Council.

Brown embraced all the lands lying north of Illinois, and east of a line running due north from the northern boundary of that State, through the middle of the Portage, between the Fox and Wisconsin Rivers. Crawford, all of the State lying west of that line to the Mississippi River. A reference to the map will show that the latter county was probably one-third greater in extent than Brown. Within its limits was included the "Carver Grant," which excited great interest in its day, the confirmation of which would doubtless have invalidated the titles of settlers and dispossessed them of homes.

This grant, it is claimed, was made to Capt. Carver May 1, 1807, for and in consideration of services rendered to the Dakota or Sioux Indians, by How-no-paw-ja-len (Turtle), and O-toh-ton-goon-lish-con (Snake), two chiefs of the tribe. It extended from the Falls of St. Anthony to the mouth of Lake Pepin, thence eastward about one hundred miles; thence north one hundred and twenty miles, and thence west on a direct line to the place of beginning, comprehending about ten thousand square miles and six millions of acres. Every effort was made by the heirs of Capt. Carver to secure from the United States and Great Britain a confirmation of this grant, but without success.

Thus was the Territory defined by metes and bounds until October 9, 1829, when Crawford County was divided and Iowa County created out of the land lying east of the Mississippi River. Four years later, Milwaukee County was established and set off from Brown County, being bounded by the south and east lines of the State, the north line of Township No. 12, and the eastern line of Iowa County. The District Court for these counties convened once a year in each of them, the first term being held in October, 1824, at Green Bay, Judge Doty presiding. Among the cases, there were twenty-eight for illicit cohabitation arising from the custom of traders and French settlers taking squaws to wife; upon being arraigned, the accused pleaded guilty, but sentence was suspended till the close of the term, when all who were able to present a marriage certificate were released upon the payment of a nominal fine, while those who failed to procure the necessary certificate paid an assessment quoted at \$50.

The act of Congress establishing the Territorial Government of Wisconsin, approved April 20, 1836, provided that the territory included in the present States of Wisconsin, Iowa, Minnesota and a part of Dakota should constitute a separate Territory, and that all power and authority of the government of Michigan should cease from the 4th day of July of that year. Territorial officers were appointed and qualified, and a census gave a total of 11,683 residents, divided between Brown County, which contained 2,705; Crawford County, 850; Iowa County, 5,234, and Milwaukee County, 2,893. The apportionment made on this basis gave Brown and Milwaukee two Council and three Legislative members each; Iowa County, three members of the Council, and six members of the Legislature, and Crawford County two members of the Legislature.

At that time, from Chicago to the Pacific, there were but three newspapers published, viz., the *Advertiser* at Milwaukee, Green Bay *Intelligencer*, and Belmont *Gazette*, the locality of the two last mentioned being indicated by their names, all of them being born in 1836, and the Belmont *Gazette*, in the hope of obtaining the Territorial printing. There were scarcely any landings on the Mississippi north of St. Louis, and no roads save those established by the Gov-

ernment between military posts, communication being either on foot or by horse, over well-worn Indian trails. Settlers who were able to come hither either by keel boat or canoe were fortunate, but limited. Those who made their way by the slow and wearisome wagon from the last outpost of civilization at Milwaukee and Chicago, by no means numerous, left hope behind upon entrance to the gloomy forests or while crossing the low, lonely prairies. Yet it is to the glorious self-denial of these bands of pioneers that the present prosperity of the Great West is due.

On the 12th of June, 1838, an act providing for the division of Wisconsin and the organization of Iowa Territory was approved by the President of the United States. The census of May, 1838, showed an increase in the population of over 6,000, and a new apportionment was ordered.

In 1849, Crawford County embraced the territory included in its present limits in addition to that now contained in Vernon, La Salle, Monroe, Buffalo, Trempealeau and Jackson Counties, as also the southern tier of townships in Clark County. In February, 1851, the Legislature of Wisconsin adopted an act providing that the portion of Crawford County lying north of Township 14, north of Ranges 2, 3, 4, 5, 6 and 7, should be organized into a separate county to be known as La Crosse. It extended eastward to within twenty miles of the Wisconsin River, and north ninety miles for the entire width of Clark County. The election for town and county officers was decided to be held on the first Tuesday in the following April. Chippewa County was attached to La Crosse for judicial purposes, and the county seat was located at the village of La Crosse, upon condition that the people of the township furnished suitable buildings for county purposes. On the 11th of February, 1853, La Crosse County was divided and Jackson County created, and the condition of affairs was continued before that slice was taken off until 1854.

By that time, the inhabitants of the original county had become numerous, not to say crowded, and it was decided to cut out a piece or parcel of land of sufficient dimensions for county purposes and become independent. With a view to that end, a bill was introduced into the Legislature in January, 1854, providing for the creation of Trempealeau County, and on the 24th of that month became a law. Three months later, Monroe County was apportioned from La Crosse, and on the 3d of March, 1857, the present boundaries of La Crosse County were defined and legalized by an act of the Legislature, approved on that day. So much for the incorporation of the county.

ORIGIN OF THE NAME LA CROSSE.

The origin of the name is a subject of interest, and there are several theories and statements in that behalf which will be referred to in the order of date as they occurred.

The first is a tradition to the effect that Catholic missionaries at an early day erected a cedar cross near the banks of the Mississippi, on which a crucifix was placed at the intersection of the cross-bar or below it, protected by a pane of glass held in place by wax. The date of locating the cross or its location, of course is mere conjecture. As is known, the Spaniards introduced the custom of setting up a cross upon their first discovery or landing, thus signifying to all comers that the land was claimed by Spain, which derived its title direct from the Holy See. This custom also obtained with the adventurous, self-denying missionaries of the Catholic Church, who by this means indicated that the land was dedicated to the service of Christ.

In a statement submitted by Henry B. Coons, of Potosi, published further along in this book, it would appear that the village whence the county obtained its name derived its nomenclature from French Catholic missionaries, who, en route to Prairie du Chien, which city they also settled and named, halted on their way down the Mississippi, and encamped upon the prairie, where they erected a cross, and called it Prairie la Crossette, by which it was known among the Indians and half-breeds.

Mr. William Staats Tippetts, of Tippetts' Landing, confirms the statement regarding the cedar cross in a letter under date of May 28, 1881. He says: "In 1840, I went by steamboat to La Crosse, which I found to be covered with knolls and sand bars. The bank of the river



was about 40 feet high, and sloped back about 100 feet from the water. Where Lloyd & Clark's store stands were five or six Indian graves, made in the usual manner. At the head of one was a cross made of red cedar, hewn out about six feet high. At the crossing, a small niche had been cut or carved out, and a piece of window glass had been inserted, behind which was a wooden image of our Savior, finely colored, like I have seen in the residences of the Prairie du Chien people. This was a rough-hewn cross, very old to all appearances. * * *

Now, Mr. Henry Coons, of Potosi, is right about the cross, as I have a most vivid recollection of it, and of its exact location."

If set up as suggested by Mr. Coons, about the time Prairie du Chien was named, that would decide its erection to have been during the year 1728, when one Cardewell settled there.

When the name was given, as already hinted, is a matter of conjecture, though it is believed to have been named from a chief, and was known as "Dog Prairie," the word chien being the Indian signification for dog. It is incredible a cross would have been left undisturbed so long, in view of the fact that steamers and hauls on other craft betrayed no conscientious scruples in helping themselves to fuel of any description that could be found along the banks. The tradition may have originated among the friends, a son of Decora, who died in 1842, having placed a cross over his grave, which remained undisturbed for eight or ten years.

The similarity of the name to the French word for cross, i. e., *croix*, will not bear investigation, especially in view of the fact that the name was used by the French in naming the river St. Croix, the junction of which, with the Mississippi, is said to bear a striking resemblance to a near view to that sacred emblem. Two other theories, one of the supposed but very imaginative likeness of a cross made by the Root River on the south and La Crosse River on the north, and that this spot was the favorite crossing place of the Indians: hence the place of the cross or crossing seems too puerile to be worthy of more than passing notice.

Before quoting the final and most probable theory, it may not be improper to notice several of the Indian names applied during aboriginal days. None of them, with possibly one or two exceptions, are especially felicitous; but derived from nature or their likeness thereto, are suggestive of the scenery, for the beauty of which the vicinity of La Crosse is not altogether unknown.

The first of these was that of *enook-wajera*, from *enook*, woman, and *wajera*, bosom, from the supposed resemblance of two bluffs near the mouth of the La Crosse River to a woman's breast. One of the Sioux names was *Topoktaupe*, from *Topo*, four, and *Ktaupe*, killed. The occasion for this is not known to the gentleman who communicates it, N. Myrick, Esq., but that it refers to the slaughter of four men or animals is evident. Another name given by the Sioux, according to Dr. Bunnell, was *Wazarboer*, or strawberry prairie. All the above are expressive, commemorative, and the last musical in its softness, as also most expressive in its meaning.

It is to be deeply regretted that the great wealth and beauty of innumerable Indian names was not more largely drawn upon in the titling of towns, villages and hauls. It would have been a just and fitting, albeit a small recompense, to have perpetuated the memory of the original inhabitants.

Coming now to the facts in the case, it may be stated that La Crosse was the name by which it was known as early as 1805, during which year Maj. Z. M. P. Pike arrived, at which he calls Prairie de la Crosse. In 1823, Lieut. Martin Scott and command, in a journey to the St. Peter's River, halted there, and spoke of the prairie as "being very level, is admirably well calculated for the game of la crosse, which is very much in favor with the Indians."

Maj. Pike speaks of having witnessed the game at Prairie du Chien nearly twenty years before. It was doubtless played here at as early and, in likelihood, at a much earlier date, as this was a noted and favorite resort for games from time immemorial. This is the uniform testimony of all the earlier settlers, who also bear witness that it was also that of the Indians.

The etymology and signification of the name is of itself quite sufficient to convince any one of the great probability of this derivation of the name. In a note on page 189, Volume 2, His-

tical Collections of Wisconsin," it is expressly stated that the name originated from the French name of the game of ball played by the Indians at this point, viz., *le jeu de crosse*. A combination of the first and last syllables gives the modernized name.

N. Myrick, who was made the first Postmaster in 1844, thus speaks of his connection with the name: "The name of Prairie de la Crosse was of course French, and was changed by myself to La Crosse, and the post office so called at my suggestion." What is said of the last name should be conclusive; but, as some strenuously contend for the other theories, it is thought best to submit a presentation of the subject in full.

THE GAME OF LA CROSSE.

The earliest notice of this game as played by the Indians of Wisconsin, is probably that of Capt. Carver, who visited the State in 1766, and may be found on page 364 of his book entitled "North America," and is as follows:

They amuse themselves at several sorts of games, but the principal and most esteemed among them is that of the ball, which is not unlike the European game of tennis. The balls they use are rather larger than those made use of at tennis, and are formed of a piece of deerskin, which being moistened to render it supple, is stuffed hard with the hair of the same creature, and sewed with its sinews. The ball-sticks are about three feet long, at the end of which there is a kind of racket, resembling the palm of the hand, and fashioned of thoughts cut from a deer skin. In these they catch the ball, and throw it to a great distance, if they are not prevented by some of the opposite party, who try to intercept it. This game is generally played by large companies, that sometimes consist of more than three hundred, and it is not uncommon for different bands to play against each other.

They begin by fixing two poles in the ground at about six hundred yards apart, and one of these goals belongs to each party of the combatants. The ball is thrown up high in the center of the ground, and in a directed line between the goals, toward which each party endeavors to strike it, and whichever side causes it to reach their own goal, reckons toward the game. They are so exceeding dextrous in this manly exercise, that the ball is usually kept flying in different directions by the force of the rackets, without touching the ground during the whole contention, for they are not allowed to catch it with their hands. They run with amazing velocity in pursuit of each other, and when one is on the point of hurling it a great distance, an antagonist overtakes him, and by a sudden stroke dashes down the ball. They play with so much vehemence that they frequently wound each other, and sometimes a bone is broken; but notwithstanding these accidents, there never appears to be any spite or wanton exertions of strength to effect them, nor do any disputes ever happen between the parties.

BEGINNING OF SETTLEMENT.

The first settlements, perfected by permanent occupation in La Crosse County were not undertaken, it is believed, prior to 1840, though Mr. H. B. Coons, of Potosi, Grant County, avers his father was a resident of subsequent La Crosse as early as 1836. There may have been visitors into the present county before 1840, but if so, they were made up of transients and adventurers to whom no place was home, and the pressing experiences of the hour, the uncertain lines wherein their lives were cast.

Settlements had grown up in the regions adjoining La Crosse at a date anterior to that mentioned herein, notably at Prairie du Chien, and other points which afterward became sources of supplies to pioneer husbandman and miners, who in those early days ran the gauntlet of the mining district. Indeed it would seem strange, but is nevertheless true, that the settlement of La Crosse was pre-destinated beyond that of other points possessing no more fruitful sources of wealth nor advantages for settlers. Roving traders and agents of fur companies who operated throughout the Northwest could hardly have overlooked the value of sites since fringed with flourishing cities and villages that have been built up and have become the residences of intelligence, enterprise and wealth. They may have come into the wilderness annually, and remaining long enough to exchange their commodities for furs, return to their abiding-places without leaving any trace of their aboriginal existence to guide the historian in his pursuit of facts. But thus far, no records of such occupation have been discovered, and the only positive evidence of settlements available after decades have elapsed is to be found in the statements of those to whom, with but one exception, the award is made by universal acclamation. In this connection the surprise is expressed that among those who came during the first years of the building up of La Crosse, some one of them has not put in permanent and enduring form, a reliable record of

events as they transpired here in those days. Possessing leisure which they have justly won, literary tastes and devoted attachments to the city to whose growth and prosperity they have so liberally contributed, familiar with its early history rapidly passing into tradition, it is truly strange that they have not perpetuated the material in historic form, which they can successfully command.

At the date when the first settlement of La Crosse was ventured, the present county was almost an uninhabited wilderness, possessing as would seem from the presumed refusal of traders and strollers to remain within its limits, but few attractions and those few of the most limited character. The nearest towns were *Prairie du Chien*, *Dubuque* and *Galena*, at that time landings of some importance, but struggling for existence, though comparatively of the importance as *St. Louis* subsequently assumed. The population of *Chicago* was then less than 5,000, while *Milwaukee* was yet in its infancy, and neither gave very promising indications from location or immigration tending thitherward of what was reserved for the future to disclose. There was little then as compared with the present between the flourishing cities of the East and the impromptu municipal weaklings in the great West which has since reflected back the star of empire. The confines of civilization were then limited to the towns and settlements contiguous to the lakes on the west, and he who struck out for a home in the Territories was regarded as an adventurous soldier of fortune whose return was a question chance rather than probability.

This, then, was the condition of affairs as they existed forty years ago, according to sources of information in that behalf, presumably correct. There was little to attract save the intrinsic merit of the location and surroundings, which combined with the hopes of a future, were sufficient to direct the residents of Southern and Eastern States to Wisconsin Territory. To those at home who were independent, the country furnished inducements that would enable men of means to add to their accumulations. To the imprudent or impoverished, pulling with steady stroke against the current of an adversity, both pitiless and uncompromising, a hope for better days. To the speculator it afforded a field of operations incalculably valuable; to the scientist an opportunity for discovery; to the scholar, the Christian and the husbandman, the occasion for labors that have since returned to bless their inventors.

As a consequent, the class of people who established themselves in La Crosse County, and have since been identified with its growth and the development of its wealth, were men of rare excellence. Earnest, frank and kind, they made all men friends by being the friends of all men. Illustrating by example rather than precept, they bridged the brief interval between purity and sin by the power of kindness, and looked with eyes of charity upon the mistakes and failings of their fellows. Brave but tender, they were, in short, the most generous of men who have ever left "the shore touched by a mysterious sea that has never yet borne on any man the image of a homeward sail," their deficiencies made up by the Recording angel, from the love they bore humanity.

And so, too, the pioneer women, those who braved the absence of home, friends and congenial associations to accompany their fathers, husbands and sons into the trackless waste of the Northwest, and contemplated the present as also the future, the horizon of which was darkened by discouragement and gloom. And yet they faltered not, but sustained their husbands by a trust in the outlook that was constant, and bore an abundant harvest. As wives, they were the most agreeable of companions; as friends, the most faithful and affectionate; as mothers, gentle as children ever had the misfortune to lose, who corrected the most pernicious of evils by the most tender of management. Prudent from affection, though most liberal of nature, they practiced economy from the love they bore their husbands, and at critical periods, preserved order in affairs from the care of which those husbands were relieved; she reclaimed her choice from despair, urged his indolence to exertion, and constantly admonished him to industry, integrity and manhood.

In the accounts furnished regarding the first settlement of the county, it is found that the principal events have ever kept pace with the rapid improvements of the age. The site of the city seems to have been a resort for the Indians from time immemorial, and this is said to have

induced French traders to meet them there at an early day for the purpose of trade. Who they were, where they obtained supplies, and other factors of importance regarding their occupation of the present county, either permanently or as transients, are wanting, and the conclusion seems irresistible to an unprejudiced juror of the facts, that the statements sprang from the fertile soil of romance.

In the examinations made with a view to definitely determine the facts regarding the first settlement of La Crosse, the seeker after knowledge has been made the Trustee of information in that behalf both cumulative and persuasive. Mr. H. B. Coons claims the distinguished honor for his father, whom he alleges settled at La Crosse in 1836, while Col. N. Myrick is equally positive that Mr. Coons is in error, notwithstanding his statements are in part supported by public documents, and that he was the first white man to establish a permanent occupation of the county. The weight of authorities, it is but proper to observe, indicate Mr. Myrick as the gentleman to whom this dignity properly belongs; Morrison McMillan, in his history of the early settlement of La Crosse and Monroe Counties, makes the award to Mr. Myrick. He states that no trading-post was established in the vicinity of La Crosse prior to 1840, at which time a man named La Batt or La Bathe opened a store one mile below the present city, but did not remain long.

Mr. Coons insists that his father and Mr. Cabbage opened a trading-post in 1836, within the limits of the present city, which was destroyed by the Indians in 1837. It was rebuilt, but again burned, and, in 1838, Messrs. Coons & Cabbage made a claim for damages thus sustained, which was allowed and deducted from the annuities due the Indians. The Interior Department at Washington furnishes proof that the claim was made, but casts a doubt upon the allegation that the same was paid. From this, it would appear that the avowment made by Mr. Coons, in behalf of his parent, is entitled to considerable weight. A prolonged correspondence resulted from this claim which is herewith furnished, that the reader may determine the question, as the evidence appears conclusive of the facts or faults, but this is done with the statement that among the pioneers of the county still living, the opinion obtains that Mr. Myrick was the first settler to locate permanently on the present city site, and that Coons possibly located on the island opposite.

MR. COONS'S CLAIM.

WESTERN HISTORICAL CO.:

Potosi, Wis., May 10.

In reply to your letter of inquiry, I have the honor to submit the following:

John R. Coons was born in Lexington, Ky., A. D. 1800; came to St. Louis 1808; educated in a French school; came to Grant Grove in the employ of Girard, Chevreuse & Co., fur traders and smelters, as a clerk, in 1827; took part, to some extent, in the Black Hawk war of 1827; at the close of the war, got a smelter's grant from the Government, and under it smelted lead at Dubuque up to the year 1835. In that year he engaged in farming and mercantile business at Belmont, La Fayette County. In 1836, he formed a partnership with Col. Cabbage (who then lived at Davenport, Iowa, I think), for the purpose of trading with the Indians, and getting a permit from the Governor, established a trading house at what is now known as La Crosse, upon the ground occupied by a hotel on the corner of Front and Pearl streets, Col. Cabbage doing most of the business. In the spring of 1837, during the absence of the Colonel, the Indians, instigated by some members of it was supposed, the American Fur Company, burned the traders' house and its contents. Coons & Cabbage rebuilt and it was burned again. The firm made out a claim against the Indians for their losses in 1838, and presented it to Col. Joe Street, Indian Agent, established at Prairie du Chien. The Government, at their annual payment, had Commissioners appointed to adjust these claims, and they were allowed and the amount debited from the annuities.

Col. Cabbage named the place Oubiquity, after a small river in Spain (I think), noted in an old song with a pretty air, that my mother sang and the Colonel admired, and all letters written to Mr. Coons were headed as stated, and sent by the Indians and half breeds to Prairie du Chien for mailing.

The financial crisis of 1837 and 1838 wrecked almost all engaged in business in the West, and among them the firm of Hooper, Peck, Scales & Co., of Galena, with which firm John R. Coons was connected under the firm name of Coons, Woodley & Co., of Potosi. All of the members of said firm are now dead, except William Hooper, of Salt Lake, I noted Marion, who has several times represented Utah as a delegate in Congress. This crisis stopped proceedings for a time at Grand Haven, and Col. Cabbage drew out altogether. Mr. Coons, knowing that there was a future for the Upper Missisippi, tried to keep his claim on the land, and to that end sent two men under wages—Scott and Leam—with teams and full outfit of provisions, tools, etc., with instructions to build a house up on the same ground, in fact upon the ashes of the houses burned in the fall of 1811 or 1812. This they did not do, but built a house on the island now known as Barron's Island. They came down in the spring with a small raft of pine logs, cut on Black River, and reported all right, Coons not knowing anything to the contrary until the following fall; and, while preparing to send men back, he learned that, through a neglected trust on the part of his men, the claim had

forfeited, a result that Myrick & Miller, then located, I think, at Bad Ax, had been waiting for. I was personally acquainted with Miller in 1856 and 1857, as I lived in La Crosse at that time, and by Miller was shown the exact spot that had been occupied by the trading-houses of Coons & Cabbage. In 1854, I visited La Crosse, and at that time the ground was occupied by a small frame house and known as a hotel or tavern, and, if I am not mistaken, kept by Miller. In 1856, the Augusta House was built by J. M. Levy and kept by Bicknell & Rice.

In regard to the name of La Crosse, my understanding is that it was named about the same time that Prairie du Chien was named, and by the same French Catholic missionaries, who, in their voyage down the Mississippi, encamped upon the prairie, erected a cross, and called it Prairie La Crosse, and by that name it was called by the Indians and half-breeds (French and Indian).

The name once mentioned as Koontz, is in all probability Coons, and the "Stoltz" an approximation.

In making the foregoing statements, I don't wish to deprive any one of the honor of being the "first settler," but make them at your request, and upon the facts and information stamped on the early recollections of one who takes some interest in family history.

Respectfully,

HENRY B. COONS.

P. S.—In the foregoing hastily-written communication you may find some things that you can make a chapter of. You are at liberty to shape so as to make readable. Judge Lord W. T. Price, William Hull, Orrin Smith, and others, are references, as I am well known to them.

C.

To the Editor of the Chronicle:

LA CROSSE, May 14.

I have read with pleasure the letter from Henry B. Coons to Mr. King, published in your issue of the 13th inst., in relation to the early settlement of La Crosse. As a general thing, the letter of Mr. Coons contains many truths, and is deserving of credit and respect.

In May, 1838, I, with others, with two Mackinaw boats, descended the Mississippi River, and encamped for a night at a point where the Bellevue House now stands. At that time, there was no settlement or building, or any evidence of any having been on this prairie in sight from the river. I went ashore, and if there were any such evidences I could have seen them. The country near the river was then a continuous range of sand-hills, some of them timbered, especially that near what is now the location of Zeiler's brewery and Dean, Smith & Co's foundry. On the top of the hill were some Indian graves. There were no other evidences that this prairie had ever had a habitation upon it.

In 1841, it was my pleasure to become re-prairie'd, at Potosi, with Maj. John B. Coons and his estimable lady. I have heard from Maj. Coons the facts of his effort to make a claim at Prairie La Crosse and his failure. In the same year (1841), I know that he sent Lear and a Scout to reclaim their lost chance, which was unsuccessful.

The name of La Crosse is not taken from any symbol of the cross, but is a name applied to a game of ball played by the Indians, and I this prairie was the ground upon which they played, hence the name "Prairie La Crosse," the prairie where the game was played. "Croix" is the French for cross. La Crosse means nothing of the kind.

Yours,

WILLIAM HULL.

COL. MYRICK'S ANSWER

ST. PAUL, May 20.

WESTERN HISTORICAL COMPANY: I went to La Crosse and settled there in the fall of 1841. I built my house on what is now called Barron's Island, because of the logs there, and the difficulty of getting them on the prairie, which is the site of the city. I remained on the island until February, 1842, when, having got out the requisite timber, I moved from the island on to the prairie, where I remained.

Neither at that time, nor at the time of my arrival, was there any settlement or building, or any remains of a building, or any evidence of any having been on the prairie in sight of the river at the point mentioned by Mr. Coons, or elsewhere. On this subject, I refer you to the accompanying letter of Hon. H. H. Sibley, who is, perhaps, more familiar with the history of the Northwest than any one now living. Gen. Sibley was at La Crosse in 1835 and 1836, and he says that "there was no vestige of claim or settlement when he conceived the idea of taking possession," and Gen. Sibley informs me, in addition to his letter, that he camped on the La Crosse prairie in 1837, on a trip from Mendota to Washington, having been frozen in at that point, and having to pack his baggage to Prairie du Chien, and that there was no house there at that time.

Hon. Henry M. Rice informs us that in 1839 and 1840, he passed the La Crosse prairie, and that there were no buildings or any evidence of any buildings on the spot at that time. Hon. William Hull, of your city, in his letter in the *Chronicle* of May 15, 1881, says that in May, 1838, only one year after the alleged burning of the house of Coons & Cabbage, he encamped for the night on the present site of the city, and that at that time there was no settlement or building, or any evidence of any having been on this prairie in sight of the river.

Now Mr. Henry B. Coons says that Coons & Cabbage built a trading house there in the spring of 1837, and that it was burned by the Indians, "instigated by some of the members of the American Fur Company, that Coons & Cabbage rebuilt it, and that it was burned again." All this was done in 1837, he says, and yet according to Gen. Sibley, there was no settlement there in 1835, nor in 1837, and according to Hon. William Hull, there was no building there on any evidence of one in May, 1838, and according to Hon. Henry M. Rice, no building or evidence of one in 1839 or 1840. The gratuitous fling at the American Fur Company and at Myrick & Miller, by Mr. Coons is unworthy of that gentleman, and is not the material out of which to make history.

It is well known to all the early settlers that the Indians opposed the settlement by any whites of that section, on the ground that they had not ceded the lands to the United States Government. This of position extended to myself as well as others, but I knew that they were in error, and that the treaty of cession had been made and confirmed.

In 1842, I think, in the early part of the season, Maj. Coons came up and made a claim adjoining mine, which had, early in 1841, been staked off, and on which I had built and was living.

Coons built a shanty on it, and soon after left. In the fall of 1812, Peter Cameron came up, and finding no one in possession of the claim, took it and kept it. Scott and Lear came up in 1813, I think, and finding the Coons claim taken, went away without making any claim either on the main land or on the island or elsewhere.

I never had an interest in the Coons claim, and the insinuation of Mr. Henry B. Coons was uncalled for, and does me great injustice.

When I went to La Crosse in 1841, so far as I could see, there had never been any settlement there. I do not mean to say that in the mystic past, prior to that time, there might not have been temporary trading houses, but if such ever existed, they and all traces of them had disappeared.

There were, however, on what is called now Barron Island, when I built there in 1841, the remains of a stone fire-place or chimney, indicating former habitation, and about one mile and a half below the present city, on the timbered bottom near the river, there was a cabin half rotted down, and about two miles below this, opposite the mouth of Root River, on an island, was Labathe's cabin, where he traded up to 1848. With the exception of some puncheons set up on end in the ground, about 12x10 feet square, by the soldiers on the prairie who were camped there in 1810, for the purpose of keeping the Indians on the west side of the river, these were the only signs or evidences, of habitation at La Crosse, or in its vicinity, when I settled there in 1841. The present site of the International Hotel, on the corner of Front and Pearl streets, was first built on in 1842, by Col. Mills with my permission. There was then no trace of any building on that corner. Col. Mills built a house with hewed pine logs on the lot, and after occupying it for a time sold, I think, to Jacob Spaulding, and left for Dubuque. Mr. Spaulding afterward sold the house to J. M. Levy, Esq., according to my best recollection, and in pursuance of my agreement with Mills in 1843, I deeded the property to Mr. Levy in 1842, the time when I obtained the title from the United States Government. The same house was occupied afterward by Dr. B. Bunnell, who came to La Crosse with his family in 1841. The Augusta Hotel was afterward built on the site which was burned down, and the present International erected in its place.

It has been my sole purpose in this protracted narrative, to gather the scattered threads of the early settlement of La Crosse to be woven into a web of truthful history to be read by our children and countrymen long after the pioneer settlers who laid the foundations amid the adventures, sufferings and dangers of frontier life have passed away.

NATHAN MYRICK.

GEN. SIBLEY'S LETTER.

St. Paul, May 18, 1881.

NATHAN MYRICK, Esq., City: *Dear Sir*—In reply to your verbal inquiry as to the first claim made upon the land where the thriving city of La Crosse, in Wisconsin, now stands, you are respectfully informed that the initial movement in that direction was taken by the late H. L. Doussan, of Prairie du Chien, Francois La Bathe and myself in the year 1835. We went to the expense of having cut and hauled about 20,000 rails for the purpose of including a considerable portion of the then unsurveyed prairie. The matter was left in the hands of La Bathe, who neglected to carry out the measures requisite to secure the claim, and the rails were subsequently appropriated by passing steamers for fuel. There was no vestige of claim or settlement when we conceived the idea of taking possession.

The name of La Crosse, given at an early day to the prairie, was universally believed by the old-time French voyageurs to have originated in the fact that the plain was the favorite resort for the Indians to play the ball game called by that name, and I have no doubt that such is the true explanation.

Very truly yours,

H. H. SIBLEY.

THE REMINDER OF MR. COONS.

Paris, May 28, 1880.

WESTERN HISTORICAL COMPANY: In making reply to your queries in regard to the early history of La Crosse, I stated that I didn't want to deprive any one of the honor of being first settler. I did not expect to open a controversy, nor am I anxious to continue it. Yet I have had a residence in what is now within the bounds of the State of Wisconsin that is verging on fifty-three years, and having to some extent that love for the locality that gave me birth, that finds an eternal abiding-place in the hearts of men of all nationalities. I am as much interested as any one in "the scattered threads" of the "truthful history" of our State, whether "woven into a web" or not; yet I am not so desirous of placing my name or that of my family on the pages of that "truthful history," as to make statements that are without foundation of facts. Nor am I one that gives way to a large amount of sickly sentimentalism over old pioneers or first settlers; yet they are a necessity; without them "the star of empire" would have moved slowly westward. They are men and drink for historians, but a long residence among them has taught me that it was not philanthropy that made the first settlers, or the pure and generous motive of "paving the way for future generations," but to gratify a desire that nature planted in them, to lead a nomadic life, or like the emigration that is daily pouring in upon us from the countries of the Old World, to better their condition. 'Tis true that among the old pioneers of the great West, there was a large proportion of them God's soldiers, honest, warm-hearted and energetic. 'Tis also true that there were among them some who came that their days might be lengthened, and that they might be permitted to breathe God's pure air awhile longer, former badities having become unhealthy. Yet they are pioneers, and in after years become heroes, and we love them for the battles they have won over hardships and privations. They pave the way.

But I am taking up time and space with ideas, not history, and will now try with all deference and respect due from a gentleman to age and wisdom, to briefly answer the communication in the *Courier* of the 23d inst., in which Mr. Myrick states that he settled on Barron Island in 1841, and on the mainland in February, 1842. This I am not prepared to deny. He further states that at that time there was no building, or any remains or evidence of a building at the point mentioned by me or elsewhere, and by verbal statements and letters, endeavors to cover the

time from 1845. Now we are told that "there are none so blind as those that won't see." I shall not trouble myself in getting letters of proof and of verbal statement only such as correct dates, but I do propose to reiterate my first statement, that in 1836 Coons & Cabbage entered into a partnership for the purpose of trading with the Indians; that during that year they did build a trading-house on the La Crosse Prairie, that the same was burned by the Indians twice. As in my first, I again say that at the time it was supposed to have been instigated by members of the American Fur Company. Mr. Myrick takes exceptions to the supposition, and calls it a fling at the American Fur Company. Now, as to the men who composed the American Fur Company I know nothing, but with permission would suppose that they were average men for honesty, etc., but this I do know, that all of their agents and employes were not angels, and that the same trading-houses and goods were paid for out of the annuities of the Indians. I also reiterate all my other statements, except so much as I shall hereinafter correct. In my first I said Maj. Coons sent Scott and Lear up in 1841 or 1842. Now some of our old citizens, who lived here at the time, among them Mr. George Kinney, well known as a lumberman, tells me that he remembers the circumstance, and says that it was in the fall of 1841, and that these men were sent for the purpose of holding the original claim, and when it was found that they had neglected their trust and they were charged with it, they offered as an excuse the statement that they could not get the timber for building over from the island on the ice.

As to Mr. Myrick's statement that Maj. Coons came there in the early part of the season of 1842, I state positively that he did not locate a claim in 1842, on La Crosse Prairie, or anywhere else; that he was not up the river further than Prairie du Chien that year, and also that Scott and Lear were not there in 1843, but were there at the times mentioned by me. In regard to the site of the Coons & Cabbage trading-house, I have no knowledge except such as is based upon information given me by one whom I have always understood was not only cotemporary with Mr. Myrick but a partner, and as such would be as much entitled to the honor of "first settler"—although in the communication his name is entirely ignored except when quoting from mine. H. J. B. Miller, a Mowhawk Valley man, it was, who pointed out the locality, and who many times said to me, "Had your father had the grit to hang on and come and live as I did, you would be an owner in the town site." And it was he who gave strength to the foundations for my "gratuitous fling at Myrick & Miller." Nature made "Scoots" Miller honest, and his word was good in his lifetime, and no honorable man would mistake his words after he had passed beyond the ability to refute them.

I don't wish to do Mr. Myrick or any one injustice. In my letter I gave you what information I could from the recollection of transactions and statements by my father and others.

The Hon. William Hull says that he was there in 1838, and he did not see any settlement or any evidence of one. Well, Mr. Hull might have been up there in 1838; he might have encamped on the prairie one night, and might not have seen a house or the evidence of one, yet I hope Mr. Hull will be honorable enough to admit from an acquaintance that covers forty years, that I have some foundation for my statements if he didn't see any for a house. The La Crosse Prairie is wide and extends some distance up and down the river. A man might encamp on the plains of Egypt for one night and not see the pyramids.

Gen. Sibley's letter recalls to my memory the fact that there were rails laid in piles at the time Coons & Cabbage went there, and that a portion of them were burned by passing steamboats, not all of them. And yet we are told there was no signs of settlements.

In regard to the name, it is still my opinion that it originated from the establishment of a cross by Catholic missionaries, for the reason that, as I understand, the game of La Crosse was introduced among the Indians of Canada by the French, and is not a game that belongs to our western tribes. It was only introduced among them by the eastern Indians as they moved west. But I have made my letter longer than I intended, and have not added anything interesting to the "truthful history;" yet I have tried to avoid a complication of dates, denials and admissions.

Respectfully, H. B. Coons.

P. S.—Where are those brave Scots—the Douglasses—William, Thomas and Robert? If you "dinna hear their slogan" you might have heard the sound of their axes away back in 1840, Lewing out the way to numberless fortunes made since that time in the lumber business. Can't they tell something of the early history of La Crosse?

Supplementary to the above are the following communications from the office of the Secretary of the Interior, in reply to a letter addressed that department by Mr. King in his endeavor to get at the truth of the matter at issue between Messrs. Coons and Myrick:

DEPARTMENT OF THE INTERIOR, OFFICE OF INDIAN AFFAIRS,
WASHINGTON, May 28, 1881.

WESTERN HISTORICAL COMPANY:

Gentlemen:—Replying to your letter under date of the 20th inst., in which you state that you are employed in gathering material and writing a history of La Crosse County, Wisconsin, and ask for information in order to confirm a statement made to you that one Col. Cabbage built a trading post at La Crosse (then Prairie du La Crosse) in 1836, which was twice burned by the Winnebago Indians, and that the losses resulting therefrom were deducted and paid from the annuities of the Indians, I have to state that a careful search has been made of the records and files of this office, which show that a letter from George Cabbage, dated Burlington, Wis., May 24, 1848, addressed to Hon. George W. Jones, on the subject of his claim for losses for the destruction of said post, was by the latter referred to this office, and replied to under date of June 9, 1848 (copy herewith), from which you will perceive that payment was delayed for the reasons therein stated.

I have further to remark that it does not appear that the required proof was subsequently furnished.

Very respectfully, H. PENCE, Commissioner.

DOCUMENT ENCLOSED

(Copy.)

OFFICE INDIAN AFFAIRS, JUNE 9, 1838.

HON G. W. JONES, HOUSE OF REPRESENTATIVES:

Sir—In answer to the letter of Gen. Cuthbage, of the 24th May, referred by you to this department, I have the honor to state that the admission of his claim must be delayed because there has been no evidence adduced to show the value of the property destroyed by the Indians, or proof to contradict the allegation of the Indians that Gen. Cuthbage was trading among them without a license. When evidence of the above facts is furnished, the claim will immediately be attended to.

Very respectfully,

CARRY A. HARRIS, Commissioner.

COL. MYRICK'S FINAL ANSWER.

ST. PAUL, JUNE 11, 1831.

WESTERN HISTORICAL COMPANY:

Gentlemen—I have read the second letter of Mr. H. B. Coons to you, touching the subject of your correspondence. He devotes much the larger portion of his letter to his own ideas, not history; and as the ideas of Mr. H. B. Coons are not a part of the history of La Crosse and of no possible interest to me, he can indulge them to his own satisfaction.

His second letter is a fit companion for his first. It is altogether hearsay, and inadmissible under the rules of evidence. He tells what he has heard others say. He confessesly knows nothing of his own knowledge, therefore what weight is to be attached to his story? While attempting to ridicule any sensibility on my part over reminiscences of friends, and trials and early experience, he is anxious that the public should know who H. B. Coons is, his ideas on matters generally, particularly that he has no sentiment, and in a vain attempt to write history, boldly announces that he "shall not trouble himself in getting letters of proof and of vital statements," and then demands that the public should believe his hearsay, reiterated statements. These statements personally reflect on myself and others, and have no foundation in fact and truth.

I have written what I know, what I saw—of what I was a part. Mr. Coons does not deny that I settled on Barron's Island in 1811 and on the mainland in 1812. What earthly object could I now have in stating that there was no building or evidence of a building on the prairie of La Crosse at that time, if there had been? Coons reiterates his statement that there was. Does he produce any proof? Why was not the proof produced before the Department at Washington? There is no doubt but that the claim for damages was made by George Cuthbage in May, 1828, for burning his post, but it was not allowed. It was not allowed because George Cuthbage had no proof, and probably could produce no proof that there ever was any building there or any that had been burnt. What George Cuthbage could not do then Mr. H. B. Coons, after forty-three years, is trying to do now, and with a similar result. He has absolutely no proof—not a particle—for his statements; on the contrary, the records at Washington, in their present condition, show that Coons & Cuthbage were trading with the Indians without a license, in violation of the law of the United States, and that they preferred a claim for damages, and were unable to furnish any or sufficient proof. It is respectfully submitted, whether any one representing such a transaction as this is in a situation to indulge any personal flings, or to ask that mere hearsay statements shall be believed.

H. J. B. Miller was my partner, and a man of truth, and he never could have told Mr. Coons the story he relates. Mr. Coons does not give the time, nor place, nor any particulars of that conversation, so as to entitle it to credence. It is evidently a mistake. Mr. Miller could never have made such a mistake. Mr. Coons reiterates that "Major Coons sent Scott and Lear up in 1811 or 1812, for the purpose of holding the original claim, and that a Mr. George Kinney says it was in the fall of 1841." Scott and Lear might have been there that year before the 9th of November and went away without making any claim, in consequence of the scarcity of timber, as alleged by Mr. Coons, but I know that they were not there after the 9th day of November of that year, for I was there at that time. I do certainly know that Scott and Lear were there either in the fall of 1812 or spring of 1813, and went away without building on the island, as Mr. Coons stated in his first letter, or anywhere else in the vicinity of Prairie La Crosse. Mr. Coons says: "A man might encamp on the plains of Egypt for one night and not see the Pyramids." Perhaps so, under some circumstances; but Prairie La Crosse is not the plains of Egypt, nor Coons' imaginary house the Pyramids. Prairie La Crosse is only about three-fourths of a mile along the river, running back to the bluffs, and some four or five miles long under the bluffs, and there was nothing to prevent any one camping on the river bank from seeing the house, had any such been there near the river. I have stated what I saw and know. I was there several months before my friend Miller came. I have given corroborative proof. I now refer you to the accompanying statements of John H. Folsom and Ira H. Brunson, old settlers. I refer also to Thomas Savage, at Prairie du Chien, who says he came in 1830 and hunted on the Mowpewa River, and I was back and forth once or twice every year for several years, and never saw a house at La Crosse Prairie except on the islands, before the one I built there.

I have now given you more proofs, and I shall close with an apology for having written so much in reply to a claim which is no more susceptible of proof now than when it was first made before the Department at Washington in May, 1828, and even if there had been any foundation for the same then, it by no means follows that the house was on the mainland and not on the island; and I reiterate and have proven that I built the first house on the prairie at La Crosse, and was the first settler on the town site. No one has denied or can successfully deny this history.

NATHAN MYRICK

MR. FOLSOM'S TESTIMONY.

I came to Prairie du Chien in the fall of 1826. I went to La Crosse in January, 1828, in the employ of Moore & Street, for the purpose of trade with the Indians at that place, and to make a claim on a quarter section on Prairie La Crosse. Their location was near the upper part of the island, opposite the city of La Crosse and on the east side,

and in a house built by Col. Cabbage, which was then in charge of a Mr. St. John for him. The Fur Company had a trading house on the island west of the Cabbage house. There was no building on Prairie La Crosse at that time, but I think there was some hewn pine timber lying there. La Batte's trading house was about six miles below La Crosse, on the east side of the Mississippi River.

Don't know as to the burning of the Cabbage house, but think I heard of it.

JOHN H. FOLSON.

BRICSON'S RECOLLECTIONS.

I came to Prairie du Chien in 1836. In 1837, was in company with H. L. Doussman, B. W. Bris-bos, Francois La Batte, and probably H. B. Sibley, in the purchase of hewn pine timber for building a house at La Crosse, which was left there, but no house was built.

The following communications on the same subject are also submitted:

"Who was the earliest settler in La Crosse?" J. Irwin Smith, in a letter to the *La Crosse Republican Leader* of July 15, 1876, asks this question, saying that the Hon. Charles Seymour, in his historical address, mentioned Nathan Myrick as the first settler on this prairie, and November 7, 1841, as the date of his arrival; but adds: "I am inclined to believe, from satisfactory testimony, that this date is too late by several years, for the actual possession here by white men, and that several others preceded Nathan Myrick."

A gentleman resides in the family of his daughter, who is the wife of Judge Mitchell, in Winona, and whose name I am unable to recall at this writing, but who will be recalled by some of the pioneer traders of our city. Deacon S. T. Smith sold him his here at an early day, and a son of Capt. Smith, the pioneer steamboat man, married his daughter, and resided at Winona.

The gentleman referred to has traversed the Northwest for fifty years, and so belongs to that class having vivid impressions of dates, events and personages. He is a gentleman of the finest culture—of wonderful intelligence relative to all the conditions and changes transpiring throughout this territory. For a number of years, including those following 1832, I think, he was a merchant doing business at Galena, and furnishing supplies to up-river traders; such a man, especially doing credit business, is not likely to be mistaken greatly respecting dates and names of his customers.

Now his statement touching this question is very positive and distinct. He affirms that four or five years previous to Nathan Myrick's coming, when he knows well, that is in 1836-37, two young men, as partners, had seized and occupied this prairie with their cabin, holding it in anticipation for pre-emption as town site. He says the name of one of them was John B. Stolitz, that of the other he was unable to recall at the time he gave me this recital in April last, that the names of both these men are on his books, with date of purchases, as they came twice a year to Galena for supplies, and bought of him pork, beef, clothing and groceries. He had not at the time visited this place himself; but he often talked freely with these men about their location, agreeing with their representations that there must ultimately be a town on this site; but these men were tired of waiting year after year for its beginning. One winter they were so weary of the loneliness that one or both of them left, hiring a man to hold their claim till their return; and, that in the end, about 1840, he thinks these two gave up, and sold out their title to a second party, who also preceded Myrick.

In face of such statements, which can readily be verified or successfully refute I, I judge our date for the settlement, and the credit of priority should be revised. We owe it to the satisfaction of history to be correct. I suggest that reference to the records of Myrick's title would afford light. Who will furnish additional particulars, and tell coming generations unquestionably who settled La Crosse?

J. IRWIN SMITH.

The following statement from a pioneer settler of La Crosse bearing directly on Mr. Smith's letter, was published in the *Winona Republican* of July 24, 1876.

The gentleman referred to by the writer of the foregoing communication to the *La Crosse Republican Leader*, is Col. J. D. Merritt, father-in-law of Judge Mitchell, of this city. Having called his attention to the subject at issue, we are informed by him that the statement of Mr. Smith is substantially correct, but subject to modification in one or two particulars. The date of the first settlement of La Crosse, by the two young men alluded to, was 1838. One of these was named John K. Kountz (not Stolitz), but the name of his partner Col. Merritt cannot now recall. Kountz had opened a store at Belmont, Iowa, in 1837, but was induced by a St. Louis firm to go to Prairie La Crosse for the purpose of making a claim in their interest, and accordingly, in 1838, accompanied by another man, he went thither and took possession of the site of the present city of La Crosse, where the two men remained that year and the next.

Meantime, Kountz was a regular purchaser of provisions and supplies from Col. Merritt, who then kept a general supply store at Potosi, Wis., which at that time ranked with Galena as a center of mining trade. Kountz eventually lost interest Mr. Merritt in the land speculation but failed, and, in the fall of 1837, he and his companion, probably desiring the order of spending another winter in that then bleak and uninteresting locality, and seeing but little prospect of realizing any tangible results from the effort to establish a town, took their departure and abandoned the place forever.

Col. Merritt, whose recollection of the events connected with the early settlement of the Upper Mississippi Valley is very distinct, also informs us that the first saw mill erected in the Black River Valley was in 1841, at Black River Falls, by two brothers named Douglas, who had formerly been employed in Merritt's smelting furnace at Potosi. The same year, Col. Merritt sent a valuable cargo of lead down the Mississippi to St. Louis, which was by accident sunk at the rapids, and became a total loss.

It may be added, in this connection, that Col. Merritt took a prominent part, either as principal or assistant in the removal to their reservations west of the Mississippi and Missouri Rivers, of all the Indian tribes in Ohio, and that his knowledge of Indian character and habits is scarcely excelled by that of any other person now living. In the conversation with him from which these facts were gleaned, Col. Merritt—who is now upward of seventy years of age, though looking much younger—incidentally stated that fifty-two years ago, he was informed by an intelligent Indian, who had recently come from the Yellowstone region, that gold existed in large quantities at the Black Hills. Upon the question of responsibility for Indian outrages, Col. M. is true to the instinct of his Quaker ancestry, emphatic in the opinion that they are almost entirely due to the bad faith and cupidity of the whites. He says that, during a long period of close intimacy with them, he never knew of a single violation of an agreement on the part of the Indians.

There seems to be no question but that overtures, as it were, had been made in the direction of La Crosse, with a view to settlement there or thereabouts prior to the act itself; why this was not accomplished is a mystery no one seems thus far to have ventured a solution of, but its truth is undeniable.

MINING SETTLEMENTS AND MILITARY POSTS.

The first settlements of Michigan Territory, as is known, were made at a comparatively early day by miners who radiated from more thickly settled sections, attracted by the reports of rich discoveries of mineral, and this, too, notwithstanding the enforcement of rules and regulations formulated by mine Superintendents, and the danger to be apprehended from attacks by Indians. Neither of these embargoes delayed the settlement of La Crosse County at an earlier day, as the absence of mineral, a source of attraction elsewhere, failed to woo the coming of venturesome delvers in mother earth, for the springs of revenue, which in other portions of Wisconsin had been tapped, and bounteous streams gushed forth.

One reason quoted for the comparative delay in effecting a lodgment of settlers about La Crosse at an earlier day than during the forties, was the fact that the Eastern States, whence a large immigration subsequently proceeded, had not become over-crowded, and space by no means so contracted. Another cause of delay is attributed to the further fact that the countries of Europe which now furnish so large a proportion of the population of the more Western States and Territories, had not at that time become familiar with the advantages to be found here, and preferring to suffer the ills to which they had been subjected for generations, rather than to encounter others of which they were ignorant, their coming hither was delayed until a time when necessity or inclination prompted by the glowing accounts of life in the New World, led them to embark their hopes on a tide, which as the sequel in many instances has proved, led on to glory and to fortune.

Military posts were for years the only habitations to be found on the frontiers, save the wigwags of the savage, and the only inhabitants the soldiers and officers who fraternized with the foe or aided in the efforts employed to accomplish their departure before the advance of a progressive civilization. Wars were carried on as is known from the pages of history; settlers were slain or driven off, and the effects of the Indian occupation were not entirely obliterated for years it might be said after the dusky warrior resigned the contest, and ceded to the whites possession of the territory for which he had so valorously, yet fruitlessly contended. When Mr. Myrick came into the country forty years ago, the Indian was still in the field, equally as treacherous, equally as uncivilized, and fully as savage as during the days when he ran wild in the sunshine, unrestrained by law or the force of arms. The dignity of character which romancers and poets are wont to ascribe to the red man, was nowhere visible, and his capacity for evil was only measured by his opportunities. He absorbed the vices of the whites, without seeking to emulate any of the virtues recorded of the most unconscionable in the book of life, and taken all in all, was by no means a desirable quantity in the body politic, where law and order prevail, and where men are measured by their excellences and not by the absence of them. A fragment of these aboriginal occupants are yet to be seen at occasional intervals in the cities of the Far West, but bear no impress of the position Fiction, rather than Fact, has allotted them in the annals of the past. Indeed, it might be said without trespassing upon the domain of exaggeration or prejudice, that they are the most heterodox samples of departed

greatness to be seen without the pale of barbaric domination—living testimonials of moral and intellectual deformity, and a standing rebuke to the caste of citizens, rapidly becoming extinct, whose felicity in life is augmented in proportion as they can trace their pedigree to the daughter of Powhattan. Their shadow is assimilating with nonentity, so to speak, diminishing in a manner that, in view of the facts in the case, must not be other than gratifying. Many an old settler in the mellow evening of life lives to witness a fruition of hopes of earlier years in the rapid progress of the city and State, had not been spared if his lease of life forty years ago, was contingent upon the humanity of the Indian who greeted his advent here with threats and demands for fire-water.

But he has survived the trials and dangers which attended his coming into the undiscovered land, that to-day teems with the fruit of labors he was instrumental in directing hither, conserved and facilitated through the system of education, he was the medium of establishing. The visitor to the country comprehended within the present limits of La Crosse County as he bows over the avenues that intersect one another in all directions, or gazes upon the fields of ripening grain ready for the sickle, or views the evidences of thrift, skill, enterprise and accreting capital, which greets his vision whithersoever he may turn in city and county, most not be unmindful of the labors, and the industry which have been utilized to these results. Where once the savage dwelt secure in the fastnesses of the wilderness, churches and schools have been raised up, bringing the fullest fruition of their objects to the county and to the founders of these agencies for the amelioration and improvement of the race of which they were so prominent and disinterested constituents. To these leading spirits who revived discouraged hearts, and checked fading hopes born of disappointments and apprehensions that were by no means retired figures in the days that passed away a third of a century ago, is the present condition of affairs wholly due. Long may they survive and see the perfect realization of works, the foundations of which were laid when the heart of man was almost appalled by the unpromising outlook. A region inhabited by savages, jealous, revengeful and degraded. The nearest place at which supplies could be obtained, or social amenities cultivated, distant a journey of several days. In health it must have been cheerless, in sickness simply desolating.

NATHAN MYRICK'S ARRIVAL.

This was the condition of affairs when Nathan Myrick, the pioneer settler of La Crosse County, landed opposite the foot of Main street, in the present city, on the afternoon of November 9, 1841. The scene was by no means encouraging to the enterprising visitor, who had, before attaining his majority, settled in the West, and, after serving an apprenticeship to B. W. Brisbois, a fur trader at Prairie du Chien, extended his field of observation, and decided to locate at La Crosse. He was confident of the future; no doubt entered his mind of what the harvest would be, yet in spite of his hopes and ambitions, and determinations to realize from substantial foundations, there was little to encourage in the appearance of affairs for the time being. The season of the year, with its solemn, gloomy, melancholy days, the landscape that but a brief period before had rejoiced in an exuberance of flowers and foliage, was now drooping, dying, epitomizing, as it were, the closing scenes in a year that was cycling into the irrevocable past. Mr. Myrick, without companionship, save the presence of Heratio Curtis, Elen Wells, and a man named Reed, who accompanied him, and, while there was much to inspire him to acts, there was much to persuade him to retire whence he came, and identify his fortune with that of the friends and associates nearer the confines of civilization.

The prompter's bell has rung down the curtain on forty years since that day, in the life of Nathan Myrick. He has lived to see the prairies and bluffs blossom as a rose; to see the narrow Indian trails yield precedence to roads made by the hand of man, to lines of travel connecting with the East and West through the darkness of the night; to see a city created over the ruins of the Indian wigwams, and the mighty river overcome and bridged from shore to shore. The places he knew in those days primeval, have passed into obscurity, and their trials become as a tale that is told. The lives of men to-day are as holidays compared with those of

men who were identified with its development and cultivation. Life in those days must have been attended with unlimited hardships and privations without the possession of a compensating number of blessings and privileges. The mighty achievements that have since been made, are the result of small beginnings, supplemented by constant industry, daring enterprise and untiring energy. The waste places have been made to yield abundant harvests, villages and cities have arisen as if by magic, and civilization and the arts "soar Phoenix-like to Jove." The marts of trade and traffic, and the work-shops of the artisan are thronged; a common school system increasing in value and influence with each succeeding year, has been established, and children of the rich and poor press forward eager to participate in the benefits thereby afforded. Churches have been built, and a Christian ministry ordained for a cultivation of a religious life, the promotion of piety, the inculcation of morality and virtue. The press, the Archimedean lever which moves the world, sends forth floods of light to illuminate the land and benefit the sons of men. Railroads are completed to facilitate the acquisition of independence, and the electric telegraph shortens the intervals of space at the behest of mankind. As these pages are read, bright memories will blossom out of the shadowy past, glorifying and beautifying its dimness. Many herein mentioned have long since gone, like visions of the beautiful, to be seen no more. Many yet remain who have almost reached the Biblical limits of human life, and are waiting to say: "Now let thy servant depart in peace," leaving as a heritage to their descendants in long years hence, the ripe and perfect glory of a domain of which they laid the foundations, while a large number of those who participated in the foundation of the county, sleep after their labors, and their works do follow them, an equally large number remain who have survived the rush of matter and wreck of worlds, and contemplate the scene as a Rock of ages cleft for the good and faithful servant.

At the time of Myrick's arrival, there was no one residing at La Crosse or on the islands contiguous thereto. The only resident in the vicinity, immediate or remote, was La Batt or La Bathe, a French trader, of whom mention is made above, but whose sojourn, as already hinted, was far from permanent. The voyageurs had come from Prairie du Chien with the object of establishing a trading-post, bringing with them a stock for that purpose. It was the intention of Mr. Myrick to erect a store at La Crosse and begin operations at once; but the scarcity of material prevented this consummation, and so he located temporarily on the island opposite the city, where limited and comfortable accommodations were secured. Here he opened his kit of goods, and hither tended the wanderings of the Winnebago Indians, who having received their annuities, sought the disposition of what was paid them without any unnecessary delay. In these roughly improvised and contracted quarters Mr. Myrick and his companions passed their time, eating, sleeping, making sales of goods in exchange for furs or their equivalents in money, and doubtless dreaming of days when after patient watch and prolonged vigil, they would be rewarded with returns that should more than compensate them for the trials they had endured and the deprivations to which they had been subjected. Thus were the long winter days and nights of that heroic period passed, and if the truth were known, they were doubtless the happiest days of lives that had not always been unchecked or complacent.

A DANGEROUS JOURNEY.

One week before Christmas of the year of his arrival, Mr. Myrick began a journey to Prairie du Chien, to renew old associations and drink a cup of gladness to days long since, as also to procure a fresh supply of materials he kept in stock. He started upon his trip in a canoe, and looked forward to an early arrival at his destination with feelings of pleasure and pardonable impatience. At the hour of his departure the weather was comparatively hospitable. Autumn had not yet doffed her garments, and Winter was seemingly loth to enter upon the contest for supremacy. But suddenly changing his determination in that behalf, old Winter introduced himself without being announced, and made a day of it to see what was going on, as it were. He found the hopeful voyager en route on his trip, but whistled about him dolefully as sighs in a churchyard, and urged his delay with such persuasive eloquence as proved irresistible, and de-

laid Myrick beyond all comparison. After a brief season, the rain turned into sleet, finally resolving itself into snow, and causing the traveler in search of business and pleasure to regret that he had emerged from his hut on the island. Added to these aggravations the wind blew a gale, ranging over prairies, whistling down Coolies, and performing antics among the trees and brush, original as they were provoking to the Prairie du Chien-bound tourist.

He had in the meantime abandoned his canoe, and sought to expedite his advance by the way of a trail which then skirted the western approaches to the bluffs. Here his progress was by no means more satisfactory. After the rain, the snow and wind resumed their presence, and kept him company on his cheerless way. When he reached Coon Creek he found that stream over its banks and impassable to pedestrians. This supplemental embargo was far from cheerful to the wearied wanderer, but by no means disheartened he canvassed the situation, and at last discovered a bridge formed of a tree which had fallen over the otherwise impassable stream. He mounted this connecting link, and had reached mid-stream when he lost his hold and was precipitated into the freezing waters beneath. After making one desperate effort and failing, he succeeded in crawling out of his bath, and nearly numbed with the cold, as also fatigued with the efforts necessary to procure his deliverance, he made his way to Bad Ax, which he reached after dark. The only domicile that afforded him protection from the storm and an opportunity to dry his now frozen garments, was at an Indian camp near by, where the Indians were all drunk and engaged in the peculiar motions of the war dance to the unmusical tom-tom, beaten by a decrepit but fierce-looking and very inebriated Winnebago. The appearance of things didn't seem to mollify the feelings of the visitor, but an aged and sympathetic squaw took him in charge, and with signs admonishing him not to be afraid, tucked Mr. Myrick away in her wigwam. He slept little during the night, and arose in the morning considerably fatigued and sore. Nevertheless he pursued his journey, making seven miles by noon, his muscles yielding somewhat to the exercise necessary, when he bathed in the snow and emerged from his icy experience comparatively limber. He reached his objective point soon after, consuming four days in a trip that is now accomplished in as many hours.

Upon concluding his business there he returned to the island and attended to the engagement which had attracted him thither, until February, 1842. Through the long months of this inhospitable season of the year, as has already been observed, there was absolutely nothing to encourage the hope of immediate immigration in the direction of Prairie La Crosse. The inclemency of the weather, together with a well-defined apprehension of attack from marauding bands of Indians, had the effect of checking the enterprising disposition of Myrick and his subordinates, and no improvements beyond those indispensable to protection from the weather were proposed or inaugurated. His store was patronized by the Indians, and so long as the money received by them at the Turkey River Agency lasted, the times were lively indeed, so lively upon one occasion as to cause serious fears of the consequences.

MYRICK'S ADVENTURE WITH AN INDIAN.

There were fifteen lodges on the island, and one Sunday morning two of the savages became inspired with the determination to possess themselves fully of the gore of the traders. One of them visited Mr. Myrick's store with a loaded gun, which that gentleman secured and discharged into the air. The intruder then began to manifest familiarity with the stock, and sought its ownership without the usual tender of value. These proceedings naturally disturbed the serenity of their legitimate owner. Upon being refused their transfer, the Indian again loaded his gun, but its discharge was prevented, owing to a squaw having knocked out the priming. After repeating his threatenings once more, Myrick, who was standing outside his cabin, hurried therein and barricaded the entrance, and from the window surveyed the preparations for assault making by the Indian. When the latter had completed his preliminaries, he advanced upon the cabin, and demanded admittance, which being refused, he opened fire. The attack was then commenced, which lasted for a brief period, when hostilities were suspended, without any

other damage having been sustained than that occasioned by the shot entering the logs of which the house was built.

While the firing was in progress, Alexis Bailey, residing down the river, hearing the shots, hurried on to the scene, and was instrumental in quieting the "perturbed spirits" of the savages. At Myrick's request, he interrogated them as to the cause of their assault, to which some of the Indians responded that it was because Myrick had fired off his gun at them, referring to the discharge above mentioned. A peace was finally concluded, when Mr. Bailey pursued his trip homeward, followed by the Indian who had originated the disturbance. He had reached a point below the present city of La Crosse, when he was startled by the explosion of a gun, and noticed the leaden messenger therefrom ricocheting along the ice, in too close proximity to himself to be comfortable. He demanded the cause of this unlooked-for diversion, when the savage replied that he was shooting at a mark, and slunk off up one of the ravines that terminated on the river bank. The blood-thirsty aborigine subsequently returned to the island, and, escaping the penalty of his misbehavior, gave no further cause of alarm during Mr. Myrick's sojourn there.

From these incidents, it will be readily appreciated that the lives of those who began the settlement of La Crosse were far from being as ripe with sunshine as a day in June. On the contrary, his conversion of the wilderness into fields that to-day blossom with the harvest, was surrounded by trials and labors. The embargoes to be encountered and disposed of in the effort inaugurated for the establishment of homes in regions remote from civilization, and unsought, therefore, save by wandering Indians and savage beasts, were not of a character that was calculated to inspire an endless felicity. The years were replete with trials and hardships, against which no soul rebelled and no voice was raised. They also shone with promises in rainbow tints that have long since been more than realized. Out of the darkness there shone a light: out of the sorrows and disappointments an exceeding joy came forth.

THE SETTLEMENT ON THE MAINLAND.

In February, 1842, Reed and Wells, who had accompanied Mr. Myrick from Prairie du Chien in November, removed with him to the mainland, where La Crosse now is. The same month, H. J. B. Miller came up the river and became an employe of Myrick. During the winter the latter passed on the island, he had prepared the necessary timbers for a house, with the aid of Reed and Wells, shoved it across the Mississippi on a hand-sled, and erected the first house in Prairie La Crosse, on the corner of State and Front streets of to-day, the site at present occupied by the Minnesota House of Alexander Whelan.

At that time, Mr. Myrick is positive as to the appearance of the future city site, which, he asserts, furnished no indications of what was reserved in the future. There was no habitation of any description between the river and the bluffs, nor a sign of one, except the puncheon protectors put up by the soldiers in 1840, as a means of safety against the anticipated raids of Indians. The prairie stretched out to the east, south and north, without the slightest vestige of civilization to vary the monotony of the landscape, the log cabin of Myrick being the only evidence of the white man's handwork visible, far or near. This conclusion is borne out by the testimony of many who came into the vicinity soon after, notwithstanding the doubt that is sought to be attached to his claim of precedence in effecting the settlement of La Crosse.

That year an occasional transient passed this way and carried long enough to recuperate, when he continued his journey West, the majority of these being bound for the Black River country. Jacob Spaulding went up there in 1839, and removed his family thither two years later. In 1842, Andrew Shepard, William K. Lewis, John Lewis, Col. Johnson, and a Mr. Valentine passed through La Crosse en route to that section of the country. The portion about La Crosse was the central point and rendezvous of the Indians, which may, doubtless, have worked some delay in its settlement after Myrick & Miller (who, meantime, had become partners in trading with them) had made a start. They gathered about the store, and at other eligible points in the vicinity in large numbers and were occasionally disposed to be pugnacious, especially if the



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least affected by liquor or the want of it. Hand-to-hand contests were of frequent occurrence between travelers and Indians, as also among themselves, and, notwithstanding the paucity of numbers, the Caucasian was capable of maintaining his supremacy and become an interested spectator of the squabbles which the red men improvised in their own homes, when aggravated by a continued period of peace.

THE FIRST SURVEY.

As the year advanced and spring was succeeded by summer, the tide of immigration began to set thitherward, and an occasional settler was left with its ebb. Myrick & Miller procured a survey of the town site by Ira Bronson, of Prairie du Chien, which remained unchanged until 1851, when it was re-surveyed. These preparations had a tendency to invite visitations from earnest, enterprising men, who were on the *qui vive* for opportunities, and largely contributed to the future growth and development of the city and county.

Among those who came to La Crosse during 1842, was one known as Dr. Mills, who put up a house at the corner of Front and Pearl streets, where the International Hotel has since grown into prominence. He remained here but a short time, however, returning to Dubuque, whence he came, before the season closed. Another who came in was one who sailed under the impressive pseudonym of "Scotch Billy," the why or wherefore of this *nom de plume*, is not of record, nor are the events in this vicinity affecting his happiness and prosperity. These, with Mr. Miller, comprised the roster of inhabitants who came to identify themselves permanently with La Crosse, and aid in the building of the city.

Throughout the fall nothing occurred beyond the routine of life on the confines of civilization to startle the nation, or blast or elevate the hopes of those immediately interested; i. e., the limited number of inhabitants collected at La Crosse. The winter of 1842-43 was one of the severest ever experienced in this latitude. Its ice and snow rendered travel to distant points comparatively easy, and its chilling blasts left the impress of their cheerless presence on the memories of those who were subjected to their penetrating influence. The season was protracted far into spring, goods being transported on the ice from Prairie du Chien as late as April.

DEATH OF DE CORA'S SON.

During the continuance of this freezing period, a son of Blind De Cora met his death under circumstances, which at first blush, tended to implicate innocence in the crime of murder. This, upon examination, however, was dissipated, as it was proven that deceased froze to death under the following circumstances: He was engaged in a hunt for deer, and to disencumber himself and facilitate pursuit, threw off his blanket in the chase, which led over Root River; while crossing that tributary, the ice yielded to his weight and he plunged into the chilling waters. He succeeded in extricating himself and gained *terra firma*, when it is supposed he became temporarily inane, and died before help could reach him and preserve his life. After his body was found, and while the question of murder was being mooted, a closer examination of the surroundings was made, when it was discovered that he had endeavored to make his way out of the woods, but in place of proceeding in the direction of the camp, with which it was believed he was familiar, he marched around in a circle until overcome with exhaustion and the cold, when he lay down and yielded to the ghost. His remains were removed to Myrick & Miller's store, where they were prepared for the tomb, and encased in a pine box waiting burial. While thus inclosed, a squabble occurred among his kindred and friends, as to the form of ceremony appropriate to the occasion. The dispute ended in a fight, in which mourners, attendants and the multitude mingled pell-mell, during which the corpse was sacrilegiously and indelicately cast out of the improvised coffin, and narrowly escaped being torn to pieces. Finally, after the anger thus intrusion caused, had subsided, peace was declared, the body re-inclosed and buried on Front street between State and Main. A palisade fence was built about the grave, and a cross erected at the head, which remained intact until 1851, when the relics of Winnebago mortality were removed to the cemetery, subsequently opened on the present site of Hirschheimer's shop. They were again removed some years ago, but where, the informant is silent.

THE MORMON INVASION.

Early in 1843, the Mormons ventured into this portion of Wisconsin under the charge of George Miller and Lyman Wight, who styled themselves the Trustees of the Nauvoo House Association and Elders of the church. They came direct from Nauvoo, and located at Black River Falls, where they rented the mill of J. Spaulding & Son for the manufacture of lumber to be used in the erection of their temple at Nauvoo. Myrick & Miller contracted with Miller & Wight to furnish them supplies during the winter of 1843-44, the same to be paid for in lumber at La Crosse in March of the latter year. They ran the lumber down, and liquidated their obligations; and, in July succeeding, transported lumber to Nauvoo.

In September of the same year, some twenty or thirty families returned to La Crosse, and camped near the river, on what is now Front street, until they could look around for a place to locate; and, after some delay, selected the cooley at the lower end of the prairie, which has since been known as "Mormon Cooley."

This party was under the charge of Wight, Bird & Co., Elders of the church, and indulged all the latitude of the sect publicly. The form of sealings or marriage, which has of late years been recognized as an indispensable precedent, was never thought of by the Wight & Bird off-shoots. In place of this, a revelation that a brother and sister should be "sealed" without any formal ceremony was all that was necessary, and the only agency employed to attract the sisters and brothers into practically illustrating the true theory of Mormon theology. These and other features of their lives in La Crosse vicinity had the effect of making them generally disliked, and this dislike found such frequent expression that they finally departed hence.

Myrick & Miller hired quite a number of the men to chop wood on the island, also to get out rails, and another party of them to proceed to Black River to make shingles. During the latter part of the winter of 1843-44, or during the early spring of the latter year, they seized flat-boats on the slough near the mouth of Mormon Cooley. Thus being prepared, the choppers on the island and shingle shapers on Black River, rendezvoused at the Cooley, put their household goods and effects on the flat-boats, fired their houses and departed in the night for Nauvoo. Luckily they were discovered before they were out of reach, and after some trouble the claims held by settlers against them were liquidated, when they were permitted to depart, and never returned.

The experiment of Joseph and Hyram Smith was sought to be established throughout the West during those early days, particularly in Illinois and portions of Wisconsin. These efforts, however, were unattended with results anticipated, and meeting with a very pronounced opposition from legitimate settlers, ceased to be more than the incident of a season. Some proselyting was attempted with indifferent success. A very few converts were "led astray" as is known, and a still more limited number accompanied the successors of the Smiths to Utah; but the people in the West, at this time, were hardly prepared to embrace a creed the corner-stone of which was laid in superstition and immorality.

ADVANCING CIVILIZATION.

The influx of population this year was far from numerous, and the number of improvements in due proportion. Among those who came during the year were Maj. E. A. C. Hatch, who arrived here in December, but whose advent was anticipated some months by Dr. Snow, who will be better remembered under the name he was more familiarly known by, "Dutch Doc." Philip Jacob, James Ismon and Asa White. This was the sum-total of additions to the population in 1842. By no means a forerunner, so far as numbers would influence a mathematical deduction of those who would gather on the shores of the beautiful river, the father of waters, in after years, and gradually build up one of the most beautiful and flourishing cities which line its banks from Itaska to the Belize. The improvements made this year consisted of a barn, warehouse and blacksmith-shop, put up by H. J. B. (Scouts) Miller, and located, the blacksmith-shop at the corner of Front and State streets, the warehouse on the present site of the Bellevue House, and the barn where the Cameron House now is. The "Dutch

Doc" and Philip Jacobs erected a house at the corner of Front and Vernon streets, while Asa White did likewise on Front street near Vernon. Such were the beginnings made in the days when ambition to improve was only limited by capacity; and when the building of a house of the most circumscribed dimensions and conveniences was an event of the greatest importance and universal rejoicings. They long since became wrecks, and upon their ruins structures have been erected, the architectural proportions and elaborate furnishings of which have attracted admiration and a spirit of emulation at home, as well as of generous rivalries abroad. There is indeed no feature of excellence about La Crosse more commendable than its buildings and improvements, their style and decorations indicating a very pronounced enterprise, and giving evidence of taste and appreciation for the beautiful as patent as it is exceptional.

MAJ. HATCH'S EXPLOITS.

The events of this year would be radically incomplete, and an injustice done to the history of those early times, if mention is not made of the services and exploits of Maj. Hatch, a gallant gentleman, and a conspicuous actor in the first settlement of La Crosse, who is mentioned among the arrivals of this year.

He left Westport, N. Y., in the summer of 1843, and made his way to Prairie du Chien in search of fortune and adventure, and peculiarly gifted by nature and education to wrestle with one and encounter the other. But his halting-place failed to furnish the quota of either he sought; and, in December of the same year, he continued his journey to Prairie La Crosse. Here he was pleased with the condition of affairs, and the promise held out to all who came prepared for any fate which the future reserved for their acceptance. He at once entered the service of Myrick & Miller, as clerk and trader, and ran the gamut of that apprenticeship until July, 1844, when he was placed in charge of a trust at Holmes' Landing, now Fountain City. He remained here until the summer of 1845, when he returned to La Crosse, and was, on February 28, 1846, appointed Postmaster, which position he resigned a year later, in favor of "Scots" Miller.

While the subject hereof was engaged on a trading trip from Holmes' Landing to the Sioux camp, he placed his goods into one of their tents, and demanded payment of what they owed. The Indians refused, whereupon Hatch deliberately placed a keg of powder on the fire burning in the center of the tent. The savages observing his motions abruptly withdrew, after which Hatch kicked the keg from its dangerous proximity to the coals, and enjoyed undisputed possession of the camp, with all its prerogatives and appurtenances for upward of an hour. At the expiration of this period, an Indian skirmisher appeared upon the scene, and, gazing cautiously into the tent, was amused and surprised at beholding Hatch engaged in the pleasant and inspiring amusement of smoking his pipe. The communication of the intelligence worked a return of the band to camp, who, upon arriving, were annoyed at the sight which met their gaze. They expected that the courageous trader had been blown to pieces, and to witness him alive was a sight to them as incomprehensible as it was aggravating. Hatch again demanded payment, and the Indians obtained their furs and complied with their obligations, confident that their failure to do so would involve them in a general ruin or an unexpected voyage to the hunting grounds then frequented by their ancestors without an unnecessary delay or benefit of clergy. This was regarded by them as an original way in which to compel the payment of debts, but it made the Major popular ever after among the Sioux, and gave him almost boundless influence with them.

In the fall of 1846, the Major was placed in charge of a post at the foot of Coon Slough, and traded there until the following spring, when he returned to La Crosse. It was about this time that an incident occurred which established his nerve and courage, and gave him an almost universal reputation among the class of citizens who esteem bravery as an evidence of genius. He was standing near the river, when an Indian with club in hand stealthily approached from behind and raised his weapon in a frightfully threatening manner. As he was about to strike, L. H. Bunnell, who was standing near, warned Maj. Hatch of the danger which was impending.

Thus admonished, the prospective victim saw the danger in time to avoid the murderous blow aimed at his head, and seizing a club near by, dealt the cowardly savage a terrible punishment, inflicting dangerous wounds and rendering him insensible for some hours. He was with a party of Indians, who assisted at his restoration to consciousness, and placing his inanimate body in a canoe, conveyed the same to their camp on Black River Lake, where Onalaska is now situated. During the same day, some young bucks belonging to the tribe visited La Crosse, and hunting up Hatch told him that the Indian would die—that he was very popular and had many friends. These latter were much incensed at the treatment their companion had received, and proposed to take vengeance for his injuries upon the one who had been so active in their infliction, concluding by advising him to leave the country if he would save his life. Hatch not only refused to leave but defied their efforts, and told them to say that he intended to kill him; further, that if the life of the Indian was spared and he attacked him again, he would make sure work of the assailant. After a few weeks' confinement the Indian recovered, and, coming to La Crosse for that express purpose, made his peace with Hatch, and afterward became one of his staunchest friends. This incident made Hatch a brave among the Winnebagoes.

In the spring and summer of 1848, the Indians were removed from Iowa and Wisconsin to Long Prairie, in Minnesota, and Maj. Hatch rendered valuable assistance to the Government, in aiding the departure of those who were hostile and opposed to removal. Hatch and Asa White afterward became partners, and established a trading post at Little Rock, above Sauk Rapids, and continued business about a year, when they dissolved, when, after other ventures, he settled in St. Paul.

In the spring of 1855, the Interior Department wishing to engage the services of a brave and fearless agent to take charge of Fort Benton (for the Blackfeet there were very troublesome), on the recommendation of the Hon. H. M. Rice, Delegate in Congress from Minnesota, who gave Maj. Hatch the highest character for courage and ability, appointed the latter and transmitted a commission as Indian Agent, without his previous knowledge. He accepted the honor, and going from St. Paul to St. Louis, departed from that point to the Yellowstone, which he ascended on a keelboat laden with goods and supplies for the agency and American Fur Company. The motive power employed up that treacherous stream was "poling" and "dragging" the unwieldy craft, and it was not until sixty days from the day of departure that the hospitable walls of Fort Benton gladdened the gaze of the weary travelers. The Major on this trip kept a record of the soundings taken on the river, and was the first man to demonstrate the navigability of the Missouri River above the Yellowstone. The following spring, the Government, guided by the report of these soundings, dispatched a steamer direct to Fort Benton over the route laid down by Maj. Hatch—the first steamer to cleave the waters of the Yellowstone in the history of navigation.

At this far-off, inaccessible post, on the very frontier of savage lawlessness, Maj. Hatch remained two years. During that period he was called upon to take part in undertakings of great moment and enterprises of critical surroundings. In the execution of these trusts he commended his actions to the Government, and preserved that cordial relation between Indian and Agent, the absence of which during late years has been so terribly illustrated on the Little Rosebud, in the Lava Beds and at other points in the Great West, with which the universal human family are familiar. At the conclusion of his term of service, Maj. Hatch returned to St. Paul, and is now a citizen of that municipality, respected and esteemed among a large circle of friends for those sterling qualities of head and heart which made him so prominent a character in the early settlement of the imperial Northwest. Of such blood, indeed, are heroes fet.

MYRIEK'S FIRST HOUSE.

At this point it should be observed that during the summer of this year (1843) Myriek utilized a quantity of hewn lumber obtained on Black River to the building of a comfortable dwelling, 20x30, finished on the inside with lath and plaster, and sheltered by a roof of shingles. This, with an addition 12x16, was the first residence making any pretensions to comfort, not to say rude elegance, erected in future La Crosse.

THE PIONEER'S MARRIAGE.

In June, Mr. Myrick left his adopted home and returned to the home of his nativity (Westport, N. Y.), and was married to Miss Rebecca E. Ismon, of that section, with whom he came back to La Crosse in September, accompanied by Miss Louisa Pierson. This was the first marriage wherein a resident of La Crosse was intimately associated, and Mrs. Myrick, with Miss Pierson, were the first ladies to visit this section of the country with a view to remaining either temporarily or permanently. Society in the days whereof mention is here made is not represented as being either numerous or critically select. There were no females in the country save squaws, and in spite of the poetic license which has colored the character of the sex, they were, if the statements made are founded on fact, the reverse of fascinating or attractive. Indeed, in some instances, if cleanliness is next to godliness, they were the furthest removed from such a consummation. Miss Pierson, it is said, changed her coign of vantage as a looker-on in the west to Illinois, where she was married to "Scots" Miller within a year, but Mrs. Myrick remained and as the wife of the first white settler in La Crosse, became part of the history of this section of the State.

About this time, three small steamers made pilgrimages at very long intervals between Galena and Fort Snelling, landing at Prairie du Chien, Bad Ax, Winneshiek, Coons' Slough, La Crosse, etc., and were sources of convenient wonder and wonderful convenience to the traders, Indians and all who witnessed their maneuvers while making or returning from port. Their names were Argo, Otter and Little Beaver, to which was added the Lynx in 1845, when the number of annual trips was increased, and the wonder and convenience greatly augmented. Travel then was not what it has since grown to be with its palace cars and luxuriously furnished steamers. A trip hence to the East or from outer sections of the country hither was not one of pleasure, and only undertaken when every expedient designed to avoid it had failed.

LATER LAND CLAIMS.

During this period, Maj. Coons and a Mr. Scott visited La Crosse and made a claim which was absorbed by Peter Cameron, who had come in during the absence of these gentlemen, and in the fall of the same year, as has already been noted, Asa White came up from below and engaged in the service of Cameron during the winter, making a claim adjoining Cameron's, which has since been included in the additions of Levy and Stoddard. Dr. Bunnell came this year also, it is believed.

The first two years of life and adventures in La Crosse are hardly exuberant with heroic history, hair-breadth escapes and other features incident to developing the hidden resources of a frontier settlement. The population was far more numerous, and the limited number present seemed to be inspired with feelings of mutual regard. There were few difficulties among them, if any, and less to exaggerate these difficulties into blood shedding. Among the Indians, however, a reign of terror was the rule, spreading its black wings and hovering above the peaceful surroundings. They are said to have been constantly quarreling, often fighting, and occasionally invoking the aid of the tomahawk in their work of discord. Braves were killed by jealous husbands, and married squaws, who were charged with inconstancy, were exhibited with the tip of the nose bitten off, a mark of disgrace understood by all the tribes, and entailing the further punishment of ostracism. The settlers are said to have had frequent disputes with the Indians, who insisted upon their claim to the country being recognized. But the parties assailed would apparently, and, in fact, become terribly angry, and seizing an ax-helve or other weapon, frighten the complainants into silence.

Supplies were obtained from Galena and Prairie du Chien, and steamboat arrivals were events of such importance that white and red men hurried to the landing, which then was confined to what is now the foot of Pearl street, to welcome their arrival. There was no grist-mill nearer than Galena, nor was there one adapted to the convenience of La Crosse settlers until the following year, when E. W. Pelton "supplied a want long felt," and erected a flour-mill at Prairie du Chien. Of saw-mills, there were a number on Black River, including that of Jacob

Spalding, the Douglass mill, that of James O'Neill, Nichols mill, and the one operated by Shepard & Valentine. Of stores, the Indian trading post of Myrick & Miller represented the commercial interests of the section. There were no amusements, no sources of entertainment, and schools and churches were agencies for the amelioration of "dull days" as yet unborn.

In short, as has been aptly observed by one speaking of this period in the history of La Crosse, this vicinity was actually the jumping-off point of civilization. There were no approaches through the country, and such a thing as a railroad only sought refuge in the most lurid imaginings of the most visionary citizen. The few white settlers here possessed no neighbors in Minnesota or at points more contiguous and accessible, and the present flourishing cities of St. Paul and Minneapolis were then never thought of. The Sioux and Winnebagoes wandered at will through this portion of Wisconsin and Minnesota, with their encampments at Winona, Red Wing and in the valleys adjacent to La Crosse. As has been observed, they were a source of trouble to the settlers, between whom and the wolves and the catamounts life here was not rendered congenial if exciting.

But the wavering hours of these unsettled days have crept away into the past, the clatter and clash of discord have long since ceased. The angel of peace years ago entered unseen into the midst of their contentious experience, and, spreading her white wings over the blasts, quenched dark thoughts with her visions of light, and brought hope to hearts that were sad and oppressed.

The year drew to its close, and the happy realm of to day, to whom indulgent heaven has given her richest bounties, began to nerve itself for the contest, and to gaze into the future with the consciousness that it held fortune out for its acceptance. The old year floated away into the past, and 1841 dawned gracefully, cheerfully upon the hours that were scattered like sentinels upon the frontier posts of this little army of civilization that bivouacked on the banks of the Mississippi at the horizon of trade in the Northwest.

With the opening of spring communication, temporarily suspended during the winter solstice, trade was resumed with the outside world, and a degree of prosperity proportioned to this accomplishment enjoyed. But it was not of the character which subsequently obtained so liberally in La Crosse. The flow of immigration to that point had not yet begun, indeed its consideration may be safely assumed was yet in the future. Indians, and the limited number of traders, with the still more limited number of those who had ventured into the country to canvass the prospects, occupied the lands, and dealt more generously with hope than the actualities of the times. As the cold retired before the genial warmth of the opening season of the year, trade began to grow brisk at the "posts" along the Mississippi, and was not entirely confined to localities distant from La Crosse. Here the traders carried on their business with a considerable degree of profit. Myrick & Miller, in addition to their commercial ventures, sowed ten acres to wheat near their store, and cultivated it with such industry and assiduity as to reap a liberal return for the investment of raw material and labor. This may be said to have been the first attempt at farming ever undertaken in the county. Since then the precedent established has been followed continuously and successfully throughout the county. Toil has been rewarded with plenteous harvests, and the foundations laid in this early day have since supported a superstructure of agricultural excellence unsurpassed by that of any other county in the State.

PIONEER HARDSHIPS.

But this excellence has been attained after years of trial and trouble, only those who were thereto subjected being even measurably able to define. The lack of the comforts of life, the distance from bases of supplies, and mills and other hardships encountered were but few of the trials suggested. Among others that were calculated to annoy and distress these pioneers was the prevalence of wild beasts of prey, which up to comparatively late years have been accustomed to appear at the most inconvenient times and places. Upon one occasion since the dawn of the decade inaugurated with 1850, Harvey E. Hubbard, afterward Postmaster, and at present a Justice of the Peace, met with a narrow escape from wolves. In those early days,

it is said, he was a man of irresistible address and appearance, and the leader of social features in the village. About this time, a family named Gear became residents of the village, and occupied a house on present Seventh street, then on the prairie. This family included a young lady upon its roster of members, and upon her Mr. Hubbard did himself the pleasure of calling. Her accomplishments and genial hospitality so fascinated the caller that he prolonged his stay far into the night, and it was not until quite late that he bade the young lady adieu, and began his return to La Crosse, at the time of which mention is now made, a thriving village. It was a lonely walk at best, but particularly so at this special time; and striking the Indian trail, he hurried along briskly in the direction of his boarding-house. While thus proceeding, he was startled by the howling of a pack of wolves in close proximity, and saw, as he looked back in the direction whence he came, the white teeth, flaming eyes and dim outlines of two huge wolves on his track. In an instant he wheeled, continued the chronicle, and swinging his hat in mid-air rushed toward them yelling at the top of his voice. The animals, for the moment terrified as it were, fled precipitately into the tall grass, and Mr. Hubbard reached home in safety, felicitating himself upon a fleetness of foot that enabled him to outstep the speed of these terrors of early days.

An incident similarly exciting is related of S. T. Smith, a pioneer of 1851. During that year, he was building a store on Front street, and while that was in progress it is related he was wont to visit the bluffs on prospecting tours. One day, while enjoying the beauty of the valleys east of the bluffs, which he was then engaged in exploring en route to State Road Cooley, his horse suddenly shifted to one side, and his surprise increased as he heard the sounds of twigs and brush cracking at the side of the road. Mr. Smith was curious to ascertain the cause of this strange behavior of his horse, and halted to ascertain the same. As he stood up in his stirrups to peer into the forest, a large black bear rose up out of the brush and grass not forty feet distant from where Mr. Smith had stopped, and growled forth notes of defiance. Bruin had been disturbed while taking his noon-day meal, and contemplated his visitor with a ferocity born of anger and natural antipathy. The latter thought it would be both discreet and conducive to his safety to forego any inclination to debate the question raised he may have indulged; and, plunging his spurs into the horse with vigor and intention, rushed out of the valley and headed for the village, at a gait that would have rivaled that of Tam O'Shanter when pursued by the witches. Arriving on Front street, he excitedly related his adventure to the interested citizens; but never sought a repetition of the experience he was there committed to.

Returning to the year 1844, it may be stated that while it required industry and activity to keep the wolf from the door, in a figurative sense, its absence in a practical sense was not altogether due to any disposition of the "beast" to be missed from the haunts of men. Far from it, especially if they were hungry. In certain seasons, their wild, plaintive yelp or bark could be heard in all directions during the night, creating intense excitement among the dogs, and apprehension among the settlers.

Smaller animals, such as panthers, lynxes, catamounts, etc., were also sufficiently numerous to occasionally be troublesome. In short, the struggles of pioneers, here as everywhere, were innumerable; the struggle was never for ease or luxury; it was a constant one for independence, often for the means of sustaining life itself.

THE FIRST MURDER.

The first murder in present La Crosse County, of which any reliable date appears, occurred during this year, the victim being Robert D. Lester, Sheriff of Crawford County. It seems that Mr. Lester had official business to dispose of on the Chippewa River in the month of May. He had proceeded thither, and having concluded the object of his visit, set out upon the return trip. This was begun under auspices that imported a safe voyage homeward, and nothing occurred to disturb such conclusions until the 21st of May. On that day, he reached a point on the Mississippi River about six miles below Ree's Landing, and twenty miles from La Crosse, near the Minnesota shore, where he met an Indian in a canoe journeying in an opposite direc-

tion. After a brief colloquy, the Indian demanded that a lunch, which Mr. Lester had prepared for himself, and was stored in the boat, should be given up to him. As this was all he had, Mr. Lester very naturally declined to be made to pay tribute to the savage's appetite, and refused. The latter thereupon became angered, and landing from his canoe, following down the bank the course of Mr. Lester, and keeping abreast of that gentleman as he continued his voyage. While thus engaged, unmindful of danger, Mr. Lester was shot by the Indian and fell into the river. The report of this murderous shot, before its echo was lost in the distance, was heard by Francis La Batt or La Bache, who was ascending the river in a canoe, followed by his noticing the inanimate remains of the assassin's victim floating in the water, whence it was recovered some weeks subsequently. Information of the tragedy was at once communicated to Col. Davenport, in command at Fort Crawford (Prairie du Chien), who sent a company of soldiers up the river to search for the murderer. After exhausting every recourse without results, and being unable to secure the object of their visit, the soldiers seized one of the chiefs, and, bearing their prize off in triumph, conveyed him to Prairie du Chien, where he was imprisoned as a hostage for the delivery to the authorities of the guilty party. Various expedients were employed to obtain his release, and every effort was made to secure the reversion of the penalty to the accused. But these measures but determined the authorities in their action, and their decision was both final and unappealable. Finally, the tribe to which both criminal and prisoner belonged released the latter by a surrender of the former, who was, presumably, dealt with according to the law in such case made and provided.

Quite a number of citizens went up the river to search for the body, but their efforts were vain, and they returned to Prairie du Chien in default of having accomplished their sorrowful mission. Just before this tragedy it is said the steamer "Lynx" had been partially wrecked near Wabashaw Prairie, and the crew, upon being discharged, made their way down the river by other conveyance. While *en route*, their attention was attracted to driftwood in one of the eddies of the river, from which a peculiarly offensive odor floated, and, upon examining the cause, unexpectedly recovered the disfigured and bloated body of the murdered Lester. It was taken to La Crosse where it was temporarily interred, and the news sent to decedent's friends in Prairie du Chien. Upon its reception, Mr. Lockhart, of that city, official successor to deceased, visited La Crosse, and having reclaimed the body, caused it to be transported to Prairie du Chien, where it was buried.

This was the commencement of "criminal annals" in La Crosse County, and the summary dealing with criminals which has since obtained dates from this precedent.

NEW ARRIVALS.

Early this year, Dr. Snow, who had previously resided at Prairie du Chien for a season, removed to La Crosse, and became an Indian trader. He prospered in his business, reaping rich rewards during his adventurous career, and also being the means of attracting to the present city some among those who proved among her most valued residents.

Jacob Spaulding came also in 1844. He was a pioneer lumberman on Black River, reputed as being the first to cut timber in that vicinity. He came through La Crosse as early as 1836, en route to that locality, where he cut and floated down the river the logs with which the stockade at Prairie du Chien was built. Upon coming into the settlement, he procured the house built by Mills, the Dubuque settler, or erected a shanty on Pearl street, and divided its occupation with Snow, then engaged in the Indian trade. It does not appear, however, that he made this point a residence, nor is it at all probable, as the nature of his occupation would forbid his doing so. But he was here off and on at brief intervals, and generally recognized as a citizen of these parts.

Dr. B. Bunnell came in this year, and found temporary accommodations in the Mills House, the capacity of which it would seem depended only upon the demands made in that behalf. Dr. Bunnell was the first physician to settle in La Crosse, states Mr. Myrick. He came here from Detroit, accompanied by a wife and child, also a widowed daughter, named Van Rensselaer, who

stated to Myrick at the time that he would live to see a railroad from the lakes to the Mississippi River. About that time, Mr. Myrick, while by no means very sanguine, was confident that this prediction would be realized in the near future; yet its coming in 1858 must have anticipated the date fixed for its arrival by several years. To-day railroads connect the Gateway City with every point in the country, and to such men as those who came in about this time and would themselves to the work of building up La Crosse County, are these improvements in railroad communications due.

It should be stated that Dr. Bannell sold his claim, which covered that portion of the city comprehended between Mount Vernon and Division streets, to Peter Cameron, in 1817, and returned to New York, but his son and daughter remained, and ultimately settled in Minnesota, near Homer.

The year altogether witnessed more generous arrivals than those which had preceded its advent, and was attended with more gratifying concomitants. Miss Pierson, who, it will be remembered, came to La Crosse during the previous winter with Mrs. Myrick, and went thence to Illinois, was brought hither again, this time coming as the happy and, to use an expression of the times, blushing bride of H. J. B. Miller, partner of Mr. Myrick. "Scouts," who was proof against the temptations of life on the frontier, proof against the charms of a more congenial life at the East, proof against savages and settlers at La Crosse, was unable, as the sequel proved, to resist the fascinations of Miss Pierson, and yielding to arguments that proved irresistibly convincing, combined two souls, and consolidated two hearts, a proceeding which is said to have been entirely satisfactory to the parties interested, as also to others waiting for a sign to determine their own action.

THE CHARACTER OF THE SETTLERS.

Among the items of interest which begin to manifest their presence this year was the character of the few who came for industry and integrity. Those who proved the first farmers in the county came in 1844, but the season was too far gone, and so from the very necessities of the case they postponed active operations until the following spring, when they opened a farm under the bluffs, between State Road and Mormon Coolies, and in course of time became prosperous and successful. The names of these enterprising men to commence the tilling of the soil as a means of livelihood first in La Crosse were John and Charles Nagle, industrious, persevering and educationally, as also by experience, not only qualified to conduct farming operations, but peculiarly so in a new country. They soon had their acres under fence and highly cultivated, and the profits accruing to them as the fruits of their constant labor and watchful care are said to have been sufficient to render them independent in time.

The precedent thus established was adopted almost immediately by new-comers, and, as a consequence, the present territory of La Crosse County was dotted with acres of cultured land, even before it was apportioned from Crawford County and became an independent constituency. As already stated, the first cereals grown in the county were produced by Myrick & Miller, but their example was rather for home products and to test the quality of the soil, yet this example has been so liberally emulated since that day, that farming throughout the county is now among the most remunerative and profitable undertakings engaged in.

THE FIRST RAFT.

In the fall of 1844, the limited number of settlers were somewhat surprised at the venture of Myrick & Miller in floating a raft of logs from La Crosse to St. Louis. These men were engaged in every variety of business, from trading with the Indians to entertaining a traveling colporteur. Their house became the home of all who visited La Crosse, and for the first years of the city in embryo was the only hotel between Prairie du Chien and Fort Snelling. When lumbering began to be prominent in this vicinity, they engaged in the business, and carried it on with such judgment and capacity as to secure them large returns. In time, they began to

consider the feasibility and prospective returns that would attend a raft voyage to the "future great city of the West," as prejudiced residents of St. Louis are wont to fondly term their city, and this was the inaugural test, besides being the first of its kind to be made from the upper river. The craft, in the absence of data indicating a contrary result, arrived at St. Louis on time, and, it is to be hoped, gave the venturesome consignors a liberal profit.

THE FIRST POST OFFICE.

Another incident of life here at this time was the location of a post office at La Crosse, and the appointment of a Government agent to look after federal interests and deliver the mail. At that time, it was transported by courier when navigation was suspended, and, as the number of inhabitants of La Crosse began to appreciate in number, their wants and demands appreciated proportionately. Not the least convenience for which application was made was the establishment of an office, and this was done in response to petitions submitted therefor. Mr. Myrick was appointed to its care in the first instance, and remained in charge for a brief time. But his business interests refused to permit any divorce from his immediate and constant attention, besides the cares of the office, while not onerous, were annoying and a hindrance, so he resigned, and was succeeded by Maj. E. A. C. Hatch, at that time in the employ of Myrick & Miller, but, after remaining in charge until about 1847 or 1848, H. J. B. Miller became the custodian of the Government confidence. The mail facilities were unimproved as time lapsed, going and coming, it is said, by original routes and conveniences, as also with delightful irregularity. The office was at the store of Miller, but the letters he carried about in his hat or bosom, when Mrs. Miller had not them in charge. When a settler wanted to ascertain if a letter awaited his demand, he was obliged to first see "Scouts," who would canvass the contents of his hat and vest. If he failed to respond, the expectant recipient, as a final resort, appealed to Mrs. Miller, who went through the same trails followed by her husband, and not infrequently gratified the applicant with communications from those who were indebted therefor.

When H. E. Hubbard was appointed in the place of Mr. Miller, the office was located in a small building on the east side of Front street, three doors south of State, and its interior is said to have been the fairest parallel to the old curiosity shop of Fleet street it is possible to conceive of. It was a very small affair, and the boxes consisted of half a dozen rows of pigeon-holes, set up on a common pine table, behind which was the business office, littered up with promiscuous piles of papers, letters and mail bags. The "general delivery" was the strongest point about the office, and never vacant. Since those days, the number of boxes, the lack of which was then a source of infinite discord, has been increased to supply a universal demand, and the elegance of the appointments now enjoyed are sources of delight to the most fastidious.

MORMON NOTES.

This was the year in which the Mormons returned and established themselves in Mormon Cooley, with a view of founding another Mecca. They were under the leadership of Elder Lyman Wight, and erected a number of cabins preparatory to permanent settlement in this vicinity. The females are said to have numbered among them some Welsh and English girls of rare beauty, good singers and quite entertaining, but whose exclusiveness was painfully disagreeable to admiring Gentiles. They enjoyed a closer communion than any other sect which had up to that time defined its principles, and when some of the most youthful, fascinating and irresistible of the Gentile residents extended them harmless attentions, Elder Wight protested, and the damsels were terrified into obedience.

Wight is said to have been a Mormon and a sinner of the most pronounced type; the hardest swearer and freest drinker in the vicinity; a man who combined a love for wine, women and wasal with professions of temperance as earnest as they were often ill-timed for the sake of his professions. In his cups he was not only affecting but confidential, and Dr. Bannell recalls an incident of this peculiar characteristic which came under his observation. The Elder upon one

occasion, after bringing tears to the eyes of his audience by an eloquent discourse upon the evils of intemperance, and drinking a half-pint of whisky left by his own son, told them that he was going to Texas because the climate about La Crosse was too cold for his constitution. He went as promised, followed by his neophytes and converts within a brief period, they going to Salt Lake while he went South. The land occupied by them was subsequently owned by John Connelly and now by the Oehler brothers. Not many years ago, the buildings erected by them were still standing, among which a huakili, which had been used by them was discovered, and pieces of mill-stone which had been destroyed by them were found imbedded in a creek.

THE ABSENCE OF SCHOOLS—TRAVEL TO BLACK RIVER.

As yet there were no schools to educate aspiring youth, or churches to gather in their folds the citizens, Indians and lost of Israel generally. Such dispensations were not of as frequent occurrence, so to speak, as to-day, and their absence scarcely commented upon. They did not exist, and as blessings they were all the more appreciated when, as conservers of intelligence and morality, they came into the midst of the village, and have since gathered strength and multiplied in influence. In those days, as one of them remarked to the writer, the citizens were regarded by the world at large as cast-off heathens, whose redemption from ignorance and sin was of less consequence than the comfort and spiritual welfare of the Timbuctoo aborigines and man-eaters.

The travel to Black River during 1844 was quite equal to that of preceding years, and made up of a superior class of men. They passed through La Crosse, and, while never regarded as settlers, were mentioned as transients, and made purchases of the goods here in stock. Among these were O. B. Chase, a Mr. Miller, T. Wood, Andrew Graver, J. Channey and possibly some others. Soon after, that is to say from and after this year, rafts began to be made up for points down the river, and logs in the rough, as also lumber, came to be regarded as commodities for the shipment of which immense returns would be produced. That the regards entertained in this connection were the reverse of Utopian, the present logging and lumber trade carried on from La Crosse and points above, has fully justified.

With the close of the year, the exhibit in all respects may be considered as by no means discouraging. Some accessions had been made to the inhabitants, some improvements completed in the future village. New lines of trade had been extemporized and upon trial found to be only waiting encouragement, which would come with the flight of time. The days were prosperous and held out the inducement of wealth to those who persevered unto the end. Communication was enjoyed with distant points that enabled the purchase and delivery of commodities at prices within the range of possibilities. If schools and churches were absent, there was then no demand; when that demand arose, they would spring up and bear fruit. Summing up, then, the facts and the evidence admitted of but one verdict, and this verdict was accepted with results that became more manifest as years drift into the past.

NEW ACCESSIONS.

The season of 1845 opened comparatively earlier than in years previous. The fame of the country surrounding La Crosse Village had been extended through reports from those who had come in meanwhile, and its desirableness as a place of settlement quoted commendably. The fertility of the coverts, the salubrity of the climate, the favorable location for town sites and other advantages, conspired to render the county an objective point for immigration that was regarded with favor by distant residents. There were few to avail themselves of these attractions, however, at this time, and it was not until six years later that the tide of travel, which had run the gantlet of other portions of the State, their "prairie schooners" crowding the highways, and the track of their departing guiding the advance of those who came after them, that La Crosse County began to be generally inhabited and built up. One can hardly imagine that the present prosperous section of Wisconsin, identified as La Crosse County, was but thirty years

ago one absolute wilderness, varied here and there with approaches to improvements. Yet such was indeed the case, according to evidence adduced in that connection.

Early in the spring of 1845, Lorenzo L. Lewis came into the country on a prospecting tour. He was an Eastern man, who, ten years previous, immigrated to the West, and less contracted opportunities for development, settling in Illinois. In time, he wearied even of the almost unlimited license for advancement there, and sought further West what he conceived was not afforded him in the more thickly settled territory comprehended within the limits of Illinois. Upon reaching La Crosse, he found H. J. B. Miller, Asa White, "Dutch Doc," with Mrs. Miller and Mrs. Nathan Myrick constituting the entire white population of this section of the country. He traveled the county over, and, having made his selection of land upon which to settle, returned to Illinois.

Before the spring had yielded place to summer, others had visited La Crosse to prospect or settle, but generally the former, and gone elsewhere, in most instances to Black River, the rich lumber yields there being regarded as bonanzas, with the improved facilities for shipping to distant points then accessible, only to be equaled by the "lucky finds" which subsequent years identified as part of the history of California. The steamers which landed at La Crosse with gratifying regularity (that is to say once in two or three weeks), as the season advanced, bore pilgrims in squads and *solus*, and that their disembarkations at La Crosse were not more frequent and numerous was not due certainly to the absence of inducements offered. These were both substantial and almost unlimited, and continued until the rush of years and immigration exhausted their supply.

It is said of J. M. Levy that to any one applying for information or aid in his undertakings about La Crosse, he never went away empty handed. That gentleman seemed willing to take almost any risk to secure worthy settlers, and extend them such assistance as they sought, confident that his trust would never be violated. Nor was it entirely so, as he can to-day testify, and his liberality and enterprise in the days of uncertainties hereabouts can be vouched for by some who are to-day in positions of prominence and wealth, through the "helping hand" extended by this public-spirited citizen, who came hither and permanently settled in 1845.

But of the many who came and saw, but few concluded to cast their several lots with La Crosse, and unite their destinies with the destiny of the future county and its "Gateway City." These few were of the type which create new dispensations in the history of civilization, and organize and conduct victories against barbaric supremacy. Notwithstanding the few arrivals, the country grew in strength and influence. In those earlier days, even when the lines of life were wrinkled and distorted by adversities and disappointments, Hope lingered like a fruit in reach, sweet before the eyes of those to whom it was offered by way of encouragement.

This year John C. Davis came in and clerked for Myrick & Miller; William Gibbs became a citizen of the county, and located on what is now known as "Gibbs's Clute;" Henry O'Neill landed here, but continued his journey to Black River, as also did the present Senator from the Thirty-second District, the Hon. W. F. Price, and a man named Mason. The citadels of success in that region were stormed indeed, and that, too, by men who never flinched, dazed with fear, but continued their advance until victory planted its banner on her battlements.

If immigration was slow, improvements were equally tardy. Indeed, there was no demand for them. There were houses sufficient to furnish accommodations for the inhabitants, and if a stranger happened to become a temporary sojourner in this land of promise, he was entertained at the home of Nathan Myrick, which was conducted as a hotel whenever the exigencies of the case demanded. Rafts passed the city semi-occasionally, and the proverbial habits of the class of men who, in those days, were known as "raftsmen," found expression when the "boats" landed and the "mariners" were let loose. Otherwise, the happy-go-lucky style of life indigenous as it were, to frontier experiences was the rule, with little to dissipate its continuance, or intervene as an exception. The Indians remained as neighbors, and one of the settlers had taken to wife an Indian maiden of reputed royal blood, which secured him very distinguished considerations from his savage relations.

About the only improvement that can now be remembered as having been completed during the summer of 1845, was an addition to the store of Myrick & Miller. It consisted of a house, which had been erected at Holmes' Landing above La Crosse some months previous. The proprietors loaded the movable on a raft and paddled it to La Crosse where, after some difficulty, it was safely removed to *terra firma* and set up as a storeroom, making the improvements completed by the pioneers of the settlement quite roomy and pretentious. This was compelled by the increase in trade, which the current year witnessed, and the future imported. The steamboat *Lynx* was also completed during 1845, and began its regular trips to La Crosse. She was a side-wheeler built by H. L. Dousman, and is represented to have been a wonderful exposition of speed and elegance, for the times. The steamers which twenty years after breasted the waters of the Mississippi, are said to be palaces in comparison with the primitive vessels of forty years ago, but the *Lynx* was incomparably the paragon of its day.

But in spite of the absence of improvements, and the pre-eminence of the Indians in point of numbers, by the way, a thriftless representation of the noble red man, with no idea of the difference between *meum* and *taum*, or appreciation of the rights of individuals when the victims were in the vocative, there was much to interest and entertain, if little to instruct happening meanwhile. A marriage was celebrated this year between a couple who came in during 1845, that is the lady, and who from their actions had been mistakenly supposed to be on their bridal tour. There was also a death this year in the home of Mr. Myrick, sorrow and joy went hand in hand down the aisle of life in La Crosse; the residents were participants in scenes of the gay for a season to be recalled to the duties, the obligations and the afflictions of life, and gravity and frivolity were parts of their experience as pronounced and unavoidable as they are to-day ingredients of the solemn drama the human family are enacting throughout the world as a stage. Then, as now, only in a more limited sense, the settlers of La Crosse were actors. They had their exits and entrances as defined and unmistakable as are to be witnessed after nearly half a century of posings and rehearsals, and for the "points" they "made" have since been rewarded or condemned as posterity profited or was displeased. The curtain since those days has been rung down frequently, the actors and actresses of the times herein quoted have many of them taken their last farewell and made their final bow—some to applause, others in silence—some of them live in the memories of succeeding generations, some of them possibly rest in obscurity. Society was in an unsettled state. The population residing in this portion of Wisconsin, in truth in the river towns between St. Louis and Fort Snelling, the extreme navigable points, was composed of all grades and conditions of men. The opposite sex was but sparsely represented, and there was an absence of womanly influence apparent in all of them. To these may have been added some emigrants, who sailed from their homes across the sea, but who are always important factors in the development of a new country. There was, however, in the sum of life, as figured up in La Crosse, a gratifying absence of middle men, outlaws, gamblers, thieves, etc., who invariably infest a new region with their presence, to improve or augment their failing fortunes, and who, by taking the tide at its flood, hope to attain glory and financial responsibility.

There were no courts so to speak at this time in La Crosse to redress grievances or enforce contracts, and though that happy character, in all ages since *judi-prudence* became a study and a science, the Justice of the Peace existed, he was rarely called upon to solemnize between litigants. Most every individual stood upon his personal merit, and if assailed in name or reputation, in estates or expectations, he became the expounder of the law in his own behalf, without having recourse to Justice H. J. B. Miller. Nevertheless, in default of the presence of what have since been regarded as invaluable, nay indispensable adjuncts to every well regulated community, courts, lawyers, schools, churches and their auxiliaries, the moral atmosphere of the country was far from being unobscured with crime or misdemeanor.

During the fall or winter of 1844-45, "Scots" Miller had added to his dignities, emoluments and responsibilities by accepting the office of Justice, and from "Scots" Miller he became "Judge" Miller, with all that the term implies. His official decision, though rarely involved,

it is thought, was still kept in a condition for active service, and could be relied upon in any emergency where a knowledge of the law as also the portion of remedial justice appropriate to supply that in which the law by reason of its universality is deficient was needed.

THE FIRST MARRIAGE.

One of his first acts was to solemnize a marriage between Peter and Emma Cameron above referred to. This was done in the presence of all the villagers, and with a dignity and refreshing simplicity, foreign to the present artificial days. The couple were ranged in order before His Honor, who first interrogated the prospective husband and then the bride, and ascertaining that both meant business, concluded the proceedings with the proclamation "By virtue of the power vested in me as Justice of the Peace for the village of La Crosse, I pronounce you husband and wife, and let no man put you asunder." Dr. Bunnell, Sr., was present and shouted "Amen," as also affixed his name to the marriage certificate. Wine and cake was not-passed around, it is said, nor were the festivities usual to similar occurrences either numerous or prolonged. The happy couple esteemed themselves mutually fortunate no doubt, and lived together for many years, when the husband died.

His widow still survives, and is regarded as one with whom romance in its most brilliant colors has been so intimately associated that a brief history of her life may not be inappropriate. Emma Cameron was born somewhere east of the Alleghanies, but came at an early age to Ohio in company with her parents. When but scarcely sixteen years of age, she contracted marriage with a man named Kellogg, unknown to her guardians, and thereby presumably excited their anger. Whether she ever became reconciled to them or otherwise is not of record, but she subsequently became a resident of Michigan Territory, when she was espoused by an admirer named Clayton, and to him was married. How long she tarried with Clayton has never been established by any evidence that would be regarded as conclusive, or whether she tarried with him or not. Nor is it certain that she succeeded in securing that felicity by a conjunction of their fortunes such consolations are said to afford. It is thought though, that she did not. At all events, she some time after this was married to a Mr. Van Sickle, without having obtained a divorce from Clayton, and while thus bound, she met Peter Cameron, who was en route from Utica, N. Y., to La Crosse and joined with his train. Mr. Cameron arrived at the journey's end with Mrs. Van Sickle, by far his most attractive importation.

She is said to have been a woman of surpassingly beautiful figure and features, remarkable nerve, great presence of mind and wonderful expedient, with the capacity to model one of the opposite sex to her wishes, as readily and gently as an artist molds a figure in plaster of Paris. Men under her manipulation became as clay in the hands of the potter. One who saw her in the full flush of health states that she was, all romance aside, very handsome. Her complexion was of a delicate olive tint, and the expression of her large, black, glittering eyes were heightened by the long, silky lashes that fringed their lids. Her eyebrows, penciled by nature with mathematical precision, arched symmetrically, and met above a nose classically accurate in shape and finely nostrilled. Her mouth was small and shapely, rosy tipped, and somewhat sensual in character, the lips thin, that exposed when she smiled teeth rivaling pearls. Her hair was dark, her hands and neck were white and plump, and kept company to a pair of small feet, arching like an Arab's, and put down upon the ground with an emphasis that indicated a decision of character seemingly at variance with her fickle admirations. Her physique lent itself well to graceful movements, which imparted a touch of defiant awkwardness born of an overflowing youth, so exquisite a piece of womanhood, it is said was seldom ever seen in those early days in the west.

Such was the combination of faultless attractions which charmed so many, and conquered Peter Cameron into marriage during 1815.

About this juncture, Clayton roused himself sufficiently to take cognizance of the eccentricities of his whilom wife, and protested that it was not entirely legal. Longer reflection convinced him of the truth of his conclusions, and with a view to ascertain to what extent her

offendings would be justified in a court of law, he instituted an action for divorce, suppositiously basing his claims upon her insensibility to the obligations she had self-imposed repeatedly, and as repeatedly violated. The chronicles do not state the extent of success which attended Clayton's appeal to law, nor whether it was greeted by the appearance of opposing counsel. But judging by the prior life of the defendant, and by the fact that she was unable to either plead, answer or demur, the probabilities incline the casual but disinterested observer to the belief that he obtained his relief with costs, and that she being thereafter regarded in law as a *femme sole*, was at liberty to dispose of her affections unto him by whom, in her opinion they would be guarded the most sacrilegily.

This was the only case of legal separation obtained by the lady, either directly or indirectly, and she continued to be a wife to Cameron until his death, which occurred in 1855. She put on widows' weeds and mourned for a period of three years, when she once more ventured to saddle herself with matrimonial bonds, the object of her affection being Ralph C. Bowles, who was sent up the Missouri River, where he killed a soldier in an affray, and was in turn killed, leaving Mrs. Bowles to mourn the deep damnation of his taking off, and gather her forces for new conquests. According to the annals, this was not delayed many months, for, within a reasonable period, as the law has it, she consented to become an old man's darling, and lived with him either at Prairie du Chien, or McGregor, Iowa, in the full enjoyment, it is believed, of the pleasures and prerogatives which are considered and esteemed as belonging to the darlings of aged bridegrooms. How long this scene of domestic felicity was prolonged is once more a question involved in doubt, the solution of which is regarded as improbable, if not impossible. At all events, Mr. Sharp followed Bowles over the "beautiful river," and Mrs. Sharp, for the seventh time, matrimonially speaking, became a marketable commodity.

About this time, strange as it may appear, a brother of Van Sickle's, the widow's third husband, heard she was once more accessible to proffers, and placed himself in communication with this remarkable, still well-preserved and much-courted woman. In time, the correspondence led to his becoming a suitor for her hand, his petitions were granted, and Mrs. Sharp was resolved into Mrs. Van Sickle by legal enactment.

In 1860, she resided on Second street, south of Pearl, in a log house that has long since given way to the march of improvement, and was much respected for her humanity to the unfortunate, and her liberal donations for charitable and religious purposes. One day Dan Cameron visited her, with a view to conclude some business growing out of the estate of her husband. While thus engaged, a dispute arose, which became exceedingly acrimonious, and culminated in her ordering him to leave the premises. He either refused, hesitated, or failed to move with an expedition she deemed consistent with the circumstances, and, seizing a loaded gun which stood in the corner of the room, brought it to a present with a quickness of movement and apparent determination to "shoot," as to impel the guest to hasten and secure protection by flight. She fired as he crossed the sill, but lack of skill in the weapon's use, or a special interposition of Providence spared the target from serious consequences, and he still lives to congratulate himself on his narrow escape. It was the happiest day of his life.

Although no complaint was ever made against the impetuous and warlike madame for this exhibition of her prowess and capacity to defend herself (of which it may be proper to state no one ever entertained a doubt), the subject was brought to the attention of the grand jury, but that grave body of legal inquisitors refused to return a true bill and she remained undisturbed. When last heard from she was still Mrs. Van Sickle, a resident of Iowa.

The facts above quoted are matters of general rumor, and confirmed by the lady herself in 1869, when she appeared as a witness in the Circuit Court of Houston County, Minn., in a cause therein depending, wherein D. Cameron appeared as plaintiff against the Southern Minnesota Railroad Company.

Truly, this life of ours is a romance rounded up with sighs and tears.

The population, at this period in the life of La Crosse, did not exceed fifteen, all told, women and children, including the squaw wives of traders.

Another event of importance in the new settlement, occurring this year, was the

FIRST DEATH

to take place among the settlers. The death of a raftsmen has already been referred to. His was the first death, properly speaking. He was en route from St. Louis to Black River, but, overcome with a consuming fever, halted at the Prairie, in hopes that rest and care would promote convalescence. But the blessing of returning health was denied him, and he paid the debt of mortality. His remains were inclosed in a box, there being no such thing as a coffin, and upon the morning of his interment, some fellow raftsmen visited the blacksmith-shop where the body lay, and, rapping on the lid of the box, interrogated the corpse as to what he would have. Silence was returned, when they departed with the commentary, "Well, he must be dead." He was buried in a cemetery on the knoll where Hirshheimer's plow works now are.

The summer of 1845 witnessed the first decease among the residents. For the first time in the history of the settlement, death entered into its quiet, peaceful precincts, gathered a young life within its chilling embrace, and departing left behind it the mark of its visitation on the door-post of Nathan and Rebecca Myrick. The home was made desolate, and tears and grief took the place of happiness and contentment. The son of Mr. and Mrs. Myrick, the victim, was tenderly shrouded for the tomb, it was covered with a piece of blue Indian cloth, and left to repose in the old cemetery where the dead raftsmen had been laid. It was subsequently removed to another churchyard, provided when the living city began to roar and swell around the one vacated, and its surf beat over and fell upon the sod.

Full many a cherished memory to-day clings about that spot once sacred. Beauty was doubtless laid there, the tears of love mingled with the damps of death upon her brow. Age reposed there, too, until the mighty tread of life had need of the soil it occupied, and dust that was once rounded into life, warmed into love and folded in sheltering arms, was herein sepulchered. But the living must have room, and the graves and the dead were made to pay tribute to the exacting demands of the living. To the stranger visitor of to-day, there are no tokens by which its identity can be established. But to the pioneers who laid out the grounds and consecrated them to burial purposes, their location and that of their contents are as visible as they were forty years ago. Each resting place is known to them, from the mound which rose above the friendless stranger to that which marked the resting-place of the most venerated citizen. Blessed be the memory of all.

THE FIRST ROAD TO PRAIRIE DU CHIEN.

In the fall of 1845, Samuel Snow visited Prairie du Chien, the then residence of J. M. Levy, to obtain a supply of goods and wares for his store, and while in that village called upon Mr. Levy. He at once sought to interest that gentleman, who was confined to his house with an attack of fever, by a description of the new place at which he had located, elaborating its advantages with an eloquence that defies description. Mr. Levy may have experienced a feeling of discouragement with his present surroundings, superinduced, mayhap, by his illness, or he may have been convinced by the persuasive periods employed by the orator; at all events he seemed inclined to move thither, and finally, when Snow assured him that if he moved up there he would divide with Mr. Levy, and that he was confident that the blessings of health would ever attend him, all doubts were ignored, and Mr. Levy consented to become a pilgrim and journey to La Crosse as soon as his health permitted the trip to be undertaken. This did not come to pass until November, when the twain procured a yoke of oxen, and lading the wagon, to which they were hitched, with stores and supplies, made the trip to La Crosse from Prairie du Chien overland. The travel was the reverse of pleasant or free from constant and ever-recurring annoyance. No one had ever attempted the feat of traveling with team between the two places before. There was no path or trail in many places, and the course was taken at a venture. The oxen were comparatively young, and though well broke caused some delay, and a thousand and one other embargoes prevailed to hinder and vex. Yet, in spite of these



Ch. S. P. B. B. B.

LA CROSSE.

vexations Messrs. Levy and Snow came through in eight days, having made the first trip by this route ever attempted, and blazed the road between La Crosse and Prairie du Chien, which was used in after years. These merchants set up in the Spaulding shanty as Indian traders, in addition to preparing to farm a claim that had been invoiced with the assets of the firm at the date of its organization, near the mouth of the State Road Cooley.

In the spring of 1846, the tide of emigration may be said to have turned in the direction of Northern Wisconsin, the chief point of attraction still being the lumber region of Black River, with La Crosse a desirable field for agricultural uses. But those who came with a view to engage in the former as compared with the number who sought to engage in farming, was numerically greater. Large fortunes beckoned them to pursue the hazardous occupation of logging and lumbering in preference to the slow and laborious accumulation growing out of a tilling of the soil. But while lumbering was remunerative, the labors to accomplish success were of the most arduous character, involving health and even life itself. Yet no one seemed disinclined to follow the devious and critical way it led in search for wealth, and the acquisition of means sufficient to render the toiler measurably independent was but a poor return for the dangers encountered.

This spring Mr. Levy returned to Prairie du Chien for his family, and having concluded arrangements in that behalf, sailed from that city May 27, 1846, on board the steamer Berlin, accompanied by his wife and son, a young man named Isaac Marks, and his household, supplemented by an invoice of pigs, a coop of chickens, two cats and a coon. He set up his Lares and Penates in the log house at the northeast corner of Pearl and Front streets, and began life with his family amid comparatively new scenes, and surrounded by new associations. It was here, shortly after his arrival, that he nearly sickened unto death.

It seems that his partner prided himself on his culinary skill, and affected superiority over all others in his preparation and seasoning of a very toothsome edible which he submitted as "fish soup." A mess of fish had been caught and cooked to a turn, were laded out to Mr. Levy as his appetite or desire to testify a proper appreciation demanded. A short time elapsed after the feast had been discussed, before Mr. Levy began to manifest the most alarming symptoms accompanying an attack of cholera. Remedies were applied and administered without obtaining the slightest relief for the sufferer. His pains became intense, and the anguish of mind of those who were present superlative beyond description. In a consideration of the causes which might have produced so serious effect, the fish soup suggested itself, and the condiments which had been employed to render it so irresistible to the palate of those who had consumed the combination. "I only put salt in it," asserted the cook, and as a last resort sought to ascertain the quality of Syracuse or Turk Island that had been used. This was done, and resulted in the discovery that the soup had indeed been seasoned, but with salts of a medicinal character known to pharmacutists as "Glauber." This put a new phase upon the complaint of Mr. Levy who soon began to mend, and before the sun sunk behind the Minnesota bluffs he was completely restored to health. To this day he remembers the fish soup and the seasoning of Glauber salts which at one time threatened his lease of life.

Among those who visited La Crosse this year for purposes of observation, speculation and settlement, was D. F. Loveland. He was from the East, and accompanied Mr. Myrick on the return of that gentleman from one of his tours thither. His idea was to establish himself in La Crosse, and it was with a view to that end that he came. But after a brief sojourn under the patronage of Mr. Myrick, during which he doubtless canvassed the situation satisfactorily to himself at least, he retraced his steps and settled at Galena. But others who came in did so to stay and remained. Among these were James Connelly who opened a farm in the Mormon Cooley. Lloyd L. Lewis returned from the East with his family, which consisted of four sons and several daughters, and took possession of the farm eighteen miles north of La Crosse. He had selected the previous fall, and laid the foundation of what has since been known as the "Lewis Settlement." William Gettinger arrived and settled in the village, the first carpenter to offer his services to the public in La Crosse. George Fetherlein came in also and became a

villager, taking up his residence in the house put up by Jacobs and Snow, corner of Front and Vernon streets.

These were the prominent arrivals in La Crosse and the immediate vicinity, James Day, Henry Atchison, N. Garrett, H. Wedge, Brockway and Smith went to Black River. John Elder divided his time between La Crosse and Black River. J. and N. Chambers confined their residence to Black River and vicinity, while John Sommerville removed to Minnesota.

The coming of those mentioned very naturally created some activity in trading and agricultural circles. The village grew in proportion, and boasted of five houses, Myrick's, Levy's, Cameron's, White's and Fetherlein's. The farmers were James Connelly, Phillip Young, the Nagle Brothers and a Frenchwoman who subsequently married Charles Nagle. Everything was new, of course, and with all it was a struggle for existence, but with each addition to the number of the inhabitants, the struggle ceased in a measure, and the charms of life appreciated—not such as are now deemed indispensable to existence, but that fraternity of feeling which makes the whole world kin, which smoothes over rough places, which finds expansion in sympathies and rejoices at the success of a fellow-man. Such were the charms that were experienced during the more youthful days of La Crosse, intensified by the trials each settler was obliged to encounter and cementing a bond of brotherhood which the lapse of years has failed to dissipate.

As typical of the kindly feelings that existed, and the generous charity that was exercised in those days, the following is related: The first week in June, a raft arrived from Black River, having on board a young man named Rankin, suffering from disease and the fracture of two ribs. He was brought on shore, and as the result of an effort to procure him accommodations, he was taken to the residence of Mr. Levy, and the attempt to nurse him back to health and strength commenced, Mr. Levy officiating in capacity of physician and hospital steward. He sank, however, and during the night succeeding the third day of his treatment, the invalid was heard to call out for a sup of water. Mr. Levy responded to his call, and raised him up to take the draught, when the unfortunate young man gasped spasmodically, threw back his head and yielded up the ghost. His body was rolled up in a sheet, placed in a coffin and buried. The poor wayfarer on life's highway was without money or friends, save those the occasion gave birth to, and wearied, doubtless, and worn with the endless strife, he turned as he placed his hand on death's gate and smiled upon these new-found friends before he wandered through.

In the fall, a man claiming to be the uncle of the deceased came West, and, after rambling over the State, visited La Crosse in search of his effects. After identifying himself to Mr. Levy and the citizens generally, he began to inquire as to the estate of his nephew, and demanded an inventory on the supposition that his inheritance would be large. But as already hinted, the young man was buried by those to whom he was indebted for care and attention, and, much to the chagrin of the covetous relative, he returned to the East as he had arrived in La Crosse, empty-handed. He remained among those who had ministered to the wants of deceased (and, if opinion could be based on the limited reports of his stay which are let fall occasionally, without securing their good will), during the winter, and went whence he came, without blessings or protest.

THE FIRST FOURTH OF JULY.

With the advent of 1846, it was believed prosperity had begun to dawn upon the infant settlement, which would grow in strength, influence and importance as the year progressed on its course. And this was in part realized before Old Father Time had run the race set before him. The spring was one of charming balminess, lending an air of beauty to the village and surroundings, and making the settlers' hearts to rejoice at the prospects held out with each succeeding day. There was one embargo, however, to the perfect felicity their absence might have created, and that was the existence of mosquitoes in such numbers as to defy all attempts directed at their suppression or partial extinction. When citizens left the village to transact business elsewhere, they were met on their return with such welcomes as mosquitoes only can extend. Often the vicious little pests would go out into the woods to meet the absent one, and before the

latter was able to escape they had so entirely invested his person with attack that retreat was impossible, and he was forced to submit to their aggressive demands.

Occasionally they were sought to be smoked out, and this was found to be efficacious. But when the "smudge" became exhausted they returned in force, and the last stage of the affliction was not unfrequently worse than the first. Upon a trial made by Dr. Snow to relieve the log house occupied by Mr. Levy and family, himself and myriads of the pestiferous tykes, the family made a narrow escape from smothering to death, and avoided a repetition of the danger by avoiding its cause and endeavoring to avoid mosquitoes.

Notwithstanding these incidents the people were happy, and when, on the 3d of July, 1846, Capt. Nichols, from Black River, moored his raft of lumber at the foot of Pearl street, and announced that he did so with a view to celebrate and recreate on the ensuing anniversary of American independence, every effort that would contribute to making the celebration a success was promised. Accordingly, the next day Mr. Nichols, accompanied by his help, came ashore, and rendezvousing at the trading-posts, expressed their appreciation of the self-sacrifice of Revolutionary patriots, the courage they evinced, and the honor that was due them, in a manner appropriate to the occasion, concluding their morning festivities with a dinner to which all were invited to become guests. After the edibles and still more potent drinkables had been adjusted to the crowd, and while all were in that post-prandial condition of good humor peculiar to the day and the assemblage, it was decided that the ceremonies would be decidedly incomplete unless the observances were emphasized by a speech from some earnest, if the reverse of silvery-tongued, orator.

This duty was assigned Nicholas by common consent, and in default of a rostrum *per se*, an inverted-hogshead was improvised to that service. Mounted upon this he expatiated at length upon the glories, the sciences, the institutions, and the laws of a republic that dated its birth seventy years before. He was proceeding quite happily, it is said, evoking encomiums without limit, and applause without stint, and promised an indefinite continuance. Unhappily for the subject and the day, he became thirsty at one of his most eloquently rounded periods, and being unable to resist the craving, halted in his address and called for water, or such other liquid remedial agent as was accessible. This was obtained, of course, and the uses to which it was adapted successfully employed in the instance under consideration, when the speaker resumed the thread of his discourse. He had not proceeded far, though, before the weight on the impromptu stage was unexpectedly augmented, and, yielding to the pressure, incontinently gave way. While the cheers which greeted the rhetorical thunderbolts Mr. Nichols was launching into the crowd were still ringing, that gentleman disappeared into the inner consciousness of the hogshead. Those who surrounded him on the rostrum were precipitated to the ground while the crowd fled in all directions, and the festivities were suspended. The orator recovered his equilibrium with assistance, and upon taking an inventory of his injuries found that none of them were serious, but concluding the day had been kept in a manner both genial and generous, inclined to abstain from further attempts. The next morning, before sun-up, himself and crew loosed their cables and went sailing down the river.

This was the first celebration of the national anniversary of which any news can be obtained, and was doubtless the one which anticipated all others which have been undertaken in La Crosse. There was a notable absence of ceremonials peculiar to later observances of the day, but it is remembered by those who were then present and still survive as an episode in the history of the place that can never be forgotten or belittled.

During this year the Indians were numerous, and not unfrequently annoying. They constantly haunted the trading posts, and, unless kept under careful espionage, did not hesitate to appropriate to their own uses property to which purchasers alone were considered privileged. If discovered in an act of dishonesty, the discovery was a source of chagrin which at long intervals culminated in attack, in which the white always came out best, simply because he was always on the alert and prepared to resent and resist. As an example, the experience of Mr. Levy may be cited: In September of this year he had sold an Indian some article which the

mental "aftermath" of the savage constrained him to refuse to take. Whereupon he demanded the return of the purchase price, which was refused. Levy and Snow were at that time busily occupied in completing their dwelling, and little attention was paid to the maneuvers of the brooding and, as the sequel proved, resentful Winnebago. At an unexpected moment, and when he thought himself to be unobserved, the Indian whipped a knife out of his belt and sprang for Mr. Levy, who was standing some distance from his assailant. The latter fell short of his work, and Levy, seizing an alze helve, met him as he approached with a powerful blow, inflicting a severe wound involving the fracture of an arm, and thereby saving his life. The wounded brave retired from active service without delay, and until his arm was restored to its pristine strength and health remained secluded.

Upon another occasion, he acted in the capacity of a surgeon to a wounded squaw, under the following circumstances: The Indians were prone to quarrel among themselves, but as is not the case among Anglo-Saxons, squaws were rarely the occasion, though extremely jealous. When one of the gentler sex was "led astray," she was made to satisfy the vengeance of her husband or kindred. At the time referred to, a buck was noticed to leave one of the village stores hurriedly, and departing into the high grass became invisible. Soon after a squaw rushed into Levy's store holding up her hands to her face, which was bleeding profusely, the blood trickling down through her fingers. Upon inquiry being made, she refused to answer as to the cause, whereupon examination was made, and it was found that her husband, or some one in authority, had amputated the squaw's nose, and that she was enduring the pain with Spartan firmness, rather than expose the disgrace. But Levy refused to stand by without offering to relieve her affliction, and there being nothing else available, he clapped a quid of tobacco on the wound, which caused the flow of blood to cease, and acted in the nature of a soothing remedy, finally effecting a cure, which, however, was far from perfect, the unfortunate female being marked for life.

This same buck, who had decapitated the proboscis of his wife, while in the village one day, became enraged at one of his companions and rushed upon him in a frenzy of madness with a drawn knife in his hand. The assault was irresistible, and, as he grasped his antagonist by the hair, he drove the deadly weapon down through his face and mouth, and, before the force of the blow was broken, the knife had become fast in the victim's lower jaw, from which its removal was apparently impossible. He was interrupted before being able to repeat the vicious attack, and, after some trouble, Levy succeeded in extricating the cause of the wound. Its withdrawal was followed by a current of bright-red arterial blood, and for a brief period it seemed as if his chances to chase the antelope over the plain or engage in pursuits so congenial to the savage soul, were of an extremely limited character. In this emergency, the tobacco quid was again made use of with results equally as gratifying and beneficial as upon the former occasion.

These were some of the domestic dramas and embryo tragedies to which the early settlers were treated, neither class of which, it will be universally admitted, were calculated to inspire the intellectual or excite the mirthful.

CONTINUED IMPROVEMENTS.

The improvements during 1846 were neither more general nor expensive than had been those of the previous annual. But they were scarcely needed, it may be said, and those who were on the ground, being comfortable, felt no special desire to consult the comfort entirely of those who had not at that time united their fortunes to the rising village. When they came, it would be time to consummate arrangements looking to the completion of improvements that, until the happening of this event, could only be projected. When, in after years, the predictions made in behalf of La Crosse were verified, the city contained a large number of improvements projected at this time by the men who were then in the front ranks of enterprise, and erected as the demand for them materialized.

Among those that were raised into prominence in 1846, was the bowling alley erected by Myrick & Miller, near the corner of Vine and Front streets. Gambling, as a rule, was never

to any extent cultivated in La Crosse, and this applies to its earlier as well as its later days. That indulged in was mostly among boatmen or Indians, both of the nomadic classes whose permanence of abode is never decided upon. The games of the former were those usual to the river and ten pins, of the latter "La Crosse," or ball, and, when an opportunity was presented, those in which the pale-face excelled. The frequent arrivals of flat-boats and rafts at La Crosse, where they stopped for supplies and other purposes, as also the semi-monthly arrivals of steamers, had made the village quite a landing-place, at which travelers, raftsmen, loggers, and the *hoi polloi*, were wont to resort for brief periods. This fact, and the further fact that there was no species of amusement to be had, governed in procuring the building of the bowling alley during the summer. To supply this demand, then, it was put up and opened previous to cold weather. Some difficulty was experienced in procuring the "tools" and equipments, which came from various points, and were by no means of the mathematical exactness in dimensions or of as elegant finish as those which were substituted in their place years afterward. The pins were made of soft wood and architectural extravagances, it is said, while the balls were constructed of almost any substance, the chief property of which was solidity and capacity to resist damage, pine knots entering largely into their composition. In this old ball-alley, doubtless, many an exciting game was played, in which reputation for skill and large sums of money were the stakes. Whites and Indians, while the latter remained in the vicinity, were the patrons, the victors and the defeated. The old building has long since been torn away, but could its walls recount the scenes which have been witnessed within their embrace, how much could be related that would amuse and instruct.

In the summer, Levy & Snow determined to enlarge their storage and residence capacity, to do which it was decided to erect a new house, of which the log cabin then occupied should become an addition. This question being disposed of, a carpenter named Manahan, from Prairie du Chien, was secured, and Mr. Levy proceeded to Black River, where he secured the necessary lumber. With the preliminaries thus arranged, the erection of the house was begun and prosecuted so rapidly that its completion was reached in September, its occupation attained before frost. This was the first frame building erected up to that date between Prairie du Chien and Red Wing.

The venture of Levy & Snow had been attended with success. The firm had prospered, and, with increasing resources, sought to improve the vicinity as a point of attraction for strangers. In addition to other uses, the new house was utilized for hotel purposes, and there are residents of Wisconsin now who first accepted hospitality in that frame tavern standing at the corner of Pearl and Front streets, where to-day the International profiers shelter and entertainment to the weary and hungry—for a consideration.

The house answered the purposes for which it was designed, and survived the rush of matter and the wreck of things temporal until 1862, when it went up in flame and smoke during the extensive conflagration which swept over the city in that year.

At this time (1846), the population of the present county did not exceed twenty. Besides those residing in the village, there were a very few white men between Fort Snelling and La Crosse, and scarcely any at the former place outside the garrison. Between La Crosse and Fort Winnebago or Portage, there were few, if any, whites. Between La Crosse and Prairie du Chien there was a Mr. Metzger on the ridge twenty miles east; a Mr. Hazen between Viroqua and Prairie du Chien, and Mr. Sterling, Mr. Graham and two farmers whose names cannot be recalled, near Liberty Pole. From these statements the isolation of La Crosse can be regarded as other than an unsupported assertion.

In the fall of 1846, Levy & Snow secured a contract for carrying the mail between Prairie du Chien and Fort Snelling, Levy managing the transfer from the former point to La Crosse, and Snow the remainder of the route. The pouch, which was by no means bulky, was borne on horseback behind the rider, and the trip was made.

Upon one of these excursions, Mr. Levy, while mounted fell through the ice of Mormon Creek, narrowly escaping with his life. He wore a heavy marine hat with a protruding visor,

and, as he plunged into the water head-first, the hat was projected in such a manner as to prevent the fluid entering his mouth and nostrils, and after a short delay, he "righted" and regained solid ground. The horse, however, was lost, and the mail received a gratuitous and thorough wetting.

From 1845 to 1848, the population of the county remained about the same; but as soon as Wisconsin passed from Territorial condition to State government, immigration began to flow in from all quarters, and La Crosse received considerable accessions. Those who came were of the enterprising, thrifty character, which has aided so materially in the development of the great undertaking that met them at the threshold on their arrival. They were spared many of the vicissitudes and privations to which the pioneers, who had ventured into the wilderness, where no white man was known to have lived, had been subjected, but they did the work that was set before them with fidelity, and upon the foundations laid by Myrick, Levy, Miller, Snow and others, erected the super-structure of a municipality that reflects honor upon its founders, and they experienced happier times too. Far happier than had been the portion of men who had settled in other parts of Wisconsin at an earlier day. True, the Indians yet remained a prominent factor in the sum of every-day life, but they were harmless, contented to enjoy the safer excitements of the chase, than decorating their belts with the scalps of settlers. As already observed, their covetous disposition occasionally manifested its vitality in poaching upon the settlers' stores. Still, their position as dependents was maintained, and their subordinate condition, at all events, until removed beyond the limits of La Crosse bailiwick, preserved one of the incidents of the history of those times.

There was another affliction the later comers, as also the first settlers, were spared; that was the panic of 1837. The effects of over-trading, excessive bank issues, etc., were not visited upon them, but they were aided in the solution of life's problem by the fact that these evils had expended their force.

Under auspices created by the absence of these hindrances, the year 1847 began its race with Time. The prospects bright with promise, seemed to have found an abiding-place in La Crosse County of the future. The picture of that future exposed to the gaze of admirers and the world, was traced in brilliant colors, and in after years, this speculative elaboration of the country's resources was fully realized; the dreams of wealth they begot took shape, and were resolved into substantial fruits. The current of events which may be said to have begun its flow in the direction of permanent success about this time, was not diverted from the channel by the events which happened in succeeding years. The scenes of to-day, natural results of a wise policy prompting action among these beginners, are changed indeed, from those of thirty years back. The arts of peace have been so indulgently nurtured, and so steadily sustained, as that they have borne fruits, some tenfold and some an hundred-fold to magnify the age and agencies in which they were born, and by which they were perfected. Blessed be the day when the human mind awoke to freedom, and when the human race were released from an enchantment that, during a less happier age, enslaved them.

THE FIRST BIRTH.

One of the most prominent events of 1847 was the first birth. This is always an important circumstance in every newly-settled community, and adds a cubit, as it were, to the reputation of the vicinity, as also to the stature of those more immediately interested. The case in point doubtless failed to prove the rule, by proving to be an exception. It was a daughter to the family of H. J. B. Miller, named Martha. George Fetherlein, an industrious German, who came in this year with a company of five of the same nationality, consisting of Fetherlein and wife, Valentine Dinnitzer and wife, and a young man named Phillip.

The stranger who first announced her presence in La Crosse, in notes of infant melody, was warmly welcomed it is said, and made to feel as much at home as the oldest inhabitant. She was an object of interest to residents and strangers, and grew to womanhood under the name of Martha; she lived at last accounts in Illinois.

Dinninger was employed by Mr. Levy, and lived in the log cabin put up by Asa White, near Gund's old Front street brewery. He died in after years, and his widow became Mrs. Hogge, who resided after her second marriage on a farm near State Road Cooley. Phillip lived with Fetterlein and wife, passing his time during the winter in renovating and mending saddles, harness, etc., for settlers. In the summer, he was accustomed to supply customers and passing boats with fish, by which means he was enabled to make a comfortable living. In 1854, while he, in company with Tetterlein, were crossing the river in a skiff, the craft was swamped by the swell of a passing steamer and sank, carrying the occupants of the frail boat to the bottom before aid could be provided to save them from a watery grave.

CAREER OF HON. TIMOTHY BURNS.

Some time during this year (1847), it is believed Hon. Timothy Burns, afterward Lieutenant Governor of the State, and a gentleman who contributed, both individually and through others, to making La Crosse what it now is, was passing the present site of the city. It was then a collection of log houses, with Levy's hotel and Myrick & Miller's trading-post, the most elaborately constructed establishments to attract attention. There were no trees or shrubbery of any kind from the river to the bluffs, and the appearance of "things" then bore little resemblance to that which grew up in after years. Yet Mr. Burns was captivated by the location of the town for business purposes, and halted and examined into the commercial prospects thereof. This occupied some time, and, after a careful investigation of the facts, he became thoroughly convinced that there were few sites on the river possessing the advantages of La Crosse, and decided to remove here so soon as he should be able to effect arrangements for that purpose.

He was one of the remarkable men great enterprises produce, and to him, more than any one individual, it is said La Crosse is indebted for her present prosperity. He was born in Dublin, Ireland, May 31, 1820, and, while yet an infant, was brought by his parents to America, landing in New York. Here he remained until 1837. In the fall of that year, he immigrated to Wisconsin, and, settling in Iowa County, where he engaged in mining, so continuing until 1844, when he was elected Sheriff; a member of the General Assembly in 1846, re-elected in 1848, and chosen Speaker at that session. Upon the expiration of his term as member of the Legislature, Mr. Burns became one of the Commissioners of the Board of Public Works, and, in 1851, Lieutenant Governor of the State.

In 1859, he removed to La Crosse, which he foresaw was destined to become one of the leading cities of the State, investing largely in land. At one time, he owned one-quarter of the original town site. His interest and efforts in advancing the prosperity of the city he had selected as a home, and his prominence in State affairs, made him a favored object by his fellow-citizens for the bestowal of such official and honorary confidences as was within their power. These included the chairmanship of the first Town Board, that of the first County Board, the first County Judge, and, as stated, Lieutenant Governor of the State.

His career, however, after his elevation to the office of Deputy Executive of the State, was of brief duration. During the incumbency, he visited a brother-in-law, Warren Johnson, of La Fayette County, and while here was prostrated by an attack of bilious fever. Every attention was paid to the invalid medical skill could suggest, and his convalescence hastened by the loving devotion of friends and relatives, enabled him in the fall of 1853 to undertake the trip homeward. He reached La Crosse in an exhausted condition, and was borne from the boat to his residence, whence he never more departed until carried to the tomb, universally mourned by citizens and friends, whose admiration and confidence he had done so much to attract.

The death of a man so enterprising, so public-spirited and of so commendable ambition as that expressed in the character of Gov. Burns, could be no less than a deplorable misfortune to the State, the constituency he represented, and the city whose prosperity and permanent good he so sincerely and earnestly sought to promote. He gave his support most cheerfully to any meritorious undertaking, and, his advocacy of a movement for the public benefit, invariably added an impetus, and caused its advance toward the wished-for consummation. In private



life, his character was above reproach, and refracted its rays of excellence upon his official career.

The following from the *La Crosse Democrat* of Sept. 21, 1853, on the deceased, will commend itself:

By a most calamitous stroke of Divine Providence we are this morning called upon to chronicle the decease of the most prominent citizen of our village.

Hon. Timothy Burns, Lieutenant Governor of Wisconsin, died at his residence this morning, at a little past 12 o'clock, of bilious fever. His family had been visiting their relatives in the southern part of the State for several months past, where, some two weeks since, the Governor joined them, on his way to the Democratic State Convention, as a delegate from this Assembly district. While visiting with his family at the residence of Warren Johnson, Esq., of La Fayette County, a brother-in-law, he was taken down with a violent attack of the disease with which he died, but in a few days so far recovered as to be able to start for home, where he arrived by the steamer Dr. Franklin Sunday evening last, very much fatigued, and exhibiting evident symptoms of a relapse. Medical aid was immediately called, but the disease yielded not to medical treatment. It is doubtful whether he was fully sensible of his danger. During the forenoon of Tuesday he expressed a good deal of anxiety, and a desire to recover, but in the after part of the day became delirious, and later in the evening entirely insensible, in which state he remained until his death, surrounded by his family and friends. Everything within reach of human aid was done to save his life, "but he is gone." A wife loses an affectionate husband; a family of interesting children a noble protector; brothers and sisters lose their adviser, their staff; parents have lost the child of their young attachment, the idol of their hearts, and such a son as may well be said to be the glory and honor of their gray hairs. But this is not all. The State has lost one of its most gifted citizens, its counsel, one of the most sound, energetic minds of which it could boast. Few men in this or any other State have had a more brilliant political career. His influence has probably been more directly felt in all the great State interests generally, and the all-absorbing railroad interests especially, than that of any, if not all of the present State administration, although occupying a secondary position. He was a man of superior native mind, and notwithstanding he was emphatically what is termed a "self-made" man, his political career had not thus ended if his life had been spared him. And yet, there is one more sufferer—one who will receive and feel the death of Gov. Burns to be a public calamity—we mean the young city of La Crosse. The pioneer and founder of La Crosse, he has from the first made it his idol, and with an untiring energy and zeal he has without a single waiver or halt, at great personal sacrifice given freely, the whole scope of his powerful and comprehensive mind—the whole force of his extensive political influence to the furtherance and accomplishment of her interests. La Crosse is clad in mourning.

Pursuant to call, a large meeting of the citizens of La Crosse was held at the court house, for the purpose of expressing the public sentiment on the mournful occasion of the death of our lamented citizen, Hon. Timothy Burns.

The meeting was called to order by Col. Childs, who appropriately stated the object of the meeting, and nominated William Hood for Chairman, who was unanimously elected. R. Looney, Esq., was chosen Secretary.

On motion, a committee of three, composed of T. Gotolph, E. Childs and C. A. Stevens were appointed to draft resolutions, who reported the following, which were adopted:

WHEREAS, It has pleased Almighty God, in His inscrutable wisdom, to take from our midst our friend and fellow-citizen, the Hon. Timothy Burns, at the early age of thirty-three years, and in the midst of a brilliant and useful career, therefore be it

Resolved, That in the death of the Hon. Timothy Burns, the State of Wisconsin has lost an honest and faithful public servant, the Northwest one of the most upright and unassuming political men, and the town and county of La Crosse the founder of her prosperity, the constant, untiring and vigilant promoter of her welfare, and the zealous defender of her interests.

Resolved, That we deeply sympathize with his afflicted family; that we feel that while his parents have lost a dutiful son, his wife and children a tender husband and a loving father, his brothers and sisters a kind and affectionate brother; we have lost a true-hearted friend, ever ready to assist the needy, to give counsel to the inexperienced, and whilst seeking his own advancement never losing sight of the public good and the advantage of his new home.

Resolved, That we will ever cherish his memory as the pioneer of La Crosse, whose keen eye and calm and sagacious mind knew how to appreciate the natural and geographical advantages of La Crosse, and who had marked out as his task to build in this spot a city that would be second to none in our fair Wisconsin, who would doubtless have succeeded had life been spared him, and who has set us an example of perseverance, energy and enterprize worthy of imitation.

Resolved, That a copy of these resolutions be presented to his family, and that they be published in the *La Crosse Democrat*.

Resolved, That as a token of respect we wear the usual badge of mourning for ten days.

F. M. Rublee, Esq., offered a resolution that the stores and offices be closed after 12 o'clock on the day of the funeral, which was adopted.

On motion a committee of five, consisting of E. Childs, J. M. Levy, F. M. Rublee, C. A. Stevens and C. T. Jansen was appointed to assist in making suitable arrangements for the funeral.

The subject of erecting a monument over the grave of Mr. Burns by the citizens of La Crosse, was called up by F. M. Rublee, Esq., and the meeting adjourned to Thursday evening next, for the purpose of taking action upon that subject.

R. LOONEY, Secretary.

WILLIAM HOOD, Chairman.

A STIRRING EVENT.

In the month of September of this year, 1847, a circumstance happened which created immense excitement among the residents of La Crosse, involving the character and reputation of one citizen temporarily by the fear that he was guilty of the crime of murder, and had his suspected victim been found dead, as he was at one time likely to have been, the fate of a murderer would doubtless have been decreed him.

At the time mentioned, J. M. Levy and H. J. B. Miller, "Scouts," were elected to represent this portion of the county to attend a convention to be held at Liberty Pole for the selection of delegates to the Constitutional Convention about to be reconvened at Madison, the labors of their convention held the previous year having been rejected by the people. Accordingly Levy and Miller proceeded thither, and having executed the trust confided to them, retired to woo "tired natures sweet restorer" with the understanding that whoever awoke first the following morning should call the one who remained asleep. It happened on the ensuing morning that Miller was the first to greet the dawn of day, but neglected to summon his companion, and departed without him. When Mr. Levy resumed consciousness, it was to a realizing sense that he was alone, and hurying preparations finally started off in pursuit of the departing colleague. En route Mr. Levy followed an entirely new trail by which he overtook Miller distant five miles from the point of departure. They journeyed together for a considerable distance, when Levy alighted from his horse to pick up something that he had accidentally dropped. At this juncture, Miller's horse becoming frightened and unmanageable, rushed wildly off, and before its rider could regain control had put quite a distance between himself and Levy. The latter jogged on for several hours without coming up with Miller, and at last awoke to the cheerful conviction that lost in the woods he might wander at will for an indefinite period without satisfactory results. He took courage with the thought however that his absence would cause the neighbors to institute a search, also he was proof against despair, and able to contend with misfortune for several days. Notwithstanding these encouraging incidents, the victim was far from enjoying that peace of mind which he enjoyed at home and among friends.

That day he subsisted on wild plums and acorns, and when darkness fell from the wings of night, he tethered his horse, built a fire to protect him from the attacks of prowling wolves, and lay down to dreams that no one would presume to call pleasant.

In the meantime, Miller reached home in safety, after dark, and little anxiety was felt for the safety of Levy. But when, on the following morning, it was ascertained that Miller had arrived solus, the question was naturally suggested as to what had become of his companion. This interrogatory became more emphatic when it was further known that Miller's condition and appearance were such as to create grave suspicions in the minds of the most equitable that he was personally responsible for the deep damnation of Levy's taking off. He had returned without blanket or saddle, scratched and wounded, with his arm in a sling, and altogether appearing as one who had sustained severe injuries in an encounter. That morning he was visited by Dr. Snow and interrogated as to the whereabouts of Levy, to whom he stated "he didn't know; he didn't start with me." To another he answered, "Levy had probably gone to Prairie du Chien;" to still another, that he was en route to Black River, probably; and to Mrs. Levy reports equally as improbable and unsatisfactory. These contradictory stories, the peculiar conduct of Miller, his suspicious actions and rambling remarks, combined to confirm the belief of those who argued him a murderer and induce a conclusion among those who refused to be governed by appearances alone, that he would experience considerable difficulty in proving his innocence. While these opinions and beliefs were being mooted, Miller remained glum, eccentric, inaccessible. He seemed to take no thought of the consequences or to hurry out to meet trouble.

While this was the condition of affairs in La Crosse, Levy was battling with hunger, desolation and renewed difficulties in the woods. His position was critical, and his emotions must have been the reverse of pleasing. On the second day of his solitude, he woke from a troubled slumber, and having breakfasted on the only edible accessible to research, the same that fur-

nished him his food the day preceding, he resumed his wanderings, hoping before night to rest from his labors. The day passed, and no sign of encouragement lightened its gloom. Plums and acorns, a fire, a bed of leaves, darkness, desolation, despair—such were his surroundings, such his companions the second night in the forest. On the following morning, while listlessly dozing, his ears were gratified by the sound of a steamer near by. With shouts of thanksgiving he caught his horse, and mounting the faithful animal, started in the direction of the river, to which he was guided by the steady puff from the escape pipe and regular working of the machinery.

The same night, affairs at La Crosse had nearly culminated. If Mr. Levy failed to return by the next morning, it was decided to proceed at once to Prairie du Chien and procure Miller's apprehension. The condition of affairs at the home of the missing man was scarcely less deplorable than with himself. As Mrs. Levy would go out into the night in the vain hope that she might hear of or from her husband, the howl of the wolf drove her back with the conscious conviction that he would return no more. Upon her return to the house, she was obliged to pick her way through a mob of drunken raftsmen who occupied the rooms and hallway of her home, and, returning to the family room, pass the weary hours with memory and in tears.

When the morning dawned, Mr. Levy failing to appear, preparations were made to execute the decision of the previous evening to cause the arrest of Miller. The raftsmen, who had been drinking the night before, were somewhat tardy in their departure, and it was not until nearly 10 o'clock that they were ready to loosen the hawsers and continue their trip to the Gulf. At this juncture, and before the raft upon which Snow had embarked, parted from the shore, Levy was noticed in the distance and drew rapidly into view of the surprised and delighted neighbors, for all had given him up for dead.

When the river was reached on the morning of the third day, related Mr. Levy, he cast a drift into the water to ascertain the direction it was flowing, and this decided, he resumed his hunt for the abode of some one who would enlighten him as to where he was. After a brief hunt for this haven of deliverance, he reached Philip Young's cabin, half starved, naked and more nearly resembling the Sancho Panza of Spanish romance than the spirit of enterprise which he was, in fact, of more modern times.

The result of his coming suspended operations looking to a judicial investigation, the fatted calf, metaphorically speaking, was killed, for he that was lost had returned. Both made narrow escapes from violent deaths, and one of them still survives to recount his experience on those eventful days.

A FRESHET.

This year was characterized by an immense freshet in Black River, and its tributaries. The rains had been frequent and heavy, and the currents of these streams swollen to their utmost tension poured forth their surplus waters into the Mississippi and about the surrounding country, carrying ruin and desolation wherever it tided, and leaving its marks for months following the decline.

As one of the consequences of this unprecedented flood, sickness broke out in the lumber camps. Fever of a very malarious type spread among the loggers, raftsmen and mechanics, and, through some unexplained circumstance or combination of circumstances, before the disease could be checked it became epidemic. The care and attention which could be afforded at best in the lumber camps, was scarcely equal to that required for complete recovery, and when the epidemic set in, the agencies necessary to providing for the sick, not less than burying the dead, were not to be had. The result was that many of those who had been preserved from attack, fled to points on the river and elsewhere, as security against the disease—those afflicted to be nursed back to health, and those convalescing, for a change of scene to revive their almost paralyzed vitalities.

A by no means limited per cent from all the classes cited came to La Crosse, and the present city for a spell (relates Mr. Myrick) bore more the appearance of a hospital than an ambitious village. A large proportion of those who reached this point recovered, but some died

and were buried in the churchyard improvised on the knoll at an earlier day. With the close of the warm period the disease lapsed, but whether from lack of material to operate upon or because it had run its course, scientific research has failed to promulgate.

The village, at the close of this year, was more a village in fact than in name. Houses had become rather more *in esse* than *in futuro*, and the prognostications began to be more confidently expressed as to what the ensuing year would develop. The country tributary was being settled by farmers, including, in addition to those mentioned, the farms of Miller on Upper Cooley, Myrick's farm in the same locality, Cameron's farm, that of White and the Bunnell property. As yet, there was no stage, probably because there were no roads. Excursions were made on horseback, and, when necessity required, on foot. The mail came once in two weeks in summer by canoe, steamer or horse as the case happened to be, and in the winter by a French or dog train. There were no amusement of any kind, save cards and ten pins, no schools; and, until the year 1849, whenever a sermon was heard or the word of God spoken, it was from the deck of a passing steamer, whereon a traveling missionary was entertained as a passenger. In the fall of 1849, however, this was changed.

On the Sunday preceding St. John's Day (June 24), occurred the first preaching within the surveyed limits of La Crosse. The services were of the Episcopal faith, and conducted by the Revs. Dr. Breck, Wilcox Merrick and Deacon Holcomb. In the morning, an excursion was made, and a cross erected at the end of Main street, in the shadow of the bluffs, and in the afternoon at Mr. Levy's house, where a daughter of "Scout's" Miller was baptized. They were attended by residents for miles around, and a fervent feeling was doubtless manifested upon so grave and suggestive an occasion—an occasion when a public acknowledgment of the goodness of God to the children of men was first made in His temples, on the shores of the Father of Waters, by the residents of La Crosse County.

In addition to the names of those already quoted as having come in during 1847, the following are to be added, as the claim is made of their arrival here in the fall of the same season: Peter Ebner and wife, Felix Kaiser and wife, Mr. Doerflinger and family and Joseph Ebner and sister. Joseph subsequently married his brother Peter's widow, while the sister became a Mrs. Baker.

Beyond the unexpected mortality occasioned among the settlers from Black River and the wanderings of Mr. Levy, no events occurred during 1847 that have been heard of worthy of more than passing comment. During the prevalence of the epidemic, business and improvements, as also the sources of labor and independence, came to a stand-still. The sick were aided so far as it could be done, and the dead buried by the Samaritan citizens, who, in times of danger and tribulation, rise up as unexpectedly as dispensations of Providence. So, too, when the continued absence of Mr. Levy caused fears as to his fate, the utmost sympathy was expressed, a willingness to probe the matter thoroughly manifested, and his return warmly greeted.

By 1848, the population of the county had not measurably increased. The major portion of those who were credited on the census roll resided, of course, at the village and its immediate vicinity. The improvements were still of a nominal character. Main street, as now described, was an unimproved dirt road, rendered impassable nearly all the time, either by mud or sand. The present city site was a vast prairie, with the hills in the distance rich in their garbure of grasses and flowers, while off to the north and on the islands that divided the Mississippi opposite the city, were the resting-places of the Winnebago and other tribes of Indians. Today's visitor to La Crosse would hardly receive a description of the country as it was forty years ago. The landscape, now dotted with handsome residences, beautiful gardens, expensive improvements, and all that can contribute in the remotest degree to render life comfortable, was an almost endless waste of sand, with very little to attract even casual observation. Its location, however, had persuaded the pioneer settler who still resided here to break ground six years before, and his example had obtained, though slowly, until a population of nearly twenty souls had congregated here to grow up with the town and participate in such benefits as should thereafter accrue to them as a reward for their enterprise and patience. The embarrassments inci-

dent to establishing a settlement can only be appreciated by those who were subjected to their imposition. In some cases these embarrassments were augmented by trials growing out of defective titles, it requiring the most uncompromising labor to preserve the claim in some instances. Happily, however, these cases were not numerous about La Crosse.

The summer of 1848 was a prolongation of the spring, which had been beautiful beyond comparison. It dawned upon La Crosse rich in the promise of a season that had been prophetic. Much of what was hoped for during the previous year was realized. Emigration was still limited, but those who arrived increased the value of material interests in their new home. The Indians were removed to other points, and their huts gave place in some instances to more substantial and gratifying evidences of enterprise and thrift. More regular communication was established between points above and below; farms were cultivated, and every resource available at that early day, tending to develop the country, was employed with moderate success.

FIRST LAND SALES.

In 1848, the land of La Crosse County came into market and entries were made at Mineral Point. This was ultimately the origin of land companies organized elsewhere to purchase lands in newly settled portions of the country, from whose rapacity, however, La Crosse was in a measure protected. They were, in most instances, of spontaneous growth and development, without any solidity or character, and in some cases were born, matured, and reached decrepitude and forgetfulness the same day. In subsequent years, it may be, land speculators and operators were numerous about La Crosse, in the city and county, but at this period they had not made their wolfish visitation, their manner of dealing and the characteristics they manifested when they did come being reserved for the future to disclose.

The first to put in an appearance at the land office in Mineral Point, upon its becoming accessible to settlers from this section, were N. Myrick, Samuel Snow, Asa White, J. M. Levy and Peter Cameron, who went thither to prove up the claims they had made at La Crosse and vicinity. The route taken by the travelers was hence to the Ridge, and thence direct by military road to Mineral Point. The trip then occupied some thirty-six hours, and the same time back, those going being obliged to remain at Mineral Point two days before they could obtain their turn and dispose of their business. This done, they returned to La Crosse secure in the title to their several claims, and more encouraged and prepared to offer inducements to settlers than ever before. But none came to either canvass, decline or accept these inducements. Considering the advantages of the site, it is somewhat remarkable that, for two years, no settlers expressed a desire to join issue with the situation, and the case thus being made up, submitted its decision to the logic of events that brawn and brain should in the future develop.

REMOVAL OF THE INDIANS.

In the spring of 1848, arrangements were inaugurated with a view to the removal of the Indians to some distant point where the aggressions of civilization had not yet manifested themselves, and to which it might be years before they would extend. And here may be related an incident of Indian character which will illustrate one of the reasons why their intimate association was not desired by the whites.

During the winter, their removal had been agitated, and a band laden with furs had encamped at the foot of the bluffs at some distance from the city, preparatory to negotiating the sale of their peltries. Having communicated their desires to Mr. Levy, and engaged with him to visit their camp the succeeding day, they departed. In accordance with this arrangement, Mr. Levy and an assistant started at daylight the next morning, and traveled all day in the direction of the camp. Late in the afternoon, he reached the objective point of his journey, and halted at a distance from the Indian wigwams. It being late, he suggested to them that they postpone trading until the next day. But they'd none of it, and acting upon the apparent desire of the savages, trading was commenced while yet the light remained. By using expedition and avoiding disputation, the trades were concluded by dusk, and each sought their camps

for the night—the one to plan to prey, and the other to plan an escape; for while the sales were in progress, the companion of Levy heard them conspiring to steal back the skins while their purchasers slept, and secure them at any sacrifice. So as soon as the purchases could be securely packed on the sleigh, the traders hitched up their team, and by very careful management were enabled to elude the vigilance and cunning of the savages, and get out of their reach. They traveled all night, and reached home at daylight the next morning, happy in their good fortune, while the Indians, on discovering their escape, as was afterward ascertained, pranced about with fury and disappointment.

When the decision to remove the savages to Crow River Reservation was promulgated, as may be readily inferred, it was not accepted with a spirit of resignation or willingness to accept the situation. The Indian character is notoriously deficient of those characteristics which breed these excellent virtues. On the contrary, they swore they would not go, and employed every means available or to be availed of to give emphasis to this determination. Dandy and his band were particularly severe in their denunciation of the move, and specially determined not to go. In May, the excitement ran high, and fears of trouble were expressed. During that month, a number of the head men among the Indians sought Mr. Levy and asked permission to hold a council in his house, which was granted on condition that the participants remained sober and refrained from manifesting too much war spirit. They accepted those stipulations and returned to their camp, a short distance up the river. The next morning, the river was crowded with canoes, filled with Indians painted to represent them in the most unamiable mood, with feathers in their hair and other evidences of warlike intentions. The spectacle while aboriginal, and in some respects attractive, was not calculated to inspire the settlers with a peace of mind indescribable, but the boats were rowed to the village, where they unloaded, and the march to Levy's house began.

Upon reaching that domicile, they were surprised to find it locked, as Mr. Levy had omitted to mention the matter to his wife, and she, fearful of an attack, had closed up the premises and retired to an inner room for safety. After some delay, admission was obtained and the pow-wow carried on in the dining room, each Indian with a pipe betwixt his teeth smoking, reflecting and expectorating with a solemnity that would have defied the profundity of a philosopher to imitate or emulate, and secured for each the lasting disgust of Mrs. Levy. Here they remained for two hours perhaps, when, having concluded their business, they vacated the premises and returned whence they came, their canoes plowing the waves of the river, the surface of which appearing in the sunlight bright and sparkling as the burnished shield of Achilles.

There was no trouble resulting from the council, neither was the decision to move them affected thereby. Communications were addressed the authorities at Washington by those kindly disposed toward them to which no attention was paid, and in June, they were sent further West to grow up with the country, accompanied by White, Marks and Horton, settlers in La Crosse. In 1849, those who escaped the first emigration followed in the footsteps of their brethren, and a dissolution of the partnership of Levy & Snow was decided and accomplished upon the following basis: Snow received the farm at the mouth of State Road Cooley, and Levy the Spaulding claim, while the goods in stock were divided between them. Subsequently Levy purchased the claim of Ann White, and came into possession of about one-fourth of the river front.

The year 1849, was rather more eventful than 1848 had been. The country was then a paradise lost about the sources and tributaries of the Mississippi. It has since become a paradise regained, with enchanting, unlimited possibilities. Previous to the departure of the Indians, a gigantic struggle had been in progress between them and the whites, between races, between the picturesque and civilization for the possession of the rich uplands and fertile prairies of the Northwest. To-day drifting down the great water-way on a radiant morning, the voyager will recall nothing in his travels more varied and interesting than the city of La Crosse and its history. The home of the savages less than a half century ago, it is now the home of wealth, enterprise, education, refinement.

New Year's Day, 1849, was celebrated with considerable ceremony, and included among its attendant concomitants those usual to the season and occasion. Drinking, dancing and shooting were indulged until participants were incapacitated by reason of exhaustion or other and more persuasive influences. The winter commenced early, and the roads in every direction became permanently impeded at a comparatively early period. Communication was thenceforward during the remainder of the season by ice. The stores and empty rooms in and about La Crosse were packed with goods and wares, awaiting transportation, and unable, by reason of the absence of facilities, to secure it. In this emergency, a party of French was obtained, and their services employed in conveying freight and passengers to points between Galena and St. Paul, by means of horses and sleighs. The result was that activity was apparent at La Crosse and the travel near the present city quite large. Indeed, during the snow blockade experienced this year, the visitors to the new settlement were unusually numerous, but scarcely any of those who came remained, and none of them were identified with the subsequent growth of the settlement, village or city.

The embargo continued until late in the spring, when its causes departed as unexpectedly and expeditiously as they had come in. When the snow and ice were gone, which was in April, the river was opened and traffic resumed, with the arrival of the "Highland Mary," Capt. Atchinson, a profitable and elegant steamer for the days in which it was operated. Thereafter during the spring, the accidents and incidents of life on the prairie were similar to those previously encountered, save that they may have been rather more numerous, as the number of the inhabitants increased.

On the 5th of April the first death by accident is recorded, being that of Wilham, son of J. M. Levy, who met his death under the following circumstances: Along on the evening of the day in question, he guided his horse to the river to water him, preparatory to concluding the evening's chores. The spot selected was at a point opposite the foot of Pearl street, approached from an incline, and to the water's edge by a steep bank. The lad had reached the latter place, which he was carefully descending, followed by the horse, when he slipped, and falling was thrown directly under the animal's feet. Before he could regain his equilibrium, the horse had stepped on the head of his victim, fracturing the skull, and inflicting wounds from the effects of which he died on the following morning, and was buried the same afternoon.

The settlement at this time counted on its roster of inhabitants a shiftless fellow named Napoleon Frank, the height of whose ambition seemed to be to covet his neighbors' goods, become pugnaciously intoxicated, and after beating his wife into submission and helpless fear, lie down to sleep, undisturbed by any other agencies than those indigenous to bacchanalian revels. During this spring, "Scoots" Miller was robbed of flour which had been landed from a passing boat and left to await a purchaser, and the owner was in a quandary as to whom the guilty party would prove to be. Soon after, Napoleon procured sufficient money to purchase whisky enough to get him in that condition of muscular inebriety, when he hungered to thrash the madame, and thus accoutered he wasted no time in hunting up the object of his malevolence. She was found at home as usual, and having administered a thoroughly subduing course of discipline to the defenseless victim, laid him down to contemplate other conquests in the dim land of alcoholic romance.

While he slept, Mrs. Napoleon, out of all patience at his brutality, and declining longer to act as a co-partner in his crimes, visited "Scoots," and after detailing the abuse to which she was subjected at brief intervals, concluded with the story of his speculative acts, including that by which he acquired title to the flour, the disappearance of which had proved to be a most inexplicable conundrum to its legitimate owner. When these dark ways and not altogether vain tricks of the sly Napoleon were brought to the knowledge of Justice Miller, there was not, as might be supposed, mounting in hot haste. On the contrary, "Scoots" and his confederes conferred for some time before deciding upon a course of action. But when a policy was adopted, there were neither lacks nor want of means employed to procure its exercise. In the case under consideration, diplomacy and skill combined to release the wife, and relieve the settlement. To

make a long story short, she was sent to St. Paul, and he given a certain length of time to make his exit in an opposite direction, which, candor compels the admission, he was not slow to avail himself of. But, embarking in a canoe kept conveniently in order for emergencies, he turned its prow in the direction of the Gulf and sailed. This was the first citizen of La Crosse exiled from his adopted home, yet he was permitted to return after a brief absence, but the mysterious disappearance of portable property never afterward became frequent.

The foregoing suggests another case illustrating the presence of strong-minded women in La Crosse, as well as types of effeminacy requiring the arm of something stronger than law to urge their defense. When Levy & Snow dissolved, George Fetterlein was left a debtor to the former, with only an assurance to liquidate when able, to commend him to an unlimited indulgence. This was rather a discouraging outlook, but the creditor accepted the situation and agreed to wait Fetterlein's convenience. One day in the summer, the latter unexpectedly offered a cow in settlement, and, to close up the account, the offer was accepted. When the chattel was delivered, the delivery was accompanied by a proposal to transfer a calf thereto belonging for a consideration. This was accepted, and the purchaser (Mr. Levy) gathering up a rope on the following morning, walked over to the vendor's cabin to take possession of and guide the youthful bovine to his herd. He reached the Fetterlein homestead while yet the sun was in the East, and, announcing the object of his visitation, prepared to bind his property, to the end that its escape would be prevented. He had no sooner completed the preliminaries in that behalf before he was apprised of the presence of an opposing force, in the presence of Mrs. Fetterlein, who first protested, and, without waiting to ascertain the effect her eloquence would have, began an assault with such force and arms that retreat was the only defense which remained for the victim. Acting upon this conclusion, he hesitated not to lend the enchantment of distance to his oppressor, and fled precipitately across the prairie, followed by Mrs. Fetterlein. Both ran furiously through the damp grass, and, for a time, the successful competitor was extremely difficult to name. Mr. Levy gained some little advantage at the outset, but was handicapped by the loss of his slipper, and once it looked as though the "swift-winged" madame would overhaul and vanquish her nimble-footed antagonist. But, at the critical moment for him, she abandoned the chase, and he reached home breathless and in his stocking feet. When the coast became clear, Mrs. Levy ventured out and secured possession of the slippers, and both acknowledged that a cow without a calf was by no means the worst phase of existence in a new country. They had become resigned to the situation, when, on the following morning, the cause of the disturbance was carted over to Levy's mansion by Fetterlein and delivered to its legitimate owner. "That was many years ago," observes Mr. Levy, when referring to its occurrence, "but I never will forget it, nor Mrs. Cameron's attempt to cause the arrest and prosecution of certain parties for an alleged assault," while Mr. Levy was Justice of the Peace, for which that gentleman could not be charmed into issuing the papers.

At this time, Mrs. Cameron occupied a position of prominence, assured, if not select or enviable. Scarcely any event occurred with which she was not identified, from a social gathering to a public meeting, from a picnic to a funeral. The Fourth of July was celebrated with pomp and circumstance this year, in a grove near the present cemetery, and largely attended. Citizens, Black River lumbermen and Mrs. Cameron, were present, and the latter contributed materially to the entertainment and its conclusion. The speeches are represented to have been pointed and eloquent, the toasts appropriate, the edibles appetizing and the fluids inspiring. Late in the afternoon, at a moment when satiety and surfeit were the prevailing features, Mrs. Cameron hurried to a safe distance and revived expiring energies by publicly challenging the males in attendance to catch her and exchange what, it was thought at the time, would be osculatory compliments. The crowd accepted the gauge thus proffered, and ran, pell-mell, in pursuit of the prize. There was racing and chasing over the prairie, into the forest, across gullies and coolyks, but, when the capture was effected, Mrs. Cameron rewarded her admirers with kisses manufactured by candy-makers, whereupon the recipients became exercised, and, in the flush of disappointment, refused to be comforted. The crowd dispersed soon after the orators and celebrants

of the male persuasion, as a rule returning to the village, where they became intoxicated while the ladies recovered from the fatigues of the day.

THE CAMERON-ELLIS TRAGEDY.

Scarcely had the excitements attending the celebration above referred to subsided, and the people resumed their daily avocations, when a shooting affray occurred, during which a man named Ellis met his death at the hands of Peter Cameron, the particulars of which, as near as can be ascertained, are substantially as follows:

As is the case on every frontier, human life was protected by the individual, if necessary; and any feud of consequence was occasionally settled by a resort to arms. Might in some instances made right, and consequently personal quarrels were not of unfrequent occurrence. Up to this time, however, no trouble had occurred resulting in death. At this date, and for some time previous, an organized gang of log stealers were accustomed to visit La Crosse and vicinity for the purpose of predateding upon the crops of legitimate loggers, both here and on the Black River. They would run away one's logs out of the river, capture any loose logs they could possess themselves of, and spirit them away to the markets on the lower river, and this, too, notwithstanding the stringent measures employed to lessen the opportunities for crime.

On the morning of July 9, 1839, two men were observed on a raft descending the river opposite the city, which had become "broken" and separated. When the raft was secured, the men attempted to gather the loose logs which were floating on the river, and marked as is claimed, with the name of their owner "Ellis," who was one of the twain attempting to secure them. While thus occupied, Peter Cameron, in a skiff, overhauled them, and was passing the corner of Barron's Island, when he was recalled by his wife, who doubtless referred to the work of the loggers, who it seems had recovered a portion of their property from among a lot owned by Cameron. Soon after, as Ellis was proceeding in the direction of Mr. Levy's store, Cameron hailed him, and upon halting, a controversy ensued as to the ownership of the reclaimed logs. The controversy widened into an excited altercation, in which Cameron challenged both Ellis and his hired man to fight, which, however, they declined. Thereupon Cameron loosed a fierce bull-dog which he owned, by which Ellis was attacked, and very seriously injured. He succeeded in making his escape from the fangs of the beast, and hurried in search of his partner to ascertain to what extent he had suffered. At this juncture, Mrs. Cameron emerged from her husband's cabin armed with two guns, and directed Peter to shoot the fleeing Ellis. The latter, appreciating the crisis of the moment, hastened his retreating footsteps in the direction of the raft, as rapidly as his wounded condition would permit. He had nearly gained a place of safety when Cameron "turned loose" upon him, and he fell mortally wounded. While prone on the ground in a condition rapidly approaching the final stage of dissolution, and before any one could hurry to prevent it, Cameron supplemented his shooting with blows from a club or the gun-stock, and hastened the result which previously could not have been long delayed.

While the assault was in progress, Mr. Levy, who was Justice of the Peace at the time, reached the scene of the impending murder, and sought to rescue Ellis from instant death. But his attempt was greeted by Cameron and wife with threats against his own life, and he retreated.

Fortunately a raft rounded the point above La Crosse at this moment, and landing in response to Mr. Levy's hail, Dr. Snow and John Elder, Sheriff of the County, were found on board. With the assistance of these gentlemen, Cameron was arrested and placed in custody, and committed to jail on a charge of murder. He was taken to Prairie du Chien, in the charge of Elder and Snow, as also was his wounded victim, in the hope that the latter might receive treatment that would prolong his life. But this was not to be; he died while the raft was at some distance from Prairie du Chien, and was buried at Brownsville.

INDIAN IMPUDENCE.

The Indians again made trouble this year, or rather annoyed the settlers, as was their wont in former days. Some of them who had refused to submit to removal the year previous became

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exceedingly active, and others who had been removed returned upon witnessing the indulgence that was accorded those pertinacious to remain.

Among the former, or those who repelled all overtures looking toward removal, was Dandy and his band of followers, which numbered less than a hundred. They had been a disturbing element in the removal of 1848, and excited a stampede of the Winnebagoes collected that year in Myrick & Miller's warehouse, who fled in all directions, while arrangements for their transportation were in progress, and could only be re-collected together by the threat that their rations should be cut off.

The moving spirit of this trouble was Dandy; and repeatedly during the year 1849, he swore that he never would be removed alive. As a consequence, the settlers, more particularly the traders Myrick and Levy, were subjected to all degrees and qualities of annoyances and anxieties, requiring the exercise of patience and forbearance to avoid a collision. Early in the fall the condition of affairs was rendered the more critical by the return of some of those who had gone to their reservation, and the savages became more aggressive and obnoxious.

Upon one occasion, William Bonnell heard a swaggering, whisky-drinking and liquor-maddened savage muttering vengeance to himself as he wandered about the village, and kept careful watch of his movements lest he should execute his threats. After some delay, he proceeded in the direction of Levy's store, but halting on the way, Bonnell anticipated his arrival, and reaching the store hid himself behind the door and awaited the progress of events. Some time elapsed before the Indian came up, but upon reaching the threshold, he announced his presence and objects without ceremony, and in language both unadorned and devoid of the least possible ambiguity. He wanted whisky or blood; he was apparently indifferent which, but prejudiced in favor of the latter if the former was not dealt out to him liberally and immediately. By this time Mrs. Levy, who was in the rear of the house, heard the savage protestations, and hastened into the house to ascertain what was wanted. When she reached the door communicating with the room in possession of the aboriginal visitor, she was greeted with grunts, exclamations and the odor of whisky, accompanied by demands for more of the spirit which is said to steal away one's brains through the victim's mouth.

But unappalled by the threatening gestures and language of her unavoidable guest, Mrs. L. declined to accede to his demands, suggesting at the same time that his individual comfort, the comfort of herself and that of the day, would be materially enhanced if he would retire to his tepee and convalesce from the effects of too liberal potations. Notwithstanding the peaceful means employed and the persuasive ingenuity of Mrs. Levy, he refused to retire—he wouldn't seek his tepee and become a man again. Whisky was what he came after, and unless it was produced without further ceremony, he'd scalp some one and cause mourning among the pale faces. Mrs. Levy still declined his commands, and defied his threats in a manner equally as earnest as that evinced by himself. At last, when parley would no longer bring forth the flowing bowl, and as the madame was about leaving him to rant to vacant walls, he suddenly drew a knife from his belt and prepared to spring upon his victim.

While crouching for the leap, Mr. Bonnell, who as stated, was hidden behind the door, emerged from his place of concealment, and seizing a pitchfork standing by, ordered the impetuous and blood-thirsty savage to flee if he valued his life. The Indian halted and contemplated the spectacle of an angered settler rushing upon him armed with a drawn pitchfork, for a second, and turned to retreat as the tine of the fork prodded him in the rear. The sting of the wound accelerated his speed, and plunging from the doorway, he ran laboringly but rapidly to the river landing, where he sprang into a canoe and reached the rapid current in time to avoid his pursuer.

At another time, Mr. Levy was absent in attendance upon the trial of Peter Cameron, which took place at Prairie du Clieu in September, 1849, when his store was again visited by a party of Dandy's band, including among its numbers a vicious buck who had been released from the penitentiary but a short time previous. The conduct of the braves was scarcely such as would characterize gentlemen of the old school received as guests upon some festal occasion;

on the contrary, its counterpart can hardly be imagined, certainly not described, outside the lowest walks of life. As the day advanced, the visitors grew more and more belligerent, particularly the brave who had been an occupant of a felon's cell. They had summoned Mrs. Levy, who was alone in the house, to wait upon them repeatedly, and at the last call, as she opened the door, the ex-convict sprang into the center of the room, and presenting a rifle, was in the act of drawing a bead upon the defenseless woman. There was an instant of solemn silence, when another Indian, more sober than the rest, grasped the gun-stock before the weapon could be discharged, and prevented the calamity that must have followed in a second. They finally left the house, and, during their temporary absence, Mr. Brisbois, of Prairie du Chien, came in, and upon comprehending the affairs as they existed, remained until the return of Mr. Levy.

Late in the fall, these dangers and trials to which the settlers were committed, were suspended by a peaceful solution of the troubles. Numbers of them were persuaded by quiet but potent influences to emigrate, and were carried to Fort Snelling. The next year, however, they returned once more to the scenes of their childhood, but were taken in charge and again removed, since when they have remained absent, though to-day vagrant bands of Winnebagoes wander at will over the county, but are harmless and never interfered with.

This year, William Bonnell and family returned to La Crosse, to remain permanently; Peter Burns came in about December 4; Timothy Burns (who afterward became Lieutenant Governor, and who had visited the site of La Crosse in 1847), settled here.

Some assert that this gentleman delayed his settlement in La Crosse until 1850, but Mrs. Levy (to whom the writer is largely indebted for facts regarding La Crosse) kept a journal of her experience during those times, and records his arrival here on the date above mentioned.

One cold, wintry day, Mr. Levy was aroused from his reverie before the fire by a feeble rap at the door of his house, to which he responded, "Come in," and no one raising the latch, he went to the entrance to ascertain the cause. Upon throwing open the door, his sense of vision was startled by the appearance of three men and a pair of horses, evidently suffering the pangs of hunger, and reduced to a condition of emaciation that was absolutely horrible. They told him they had no money and were nearly famished. Could they remain two or three days to recuperate, when they would hunt work? Certainly, as long as they wanted. They were housed and fed, the horses cared for, and when sufficiently rested, they crossed over to the island, and during the winter occupied the time in felling timber and cutting steamboat wood.

They had left White Pigeon early in November, they stated, with a view of locating in the West, hoping to reach some available point before winter set in, where they would remain until spring and determine upon some selection. After journeying beyond recall, and without the hope of assistance, it began to storm, and for a season it was a question of possibility as to whether the unfortunate trimovariate would be able to effect its escape or not. They wandered along aimlessly for days, hoping for relief which never came, until their horses became too weak to drag the wagon further, when they were unhitched, and the hapless quintette floundered through snow and brush, until, happily for themselves, they reached La Crosse, and renewed their lease of life at the home of J. M. Levy.

In the spring, Job Brown, his brother and a hired man (for those constituted the trinity described), closed up their work and went on a prospecting tour down the river, where they entered claims, perfected the same by occupation, and laid the foundation of what has since grown to be the prosperous village of Brownsville.

This same year, Commissioners came with surveyors and located the school, university and swamp lands.

This year, also, was solemnized the first marriage to occur in La Crosse after Wisconsin became a State, the parties being Joseph Ebner and the widow of Peter Ebner, his brother, who had come into the country in 1847, but had died shortly afterward.

There were doubtless other circumstances connected with the settlement, the people, the times, etc., worthy of special mention, but those who alone are capable of explaining them and elaborating the effect they produced, have gone hence or forgotten their existence, and their

detail is consequently reserved for the historian of the future. Within the short space of seven years, the corner-stone of a new empire had been laid, and the super-structure was in progress of building, and so advanced as to be beyond the power of recall. During that period the few settlers who had come in from time to time took up the burden of life as they found it here, and amid discouragements, disasters and oppositions, maintained their burden to the end. In spite of the crosses they were called upon to endure; in spite of the unsettled condition of affairs that existed here, as such conditions will always exist wherever the stakes of another dispensation are planted; in spite of these and numberless other occurrences, trivial in themselves, but oppressive as they increased in number, these pioneers in the cause of progress and improvement bore their crosses unflinchingly to the end, and saw in that end a fruition of what they anticipated.

LA CROSSE IN 1850.

Thus came 1850 in the order of events. The winter was more than usually severe, and the season of spring proportionately late. When the Brown boys left for other parts it was far into April, and at that time very little had been accomplished in the future city or country tributary thereto. But as soon as the trees leaved out and the grass began to cover the hillsides, the arrivals began to be announced at briefer intervals, and indications of a "future" to become established facts, chroniclers of the times assert this to have been the year when the laggard advance of its younger days was substituted by more rapid progress in La Crosse. About this time it is said men of enterprise called the public attention to the favorable position of La Crosse in a commercial point of view, and suggested it as a rare place for the investment of capital. These included the recommendations of Lieut. Gov. Burns, T. B. Stoddard, F. M. Rublee, S. D. Hastings, C. A. Stevens, Robert Looney and some others, though very few of them came in for purposes of permanent settlement until afterward. Some land sales were negotiated and perfected by a transfer of title, the most important among which was that of N. Myrick to Timothy Burns.

The land conveyed comprised a large portion of the village site, and was acquired by the vender through a patent issued by the United States to N. Myrick and wife, bearing date November 7, 1849. He subsequently deeded an undivided half of this grant to H. J. B. Miller, and, on May 10, 1850, the remainder to Timothy Burns, whereupon Miller and wife and Burns deeded Myrick one undivided fourth.

Throughout the county settlements were also made, and have grown into populous and prosperous communities. In May, Martin Bostwick and family emigrated from Vermont, and made a settlement (Bostwick Valley) in what has since been incorporated as Barre Township. They were soon joined by Hugh Hogan, an enterprising Irishman, between whom the building up of this portion of the county was begun and carried to completion. Later in the season, emigrants from Maine, headed by a man named Gordon, who was accompanied by his family, and dropping down into La Crosse County, located on the banks of the Black River and began the settlement of Holland. He earned some, logged some, and in the exuberance of an ambition that should have been cultivated and encouraged, laid out the village of "Orno," which, however, has never been improved. In the fall Eufin Emlinson, a Norwegian, came into the country, and locating a claim of 160 acres of land, erected a cabin in which he installed his family, and made preparations to begin farming early in the following spring. The same winter Thomas Leonard and Julius Segur were added to the population of the county by erecting and occupying a log cabin in sight of Emlinson's home, whose neighbors he thus became. This was the beginning of the building up of Hamilton Town, which is now one of the most important in the county.

THE FIRST ELOPEMENT.

A somewhat noted character known as "Wild Cat Jack," the pseudonym of John Morrison, materialized about this time, or rather came more prominently before the public than ever before. He was the son of influential and wealthy parents at the East, but ran away from

home when but sixteen years old, and, making his home in the West, consorted with desperadoes and became one of the most dangerous of that class.

He carried the mail between Prairie du Chien and points on the river above La Crosse, and his first exploit was made at Richmond, Minn., where he made love to a daughter of the Postmaster, after whom the town was named. His fascinations proved so persuasive, and his love-making so convincing, that the young lady slipped out of the house one dark, stormy night and eloped. She is represented to have been the very antipodes of Jack. Of rare beauty of person, harmonizing with superior mental faculties, and an unusual mild disposition, the surprise was expressed that she could reconcile herself to recognize one of such reckless habits and inclinations as her choice was known to be. They reached La Crosse together, early one morning in the spring of 1859, and, proceeding to Justice Levy, demanded of him to marry them instantler. But Mr. Levy, knowing the prospective bridegroom; and apprehending that fear rather than inclination extorted an unwilling consent from the fair girl, at first peremptorily refused. After repeated solicitations, he privately interrogated Miss Richmond as to whether she was under duress in thus consenting, to which she returned a negative, and added that if they were not married it would not affect their future course as to remaining together. This determined the Justice, and they were married. They lived as man and wife but a short time, as his course was summarily checked during the summer by a ball from his own revolver.

A short time previous to the tragedy, in which he was the victim, Jack came to La Crosse, and, deporting himself in an exceedingly obstreperous and insulting manner, very soon encountered obstacles which proved insurmountable to his efforts and fearless of his threats of vindictiveness. Being refused supper at Miller's, he went down to Levy's tavern and demanded to be served there. This could not be done, and Mr. Levy so told him, but the refusal excited Jack all the more, and, drawing a pistol, declared he would commit murder. Before he was able to accomplish anything in that connection, though, Mr. Levy, in defending his wife, administered so sound a thrashing that Jack cried peccavi, and, when released from the grasp of his antagonist, retired precipitately.

It might here be said that Mrs. Levy was by no means obliged to rely upon the skill, strength and prowess of her muscular husband to defend her from the assaults or batteries of inebriated and ungallant frontiersmen. She was amply able to protect herself, and never hesitated to accept the issue when joined, as some who resided in the vicinity of La Crosse at that time can testify.

Jack left after the discipline Mr. Levy inflicted, and went down the river. One day, while in Brownsville, he was engaged in a dispute with Job Brown, and, as usual, produced his revolver to enforce any demand he had submitted. Brown failed to intimidate as was expected of him, and Jack, with an emphatic assurance that he would shoot him, anyhow, swung the pistol around his own head, as if to make ready. Before he was able to bring his gun to position, however, the weapon was discharged and the bullet lodged in the brain of the would-be assassin. He fell in his tracks, and died within a short time. His body was buried at Brownsville, but reclaimed, it is believed, by his family, and removed to New York, where it was laid with his brothers. The young woman who had in a brief period passed from maidenhood to widowhood, returned home, and, subsequently marrying a horny-handed son of toil, a tiller of broad acres, passed the remainder of her days amid a peace that ever exists where plenty and contentment are the essential features.

In April of this year, the eclipse of the sun was visible in La Crosse, and occasioned feelings of alarm and solicitude that are now referred to as among the most ludicrous experiences of the times. One of the lady residents sat in her room, confident that the day of judgment impended, and occupied her time in prayer. Her petitions were so earnest that she fell asleep in the midst of them, and realized consciousness to discover the sun shining and the chickens crowing. Most every one in the settlement was badly frightened, and the ridiculous scenes that were presented are said to have been both numerous and overwhelming.

As the year advanced, the arrivals were more than occasional, and some attempts at improving the place made. These were more prospective than completed, however, and it was not until the year following that they took definite shape. The new comers were, of course, promiscuous in character and unsettled as to their movements, while not a few of them were by no means desirable acquisitions to the place. They were consumers exclusively, and levied for contributions upon the resources of producers. As soon as their object was discovered, they removed elsewhere.

Among these objectionable classes, horse-thieves were by no means few, though they never to any extent trespassed upon the stock of settlers about La Crosse, confining their operations, as a rule, to the horses of the Indians, who, it will be remembered, returned hither from their reservations for the third time this year. These depredators were unblushingly bold in their conduct, and frequently made overtures to citizens to join with them in their nefarious operations. "We'll accuse you if we're caught," they would say; "there's money in it, and you might just as well have the game as the name." But they enlisted no crusaders under their black flag of theft and murder; and as the settlement began to assume the proportions of a village they were weeded out by public opinion and the enforcement of the law. While in existence, they fulfilled their threats and saddled the theft of missing horses upon parties who were guiltless. In one instance reprisals were made by those who suffered at the hands of the band, but upon ascertaining the facts, as was soon after done, those who had been imposed upon admitted the innocence of those accused, and, so far as they were able, returned the property seized by way of compensation.

The question which will naturally suggest itself, Why was this state of things permitted? is answered by reference to the time, place and circumstances under which the people lived. Society was not even in a transition state. There was no law, council or judiciary. Man was a law unto himself, and carried his life in his hand for any one to peck at who could get the drop. If a man was injured by his neighbor, traverse juries were not accessible, and no one ever thought of appealing to them. The disputed point was adjudicated by the parties immediately to be affected, and the arbitrator was a weapon or test of strength between the contestants. Only those injured sought redress; and as long as the thieves refrained from attacking the property of residents, they were not apprehended.

As a result of this condition of things, fights and brawls, while not an every-day amusement, were of frequent occurrence. On days when the village was more generally visited, on election days and days apportioned on the calendar for feasts or celebrations, the squabbles which in many cases are bred of liquor, were neither few nor bloodless; on the contrary, fierce and constant.

An instance will illustrate the case as it existed. On election day, in the fall of this year, a day so cheerless and chill that fires were indispensable, and warm drinks very acceptable, a party, including "Scots" Miller, old man Reed, of Reed's Landing, Bill Bunnell, Napoleon Frank, the exile for a theft of flour some years previous, and one or two others, congregated at Levy's Tavern, and over a roaring fire and bowl of methylin, recounted each his ideas and beliefs of the times. It seems that "Scots" Miller had made himself obnoxious to one or more of the party, on a former occasion, and availed himself of this opportunity to not only intensify it with those previously offended, but antagonize the remainder of the company. This could not be endured, and after the exercise of a commendable patience, they told him if he didn't cease they would throw him in the fire. "Scots" declined either to "simmer" or "sizzle," and defied their efforts. But the company were in earnest, and evinced the character of their intentions by picking him up bodily and thrusting him upon the coals. He struggled manfully, and releasing himself from the grasp of those who held him, attempted to escape. In this, also, he failed; and, yielding to the force of superior numbers, was again launched upon the burning log. By this time it began to look serious, and "Scots" fully comprehending that there was no trifling in the business, once more sought to escape, and failing, was once more subjected to the influences of flames that were penetratingly painful in their effects.

The noise made by the crowd attracted the attention of others in the house, who hastened to know the cause and witness the spectacle recited. Mr. Levy, with the assistance of one known as "Old Mack," interposed before the salamander qualities of "Scoots" had been more than thoroughly tested, and interposing in his behalf, with entreaties and promises, secured the release of the victim and escorted him home.

This incident is a fair type of those which occurred in La Crosse thirty years ago when disorder would have been preferred to the quiet and peace which has become more supremely regnant with each succeeding year since the settlement was begun, since the memorable phrase "go West, young man," has been changed almost from a malediction to a beneficent recommendation.

The arrivals of 1850, as already stated, though not numerous, were of the character and influence to teach the world outside the limits of La Crosse of the fair land here to be found. Of the land which for years was known only to the Indian tribes, adventurous Frenchmen, friars and priests, who wandered in at occasional intervals to locate trading posts and church sites, or to trade with and proselyte savages. Those who had come before 1850, accomplished much to recommend the country, and that their labors had not been without results was evident when Wisconsin was wedded to the Federal Government as a State, with La Crosse County as one of her choicest marriage gifts. But those who came after, were not slow in advertising the advantages to be found in a commonwealth which has since shown its ability to nourish an almost unlimited population, whose climate is regular and seasonable, whose soil is fertile beyond estimate, and the monotony of whose landscape is broken by streams and rivers that have wandered for miles in and out among the bluffs and coolies, until they are lost in the broad bosom of the Father of Waters which bears them to the sea. In earlier times, it may have been a by-word and reproach; in later days, it has become a glory and a boast. Among those not to be forgotten, who came in this year, was Joshua Ridgley, who settled in the town of Campbell on the north road between La Crosse and West Salem.

A YEAR OF REAL PROGRESS.

Taking 1851 as the first year of vigorous effort toward, and progress in building up La Crosse, the endeavor is ventured to preserve the list of persons who were identified with the county and city previous to and during that year. The list is not long, but embraces N. Mvriek, J. M. Levy, H. J. B. Miller, Peter Cameron and John Garrett and families, also Peter Burns, D. D. Cameron, Timothy Burns and possibly one or two more, besides a few farmers, lumbermen, mechanics, etc., whose names have already been mentioned, and who settled in the country then, as now tributary to the city. The list of residents known to have been here in 1851 compared with that of the beginning of 1854, showed conclusively that during the years 1851-52 and 1853 all went lovely, as the number of families rose from about half a dozen to about half a hundred, besides about thirty-five single men and women. So far as can be ascertained, the names included on the first list were as follows: Lieut. Gov. Timothy Burus, Mr. Beardsley, Frank Baker, Eliakim Barlow, George Carleton, Hugh B. Callahan, J. R. Cowdrey, the Rev. W. H. Card, Ebenezer Childs, Valentine Dunninger, Adam Doerflinger, Sr., A. Eldred, Joseph Ebner, Anson Ferris, Edwin Flint, George Gale, James Gallagher, William Hood, Benjamin B. Healey, George W. Havens, Samuel D. Hastings, Nicholas Hutzgen, John Halvorson, Simon Kellogg, Robert Looney, Albert D. La Due, Abram Looney, William G. McSpalden, Jacob McCreary, William McConnell, Mr. McDowell, James W. Polleys, Benjamin W. Reynolds, Francis W. Reynolds, Francis Manville, Francis Rublee, Ohio Simpkins, Norton R. Smith, Orrin L. Smith, the Rev. John C. Sherwin, Samuel T. Smith, Sylvester Smith, Cyrus B. Sinclair, Thomas B. Stoddard, Chase A. Stevens, Morgan M. Taylor, David Taylor, William Whelpley, Enos P. Williams, G. H. Wilson and their families; also Messrs. Anderson, Milton Barlow, Walter Brown, A. W. Barron, Henry B. Beardsley, Samuel Baumgardner, Howard Craner, H. B. Crookston, William Fales, Michael Hart, Edmund Hart, S. C. Johnson, Justin Jacobs, John McMillen, M. M. Manville, F. A. Rublee, W. Suchfle, David Wright, H. N.

Solberg, William Bennett, G. W. Haven, Samuel Weston, E. S. B. Vail, Lawyer Janson, Mr. Patterson, J. R. Crossette, Ole Knudson, D. S. Harris, and a very few others unmarried whose names could not be accurately ascertained.

In April of this year, B. F. Colburn identified himself with the county, coming from Massachusetts for that purpose, and locating in the present township of Burns, where he entered 160 acres of land, and planted five acres to corn and potatoes.

In the summer following, a party of Swiss, who had previously settled in Sauk County, changed their base by moving to La Crosse, and established themselves in the section of the county now comprehended within the limits of Bangor Township. Among those who came in first were Joseph Wolf, John Bosshard, Florian Reudy, Christian Reudy, Michael Darms and Joseph Summerson, a portion of whom settled on Dutch Creek, the remainder in nearer proximity to the village.

Beside the above, there were several persons out buying lands or engaged in business in the immediate vicinity of the present city, including John Clark and his sons, Thaddeus and P. L. Clark, H. J. Peck, Phillip Young, and John and Charles Nagley, already referred to; Orange Smith, R. C. Van Rensselaer, Eustace L. Brockway, Abram Pruett and Mrs. Markle, Byron L. Viets and others, who visited La Crosse frequently, as also did Jacob Spaulding, Hugh Douglass, Thomas Douglass, Mark Douglass, William T. Price, W. J. Gibson, James O'Neill, Col. Chase and Mr. Decker, the latter coming from Black River, in the interests of the lumber business, in which they were engaged. Now indeed did it seem that the county was to be built up in earnest, and travel the highway to success it has since attained. During the month of April, Mr. Levy states the people came in very fast. The hotel and houses appropriated to hotel uses by the exigencies of the occasion, were crowded to repletion. People came in wagons, canoes, by river, prairie schooners and stages. The cargoes of settlers borne hither were "multitudinous" and miscellaneous, and often contained metal decidedly not adapted to the times or the country.

In the stage which bore John Clark hither was a passenger of "quality," who despised the primitive ways of locomotion in use, and the arduous exercise the travelers were often subjected to, that distance might be put between the place of departure in the morning and terminal point at night. Several times daily the passengers were compelled to alight and pry the coach out of the mire, in which the horses, after vainly struggling to extricate the vehicle, cried quits and awaited the logic of events. The gilt-edged speculator, upon each succeeding "stalling" of the team, and, when his fellows combined to aid in making a fresh start, remained in the stage solemn as an undertaker and mulish as his quadrupedal prototype. This was borne during one day, and when Mr. Clark retired that night, he sank to rest with a well-defined determination that if the coach came to a halt and required his assistance to proceed, the fastidious fashionable would have to descend from his high estate and lend a hand.

The following morning the conveyance had hardly begun its weary routine when one of the wheels lodged in a "chuck hole" and evidenced an inclination to remain. All were called upon to lighten the weight of the stage, to which all but the Jonah of the trip responded with alacrity. He remained at his post, and, upon its being hinted that the passengers were becoming somewhat shorn of their patience at the selfishness displayed by him, he replied in a vernacular peculiar to the times, "that he'd be —— if he would."

"Well, you will," said Mr. Collins.

"I'm —— if I do and no one can make me," was his replication.

This was the final stroke which settled dispute, and dropping adjectives for force, Mr. Collins reached into the stage and drawing forth the obnoxious prospector, dropped him into the mire with the ease and complacency of a Samson bearing the Gates of Gaza. When he emerged from his bath, he was not only a sight to behold, but as plastic to manipulation as clay in the hands of a potter.

The character of men was made manifest in these troublous times, and if it contained the element of selfishness or covetousness, these features were but once expressed and never repeated.

In the hotels observers are familiar with the situation: there may have been preaching in one room, swearing and drinking in another, and excitement in all. The new-comers seemed to take no thought for the morrow, and lived only for the present. And here is as good an opportunity as will occur to speak of two of the prominent arrivals of this year, one of whom did much to mold public sentiment, conserve public morality and leave a reputation that will ever be associated with La Crosse County.

Judge Gale and Chase Stevens are referred to. The former was the founder of Galesville University in Trempealeau County, which place became his residence during the memorable term of his Circuit Judgeship. He is represented to have been a tall and large-framed Vermonter of great natural endowments of intellect, with will-power and executive ability, which made him a formidable adversary or a useful friend. He aimed to achieve good, and his efficiency was everywhere acknowledged, but his blunt and harsh ways seemed, it is said, to extinguish the ordinary powers by which men accomplish their ends.

No one ever doubted the correctness or purity of his motives, but many objected to his uncompromising disposition and savage logic. It would perhaps be proper to say that he was almost intolerant in his sense and administration of justice, either on or off the bench. Judicious lawyers understood the consequence of incurring his serious displeasure, and usually avoided that calamity. He was a strong man, with strong purposes, strong attachments and strong aversions; and when he decided war against a man he made the fur fly. He struck boldly, and caused his friends to join in what might be termed an "anvil chorus" when he gave the time for "music from the entire band." His devotion to the excellent educational institution at Galesville, now flourishing under the presidency of Prof. J. W. McLaury (who was the first man to shake up the citizens of La Crosse to the necessity of greater efficiency in the public schools), did not permit any of his friends to lose an opportunity to contribute to the success of his favorite enterprise.

The Judge never allowed the bar to "eram" him with spurious, irrelevant law and precedents to influence his decisions, and sometimes unceremoniously disputed the authorities cited by counsel. It is related that upon one occasion, while Judge Gale was holding court at Viroqua, Bad Axe County, Attorney William H. Tucker (father of the famous American vocalist, "Blanche Roosavella," or Blanche Roosevelt Tucker), of La Crosse, tried to "eram" the court with irregular citations, and came to grief thus:

Tucker—Your Honor is familiar with the laws and decisions quoted?

The Judge—The Court has no knowledge of them.

Tucker—They are as related.

The Judge—I disbelieve the statements.

Tucker—What I stated is true.

The Judge—It isn't.

Tucker—It is.

The Judge—Bet you \$50.

But Tucker was equal to the occasion, and, after realizing his discomfiture and defeat, rallied himself and caused irrepressible explosions of laughter and applause among the crowd assembled, by deliberately thrusting both hands in his pockets and remarking slowly, "I back down; your Honor has oversized my pile."

Col. Chase A. Stevens, who was in 1854 elected as a Representative of the counties of La Crosse, Buffalo and Chippewa in the Legislative Assembly of 1855, was also one of the pioneers who came in this year, and was far from being an easy man to baffle. His resources and strategy are said to be manifold and unfathomable. But his faults shall not here be narrated, the purpose being merely to confirm and establish the premises above ventured, that in those early days of La Crosse pioneers there were men whom it was not safe for shallow-pated adventurers to trifle with; and, in grouping the leaders of the conflicting forces, the wish is expressed to place the reader in possession of points that will convince him there were wide-awake men on guard.

Col. Stevens, say those who knew him intimately, will never be duplicated in this world. He was the son of a clergyman and born in Maine. He was an uncommonly handsome man, of commanding appearance, fully six feet tall, of about two hundred pounds, with black and glossy hair and beard, a fascinating eye, and a laugh that could be heard for a long distance. He was as subtle as lightning, and when he seemed to be most frivolous, he was doubtless concocting some of his severest plots. His putative or principal place of domicile was at the south end of Sixth street, being the property now owned and occupied by the family of the lamented ex-Mayor Colwell, who laid down his life for the Republic while leading the immortal Light Guard in the battle of South Mountain. His residence was here, but he was ubiquitous, and the stories that are told of him and his capacity to enlighten, edify and astonish, almost to paralysis, the populace, are wonderful, not to say incredible.

He left La Crosse during late years, and, after an absence of some months returned here, but so perfectly disguised in the garb of a Quaker as to defy detection, and for a fortnight "thead" and "thoued" old-time acquaintances with a familiarity that bred surprise and curiosity. Finally, his laugh betrayed his identity and abandoning the comedy, he disappeared and has been in La Crosse but a limited number of times since. He died in May, 1881, in the city of Baton Rouge, La.

ORGANIZATION OF LA CROSSE COUNTY.

In February of this year, a bill was adopted by the Legislature of Wisconsin, providing for the division of Crawford County, and the organization of La Crosse and Bad Axe Counties, the former to be constituted out of that portion of Crawford County lying north or west of the limits of Bad Axe County, which was described as follows: Beginning at the northwest corner of the county of Richland, thence running south on the range line between Ranges 2 and 3 west, to the northeast corner of Section 24 of Township 11, north of Range 3 west, thence west on the section line to the boundary line of this State, in the main channel of the Mississippi River, thence northerly on the boundary line of this State in the said river to the point of intersection of said boundary line, and the township line between Townships 11 and 15 north, thence east in said township line to the northeast corner of Township 11, north of Range 1 east, thence south on the range line between Ranges 1 and 2 east, to the southeast corner of Township 13 of Range 1 east, thence west on the township line between 12 and 13 to the place of beginning.

The act further provided for an election for town and county officers to be holden on the first Tuesday of April next ensuing, for the location of the county seat at La Crosse upon condition that the people furnished suitable buildings, and for other purposes of minor importance.

Accordingly, an election was held at the time designated, when there were thirty-six votes polled, with the result as follows: Timothy Burns was chosen Chairman; Lloyd L. Lewis, Supervisor; C. A. Stevens, Town Clerk; Robert Looney, J. Bean and James Reed, Justices of the Peace; Lodowic Lewis, Treasurer, and Lorenzo L. Lewis, Town Superintendent. At this time, as has already been noted, La Crosse County embraced the present counties of Jackson and Trumpealeau, and was of immense dimensions.

Immediately upon the organization of the county, the town of La Crosse was surveyed by William Hood, a surveyor who had settled here late in 1850, or early in 1851. The original plat was made on land owned by Timothy Burns and H. J. B. Miller, and now constitutes the most valuable portion of the city, being comprehended within Fifth, River and Mount Vernon streets and the Mississippi River. There were originally 31 blocks and 296 large lots. While the survey was in progress, Levy, La Due, Stoddard and Cameron, foreseeing that La Crosse was at some time in the near future destined to become a large city, endeavored to procure an extension of the streets then being laid out down through their claims, and thus make, at the beginning, a village of straight streets, with some system, and suggesting the river front, he vacated for lease purposes. But Burns and Miller decided to plat their own land only, leaving petitioners to lay their claims out as additions to the original plat. This fact gives the reason for whatever lack of symmetry there may seem to be in the surveys of some of the streets.

In April occurred the first fire in the county; the first case of cholera following in June, and that succeeded by an election of county officers in the course of the summer.

The fire was the result of a defective flue—of late years the inevitable cause cited by experts in their efforts to solve the mystery of a conflagration when no other explanation could be framed—located in Mr. Levy's domicile, and extinguished by the help of those attracted to the scene, with water-buckets and pails, before the loss was irreparable. As it was, the roof was charred and the interior defaced; but these deficiencies were at once made up, and the hotel continued as attractive as it had been when alone in the wilderness.

The first case of cholera occurred in June, Mr. John Collins being the victim. It was at the time of Mr. Levy's building his frame house adjoining the hotel he had put up in 1847, and where now stands the International. The weather was excessively warm and sickly, and no surprise was manifested when Mr. Collins was taken down, though it was not anticipated that his attack would result in cholera. Through the day Mr. and Mrs. Levy, who had seen some of the phases of the disease while it was epidemic in the United States four years previous, suspected the malady was gravitating in that direction; directed the treatment administered so as to harmonize with that recommended when the cholera had been the result of medical diagnosis. Their patient, however, seemed not to rally, but rather to grow worse. "The medicine didn't seem to operate," remarked Mr. Levy, when detailing the symptoms and process employed to afford relief. "In other words, the attack was so violent as to be beyond the reach of medicaments appeared to us all." Nevertheless, stronger medicines were applied, and after a critical period, continuing until daylight of the morning after which he was taken, the patient perceptibly improved. About 2 o'clock in the morning, those having him in charge noticed that his shoulders and spinal column were very much discolored, and made up their minds that he was beyond the reach of mortal help. Notwithstanding which, he was cared for all the more solicitously with results both gratifying and permanent, as was evidenced when Mrs. Levy, who had retired late at night, resumed her watch. He ultimately recovered under careful nursing; but the effects of this terrible experience were visible during his life time, and he attributed his recovery, as do the surviving members of his family, to the treatment administered by and the attention of Mr. and Mrs. Levy.

The case created some excitement among the inhabitants of the town, yet no panic followed as would be the case in thickly settled communities. But in those days men, and women, too, for that matter, were calloused to fear and insensible to circumstances that would to-day be regarded as critical. The type of men and women who flourished in the early history of the West were radically different from those who came after, in many instances; more of bone and muscle, and less of superfluous matter than possess types of succeeding generations; more of genuine gold and less of gilt; more common sense and less of sugar candy. As communities are built up and their influence is extended, they become wealthier and thereby educate an effeminacy which is expressed in the deterioration of the energies, capacities and endurance of those who are directly benefitted by these pecuniary accretions.

The case of cholera was soon forgotten in the rush of events, to be remembered only by the beneficiary and his relatives, and the election came on, resulting in the choice of Timothy Burns as Judge of the County Court, William T. Price as Register of Deeds, Clerk of the Court and County Treasurer, and Robert Looney Clerk of the Board. The officials had scarcely qualified before the regular election, provided for by the act organizing the county, to be held in November, took place, with the following result: George Gale, Judge; A. Eldred, Sheriff; F. M. Rublee, Treasurer; C. A. Stevens, Register of Deeds, and Robert Looney, Clerk of the Court and Clerk of the Board.

On the 11th of November, the first meeting of the Board of County Supervisors was convened, the Town Supervisors having met during the summer in the frame building then in progress of building by John M. Levy. At the latter meeting Wyram Knowlton was the Chairman.

The meeting held in November was composed of Timothy Burns, of the town of La Crosse; J. Spaulding, town of Albion; Charles Whipple, town of Pine Valley. Robert Looney acted as Clerk, and the proceedings were as follows:

On motion of T. Burns, Jacob Spaulding was nominated and appointed Chairman of the Board of Supervisors in and for said county of La Crosse.

No. 1.—F. M. Rublee & Co.'s bill, for blank books allowed.....	\$2 50
No. 2.—Thomas McDowall's bill for boarding transient pauper, and taking care of him three weeks and one day, allowed.....	9 25
No. 3.—S. C. Johnson's bill, for medical attendance on transient pauper presented for \$9, \$9 allowed.....	5 00

Adjourned until 8 o'clock A. M. in the forenoon of November 12, 1851.

Met pursuant to adjournment.

By order of the board hereby order that there be levied on the assessment rolls of the several towns of La Crosse County, three mills on the dollar for a State tax on the dollar valuation, and two mills for school tax, and five mills for a county tax.

Valuation of the assessment roll of the town of La Crosse.....	\$28,969
For State tax.....	71 90 07
For School tax.....	47 93
For County tax.....	117 84

Ordered by the Board of Supervisors that the Clerk of said board use one cent as stamp of said county. The board proceeded to select Grand Jurors. Names selected: E. W. Jenks, John Jones, A. M. Hill, C. E. Johnson, James Sikes, Joseph Clancy, Gilbert Congden, M. P. Bennett, E. Broadhead, B. F. Huston, Hugh Wedge, George Nichols, James O'Neal, Joseph Stickney, John Lewis, Paul Under Chandler, David M. West, William Douglass, Chester Frost, Hugh Douglass, Milton Barlow, William Gillingier, W. N. Hall, Thomas G. Patterson, A. D. La Due, John Adams, D. Reed, Cyrus Sharpless Aaron Merrinon, William Humpstock, William F. McSpadlin, Charles A. Segar, John Dale, C. N. McKeozie, Robert Wilson, Wilson Bower, William Jones, Romeo Postwick, R. A. Grilley, John C. Laird, James W. Follie, J. T. Chapman, James Rogers, John Johnson, George Chester, John M. Levy, George Bitchelder, J. B. Bean, Peter Burns and H. C. Grover.

The board proceeded to select Petit Jurors. Names selected: Charles Whipple, Job Miller, William K. Lewis, Joshua Glendon, Joseph R. French, B. W. Reynolds, William F. Pettit, F. W. Curtis, Daniel Gordon, O. S. Hallbrook, John M. Garlick, Thomas Padlock, John McLane, H. W. Biekoeks, Luther L. Lewis, William H. Fingham, W. H. Kellow, John Campbell, Michael Tralls, Thomas Leonard, Gustavus Neoli, N. B. Fish, Thomas McDowell, Byron Viets, E. E. Case, Nelson B. Gilbert, William Nicholls, James Garrett, W. Gladieu, B. F. Johnson, Russell Hill, Thomas More, William Hood, Luther Wilson, Z. E. Chapman, John Meek, W. W. Bennett, G. W. Warren, C. B. Sinclair, Albert Tuttle, W. M. Hewitt, Luther A. Jones, Mathias Richmond, Benjamin P. Wright, A. M. Weeks, William Moor, Robert Holmes, James Rose, Benjamin McAlister, Charles F. Garner, John Lee, William Dec, J. M. Marcon, Thomas Sturges, Thomas Hart, Samuel Culey, E. W. Dexter, William T. Price, C. B. Kimball, E. Gordon, Abram Looney, Henry F. Wood, R. H. Bowen, J. Jackson, Joshua Brigeley and C. W. Blake.

The first official order is as follows, in the minutes of proceedings of the Commissioners.

ORDER BOOK.

November the 11th, A. D. 1851. F. M. Rublee, Presented A Bill For Two Blank Books which was allowed—
(Two Dollars & Fifty cents).....\$2 50

The credit is thus given:

Order No. 1 canceled Nov. 25, 1852 Issued to F. M. Rublee & Co., \$2 50. Received Nov. 17, 1851 County
Order No. 1. F. M. Rublee & Co.

From the foregoing it will be apparent that condensation rather than style was preferred; and with regard to the chirography, expedition rather than elegance was sought to be obtained. It is scarcely necessary to add that both desires were conserved to the wishes of those interested, and the record throughout bears evidence of the absence of supererogation and impromptu gush.

The conception of La Crosse County, accomplished near a decade previous, was born in the early days of this year, and under the tutorage of men to whom the infant was intrusted, attained wonderful growth and strength before the falling leaves forced the pioneers from pursuits of enterprise, to seek comfort and arrange plans over the winter's log.

In April of the year when the county was brought forth and introduced to an admiring constituency as an independent sovereignty, there was not to exceed five families, consisting of less than thirty persons. The mercantile interests, it is said, were represented by two small shops, neither of which appeared to be burdened with customers. The surrounding country was an uninhabited wilderness, from which the Indians had just been exiled, and in which beasts of prey still predominated. Here and there perhaps was to be found a solitary settler, isolate,

but ambitious of trying new fields. It was then a point of transition from barbarism to civilization, and in the village of La Crosse, the very foundation of all those moral, social, literary and religious institutions peculiar to Christian countries were yet to be laid.

To new-comers, the situation appeared inversely as compared with its appearance to those who had conquered a success there after years of patient waiting; and to one who had been surrounded with social and educational advantages yet to be enjoyed in La Crosse, it was like making a home on islands of ice and amid polar snows. Yet to these agencies, acting in conjunction with the earlier pioneers, came the immediate prosperity which followed the wonderful advance made this year, and the pleasing and encouraging outlook for succeeding years, be directly traced. Through their influence and exertions, a rapid change was manifested in the entire aspect of things. The population steadily increased, improvements were made, a code of morals established by the religious and scholastic element took the place of right as the result of might, and produced effects differing from those caused by fear, as the sunshine of a day in June differs from a killing frost.

THE COUNTY SEAT.

The conditions under which the county seat was located at La Crosse were that suitable buildings be erected without delay. But the truth is there was no other point which could be so designated. Settlements were limited to the village save, as already indicated, on farms which had not yet become productive. Yet there was necessity for buildings to accommodate the growing population, to accommodate public meetings, to provide ways and means for religious observances and educational privileges. To supply all these wants and to conform to the provisions of the act of organization, it was decided this year to erect a court house, and a court house was erected that remained a monument to their ambitious and architectural ethics for nearly twenty years.

It was constructed of lumber procured on Black River (all lumber was obtained from the lumber regions which then bordered and still line that stream of peculiar color and eccentricities, creeping its way at times sluggishly from the north, until it empties into the Mississippi at its confluence with the La Crosse), late in 1851. The design had been prepared though, and when the material was delivered, little delay was experienced in putting it into shape, raising the frame and having it safely covered before winter. Work was continued on it during the succeeding weeks with such advantageous results that a school was opened therein by Abner S. Goddard soon after the holidays. The court house was 26x36 in dimensions, two stories high, and became the scene of many an adventure and other experience that should have been preserved for posterity. It was proposed and completed by men who have not passed entirely beyond the memory of some who still survive, and who will be preserved in the history of that city on the banks of the inland sea, the waves of which glide onward to the ocean, as long as the city continues.

Among the other improvements were houses and shanties put up by F. M. Rublee and Deacon Smith, on Front street; a hotel (the Black River House), by William McSpaldin; a shanty by Timothy Burns, on the present site of the Mills House; shanties by Howard Cramer, C. A. Stevens, Mr. Manville, Mr. Fuhr and Dr. White, all on the prairie; Elder Reynolds had a shanty near where the Third Ward School now is; Robert Looney where Deacon Smith now lives; D. C. Evans kept store on the present site of the Robinson House; J. M. Levy in a new building on a portion of the lot now occupied by the International; Deacon Smith and F. M. Rublee on Front street, which comprised the stores; George Howard furnished medicines and filled prescriptions; the second story of Smith's store was sometimes used as a church; Dr. White attended diseased humanity and carpenters fashioned the coffins of those beyond the reach of medical skill, after which they were interred in the churchyard where Hershheimer's foundry now is.

The spring of 1851 witnessed the arrival of the first Norwegian colony who came to La Crosse. It was composed of H. N. Solberg, John Kjos, B. Stern, Lars Olstad, Lars By, Hans Gunderschwein, O. Nelson, Paul Tallifson, Ole Tallifson, Lars Straus, Christian Hulburg, G. Orwood and one or two others. They came by the way of St. Joseph's Ridge, and reaching

here on the 10th of May settled, many of them in Bostwick's Valley, where they grew in prominence. Their medium of travel was by ox-teams, and the only way they were able to descend the bluffs was to unyoke the steers and let the wagons down with ropes. This incident impressed many of them with the peculiarities of a situation, which, to say the least, was inconvenient. Not more so, however, than that of H. N. Solberg, who soon after went down the river, and upon his return boarded the Dr. Franklin, No. 2. Capt. George Loughton, subsequently a resident of Platteville, and was obliged to go without food until J. M. Levy, who was a passenger, ascertaining the fact to which Solberg had been subjected, insisted upon his being admitted to the cabin table, and obtaining what he wanted. Had it not been for this, Solberg to-day asserts, he would have starved, as he was a deck passenger, and unable to obtain any food or comforts.

In this same year, Levy erected a house on Front street, south of Pearl, which has, metaphorically speaking, survived an experience in comparison with which that of Japhet in search of his father was tame. In this was held, it is claimed, the first Sabbath school ever assembled in La Crosse, and here the earnest but somewhat profane Deacon Johnson was wont to lead in prayer. "Hear us, O Lord, for the sake of the promises Thou hast made, hear us, we beseech Thee. Come right in upon us." He would continue, "Come straight down through the roof, and I will pay for the shingles;" and so on.

Upon one occasion, the workers in the vineyard gathered there were prone on their knees at the opposite end of the bench, and failed to connect when the conclusion was reached. As a result, the bench, yielding to an unexpected weight, tipped the prayerful occupants onto the floor very unceremoniously, causing unexpected hilarity and expression of pain from those who had been precipitated, mingled with expressions of what are represented to have been profanity both original and emphatic.

Upon another occasion, Deacon Johnson was arrayed in faultless style, compatible with his Christian character on the Sabbath, prepared to attend divine service and lead in prayer to the Giver of every good and perfect gift. While putting the finishing touches on his irresistible toilet, he was suddenly interrupted by the announcement from his son that some coal pits he owned, and then being on the lot now occupied by the Commercial Hotel, were on fire, and could scarcely be saved. Thereupon, say those who are familiar with the facts, he abandoned preaching and began to swear so elaborately and, at the same time in a manner so finished, as to leave a doubt in the minds of his hearers as to which he most excelled in, praying or profanity? — he would say this is the ——— streak of luck I ever had. "Good Lord forgive me for my sins and wickedness in thus taking Thy Holy Name in vain———. I'll be —— if I can heed it—but O Lord deliver me" and so on, to the amusement and curiosity of a generous sized audience.

In this house was given the first theatrical representation ever advertised to take place in La Crosse. The play was a domestic drama, it is said, of the most original type, and assumed by a company of actors of which C. T. Langrishe, an actor of prominence in those days, and brother-in-law of John Dillon, was the manager. The audience is said to have been critically select, the performance fastidiously choice, and the equipments, mountings, etc., such as were never before, if ever since, displayed in the cause of Melpomene or Comus. The old house still stands; once the resort of the *élite*, it has become the abiding place of depraved bacchanals, and where once the name of God was revered it is now taken in vain.

This year a road was laid out from the river above the town running up the valley twenty-seven miles to William Pettit, the present site of the village of Sparta; the mail was carried weekly from Prairie du Chien to St. Paul by Reed & Shanfur, and in December, a division of the Sons of Temperance is said to have been instituted, consisting of ten members with W. W. Ustick, W. P.; Corydon Beuzigton, W. A.; Joseph K. French, R. S.; J. G. McCatheron, the minor offices being filled by James Gallagher, Samuel D. Hastings, W. Sutcliffe, O. Simpkins, B. S. Reppy and R. H. Powell, respectively.

On Christmas Day, 1851, the inhabitants of La Crosse and vicinity engaged in a turkey shoot on the Mississippi River opposite the village, which was universally participated in and

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the occasion of unlimited sport. Mr. Levy sustained the loss of all his turkeys, but who won the several prizes contested for, and what they consisted of, have been lost to memory.

In the evening occurred the first grand ball that varied pioneer life in the present city. It, too, was a state occasion and generally attended. Among those who were present to pirouette, chaisez and dance the "monnaie musk," were Misses Emily Carlton, Julia Beardley, Margaret and Mary Burns, Susan De France, Mary and Alvira Kellogg, Mary Smith; Messrs. Robinson, Clark and Gear; Mr. and Mrs. Jacob Spaulding, on their bridal trip from Black River; Mr. and Mrs. Smith, Mr. and Mrs. J. M. Levy, Mr. and Mrs. Brooks, Mrs. Lieut. Gov. Burns, Mrs. Miller, Mrs. George Carlton, among the ladies; and Joshua La due, Peter Burns, H. Cramer, Mark Kellogg, T. Clark, Dr. Cameron, Mr. Fales, Lewis Johnson, Hillarius Solberg, John C. Laird, John Crookston, H. E. Hubbard, Mr. Gear, a son of Judge Dunn and some others, among the gentlemen.

The music consisted of a violin, which was played by Mr. Brisbois, of Prairie du Chien, and those who were in attendance upon the "assembly," as similar gatherings were, in those days termed, recall it as one of the happiest experiences of their days of frontier life. The palm of beauty was awarded to Miss Emily Carlton, it is said, who was one of the rarest evidences of female perfection seen in this portion of Wisconsin, a State noted for the number of its beautiful women. The dance was continued until midnight, when an intermission was indulged to afford the guests an opportunity to partake of refreshments furnished by the ladies of La Crosse, and served by Simeon Kellogg, at that time landlord of the Western Enterprise Hotel, which had been vacated a short time previously by Mr. Levy to move into his house adjoining, when the dance was resumed and kept up until daylight.

By 1852, the population of the present county was quoted at not far from seven hundred, the major portion of which was, of course, in the immediate vicinity of the present city. Front street, from the point at which Nathan Myrick made the first settlement of the place ten years before, to the present vicinity of the immense flouring-mills, which lines its way south of Pearl street, was tolerably well built up. Back toward Fifth street, which was then prairie, the cabins of settlers who have since become citizens of prominence and wealth, were laid out and some of them built. The navigation of the Mississippi had become regular, and the arrival and departure of steamers of frequent occurrence. Mail facilities had improved, and communication with distant points comparatively easy. Even at that day, a railroad was incubating, and only six years elapsed before the whistle of a locomotive was heard over the plains, which stretch off to an almost limitless extent to the East. Schools were coming to the front, churches were in progress of construction, and all the elements of times not entirely free from deficiencies, were invoked and improvised to complete an advance in civilization that had been begun a decade previous amid surroundings not altogether encouraging.

This year, as also 1853, was prolific of improvements in a physical, moral, social, religious and material sense. Many permanent buildings were erected, among them, the first saw-mill in the vicinity, near the mouth of the La Crosse River, where it was put up by Timothy Burns, F. M. Rublee, S. T. Smith, Willis Gregory and J. M. Simonton. It was two and a half stories high, containing a forty horse-power engine, operating two saws, a lathe and grist-mill, with capacity for cutting 16,000 feet of lumber per day.

On the 22d of January of this year, in the upper room of a two-story building, then situated on the west side of Front street, on the bank of the river between Main and State street, were organized the first Congregational and first Baptist Churches of La Crosse, by the Revs. William H. Cord and John C. Sherwin. Union services were conducted by these congregations, and also by the Methodist, until the summer of this year, when the Baptists built a church at the northwest corner of Fourth and State streets, and withdrew. The union services, however, were continued by the Congregationalists and Methodists until 1854, when the latter built their first church, and the former held services in the old Third Ward Schoolhouse. All of these churches now have commodious edifices, and each sustains a large Sabbath school.

But times were not as serene as these pages might indicate. In the midst of these peaceful and prosperous evidences of growth, the hand of the assassin was busy, and no less than three murders are reputed to have occurred between late in the fall of 1851 and midsummer of 1852.

THE RICHARDSON HOMICIDE.

The first was that of Samuel Richardson, by Andrew Grover, a Deputy Sheriff in the Black River country. Some assert that he was one of the log thieves who overran the country about that time, and, being caught in the act, was stabbed to death before he could defend himself. This at Onalaska.

Another account is that deceased had shot the dog of his assassin, and one day meeting him at Oak Spring, on the Black River, in a house, visited by both, hustled Grover out and bade him decamp. But the latter, greatly enraged, at once resolved to inflict summary vengeance, and, lying in wait armed with a large butcher-knife, sprang upon Richardson as he made his exit from the house, and dealt him a back-handed blow on the front of the throat, the knife penetrating to the hilt. The victim staggered forward a few steps and fell lifeless. An inquest was held, and Grover arraigned, after which he was sent to Prairie du Chien for safe-keeping, being placed in the old fort for that purpose. But he kicked off the shackles and made his escape, leaving behind him the laconic statement, "I must go home to hoe corn, and I will be back when court sits!" The above is an account furnished by A. Eldred, the first Sheriff of La Crosse County; but an old settler asserts that Grover was arraigned, tried, and, in spite of the proverbial delays of the law, convicted and sentenced to Waupun. He was conveyed thither, and died in the shambles before his release or pardon could be accomplished.

THE STAFFORD SHOOTING.

Shortly after the Richardson homicide, a hostler employed at the New England Hotel, but who resided with his wife in a tent on Front street, near the present site of Colman's Mill, one night upon his return home from work, he is alleged to have discovered a man named Chance Stafford occupying a position in the tent to which no stranger should be admitted, and departing, procured a shot gun, with which he returned to the Front street tent. Matters had undergone no change while he was absent, and, firing the gun at the sleeping beauties, he lodged a charge of shot in the shoulder of Stafford. A second shot was fired at the wife, who escaped with the loss of her nightcap fill. Both leaped from the tent couch, the man seriously wounded, and fled in the direction of the river. But they were overhauled, and Stafford was conveyed to Williams' barber-shop, in Levy's block, where he was attended by Dr. McCrary and nursed back to convalescence and final recovery by the Senegambian tonsorial artist. The husband was subsequently arraigned but escaped prosecution, the wounded man failing to identify him.

THE MURDER OF DAVID DARST.

A great many fights and fracas occurred about this time, but on June 3, 1852, one of the most deliberately-planned and cold-blooded murders ever chronicled was committed in Mormon Cooley, which greatly excited the entire community, and came near ending in the lynching of the accused. David Darst, it seems, had at a comparatively early day removed from Galena, Ill., and settled on a claim out in Mormon Cooley. He built him a log hut, and, with two yoke of oxen, was soon in a prosperous condition for a settler of the times. In the spring of the year in which the murder was committed, there came up the river from Galena a young man named William Watts, who had known Darst previous to his removal hither, and seeking him out, proposed making a visit to his friend of former days. After remaining here a short time, accepting the hospitality of his whilom friend, Watts deliberately murdered Darst, and, stripping the body of clothing and valuables, hid it in a plum thicket that occupied a ravine near the house. The murderer dressed himself in the garb of the dead victim of his devilish covetousness, and yoking up the oxen, came into the village for the purpose of disposing of the plunder.

The same day that Watts came out of the cooley, Mr. Merriman, an old bachelor, who had a cabin not far distant, was riding up the ravine on horseback, accompanied by a dog, his daily companion, the keen scent of which detected the dead and decaying remains of the murdered host of Watts. The dog ran into the thicket and thence back to his master, manifesting the utmost concern, and betraying an anxiety that indicated something out of the usual channel. Mr. Merriman finally dismounted, and following the dog into the thicket, was nearly paralyzed and stricken dumb by the horrible sight which met his gaze. There lay his neighbor, stiff and stark and dead, his skull crushed and his throat cut, in the last stages of decomposition, and exuding an odor which was stifling. He at once gave the alarm, and hurrying to the village, startled the inhabitants with the story of what he had seen.

While this condition of affairs was rendering the village a scene of pronounced commotion, Watts was engaged in drinking and carousing, and when he had reached a condition of helpless intoxication, he solved the mystery which had surrounded the crime, and was arrested, narrowly escaping lynching.

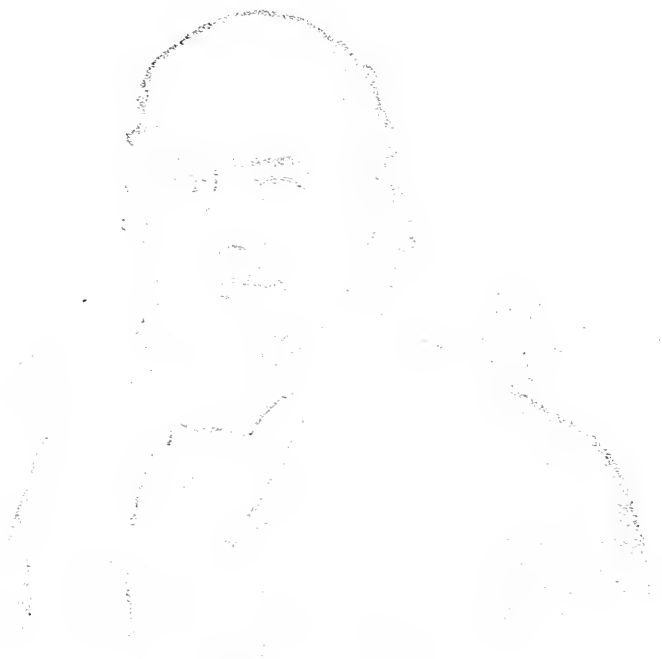
An inquest was held over the remains of Darst, his murderer being obliged to confront the remains, and when moved to stand at the head of the coffin. During the funeral there were a number in attendance who had ropes concealed about their persons, and but for an eloquent appeal made by Elder Sherwin to let the law take its course, and not disgrace the village by mob violence, the prisoner would have been executed.

At that time the court house was finished, but no jail had yet been provided, and the stone basement on Pearl street, between Second and Third streets, was leased from Col. Childs for the confinement of Watts, who was guarded by a man named McSpadden, hired for that purpose. The prisoner was heavily ironed and safely kept for awhile, but the expense was very considerable, and a jail was built for the safe keeping of the prisoner and others who had been arrested for trifling offenses. In its construction the ceiling was made of joists spiked together, and the attic filled with pounded rock, to the end that a prisoner, if he attempted to bore through the ceiling would be deluged with stones. It was not long, however, before the prisoner dug out through the foundation walls, and when his escape was announced the public turned out to effect his re-capture. About midnight on the second day of the pursuit a party of boys engaged in the search heard the noise of some one filing in the prairie grass near Deacon Smith's. The alarm was given, and Watts was re-taken and re-conveyed to jail, where he was heavily ironed. Notwithstanding this, and the further assurance endeavored to be secured by the Sheriff visiting him at all hours of the day and night, the prisoner eluded the vigilance, attempted and escaped once more.

Search was again undertaken, but with poor success, for awhile at least. He could not be found anywhere, and the officers and citizens were about giving up the search, when a stage-driver, who twice a week made trips to Hazens, out on the ridge, discovered that Watts was disguised and acting as a hostler at that place. Upon his return he detailed the whereabouts of the fugitive, who was arrested and brought back, and, obtaining a change of venue to Bad Axe County, was tried, convicted and sentenced to Waupun for life.

The account of Sheriff Elder differs materially from the above; and that no factor or phrase of the horrible crime may be wanting, the statement of that gentleman is submitted substantially as follows:

In the spring of 1852, Watts and Darst came in from Peoria, Ill., to Mormon Cooley, where the latter purchased a claim, on which former assisted him to build a cabin. Before its completion, according to an account of the crime furnished by Watts, he asked Darst for some money, which enraged the latter, who retorted that he (Watts) owed him \$80; that he had kept him poor, and would not rest until he had ruined him. In the excitement of the moment, Darst made an assault upon his subordinate, who tried to escape, but, being headed off at the door and window, neither of which had been closed in, whereupon Watts seized an unfinished ax-helve, and swinging it around in a threatening manner, struck Darst a fatal blow under the ear. Being "then tempted of the devil," as he protested, he killed the murdered man of his money



Milton Barlow

LA CROSSE.

and carried the body part way up the bluffs, near to a point where the two had obtained stone to build a chimney. Upon returning to the house, he yoked up the oxen, and visiting the residence of the Kimball brothers, the three went fishing at the Chipmunk Creek. While driving the oxen, Watts met Mr. Merriman, the nearest neighbor of his victim, who enquired after Darst, with whom he had an engagement to join their teams in some work they had decided it was necessary should be done.

Watts replied, "he has gone away for a few days, and says you are a d—d scoundrel, and wants nothing to do with you."

This pucilil and uncalled for speech on the part of Watts excited Merriman's suspicions, who sought assistance and discovered the body of Darst. An alarm was given, and Sheriff Eldred arrested Watts and the two Kimballs, all three of them very much intoxicated. That night he locked himself, with the three accused, in Chase & Stevens' office, and in the morning the Kimballs were horrified upon being informed of what was alleged against them. They at once proposed to "churn out the brains of that critter," alluding to Watts, but were dissuaded from such an act by the Sheriff, and permitted to visit their families on parole, whence they returned in a few hours to stand trial.

Watts was confronted with the dead body of his victim, but gave no sign of guilt, and a cry was raised to lynch him. This, however, was not done, owing to cooler counsels, and the prisoner was turned over to a Mr. McSpadlen, residing on Front street near the present ferry, who kept him in a room in his house, the outer door of which was made fast by rolling a pipe of liquor against it.

The prisoner escaped soon after, and was not recaptured until the following February, notwithstanding the offer of \$200 reward for his apprehension, when he was retaken by Messrs. Kellogg and Wasson, and immured in the jail which had been constructed in the meanwhile, where he was manacled, shackled and chained to the wall for safe keeping until his trial, which took place in Crawford County, and resulted in his conviction.

The jail to which allusion is here made was a small one-story stone structure, extending four feet beneath the surface of the ground and abutting upon the rear wall of the court house, into which entrance was afterward made. It was not safe, and in after years was succeeded by the present compact and secure building. The account preceding was obtained from Mr. Eldred, who made the arrest of Watts in the first instance.

When the war broke out, Watts received a pardon, conditioned upon his enlisting in the service, which he did, and all subsequent trace of him was lost.

Mr. Darst lies buried in Oakwood Cemetery, where a plain tombstone relates that "David Darst was murdered by William Watts June 3, 1852."

A most singular occurrence attended the end of Mr. Merriman. Just two years from the time in which his little dog was the means of enabling him to discover the dead body of Darst, he went wandering up the same ravine, and fell dead in the identical thicket whence he assisted in removing the murdered remains of his friend. The old man was missed by his neighbors, who instituted a thorough search for him, and, while passing through the little cooley back of the missing man's hut, they encountered his dog. The animal again acted strangely, and scampered off to the thicket as he had done when Darst was missing, then returning and repeating this several times. The searchers finally followed the dog, and were led to the corpse of his master. It was thought that he met foul play, but an examination led to a verdict by a coroner's jury that he had fallen down dead from an attack of heart disease, almost in the form followed out by the body of Darst two years before.

Thus ends the particulars of one of the pioneer murders committed in La Crosse after it became a county—certainly, one of the most cold-blooded and brutal the criminal annals anywhere record, and one whence escape from the usual penalties was comparatively easy. But the frontier settlements even then were too sparsely settled to admit of the expense of a cumbersome system of jurisprudence employed in older settled communities, and the first settlers were always a law unto themselves. But as time passed and the majesty of the law was established,

the practice of holding one's self responsible for his conduct became obsolete, and the redress of grievances was reserved to the courts, those agencies of civilization, and, so equitably have the scales of justice been adjusted, and so irresistibly right have questions arising thereunder been adjudicated, that if it is beyond the wisdom of man to avoid erring in all the affairs of this life, the practice of repetition in evils that have been decreed as such should have been abrogated years ago.

GROWTH OF THE VILLAGE.

In addition to the Baptist Church, court house and jail, built this year, there were other improvements made which carried the village onward beyond the race run by it from the dawn of 1851. The village site then was about eighty-five acres, according to the observations of one who was then here, and possessed no attractions of a character that would be designated as decided without qualifications. It consisted of knolls of sand, deep hollows and an uneven surface generally. The soil was ridged on Front and Third streets, it is said, and depressed on Second street. An empty wagon could scarcely have been driven from the river to Fourth street; a wagon laden it was impossible to move. Land could have been purchased for a consideration, the less valuable the more readily accepted. In fact, many of the tracts that could then be had for almost any sum have since grown to be of priceless value.

There was one feature, however, continues a corner of that year, that was irresistible in convincing prospectors that if they remained the lines of their lives would be cast in pleasant places; and that was the spirit of rivalry manifested by old settlers to welcome the daily arrivals, to whom they rendered numberless kindnesses. If there was one thing that compensated for the inapt appearance of things to the observers in 1851, it was the genial bonhomie, which greeted their arrivals, the readiness of Levy, Rublee, Stoddard, Burns, and the thousand and one other distinguished citizens who offered their hospitalities, their aid, their advice and their protection to whomsoever made La Crosse his place of sojourn or establishment.

As typifying the character of the pioneers, many of those who still survive will recall Samuel Watson, who was always ready to "accommodate a friend" without a scintilla of evidence regarding the obligation; many will remember the encouragement and aid John M. Levy was ready to offer, and which being availed of, resulted in making the beginning of one of the wealthiest lumber men in the Northwest; of the encouragement offered by Elder Sherwin, which laid the foundation for one of the ablest lawyers in the Northwest; of the encouragement of the same gentleman to an ambitious young man who is now doing a business of say \$2,000,000 a year. In the language of Mr. Losey: "The men and women of that period were of broad views, and laid the foundations of this city strong and solid. Their Christianity was governed by no sectarian lines, but was always broad enough to include the hungry, the thirsty and the weary wherever found."

This year John Gund started in an unpretentious way what has since grown to be one of the largest, best-furnished and thoroughly responsible corporations in the West. "The Gund Brewing Company." It was started in a small log house on the site of the office of Colman's Mill, and quite unpretentious in claims or appearance. But as the town increased to a village and grew to be a city, the enterprise here evinced was rewarded by returns that have since increased an hundred and an hundred-fold.

During the year great changes took place. Numerous buildings were erected, the population increased rapidly, and the forces largely augmented by the arrivals of ministers, school teachers, lawyers, merchants, mechanics and steamboats had a tendency to cause an advancement and growth that was readily seen before 1852, drew to a close.

During the latter part of the summer and fall, the first brick house was put up in La Crosse County. It stood and stands in the present city on Front street south of Main, where it was located by Lake & Webster, then liquor dealers, who have since become bankers, was one story high, and in dimensions, 20x40.

In October of this year, a lodge of Masons began working in La Crosse, under a dispensation, under the following officers: Morrison McMillan, W. M.; Solomon Howe, S. W.; J. R.

Crossett, J. W.; Col. E. Childs, Treasurer, and C. A. Stevens, Secretary. Its membership became large and its prosperity has never abated.

The first newspaper—the *Spirit of the Times*—was launched on the journalistic tide this year; the New England House was commenced; the Clerk of the County Court absconded, and H. C. Hubbard was appointed to fill his place; Simeon Kellogg was appointed Postmaster, and very many other incidents of minor importance contributed to the sum of life in the vicinity.

During this year the number of deaths are stated to have been twenty-one, in addition to some seven or eight, who died within a short distance of the village. Of the former number, ten were adults, and eleven children, varying in age from three months to ten years, and of the whole number twelve died during the month of July. Notwithstanding this unusual mortality, and the fact that the summer was peculiarly unfavorable to health, the progress of settlement, and the general physical prosperity of the county was considered as highly satisfactory. A good beginning had been made in various parts of the county with regard to permanent settlement, and the agricultural resources had been found to be rich in promise to the hand of industry. In addition to these advantages, the pineries were then, it is claimed, even with the disadvantages of a new beginning, yielding a richer reward for an equal outlay of money and labor than did the gold mines of California.

In short, the year had been productive of much good; the value of its blessings were carefully estimated, and it was the knowledge of their existence here that attracted inhabitants hither of moral and intellectual character, giving a higher and more healthy tone to society, and fostering every scheme for the public good.

Among the prominent citizens who came in during 1852, and have since been directly or indirectly identified with the growth and progressive advancement of the city and surrounding country, were George Howard, George Scharpf, Dr. Nicolai, Adam Ekle, Mr. Blohmer, P. Clark, T. Clark, Andrew Pfflner, J. C. Fuhr, M. F. Hubbard, Alexander McMillan, Benjamin Simonton, John Simonton, Benjamin Brower, a dentist from Ohio; Dominic Jehlen, Amos Elliott, Nicholas Weber, and some others whose names have escaped the memory of infants.

Still, the people were dependent for supplies upon Galena, Dubuque, St. Louis and points generally down the river. The mill of Burns, Simonton & Co., furnished flour and commodities of kindred character, and when difficulty was experienced in their procurement there, consumers had recourse to the mill at Prairie du Chien. The year closed without either accident or incident worthy of mention, and the advent of 1853 was welcomed with appropriate salutations.

The spring of 1853 was early in its arrival. The roads through woods and plains were earlier available for travel, and navigation was resumed the latter part of March. The streets of La Crosse were filled with strangers attracted hither—some to engage in legitimate business, some to embark in speculations, and others to continue their explorations into the lumber regions of the Black River country. New stores and warehouses had been contracted for, or were in progress of building; the saw-mill was in active operation, and others were promised. In short, it was stated that the business for the current year would be enormous, compared with annual statements previously submitted, and this, too, by men who reason from facts and not premises patently incorrect.

In April of that year, La Crosse contained four stores for the sale of general merchandise, one drug, one hardware, one furniture, and one stove and tin store, three groceries, one bakery, one livery stable, one harness-maker, four tailors, three shoemakers, three masons, one watchmaker, four blacksmiths, three painters, one wagon-maker, one surveyor, four millwrights, twenty carpenters, one butcher, one barber, one gunsmith, one turner, six physicians, six lawyers, four clergymen, three religious societies, a Division of the Sons of Temperance, a Freemason's Lodge, one church edifice, a court house, a steam saw and grist mill and five hotels.

Of these latter, the Tallmadge House was finished that spring by Tallmadge & Gridley. It was 64 feet by 39, four stories high, and was capable of accommodating one hundred and fifty

guests. The hotel was a conspicuous object on the corner of State and Third streets, and one of the largest and finest of any west of the lakes. The enterprising proprietors had established a free bus for conveying passengers to and from the boats, the house being situated so far back from the landing that this was the only means by which strangers could be induced to become patrons. The Western Enterprise, an old favorite, kept by Simeon Kellogg, and the New England, opened the spring of 1853 by G. H. Wilson, both being on Front street near the steamboat landing.

As above stated, travel was then brisk, every boat that arrived being crowded with Eastern and Southern people seeking homes in the West, and considerable rivalry was produced between the hotels. The Tallmadge was advertised extensively "as affording peculiar advantages to the man of leisure, seeking the retirement of a country residence in summer, from the turmoil and heat of a Southern city life," and many of its rooms at that time were occupied by Southern gentlemen and their families, who came up the river on pleasure trips seeking health and quiet.

The present city is said to have presented a strange appearance at that early day, and consisted principally of one business thoroughfare—Front street, which straggled along from La Crosse River nearly to Paul's Mill. From State to Pearl street the wooden buildings were quite thick, yet in these rude business structures, many of the leading merchants of to-day developed an ambition and an enterprise that has since made their fortunes. At that time, Nicholas Hintgen sold apples in a small fruit store near the corner of Front and Pearl streets with J. B. Jungen, who has since prospered in his employ as Clerk; J. M. Levy kept store on Front near Pearl, and owned a wharf-boat anchored at the foot of Pearl street, which was made the storehouse for the discharge of freight hence by river. George Farnum was then a member of the firm of Ledyard, Farnum & Co., and Alexander McMillan was running a blacksmith shop on State street near Front. But the times have changed since then, and the pioneer points, as also the pioneers themselves, have changed with them. Many still live, rich in the fruition of hopes that were inspired in the days whereof mention is here made; others, less fortunate, wait for the summons to join the innumerable caravan, and are ready to go.

The Tallmadge House after passing through a checkered experience, being kept by R. I. Johnson, C. P. Sykes, a Mr. Mercer, R. Harrington & Sons, and Mr. Bradley respectively, went up in smoke, the Western Enterprise was subsequently known as the Kellogg House, was razed to give place to the International, and the New England House was destroyed in the conflagration of 1857. The brick house put up this year, noted above, still stands, but the rude log and frame houses where commercial and marine La Crosse of a day that has gone, most did congregate, live only in the memories of those who knew them best.

Early in 1853, Daniel Raymond, A. Prent, Mr. Simms and Samuel McGovern made claims in the present township of Greenfield, erected cabins and began the life of pioneers in La Crosse County. The country, within a radius of twenty-five miles of the county seat, though comparatively thickly settled, was far from being entirely taken up, and La Crosse was then, as it has since continued to be, the most important and flourishing point in this portion of the State. The trips overland to this county were then made by way of Milwaukee, Watertown, Wycocena, Mauston, Sparta and other points, in a "prairie schooner" drawn by oxen, and the towns mentioned, then small country haulets, have since grown into thriving cities and towns. Near Portage, immigrants encountered sandy roads, and often became disheartened at the outlook. At Mauston two or three houses and a saw-mill were the only objects of interest, and Sparta was equally unpretentious. Between Sparta and La Crosse the most prominent resident was Joshua Ridgley. The Pruett, Markle, Roach and Gable families were added to the inhabitants of Mormon Cooley, and with them came two bachelors, Messrs. Hosmer and Miller. They kept bachelors' hall for awhile, but Miller got married and raised a family, as also did his partner, J. F. Hosmer, who deserted one of the cabins erected by the Mormons, to espouse a young lady named Goodrich, who came West with friends in 1854, and became a wife the same year. During this year, George Gale was County Judge; F. M. Rublee, County Treasurer; A. Eldred, Sheriff; Robert Looney, Clerk of the Court; Ebenezer Childs,

and F. M. Hubbard, Clerk of the Board, while Chase A. Stevens was Register of Deeds, having succeeded W. T. Price.

At the fall meeting, the name of the town of Pierce was changed to Barre, by which it has since been known, and the towns of Onulaska, Burns and Farmington organized. The county was being built up, and superior advantages were offered to purchasers of lands, both in La Crosse County as it was then surveyed, and as it is at present bounded. One of the most important events of the year, and one producing a visible effect upon the growth and development of the county, was the establishment of the *La Crosse Democrat*; another was the removal of the land office hither from Mineral Point.

Chase A. Stevens was the editor of the paper, indulged political aspirations, and was a large land owner. The result was that he not only endeavored to secure political aggrandizement, but bent every energy to the advertising of the town. In doing this, the paper attracted the attention of Eastern capitalists to the promising village of La Crosse, which the editor, and all citizens of even that early day, claimed was destined in the near future to become the "Gateway" leading to the rich, fertile country beyond the Mississippi. The prophetic wisdom of these gentlemen has indeed been vindicated; the city founded by them has become what they claimed it would, and to-day occupies the proud position of being second in commercial importance to but one city in the State. The means thus ably employed, were not without their effect. They brought hither those whose attention had been attracted, and when the land office was opened, the business transacted not only amounted to thousands daily, but realized the fulfillment of an inspired prophecy, that a nation may be born in a day.

THE UNITED STATES LAND OFFICE.

The land office was removed here in June, with Col. Theodore Rodolf, Receiver, and the Hon. Cyrus K. Lord, Register. This year, these gentlemen erected an office on Third street, adjoining the Tallmadge House, and began business with no help but that furnished by themselves. But this did not last long. The entries became so numerous that a force of from ten to fifteen clerks was necessary, and then, although laboring from daylight to dark, not nearly as much was disposed of as was hoped for or expected by those who were anxious to enter claims.

The scenes that were witnessed about this office were exciting, and of a character that in those days even of push and mercenary uncertainty, seem calculated to excite the risibles of the least excitable persons. The motto was first come first served, and the applicant who could first make his claim or present his bid, was the chief, it might almost be said, among ten thousand. Men began their vigil at the dawn of the day, and tarried late in the ranks to accomplish their object, while those who came late, like the foolish virgins who had failed to trim their lamps, were, to appropriate the vernacular of a later day, "badly left." Sometimes men remained in line all night to secure an audience when the office opened, while some hired substitutes and contained themselves in patience, biding their time.

In 1853, the entries were comparatively nominal in number until the latter part of that year, but in 1854 they increased in a wonderful ratio—became epidemic, as it were, without benefit of clergy, metaphorically speaking. Then it diminished, and gradually dropped off until the railroads came in about June, 1855, and made their selections of lands, after which the office was temporarily closed and the duties of its officers suspended. Early in 1853, the entries, it might be here observed, of lands in La Crosse County, as defined by the last survey, were made at Mineral Point, through Washburn & Woodman, Milton Barlow, Charles G. Hanscom and Kramer & Clinton—the latter, bankers, and, with those mentioned, residents of La Crosse.

The entries of lands after the office was removed included those in the pinceries, as also those for agricultural purposes. Among the heavy entries made, those of the following for themselves and the third parties for whom they acted as agents, were among the largest: Samuel Watson, J. T. Spaulding, Washburn & Woodman, W. T. Price, Kramer & Clinton, James O'Neill, Mr. Whitcomb, Milton Barlow, Charles G. Hanscom, W. J. Gibson and others.

From 1853 to June, 1866, the total warrant and other entries amounted to 2,500,614 acres, involving the outlay of \$3,098,317, and these were the purchases of land by individuals, not including the entries of pre-emptors.

The vast sums of money thus received shows to what an extent men of capital and character came to La Crosse in response to the representations made by citizens who had come, and newspapers which had been established, since the days when Myrick resented the attacks of savages, and traders supplied the Indian's craving for whisky with distillations of red pepper dashed with most execrable tobacco washings. Nor was the guarding of these amounts until they could be deposited at Dubuque attended with an ease of mind consequent upon success to safe depositories as can be had to-day. Mr. Rodolf was frequently annoyed with the care of these funds, and subjected to ceaseless vigil and sleepless care until they were safely assigned to the custodian to whom they were directed.

Upon one occasion, sickness in his family made it almost impossible for him to venture away from home, even officially. While recounting this fact one day in his office, and regretting the affliction which had postponed his regular journey to Dubuque, a man present, with whom he was slightly acquainted, explained that he was about to depart for that point, and would be pleased to discharge any commission he might entrust to his discretion. Col. Rodolf interrogated him as to how he would go, and when, and retired with the remark that he would consider the subject.

It seems that the conversation between Col. Rodolf and the would-be messenger had been overheard by a citizen, and during the afternoon he admonished the Colonel not to trust him with the amount to be deposited, \$10,000, which confirmed suspicions that had arisen in the Receiver's mind, and decided his action in regard to the matter. The applicant was refused his proffer, and Col. Rodolf departed with the money for Dubuque. The same day the would-be messenger departed in an exceedingly suspicious manner, accompanied, as was afterward ascertained, by the wife of one of the original pioneers and best-known citizens of this portion of the State. His anxiety to carry the money became apparent when his escapade was discovered, and the Register felicitated himself upon the exercise of a caution that spared him subsequent woe. The absconding couple were heard of in California in after years, whence she returned and died, her husband *de facto* remaining there, while her husband *de jure*, who was left in La Crosse, lived to a hale old age before he was touched by the Master of mortality.

This incident is not related as evidence of the class who came to La Crosse in early times. In truth, but very few, if any, of a questionable character found an abiding-place here. The men who remained were of a different grade—fair types of a generation that is rapidly assimilating with the past; of a grenadier of the old regime who never in any sudden storm or rally, desperate melee or sorrowful encounter forgot to doff his plumed hat to an adversary, and cry out through his gray moustache, as he shortened his sword arm: "*La garde!*"

The improvements this year, in addition to those already mentioned, consisting of the hotels, Receiver's office, brick house on Front street, etc., also included a schoolhouse on or near the present site of the Third Ward Schoolhouse, numerous dwellings, which numbered on January 1, 1854, upward of one hundred in various parts of the village, as far out as Fifth street.

EVIDENCES OF PROGRESS.

The following table will furnish some idea of the progress made by the town between 1851, when there was not to exceed four frame houses on the village site, and the fall of 1853, when it is purported to have been taken. Number of inhabitants in the village, 573; number of buildings, 79; deaths, 18; births, 25; persons under 10 years of age, 140; between 10 and 20, 103; 20 and 30, 172; 30 and 40, 87; 40 and 50, 29; 50 and 60, 6; 60 and 70, 8; 70 and 80, 3; males over 21, 183; females ditto, 124; children under 21, 240.

The oldest person living was Mr. Wirts, a German, whose age was 77 years, and the next Mrs. Stoddard, 76 years old. The oldest resident of La Crosse was H. J. B. Miller, who had been here eleven years.



Of the settlers, 132 were natives of New York, 8 of Rhode Island, 37 of Massachusetts, 56 of Vermont, 14 of Ohio, 16 of Pennsylvania, 14 of Illinois, 9 of New Hampshire; 10 of Missouri, 29 of Maine, 9 of Virginia, 1 of Connecticut, 5 of Indiana, 8 of South Carolina, 2 of Tennessee, 3 of Canada, 25 of England, 13 of Ireland, 4 of Wales, 31 of Norway, 28 of Germany, 7 of Scotland, 1 of Switzerland, 1 of Prussia, 1 of Sweden, 1 of Belgium, 1 of Nova Scotia, 4 of France, and the remainder of Wisconsin. At this time, too, choice lands could be purchased within ten miles of La Crosse at \$1.25 an acre.

On the 31st of December of the same year a census of the population resulted in showing an increase of nearly two hundred, divided as follows:

Heads of Families—A. W. Armstrong, Alvira E. Armstrong, Mons Anderson, Jane Anderson, Joseph Abner, Mary Abner, Cordelia Barns, B. E. Brower, Mary A. Brower, John B. Behlmer, Rebekah M. Behlmer, Nancy Beardsley, John Brown, Catharine Brown, Walter Bates, Susan Bates, Russell H. Bowen, Lorinda Bowen, Jacob Bagley, Almira Bagley, George W. Bagley, Rebekah W. Bagley, Charles Blake, Augusta Blake, Charles E. Bowers, Sarah J. Bowers, Albert Blackington, Lydia B. Blackington, Squire J. Burnett, Eliza Burnett, Frank Baker, Frances Baker, Willard Bailey, Eliza Bailey, Daniel Bacon, Jane Victoria Bacon, George Carlton, Mary Carlton, Spencer Carr, Sarah Ann Carr, Michael Christian, Hugh B. Calahan, Elizabeth H. Calahan, J. R. Cowdroy, Susan T. Cowdroy, John Courser, Mary Courser, Peter Cameron, Emma Cameron, Ebenezer Childs, Tirzah Childs, Hiram Cole, W. J. Cole, James M. Cooper, Ann H. Cooper, Enoch H. Chambers, Nancy A. Chambers, Simon Doyle, Ann Doyle, Valentine Dinninger, Christiana Dinninger, Richard Davis, Jane Davis, Barton Downing, Avis Ann Downing, Francis Dannon, D. S. Dwight, A. T. Dwight, A. J. Ellis, Doraine L. Ellis, Amazo Eldred, Catharine Eldred, Adam Egal, Mary Egal, George Farnam, Ann Farnam, Joe Fifer, Abigail W. Ford, Joseph K. French, Ducia A. French, Theodore Frederick, Elizabeth Frederick, Anson Ferris, Eliza O. Ferris, William A. Fuller, Catharine A. Fuller, Francis Gutzgesell, Ellen Gutzgesell, Russell A. Gridley, Laura M. Gridley, George Gale, Gertrude Gale, James M. Goodrich, Sarah W. Goodrich, James Gallagher, Mary Gallagher, William Hood, Margaret Hood, Benjamin B. Healy, Lucy M. Healy, George W. Havens, Helen M. Havens, Nelson Haight, Harriet N. Haight, S. D. Hastings, Margaretta Hastings, Marvin Helms, Charles G. Hanscome, Annie J. Hanscome, Charles A. Hurd, Eliza Hurd, Thomas Hart, Sarah J. Hart, John Hooper, Nancy Hooper, Nicholas Hintgen, Mary E. Hintgen, John Halverson, Cornelia Halverson, Asa Hedge, Pamelia Hedge, John S. Harris, Melissa J. Harris, George Helt, Mary Ann Helt, Magdalene Isakson, Samuel S. Jaues, Mary James, Julia M. Janson, William Johnson, Matilda Johnson, George W. Jones, Priscilla Jones, Jacob Johnson, Emaline Johnson, Henry Kimball, William H. Kimball, Charlotte M. Kimball, Simeon Kellogg, Lorinda Kellogg, Robert Looney, Sarah Looney, Albert D. La Due, Ann Liza La Due, John M. Levy, Frederica Levy, Cyrus K. Lord, Abby C. Lord, Volrat Lundblad, Jane Lundblad, Samuel N. Light, Mary Ann Light, Abram Looney, Elizabeth Looney, John B. Loomis, Marthaette A. Loomis, Daniel Malbon, Abigail Malbon, J. B. Miller, James Mohr, Mary Mohr, J. G. McCathron, Melissa McCathron, Anton Mitchel, Lana Mitchel, Isaac Martin, Albertine Martin, Ira Myrick, Rosaline Myrick, William G. McSpadden, Julia McSpadden, Jacob McCreary, Joel Marsh, Abara H. Marsh, William Miller, Eliza Miller, Wilson Miner, Sophia Miner, William McConnell, Candace McConnell, Joseph F. Otis, Maria C. Otis, Catharine Oleson, Joseph Pearse, Sarah Pearse, John S. Peirson, Soudra Peirson, Hiram M. Phelps, Rebekah W. K. Phelps, Andrew Piffner, Catharine Piffner, Robert H. Powell, Lucinda Powell, James W. Polleys, Margaret Polleys, Jacob Patterson, Mary Ann Patterson, Benjamin W. Reynolds, Lucy W. Reynolds, Henry Ryents, Elizabeth Ryents, Cornelius Riley, Ahee Riley, John Riley, Fanny Riley, Barrcll S. Reppy, Rebekah Reppy, William C. Rogers, Harriet L. Rogers, Theodore Rodolf, Mary Rodolf, John Robinson, Sarah C. Robinson, F. M. Rublee, Sarah Rublee, George Reble, Ohio Simpkins, Sabina Simpkins, Edwin H. Smith, Philenia W. Smith, H. T. Stafford, Charlotte Stafford, Thomas Shimmun, Emma Shimmun, Norton R. Smith, Mary C. Smith, Alexander Shepherd, Ann E. Shepherd, John S. Simonton, Mary Simonton, Orrin

L. Smith, Mary E. Smith, Sestus Sheffield, Silva C. Sheffield, George Shary, Christiana Sharp, Berbera Sharp, John Stevens, Amos Sweet, Mary Ann Sweet, William Scully, Elizabeth Scully, John C. Sherwin, Virginia A. Sherwin, Samuel T. Smith, Sarah Smith, Sylvester Smith, Mary Smith, Cyrus B. Sinclair, Mary Sinclair, Sylvester S. Stebbins, Martha D. Stebbins, James Smith, John Shoemaker, Charlotte Shoemaker, Sebastian Shenk, Elizabeth Shenk, H. E. Seymour, Susan Seymour, Thomas B. Stoddard, Martha Stoddard, Chase A. Stevens, Mary E. Stevens, Russell H. Thudor, Margaret M. Thudor, Morgan M. Taylor, Hannah Taylor, Charles W. Talmadge, Philomela Talmadge, Joel Talmadge, David Taylor, Christian Thili, Dora Thili, William W. Ustick, Mary S. Ustick, John J. Vets, Elizabeth Vets, Nathan Vance, Helen M. Vance, William Whelpley, Rebecca F. Whelpley, Enos P. Williams, Mary J. Williams, Henry Whitney, Abby Whitney, Reuben Woodworth, Loretta Woodworth, D. R. Wheeler, Frances W. Wheeler, George D. Winship, Abby B. Winship, Thomas B. West, Laura A. West, G. H. Wilson, Lydia S. B. Wilson, Martha Woodworth, David Williams, Rebekah Williams, Harriet Walker, Geo. Zinkman, Elizafrink Zinkman. Whole number, 301.

Single gentlemen over twenty-one—Alexander Armstrong, Lysander Armstrong, Corydon Boughton, A. W. Barron, Henry B. Beardley, James Brown, Walter Brown, Samuel Baumgartner, G. W. Birdsel, Peter Burns, Dugald D. Cameron, John B. Crookston, Asa Crane, Henry Dresden, Gideon Downing, William Denison, Daniel Duck, Royal L. Dean, R. H. Elliott, James Edwards, Truman W. Fellows, John C. Fuhr, Edwin Flint, Anthony P. Fuller, William E. Gales, Henry Hoare, M. G. Hanscome, Myron F. Hubbard, Harvey E. Hubbard, William B. Hanscome, Warren Holverson, Michael Hart, George Hoare, Edmund Hart, S. C. Johnson, Justin Jacobs, Ole Johnson, Charles Kluckhol, Julius F. Kellogg, James I. Lyudes, Neils Larson, Andrew McAdams, Alexander McMillan, Mons Mouson, Thomas Murphy, John McMillan, Marvin M. Manville, Charles B. Marsh, Charles Meacham, Jacob Nelson, Andrew Oleson, Otto Oehler, Ole Oleson, Allen Overhagh, Charles Oleson, Thomas Parks, J. K. Parks, Abner Polleys, Francis A. Rubble, William Rogers, Isaac W. Simonds, Benton Sumonton, Jacob Sharp, C. B. Solberg, Will. Sutcliffe, Enoch Tasker, Henry Tekenburg, David Wright, John Walker, William Williams, John Wood, Le Roy Wilcox, J. P. Whelplex, John H. Wadrath, Charles F. Whitney, O. B. Williams, William M. Young, Henry ——. Whole number, 78.

Single ladies over eighteen—Ellen Alworth, Susan De France, Clementine M. Bowe, Elizabeth B. Bailey, Rhoda Cartwright, Emelyn Carlton, Elizabeth Davis, Mary Davis, Margaret Darby, Chloe Green, Margaret Gunderson, Esther A. Grover, Charity Hockenstock, Grace Hart, Mary A. Hart, Lavina Hawley, Celia Harrison, Christiana Johnson, Margaret C. James, Ann M. Johnson, Mary James, Ann Johnson, Mary E. Kellogg, Martha Kimball, Celina A. Kellogg, Miranda Knudsen, Antoinette Martin, Rosetta Nickeson, Ann Oleson, Ellen Oleson, Olive Ole, Eliza Patterson, Elizabeth Perry, Laura Roberts, Ellen Simpson, Mary Torgeson, Abby Whitney, Margaret Young. Whole number, 38.

Number of heads of families in La Crosse and vicinity, 301; number of single gentlemen, 78; number of single ladies, 38; number of male children, 159; number of female children, 169. Total, 745.

Nearly every boat from below brought passengers either for town or country. Of the back-country farms then opened too much could not be said. The valleys of La Crosse were not claimed as equal to those of Genesee, but as the sequel has proved, equally as fertile. At that early day crops of vegetables and cereals had been raised, and no country in the Northwest afforded equal advantages to those seeking a home.

It should be added that the mail facilities were this fall improved by the shortening of the time between Baraboo and La Crosse, by the way of the Lemonnier and La Crosse Rivers. Post offices were established at Dellin, Seven Mile Creek, Moss' Mill, Finlay's Mill, Clark's Hotel, Sparta and Neshonoc. The contract was undertaken by Parish & Heart, who conducted the business with a two-horse wagon, which afforded accommodations for passengers.

The year 1854 found every man in town and country "up and dressed" for business. The contrast between this and the season of 1853 was both marked and wonderful. The arrivals

included among the more prominent, C. L. Cohnan, Joseph Pesehe, W. B. Hanscom, S. Martindale, Milo Pitkin, Samuel Campbell and others. In this connection, it might be here remarked that the rapid progress of La Crosse from and after 1853, both in town and county, forbids the attempt to mention the names of daily arrivals, as they came too thick and fast to be correctly recorded. The rapidity with which the county was settled up from this date excited the wonder of all who came here. This was to be accounted for, however, on the hypothesis that statements made in its behalf at a prior day, as to fertility of soil, beauty of landscape and salubrity of climate, tempted all to rest from their wanderings and become one of the producers of this portion of the State. The emigration and settlement of that day was composed of men that should be properly found among those who assumed the task of preparing a home for themselves and those who were to succeed them, of building upon the strong foundation, already laid, a county that should stand in its relations to other counties and the commonwealth as a constituency equal to the greatest of them. Availing themselves judiciously of the advantages which surrounded them, they have made a paradise of the wilderness, and have thus been compensated for the privations they encountered and dissipated.

By 1854, these advantages had become prominent, and this was apparent in the appreciation in the value of property. Early in the spring, N. Myrick, who in 1847 removed to Minnesota, but still retained his title to property in La Crosse, sold a middle lot, fronting the river, on Front street, for \$1,400 cash. This same lot, three years previous, was offered for \$75. There were no improvements on it, but the price was considered cheap.

Soon after this, a portion of the real property belonging to the estate of Charles P. Janssen was sold at auction, and eighty acres lying two miles east of the village limits, brought \$22 per acre for the west half, and \$15 for the balance. From this it will be seen that property, which had been a drug on the market in 1851, was three years later selling at prices ranging from \$200 to \$20 per acre. The present corner of Fourth and Main streets, occupied by Giles' building, could have been purchased in 1851 for \$20; now it could not be had for \$25,000. There was no place in the Northwest at the time of which mention is here made, that could boast of such an increase in values, and none where the prospects of a continued increase were more gratifying.

In the spring of 1854, the present town of Washington was first settled by John John, who built a log cabin, and was soon after joined by John P. Schafer and John Riley, both of whom made chains and passed the season in preparing the land for future cultivation. John Bradley, James Gillfillian, William Gillfillian, H. L. Van Wermer, Mr. Harrington, Ira Coleman, E. B. Richardson and James Richardson settled in Burns the same year; T. H. Eynon, David Jones, William Price, John Williams, Richard Wheldon, C. F. West, R. R. Morris, H. B. Johns and Peter Saxer in Bangor; Christopher Kerchmer, in Greenfield; Johnson Howe, Benjamin Howe, Thomas Irwin, John Miller, Henry Reutz, Frederiek Betz, Carl Fucht and Mr. Lambert, in the town of Barre; and large accessions to Holland, Hamilton and other townships. The settlers were men who came to stay, possessing energy, some capital, and unlimited confidence in the results of their labors. The families of some accompanied them hither, and endured the privations, perplexities and trials incident to the building of a pioneer cabin and the arrangements of a pioneer home. Others came alone, and, when they had concluded such arrangements, were joined by their wives. Many of the huts that in those days were deemed commodious and comfortable, would not, in these days of grandeur and fastidious aesthetics, be regarded with other than a critic's eye. But those times have passed. Those homes have seen much of joy and sorrow; they served the purposes for which they were built, and may stand to-day as monuments to the grit, pluck, enterprise and indefatigable perseverance of the race of men who are recognized as their founders.

Improvements throughout the county were in proportion to the accessions and increase in the number of inhabitants. In the spring of 1854, the village of Bangor was laid out on land owned by John Wheldon, and has since grown to be a prosperous corporation and an important station on the Milwaukee & St. Paul road. Other towns and villages were proposed

during this year also, but the records are silent as to what progress, if any, was made in their behalf.

In the town, which has since grown into a city with all that the name implies, business was brisk in the spring, falling off as the hot weather came on, increasing with its disappearance, and "booming" with the fall and winter seasons. The improvements were substantial, and, in some cases, elegant, and included those of transportation, as also those of an established and permanent type. At that time, the La Crosse & Milwaukee Railroad was completed to Horicon, whence its completion to La Crosse, where it would receive the trade of the Upper Mississippi and add thousands to the population and wealth of the young city, was only a question of time. At this time, \$125,000 had been subscribed in the county to the road, and its building was an established fact. The improvement in river navigation was likewise flattering. From irregular trips and comparatively inconvenient crafts the trade commanded six new steamers—all built during the winter of 1853-54, and touching at La Crosse daily, to which they also brought the mail three times per week. The mail receipts had increased beyond comparison, and the time between La Crosse and New York had been lessened to five days.

In other respects, the prosperity daily to be witnessed was pronounced. The cutting and manufacture of lumber on Black River was this year quoted at twenty-five millions of feet. Two steam saw mills were operated, the product of which was large, and the population of the city was increased by the arrival of twenty infant "badgers."

In the midst of this delightful experience, the hand of death was reached forth unexpectedly and smote the family of one with its might, causing a feeling of gloom to pervade the community and a defect upon the landscape which until then had appeared so charming.

In the fall of 1853, an enterprising Buckeye, hailing from Cincinnati, came to La Crosse to once more drag to the surface honors and wealth he had lost at the East, and opened a bakery, the first of its kind in La Crosse, in the old Black River House, which then stood on Front street, between Main and State. Here, aided by his wife, son and daughter, he toiled early and late, and, before the season was passed, had worked up a business that promised to increase as the months and years drifted downward on the tide of Time. At some undecided date of this year, a passing boat unloaded from its gang-way the dead body of a passenger who had died from that awful scourge the small-pox, and departing left behind it the swollen and corrupting seeds of disease and death. Through some unexplained negligence the action of the boat-officers could not be prevented, and in a few days thereafter Mr. Simpson became inoculated and was stricken down. As soon as possible, he was removed to an improvised pest-house on the prairie, but not until his entire family, having been exposed, evidenced the fact that they were not proof against the contagion. After a brief period of watching and waiting, the first to be seized died, and was laid to rest; but scarcely had his mortal remains stiffened in death before his family, too, took on the pale seal and slept by his side, beneath the clouds of the valley. Strange as it may seem, the cases in La Crosse were limited to these, the health of the town and county being otherwise remarkably good.

In La Crosse Village, building during the summer was not so extensive as might be supposed. The great scarcity of seasoned lumber was attributed as the cause, but notwithstanding this disadvantage, several fine buildings were put up, which added materially to the appearance of the place.

Among these was the building of N. R. Smith & Co., located on Front street, and completed in forty days. The ground floor was occupied by its builders, dealers in general merchandise, while the upper floors were appropriated to the uses of the La Crosse *Independent Republican*. Brown & Fales, hardware merchants, erected a building opposite that of Smith & Co. Simeon Kellogg completed a three-story building to the rear of the Western Enterprise Hotel, corner of Second and Pearl streets. George Jeffrey built a tailor's shop, south of the Western Enterprise. N. Hüntgen opened a saloon. Mr. Carpenter a shoe store, Mr. Marsh an exchange, and B. F. Stoeckig, a billiard room, all on the same thoroughfare. Added to these, but already referred to, were the business houses of J. M. Levy, Hastings & Hoar, F. M.

Ruble & Co., Farnam, Ledyard & Co., William W. Usie, George Sharpf, tailor; also Mr. Baumgardner, M. M. Manville, the bakery of F. Gutge-ello, George Carlton & Co., etc., etc. Mrs. Marsh furnished millinery; Drs. Ferris, Cameron, Nocolai, Young, Johnson and McCrary, pills and purgatives; lawyers French, Cramer, Gale, Flint, Lord & Hanseom, Denison & Lyndes, and Stearns & Wheeler, briefs and authorities, in the prosecution of a claim or the redress of a wrong; Johnson & McMillan shoe horses; Patterson, Calahan, Barron, Kimball, Chambers and others officiated as joiners; while the New England, Tallmadge and La Crosse Houses furnished accommodations for the weary traveler, enterprising speculator and interested "looker-on in Vienna."

Among other items of interest which then materialized, and has since become a prominent factor, was the wholesale trade which this year was first inaugurated. It was noticeable that teams from distant parts of the country were to be seen on the streets daily, the vehicles to which they were attached loaded with all kinds of goods for merchants and traders in the villages, which were then in progress of growth in the valleys of Black, La Crosse and Root Rivers and elsewhere in Wisconsin and Minnesota. The merchants, acting upon the suggestion of the weekly paper, that La Crosse was fully able to cope with Galena, Dubuque and other prominent marts for trade, determined to court the patronage of those who had purchased at more eastern depots, and the results confirmed impressions theretofore created. They began a policy then of offering inducements to small country traders, who were in want of small lots of goods, but wanted them often, which has since obtained with profit and enhanced the relations thereafter existing between La Crosse and the surrounding country.

This year the elements seemed to combine to promote a realization of all things regarding the village and county of La Crosse unto all men. Never before had the crops been known to have yielded more abundantly or to have been more satisfactorily secured. There was a productiveness in the soil that even astonished Western men to witness, and there was labor for all who sought support or encouragement. New firms were organized, new mail routes were established, new enterprises undertaken. During this year, too, politics came more prominently before the people and were more generally canvassed than at any previous time, and the canvass was materially aided by the presence of organs representing opposing political parties. Thus was the seed sown at an early day for political divisions in this city and county, which have ever been maintained.

Late in September, a steam ferry was added to the improvements of the year, and in the fall, as already noted, the business of the village was simply immense. In October, the steamer War Eagle landed sixty passengers at the wharf upon one trip, nearly all of whom were settlers. The village presented a lively appearance that fall, relates one who was here then, in its business streets, and it was really wonderful to those who were unacquainted with the rise and progress of western towns how business had accumulated at this point. The hotels were filled with strangers, wondering that La Crosse was but three years old! The stores were crowded from morning till night, and in many of them large forces of clerks were employed and kept continually busy in filling orders, packing goods, etc. The steamboat landings were storehouses for merchandise and produce, and Front street was almost impassable from the crush of teams which congregated there from all directions. In that month, the value of real estate in La Crosse County was reported by the State Board at \$525,000; the valuation of village lots at \$50,000; of personal property at \$60,000, and the amount of State tax assessed at \$2,222,50.

In the midst of this success the truth compels an admission that in spite of the existence of schools and churches, and the moral influence thereby exerted, the spirit of unrighteousness was abroad, and upon occasions evil ran wild in the sunshine. Referring to a stabbing affray that occurred in November, in which a young man named Eugene Ridgley narrowly escaped with his life, the papers condemned the condition of affairs as then permitted to exist. Street brawlers and night loafers, saturated with bad whisky, made darkness hideous with blasphemy and epithets, and respectable people remained at home rather than encounter insults. Black-legs, pickpockets and marauders, in their trips up and down the river, made La Crosse their

stopping place, and their rooms and resorts were the rendezvous for crime. Into these the unsophisticated were lured and robbed of their money as also of their character.

This was due, in part, to the absence of sufficient peace power, and in part to the rapid and prosperous growth of the place. And yet this element was not so pronounced and prominent a factor as in other places, and with the complement of municipal protection which came with years, was gradually but effectually wiped out.

The most important item of interest to happen during the closing season of the year was an attempt made in December to procure a removal of the county seat from La Crosse to Palmer's Mills in the town of Nesdonoc. Quite an excitement was caused among the citizens of the village by this rumor, which was only suppressed when it became known that the attempt had failed.

The argument used in favor of the removal was, that it would build up another town in a desirable portion of the county, thus rendering property more valuable, and accomplishing other desirable ends. But the promoters of the scheme failed to convince the County Board of its expediency, and upon a submission of the question it was defeated five to one, to the infinite delight and peace of mind of the residents of the river "city."

The year closed with a population claimed for the village of 1,500, brought hither by 543 steamers between March 23 and November 28, and during which period 3,485 guests registered at the Western Enterprise.

The spring of 1855 brought to the people of county and village a realization of what nature and man's ingenuity combined had sought for. Emigration was not only large but continuous, and the men who came increased the value of material interest in their new home. Houses were erected, stores opened, business established, communication with distant points regular, farms opened and cultivated, and every resource available tending to develop the country and render it attractive employed with more than moderate success. There were privations, too, which the settlers were forced to accept, but they were met with courage and endured with patience.

The population of the county appreciated in value as in number, and was generously distributed throughout the county, the preponderance of settlers, of course, locating in the village, where the opportunities for commercial or real estate speculation were more numerous and access to markets more liberal. However, large numbers located in the townships, and adding to the number there already, became effective factors in their building up and cultivation. Prominent among the objective points sought were the townships of Holland, into which a large number of Norwegians ventured, and have since been largely identified with its growth and prosperity. Hamilton Township about this time became the home of such enterprising men as Monroe Palmer, E. F. Edwards, C. C. Elwell, Oscar Elwell, J. W. Ranney, J. W. Coburn, James McEldowney, William McEldowney, Andrew McEldowney, L. Osborne, S. Brown, Christian Larson, Nelson Larson, William Van Zandt, Gordon Lewis, William Loan-and-borrow, T. Knudson, Ole Knudson, Daniel Loomis, William Van Waters, M. J. Tourtelotte, William Gage, Henry Hodges, A. K. Verts, Jacob Meyers, John Andrews, James Tuttle, Daniel Bacon, Frank Smith and others; in the township of Greenfield settled Joseph Weiker, William Nicoline, William Freeholt, Joseph Tousse, Joseph Janel, William Lingie, Gregory Bosshard, and some few others; David D. Jones, Abner Darling and Chester Darling settled in Bangor; Mendora Post Office, in the township of Farmington, was this year laid out by George Sisson, Leroy Stanford and John F. Arnold, under the name of Newton. The names of S. Hurlburt, S. Williams, John Green, J. Tritton, S. Carrington, Thomas Jones, R. Tower, William Van Zandt, Henry Moore, L. Pratt, J. Grosse, O. L. Britton, Edward Tritton, E. Dake, T. Dutcher, J. Gillfillian, A. Harrington, E. Adams, H. D. Adams, B. F. Colburn, L. Bowen, H. Boyington, M. Craik, M. M. Battles, S. Parks, S. Coleman, Byron Viets, Lorenzo Hicks, Aaron Frost, E. B. Richardson, O. H. P. Crane, M. Seafa, J. Seifa, J. C. Bem, L. A. Viets, A. Stone, V. R. Dunham, M. Herrick, George Williams and J. Coleman were added to the list of voters domiciled in the township of Burnis; McMertz established himself in Washington Township, as also did John Halverson, Mr. Nidvidek, Jacob Stein, Adolph Huett, Casper Newburg, A. Newburg, Mr.

Rittburg, and John P. Koenen, while H. C. Heath, Isaac Tuteur, David Law, George Harrington, John Moss, H. I. Bliss, L. Pammel, L. Drake, John Springer, I. L. Usher, W. S. Hauscom and others became part and parcel of the growing village.

With such agencies and powerful influences, it would be strange if the advancement of La Crosse and the region round about had been long delayed. Yet all was not sunshine and gladness, and heaven at all times did not appear near by. Dark and sorrowful clouds shut out the day at times, and there were hours when the fire would not burn on the hearth of these toiling settlers. But rests were taken by the weary, and tones from an eloquent, but unseen source, woke up the querulous heart. There were sunny souls there also full of hope, whose trust in the future never failed, and, though the skies of promise were clouded over with the threatenings of disaster, they knew that other days would come again when the grass would be green and the flowers be bright. This class of men are the souls of enterprises of great pith and moment. The men who weave golden fillings into the web of life, who are swift and ready to do the work which is set before them, not to snap the delicate silver threads and blame heaven that they were made of tangled ends. But persevering unto the end, working, waiting, hoping, praying, until the dawning of more perfect days—or until the patient watch and long vigil is rewarded at the pearly gates of Paradise.

New Year's was celebrated with due honors and festivities throughout the county, the festivities passing off without excesses or debaucheries of any kind.

A cheerful item of profit and entertainment in the village, born during the spring, were the lectures and debates of the La Crosse Lyceum. Before intelligent and interested audiences, F. A. Moore unbosomed himself of "His Views of the Times;" D. W. Gillfillian discoursed on "Know-Nothingism;" H. E. Hubbard and others on appropriate subjects, while "Women's Rights" and "Prohibitory Laws" were debated with a forensic skill and eloquence indescribable. These, with slighing parties and "bachelor soirees," constituted the quality of entertainments offered during the season appropriate to festivities.

With the return of warm weather which came at intervals with the first of the spring months, the energies of farmers and the business community were naturally awakened, and the people themselves brought to a full realization of their fair prospects for the ensuing season. As the snow disappeared and the signs of early opening of navigation became apparent, all rejoiced at the prospective resumption of connection with towns "down the river," the merchants became busy taking an account of stock in making preparations for an Eastern trip to replenish and get ready for the spring and summer trades.

As early as March, carpenters were hard at work fitting up old buildings and providing new ones, as also in paving the way for the advent of fresh arrivals, who would join issue with those already in the county so soon as travel by river was opened. Indeed, the prospects for a general and unprecedented increase in mercantile and mechanical channels was quoted by those immediately interested as, to express it commercially, "Gilt Edged." The contemplated survey of railroads and turnpikes in the spring, the progress in construction of those already under way, and other undertakings *in esse*, seemed to stimulate the enterprise of business men and urge them to new efforts in sustaining the well-deserved reputation of the county and village abroad, as also did its important location.

The river remained closed by the ice until April 2, when it "passed out," and, three days later, the War Eagle landed at the La Crosse wharf crowded with passengers and making an addition of one hundred to the population of the county.

In the country prospects were equally as cheerful. The weather was all that could be desired, warm, pleasant, peculiarly adapted to prepare the ground for the reception of spring seeds. The sternness of winter yielded to the gentle influence of a warmer season, the bird's sang, the flowers bloomed, and all nature seemed to smile and dance in the sunshine.

As the season advanced, the prosperity of the city and country continued without interruption. It was a year of unparalleled success, say those conversant with the facts. Nearly everybody made money, and those who held title to tracts of land in the county, or lots in the

village, were regarded as men who were fortunate in their possession. The year was attended with no visionary fabrics, but plain, sober realities; the growth of every interest had been substantial—merchants experienced no drought in their line of supplies, but a legitimate and steady increase of their business by the continued growth and prosperity of the surrounding country. Nor had this growth and easy times resulted from newspaper puffing, traveling agencies or laudatory pamphlets sent out into the world and scattered broadcast; but it proceeded from the real, natural advantages of the country, the desirable location of its towns and the enterprising spirit of citizens residing within its limits. This being true, it was concluded that the prosperity and growth, admitted by rivals, would increase according to the efforts employed in that behalf, for an indefinite period, or so long as the country and liberality heretofore displayed was left and exercised. The projected enterprises, which at that time included the La Crosse & Milwaukee and Southern Minnesota Railroads, new packet companies, turnpikes and roadways into Minnesota, Iowa and elsewhere, would be completed in time, and wherever they extended, business would be sure to go. To accomplish this, unity of action was necessary, and action by citizens.

Real estate, during the summer, had advanced, though in the spring prices had been paid for property that would to-day be esteemed more than a fair return. As for example, Mrs. Mary Smith sold eighteen acres of land in the country for the sum of \$3,600, cash; this was in June. Some weeks later, a Mr. Johnson sold his house and lot on Fifth street for \$1,500, and Mr. Kimball his house and lot on Fourth street, north of the court house, for \$1,600. On the 19th of September, a sale of the real estate property of the Hon. Timothy Burns was made, at which the number of bidders is said to have been large, and the prices high, even for La Crosse and the times. One fact noticeable was that the property was sold at a large advance upon the appraised value, citizens and strangers being surprised at the demand and avidity exhibited for desirable business lots by business men. This was also considered a truthful realization of the real solid advantages La Crosse possessed over towns between Dubuque and St. Paul. Five years previous, the best of these lots had been purchased for \$1.25 per acre; the property consisted mostly of swamp and bluff lands, and brought a total of upward of \$16,000.

As property throughout the year increased in worth it advanced in price, and what had seemed high to strangers in January was purchased by them before fall, and considered a rich investment. All the country contiguous to the village made steady progress in this direction also, and that entered some time before at Government prices was more than trebled in value before the year closed. As the country filled up, this advance was maintained, and additional facilities were offered to market lots and lands.

With regard to rents, the scarcity of tenements made them very high. The number who remained in the town was only limited by the capacity for accommodation. Had there been room for more families, more would have remained. Large numbers, it is said, went elsewhere for want of a proper place to shelter them.

The continued arrival of settlers and persons seeking homes in the Northwest was another subject of remark. During the month of April it is estimated that 10,000 passed through Galena for points up the river. Many came to La Crosse, besides those who came hither by overland route, while the stages from Baraboo and Portage City came in each evening laden with passengers. To this may be added the numerous emigrants in their own wagons, working their way to the West. These settlers distributed themselves in the choice locations to be found in the Mississippi counties of Wisconsin and Minnesota, notably Bad Axe, La Crosse, Trempealeau, Buffalo and Pierce in the former, and Houston and Fillmore in the latter. Those who settled in these counties made them largely tributary to La Crosse, and added greatly to its progress. On the opposite side of the river numerous towns began to come into existence, among which may be mentioned Rome, Brooklyn, Bokah, Houston, Chatfield, Caladonia, Fayetteville, etc., all prospering commencements of future villages. Surrounding them was as fine a country as could be found, which was rapidly being taken possession of by men who since that day have brought it under the hand of cultivation. La Crosse was the

outlet of these towns, and La Crosse County was thereby benefited. And that county was not behind the village in growth. Almost every look of the eye upon the prairie discovered some new-made preparation for building by settlers who erected shelters for themselves preliminary to putting up more substantial quarters. The arrivals were principally of a class which benefits a town, giving it a reputation abroad and enhancing its reputation at home.

The business and lumber interests were not less advanced than the sale of lands and advent of settlers. Favored at occasional intervals with copious rains, and afforded every convenience possible for the times, the men of business were enabled through this to prosecute their enterprises to a favorable termination. Likewise the farmers and lumbermen prospered for whom there was an abundance of work and fair returns. In the village, never since La Crosse was regarded worthy of rank among the Western towns had prospects for all kinds of business been more favorable. The wonderful increase in the amount of capital invested, and of persons employed in all branches of trade and agriculture in the immediate vicinity of the village and its dependencies, together with the accumulating wealth of all, added new energy to the hopeful, and renewed the confidence of those disposed to be encouraged.

The business on Black River this year had been measurably better than during the year previous, and would be more than double, it was contemplated, in the year to come. The operators would require twice the usual amount of supplies, the merchants would need larger stocks, and the mechanics more workmen to fulfill the engagements and meet the necessities of their customers. The feelings of business men, it might be stated at that time, more or less ebbed and flowed with the water in Black River, a fall there indicating a decrease in the busy marts of the village, while a "full bank" was a sure prospect of a full stock and a heavy trade.

The crops for 1855 were considered good, and farmers, with the balance of those here resident, reaped rich returns and projected extensive improvements for the year to come.

During the year, building, regulated by the law of necessity, was decidedly brisk. The market was well supplied with materials, and the prices were good. As a result, a great number availed themselves of the opportunity to build and otherwise improve their places of business. On State street, between the Mississippi House and the river no less than five new buildings designed and used for shop, store and hotel purposes were erected. Front street, between Levy's Landing and warehouse and what was known as the Upper Landing, was generally built up. On the prairie, new houses were to be observed in every direction, lots being broken and fenced, and trees, both fruit and ornamental, planted with a liberal hand.

Educationally, the village was supplied with a substantial and well supported school and academy, while during the winter the exercises at the Lyceum were attended with interest and profit. The religious element was prominent, and the congregations of large and growing dimensions.

In all these and other respects, the outlook was gratifying. New houses were opening and to be opened, including a banking house, and all interests were properly conserved and balanced.

The national anniversary of 1855 was generally observed in the county, the celebration, however, occurring in the village. The display consisted of a procession of Old Fellows, Masons, citizens, etc., who marched to a grove, where, after prayer by the Rev. J. C. Sherwin, M. G. Hanscom followed with the reading of the Declaration, succeeded by an oration, introducing Dr. A. P. Blakeslee. The exercises were interspersed with vocal selections from a choir, under the direction of D. G. Osborn, the whole concluding with a banquet prepared by Mr. Wilson, of the New England House. Dr. Cameron, as Chairman, read toasts appropriate to the day, which were responded to by Col. Rodolf, S. Martindale, Mr. Pratt, Mr. Petribone, M. G. Hanscom, S. D. Hastings, S. T. Smith, F. W. Moore, and others. In the evening there was a general display of fireworks.

Christmas was also observed in a manner peculiar to the day, and the year departed, leaving behind it the memory of much that was gratifying to those who had taken part in its enjoyments.

The future prosperity of the county had been secured since its birth four years before, and the settlers, in its fertile territory, confided in a continuance of prudence, industry, energy and

liberality to the more complete development of its resources, and the enrichment of themselves by mutual business transactions.

Since 1855, the history of La Crosse County has been as the history of individuals. The panic of 1857 produced its effect, but she is less celebrated for having survived that effect than for having destroyed the causes which promoted its development. During the war for the perpetuity of the Union her efforts were contributed to the successful consummation of that object. The county is absolutely free from debt, the agricultural and commercial resources to be found within her limits are inexhaustible, and fortune beckons to every age and race to identify themselves with her interests and become partakers of her bounty.

Thus far has the historian sought to perpetuate the leading incidents in a history of La Crosse County. He may have succeeded imperfectly, but he has labored earnestly, enthusiastically. There are those still living who remember some of the incidents herein recorded, in whose breasts the old fire has not died out altogether. But many have gone hence to be heard of in other lines of life; many to be heard of no more forever, for the green earth has opened its arms to weary lives who came into La Crosse with the dawn of its earliest days, and staid until summoned to that sleep He giveth his beloved.

OFFICIAL ROSTER.

At the date of the organization of the Territorial Legislature at Belmont in 1836, the present county of La Crosse was included in Crawford County, but had no representation in the Council, nor was she thus represented until the first session of the second legislative assembly convened at Madison Nov. 28, 1839. At this date, George Wilson was elected and served until 1840, when he resigned, and was succeeded by Joseph Brisbois. That gentleman, in turn, resigned, and Charles J. Learned was elected to fill the vacancy thus created. The succeeding members of the Council were Theodore La Chappelle, 1842; Hiram Knowlton, 1845; Benjamin V. Manahan, 1847.

In the Constitutional Convention which assembled at Madison October 5, 1846, Peter A. R. Bruce was elected the delegate from Crawford County, yielding place to Daniel G. Fenton as delegate to the convention of 1848, which framed the constitution subsequently adopted by the popular vote.

After the admission of the State, La Crosse was represented in the county of Crawford until regularly set apart as an independent county in 1851, as follows:

In the Council—G. Wilson, 1838; C. J. Learned, 1840-42; T. La Chappelle, 1844; Hiram Knowlton, 1848; D. G. Fenton, 1848; James Fisher, 1850.

Senate—Hiram A. Wright, 1851; Benjamin Allen, 1851-53; William T. Gibson, 1855; W. T. Price, 1857; W. H. Tucker, 1859; B. E. Hutchinson, 1860-61; Edwin Flint, 1862; Angus Cameron, 1863-64; J. A. Chandler, 1865; Joel W. Ranney, 1867; Cyrus M. Butt, 1869; Angus Cameron, 1871; G. C. Hixon, 1873; S. L. Nevins, 1875; M. P. Wing, 1877; G. Van Steenwyk, 1879; M. P. Wing, 1881.

Representatives—James H. Lockwood and J. H. Dallon, 1836; I. B. Brunson and Jean Brunet, 1837-38; Alexander McGregor and I. B. Brunson, 1839; Alfred Brunson and Joseph R. Brown, 1841; John H. Manahan, 1843; James Fisher, 1845; Joseph W. Furber, 1847; W. T. Sterling, 1848; James O'Neill, 1849; W. T. Sterling, 1850; W. T. Price, 1851; Andrew Briggs, 1852; A. D. La Due, 1853; W. J. Gibson, 1854; Chase A. Stevens, 1855; D. D. Cameron, 1856-57; James D. Condit, 1858; C. W. Marshall, 1859; J. J. McKay, 1860; I. E. Messmore, 1861; T. B. Stoddard, 1862; E. M. Phillips, 1863; S. S. Burton, 1864; T. N. Horton, 1865; Angus Cameron, 1865-66; Angus Cameron and D. A. Kennedy, 1867; Theodore Rodolf and Nathan P. Waller, 1868; N. P. Waller and C. C. Palmer, 1869; Theo. Rodolf and P. G. Moulton, 1870; P. G. Moulton and G. C. Hixon, 1871; G. C. Hixon, 1872; Alexander McMillan, 1873; D. A. McDonald, 1874; John Bradley, 1875-76; William Van Waters, 1877; S. Briggs, 1878; John Bradley, 1879-80.

Geo. Edmunds

LA CROSSE.

Judges—Lieut. Gov. Timothy Burns was elected to serve as first County Judge in the spring of 1851. He was succeeded by Hon. George Gale, who was elevated to that position in the fall of the same year. In 1853, R. C. Von Rensselaer was elected, holding the position till 1858. James I. Lyndes followed, but resigned in 1859. Samuel S. Burton was appointed to the vacancy, and, at the expiration of the term, was elected to serve an additional term, which he held till 1865. Hugh Cameron followed, holding till 1870. Capt. Daniel Webster came next, but soon resigned, his place being filled by B. F. Bryant, who was appointed by Gov. Fairchild to serve for the unexpired term. C. S. Benton came next, and was re-elected in 1877, resigning in March, 1881. Hugh Cameron was then appointed, and since then elected to serve till January, 1886.

Sheriffs—1851, A. Eldred; 1853, James W. Polleys; 1855, Moses Clark; 1857, Moses Clark; 1859, George Staley; 1861, Isaac L. Usher; 1863, H. N. Solberg; 1865, Joseph P. Scott; 1867, James W. Polleys; 1869, H. N. Solberg; 1871, John S. Simonton; 1873, Peter Moe; 1875, H. S. Phillips; 1877, Charles L. Halstead; 1879, Mark M. Battles.

Treasurers—1851, Peter Burns, F. M. Rublee; 1853, Ira Myrick; 1854, William Hood; 1855, William Hood; 1857, William Hood; 1859, T. N. Horton; 1861, T. N. Horton; 1863, J. B. Juggen; 1865, C. C. Palmer; 1867, C. C. Palmer; 1869, N. P. Waller; 1871, F. Fliester; 1873, L. D. Robey; 1875, John Lienlokken; 1877, J. Lienlokken; 1879, John Lienlokken.

Clerks of Court—1851, R. Looney, H. E. Hubbard; 1853, H. E. Hubbard; 1855, H. E. Hubbard; 1857, Leonard Lottridge; 1859, Leonard Lottridge; 1861, O. H. Smith; 1863, H. J. Peck; 1865, H. J. Peck; 1867, H. J. Peck; 1869, Christian Koenig; 1871, C. Koenig; 1873, C. Koenig; 1875, Charles Smith; 1877, Charles Smith; 1879, C. Smith.

District Attorneys—1851, Chase A. Stevens, Edwin Flint; 1853, J. K. Fureh; 1855, C. R. Rogers; 1857, M. G. Hanson; 1859, Alexander Cameron; 1861, J. W. Losey; 1863, E. H. McMillan; 1865, G. M. Woodward; 1867, G. M. Woodward; 1869, G. M. Woodward; 1871, G. M. Woodward; 1873, B. F. Bryant; 1875, H. M. Safford; 1877, B. F. Bryant; 1879, B. F. Bryant.

Register of Deeds—1851, William T. Price; 1852, Chase A. Stevens; 1854-55-56-57-58-59, John A. Walker; 1860, Victor M. Adams; 1861, Christian Koenig; 1863, V. M. Adams; 1865, A. Steinlein; 1867, A. Steinlein; 1869, Leopold Walchenheimer; 1871, Leopold Walchenheimer; 1873, Leopold Walchenheimer; 1875, Leopold Walchenheimer; 1877, Leopold Walchenheimer; 1879, Leopold Walchenheimer; 1880, Esias Jegler.

County School Superintendents—1861, P. S. Elwell; 1863, F. A. Moore; 1865, J. E. Atwater; 1867, G. S. Patton; 1869, G. S. Patton; 1871, G. S. Patton; 1873, S. M. Leets; 1875, S. M. Leets; 1877, S. M. Leets.

Surveyors—1851, William Hood; 1853, William Hood; 1855, T. N. Horton; 1857, J. F. Bryant; 1859, H. I. Bliss; 1861, H. I. Bliss; 1863, J. F. Bryant; 1865, H. I. Bliss; 1867, H. I. Bliss; 1869, H. I. Bliss; 1871, H. I. Bliss; 1873, J. M. Marti; 1875, S. Middlebrook; 1877, S. Middlebrook; 1879, S. Middlebrook.

Coroners—1851, John M. Levy. [No record to be found during these intervening years]. 1861, G. C. Neumister; 1863, G. Simonton; 1865, John Fox; 1867, John Fox; 1869, J. Manchester; 1871, D. S. Eakins; 1873, James Kevin; 1875, George Hanson; 1877, D. D. Polleys; 1879, C. S. Stockwell.

Superisors—Timothy Burns, Jacob Spaulding and Charles Whipple, 1851; Edwin Flint, W. T. Price and Joseph K. French, 1852; E. Childs, M. Palmer, M. C. Bostwick and M. McMillan, 1853; A. Craue, O. Croak, J. Miller, L. A. Viets, T. C. Gilbert and John Midrum, 1854; Moses Clark, C. C. Palmer, T. L. Smith, William Van Zandt, William Van Water and Jacob Bagley, 1855; James Mohr, E. D. Campbell, James Whalen, William Sims, B. E. Brower, T. L. Smith, W. Van Zandt, I. J. Matheson and V. M. Adams, 1856; E. D. Campbell, W. H. Tucker, L. R. Bowen, John Wheelon, T. L. Smith, C. C. Palmer, William Sims, V. M. Adams, N. J. Tompkins and C. Redburg, 1857; Willis Gregory, George Scharpf, D.

Taylor, N. J. Tompkins, William Moore, G. B. Richardson, C. C. Palmer, T. H. Erman, James Squires, T. L. Smith, S. Woodward, William McConnell, Jacob Steen and D. A. Kenedy, 1858; J. I. Lynds, G. Farium, C. G. Hanscom, R. C. Van Rensselaer, L. Porter, A. S. Fuller, J. S. Metcalf, E. B. Richardson, V. W. Adams, T. L. Smith, E. Redbury and T. Whipple, 1859; H. E. Hubbard, J. Fay, C. L. Coleman, H. B. Calahan, Charles Hall, J. Falbey, William Finhoff, J. Halverson, J. R. Perry, I. Hurlburt, A. Andrews and R. Irwin, 1860; C. L. Coleman, W. W. Crosby, J. S. Simonton, N. Hudgen, M. Barlow, H. A. Winston, Charles Hall, I. Martin, A. F. Fuller, A. S. McCook, E. B. Richardson, Walter Brown, J. R. Perry, J. Halverson, R. Irvin and J. McNeil, 1861.

During the ensuing ten years the Commissioners system obtained.

Commissioners—Thomas Spiree, William Hood and L. A. Viets, 1862; C. L. Coleman, James Barclay, Kund Kundson and L. A. Viets, who was elected to fill a vacancy caused by the resignation of K. Kundson, in 1864; C. L. Coleman, Orange Smith and John Wheldon, 1866; A. McMillan, Charles Hall and V. M. Adams, 1868; S. Briggs and William Van Zandt, 1870.

In 1870, each Township elected its Supervisors, the Chairman of each Town B becoming ex officio a member of the County Board, which was thus made up and elected annually.

A. L. Page, L. R. Bowen, William Hanley, J. L. Pettingill, M. Staddler, S. Briggs, C. C. Palmer, N. Pittinger, W. Nedwilek, Kund Kundson, John Ulrich and Alexander McMillan, 1870; W. Apsey, L. R. Bowen, S. Briggs, John Bell, M. Hess, J. Halverson, K. Kundson, A. Maguire, D. D. Polleys, N. Pittinger, J. L. Pettingill, A. L. Page, C. C. Smith, John Vogel and William Van Waters, 1871; S. Briggs, J. Bell, R. N. Burns, George Howard, J. W. Johnson, K. Kundson, A. Maguire, S. McKown, J. L. Pettingill, A. L. Page, N. Pittenger, T. Rodolf, D. Shane, H. Tasto and W. Van Zandt, 1872; S. Briggs, J. Bell, J. Gutman, C. Hall, J. W. Gutman, J. W. Johnson, A. Maguire, D. D. McMillan, S. McKown, N. Pittinger, A. L. Page, T. Rodolf, D. S. Shane, J. Luley, H. Tasto and W. Van Zandt, 1873; S. Briggs, J. Bell, J. Gutman, C. Hall, J. W. Johnson, J. Johnson, A. Maguire, D. D. McMillan, S. S. McKown, A. L. Page, N. Pittinger, T. Rodolf, D. Shane, J. Luley, H. Tasto and W. Van Zandt, 1874; S. Briggs, L. R. Bowen, C. Hall, W. Hauty, J. Johnson, S. McKown, P. G. Moulton, D. D. McMillan, J. M. Murti, A. L. Page, T. Rodolf, J. P. Scott, N. Southard, H. Tasto and W. Van Zandt, 1875; S. Briggs, L. R. Bowen, G. W. Brice, J. Bosshard, W. Hawley, C. Hall, J. F. Hosmer, John Johnson, J. Halverson, A. McMillan, R. Morris, S. McKown, S. L. Nevins, R. T. Roberts, J. P. Scott and W. Van Zandt, 1876; S. Briggs, W. B. Gahen, J. F. Hosmer, D. D. McMillan, S. B. Oatman, Frank Pooler, J. A. Pettingill, E. R. Roberts, T. Richmond, R. T. Roberts, F. B. Smith, J. P. Scott, D. Shaw, T. Shimmins, H. Tasto, R. Tausche and D. A. Thayer, 1877; J. Bell, F. B. Bradish, W. W. Crosby, J. C. Hewitt, L. Hasvold, J. Johnson, J. Moran, S. B. Oatman, Frank Pooler, E. R. Roberts, A. Rannius, T. Richmond, D. Shane, D. Sandman, F. B. Smith, J. P. Scott and R. Tausche, 1878; J. Augustin, J. Damson, J. C. Hewitt, L. Hasvold, A. Hirschmeier, J. Johnson, C. Linse, G. R. Montague, Frank Pooler, E. R. Roberts, R. T. Roberts, D. Shane, D. Sandman, F. B. Smith, J. P. Scott, R. Tausche and W. W. Webb, 1879; L. Chesier, J. Dawson, J. C. Hewitt, James Gillilliam, L. Hasvold, C. Linse, Joy Pettingill, E. R. Roberts, R. T. Roberts, W. A. Roosevelt, T. Rodolf, L. Strugel, D. Sandman, F. B. Smith, R. Tausche and W. W. Webb, 1880; G. W. Buck, J. Dawson, L. Hasvold, C. Linse, Joy Pettingill, G. W. Robinson, W. A. Roosevelt, T. Rodolf, R. T. Roberts, F. B. Smith, William Smith, L. Strugal, D. Sandman, R. Tausche, D. A. Thayer and W. W. Webb, 1881.

COURT HOUSE.

During the session of the Legislature held in the winter of 1850-51, an act was passed making La Crosse the county seat only on condition of putting up the necessary public buildings within one year and free of expense to the county, in default of which a special election was to

be held upon sixty days' notice, and the site changed to the place having a majority of the votes cast. As the village had less than two hundred residents, and the time given was too short to admit of any extended public action, or any scheme of self-imposed taxation, which would have required a popular vote, there was no resource but to make personal appeals to the generosity of those interested. A most generous response was had, and a frame building of two stories was erected on the site of the present stone structure. It was 26x36, having rooms for all the county officers on the first floor, and a court-room above, which was made use of for almost every gathering of a public nature, as church meetings, public meetings, debating clubs, a library association, etc. It continued to be used for all purposes of a general character till 1867, when it became too small for the increased business of the county. It was sold to a Mr. Pearson, by whom it was removed to Vine street near the corner of Third, and used as a boarding house. In 1866, it passed into the hands of its present proprietor, A. McDonald, and is now the well-known Washington Hotel.

The first jail was a small one-story stone concern of about 15x15, built in rear of and coming up flush against the old court house. The ceiling was filled with several tons of broken stones, with a view to prevent escape by raining down an avalanche upon the hapless head of the prisoner who should seek an escape in that direction. The walls extended down four feet below the surface and a floor was made of flagging. The prison was notorious for its insecurity, as, being built upon the sand, it was a comparatively easy matter to dig out beneath the walls. One of the first tenants was the murderer Watts, whose brutal murder of his old companion, Darst, is still recalled by all the older settlers. It was said to be a standing jest that when the jailer looked disconsolate, an inquiry revealed the fact that he had lost all his boarders. To the question, "How many escaped last night?" the reply would invariably correspond with the number confined.

The new jail was built in 1858, by A. W. Shepard, and is modeled after the ancient Egyptian, having heavy walls, sloping window casings, and a curved cornice extending around the building at the same level. It is 4x67, and is a rather low structure giving the appearance of great strength and solidity, which it possesses in an eminent degree. The prison proper is 32x45, and contains 16 cells, each 6x9, containing two hammocks. The cells are in two tiers, the floors being composed of a single stone, the ceiling of the lower tier forming the floor of the upper. An open corridor extends around them, inclosed by walls of two feet in thickness, giving the inmates ample room for exercise.

In the living portion of the building are rooms ample for a large family, as also three rooms for female prisoners. All are models of neatness. For a number of years previous to the completion of the new court house, the county offices were in the jail in the division afterward fitted up for a residence for the Sheriff. About two hundred cords of stone were used in its construction. The walls are two feet in thickness with projecting courses at the corners and windows, adding much to the air of massive strength with which it impresses the beholder. It seems impossible that one should ever escape from it, and the writer was told by the jailer that, so far as he knew, no such event had ever happened.

The new court house was commenced in 1867, and completed the following year. Mr. William Listman had the contract, and it can truthfully be said, that for every dollar received the county received an equivalent. This is a most unusual circumstance to record of a public work, and is worthy special mention. This building is on the site of an ancient sand hill, in the center of the public square, fronting on Third street, between State and Vine. Like the new jail, immediately in its rear, it is built solidly of stone throughout. The basement is eight feet in the clear, the foundation course is four feet wide, and one foot below the floor, the wall two and one-half feet thick, in first story, two feet, and in second, twenty inches, all in eight inch courses of magnesian limestone and hammer dressed. The basement partition walls are of brick, eighteen inches in width, and in first story, of eight inches. The vaults for the public records and documents, which are absolutely fire-proof, are of brick, with outer walls sixteen inches in thickness, and inner ones of four inches, with an air flue of four inches between them. These all have

windows guarded by inside shutters of iron, and are as light, dry and airy as it is possible to make them. On the first floor there are nine rooms for the various county offices, which are fitted up with every convenience requisite for the dispatch of business. It would be hard to find officials more attentive to their respective duties or courteous to those seeking information. The court room on the second floor is about 60x60, with seats rising from the front to the rear, so that a perfect view is had of all the proceedings, and the acoustic properties of the room are such that no difficulty is experienced in hearing all that may be said. Rooms for the grand and petit juries are provided on the same floor. The superstructure was built of magnesian limestone, while Joliet stone was used for facings, caps and cornice; 325 cords of stone were used, all dressed on the face. A fine spire crowns the edifice, on which the blind goddess of justice stands, hobbling the impartial balance. The approach from Third street is by a terraced walk of twelve feet in width, and about seventy in length, surmounted at the edges with a beveled stone coping. The steps are twelve inches in width and eight inches in thickness, and are each composed of a single stone. The landing is about 12x15. Upward of 40,000 brick were used in constructing the partitions and vaults. The wood work is as substantial, in its way, as the other materials employed. Everything from top to bottom is solid and enduring, and almost severe in its plainness. The cost of erection was \$35,000; the additional expense of furniture, carpets, desks, etc., brought the grand total to a less amount than \$40,000. The court house is very central in location, and has a most commanding position.

POOR HOUSE.

The only institution for the paupers of the county is the infirmary belonging to the city. It is situated three miles from the post office. It is in the township of Shelby, and is a frame building with a capacity of from fifteen to twenty inmates, and is seldom more than half-filled. A farm of 120 acres was bought a few years ago at an expense of \$5,000. For a time it was rented at \$100 per annum to the tenants of the infirmary, who were allowed \$2.50 per week for boarding the adults, and one-half that sum for children. The present tenant, Frank Mitz, receives the farm rent free, and has the above-named sum for boarding the inmates. The management of this institution is most admirable, and would seem to justify the boast of the leading director of the disbursement of the county funds, that it was the best regulated of any of like purpose in the State. The number of inmates has been reduced, and the expenses reduced over fifty per cent. Formerly, from \$5,000 to \$6,000 had been paid annually for the care of the poor. During the past year, ending April 1, 1881, the total expenditure at the infirmary, and for outside help, was but \$2,335.21. The total number of inmates, at present, is but seven; of these, one is sick in the hospital, one partially insane, one idiotic, and the others are aged, respectively, 71, 74, 83 and 87.

COUNTY SCHOOLS.

The system of County Superintendents was inaugurated in 1861 for the whole State. Although in a general way it is designed that each county shall have a Superintendent, the rule is departed from when a county becomes too populous to have its educational interests managed by a single one, when it is divided into two or more districts, over each of which a Superintendent is placed. This has been done in the counties of Dane and Milwaukee, which have two districts in each and two Superintendents. The duty of these officials is to exercise a watchful supervision over all the schools of the county; to visit every one at least once a year, and as much oftener as occasion may require; to examine and grant certificates to all applicants for positions in schools; to take charge of Teachers' Institutes, which are required to hold at least one, and, in many cases, two sessions each season. The salary is based on population. Where this is from 5,000 to 10,000, the salary is placed at \$800. All counties having less than 5,000 have no fixed sum, the salary being made discretionary with the County Board of Supervisors. This is placed as low as \$100 in the county of Chippewa, and in some of the most sparsely settled counties has been as low as \$50. The highest salary paid is \$1,200, in the county of Jefferson.

C. S. Stockwell, of Onalaska, the Superintendent of La Crosse County, is a professional teacher, having been engaged in that occupation in Lapeer County, Mich., where he held the same position he now occupies. He engaged in teaching at Onalaska in 1876, and was so employed for two years, when he received the appointment of County Superintendent, to fill a vacancy that had occurred. In the fall of 1878 he was elected to serve the rest of the term, and re-elected in 1879 for a full term, which will expire January 1, 1882. No records were turned over to Mr. Stockwell, nor is it known that any are in existence previous to his official connection with the schools. The county has seventy-six school districts, of which four are graded, viz.: One at Onalaska, which has three departments and three teachers; one at West Salem, including a high school, and having four departments and four teachers; and two at Bangor, having two graded schools and four teachers. In two districts there are two schools in each. Aside from the public schools are a number of denominational schools, divided as follows: Five Lutheran schools; one at Barré, one at Shelby—both German; three at Farnington, Norwegian and German, and two Catholic schools, one at Greenfield and one at Washington. An effort is now being made to establish a system of graded country schools. As it would be impossible to have a uniform course like an academy or high school, it is to be based on the attainments of the pupil, who will thus have an incentive to attain to the highest standard his opportunities will admit, for which he will receive due credit. The whole number of children of school age in the county is 4,601; whole number enrolled, 3,042; amount expended for teachers' salaries, \$15,232.90, or \$3.31 per capita; total expenditures for school purposes, including building, repairing, furniture, fuel, and incidentals, \$20,636.72, being \$4.48 per capita. During the year 1880, 171 school visits were made, a full half day being allotted to each visit. All districts have been visited each term. Monthly reports were required from all teachers. At the school examinations there were 201 applicants. Of these, 134 received certificates, viz.: 4 first grade, 17 second grade, and 113 third grade. About half the schools employ a female teacher during the summer, and a male in the winter. Two institutes were held—one at Bangor in March, having an attendance of fifty-nine teachers, and one at West Salem in September, when there was an attendance of fifty-two. A teachers' association exists, which has a library of about fifty volumes of professional works. Ninety per cent of the teachers are readers of educational journals. The schools are kept abreast of the legal requirements, and will challenge favorable comparison with any county in the State. The above facts and figures are exclusive of the city of La Crosse, whose schools are wholly outside the supervision of the County Superintendent.

NORTHWESTERN HORTICULTURAL SOCIETY.

This society was organized December 26, 1879, with twelve charter members. The first officers of the society elected were: J. W. Losey, President; J. S. Harris, First Vice President; John Van Loon, Second Vice President; John Ulrich, Third Vice President; L. W. Brigham, Secretary; L. H. Pammel, Treasurer.

The object of this society is: "To improve the condition of pomology, horticulture and gardening; to discuss and disseminate information upon all questions pertaining to horticulture.

The society holds its annual meetings on the first Tuesday in December, and otherwise provides for quarterly meetings occurring in March, June and September.

At their meetings thus far, since organizing, various topics have been discussed, and papers have been prepared, read and discussed also. The society now numbers fifty-two members, with the present officers: John S. Harris, La Crosse, President; A. J. Phillips, West Salem, First Vice President; S. S. Luce, Galesville, Second Vice President; Mrs. W. P. Powers, La Crosse, Third Vice President; L. W. Brigham, La Crosse, Secretary; L. H. Pammel, La Crosse, Treasurer. Their first fair was held in June, 1881, in connection with the Wisconsin State Horticultural Society. One dollar procures a year's membership for gentlemen, ladies being honorary.

The following fruits, trees and shrubbery are recommended by this society for this locality and the Northwest in general:

Fruits—Apples: Dutchess, Wealthy and Tetofski. For favorable localities, Fameuse, Uter, Price's Sweet, Wallbridge, Plum Cider, Willow Twig and Tollman Sweet. For trial, Pewaukee, Ben Davis, Alexander, Red Queen and Haas.

Crab apples, for general planting, Transcendent, Whitney No. 20, Atkin's Winter, Early Strawberry and Maiden's Blush. For trial, Conical and Quaker Beauty.

Grapes, for general cultivation, Concord and Delaware. For trial, Beauty of Minnesota, Worden, Rogers No. 15, and Brighton.

Strawberries, for market, Wilson; for family use, Green Prolific and Downer's Prolific. For trial, Charles Downing.

Raspberries, red; for general cultivation, Turner and Philadelphia; black, Seneca and Doolittle.

Plums, De Sota.

Blackberries, for trial, Snyder and Ancient Briton.

Trees—For general planting, White Elm, Sugar Maple, Soft Maple, Blue Ash, European Larch, Box Elder, Basswood, Hickory, Mountain Ash and Butternut.

Evergreens, Norway Spruce, Scotch Pine, Hemlock, Red Cedar, Austrian Pine, Balsam Fir, American Juniper, White Pine and American Pine.

Hardy shrubbery—Snowball, Purple Lilac, White Lilac, Bush Honey-suckle, Tree Peony, Flowering Almond, Syringa grandiflora, Barberry, Wahoo, Waxberry and Hydrangea.

Bedding plants—Verbena, Heliotrope, Lantana, Pansies, Caladins, Petunias, Colons and Geraniums.

LA CROSSE COUNTY BIBLE SOCIETY.

On Sunday morning, July 4, 1852, at the usual hour for divine service at the court house, an address was delivered by Mr. A. Lord, agent of the American Bible Society, in advocacy of the claims of that society.

At the close of the address, a meeting was called for the purpose of organizing a Bible society in the county of La Crosse. Rev. John C. Sherwin was called to the chair, and W. W. Ustick appointed Secretary of the meeting.

It having been resolved in due form to organize a county society, a constitution was adopted, and the following officers were elected: George Gale, President; Rev. W. H. Card, Vice President; Rev. J. C. Sherwin, Secretary; Walter Brown, Treasurer; Samuel T. Smith, F. M. Rublee, and B. S. Reppy, Directors.

The local agents were appointed as follows: Dr. H. Johnson and Mrs. J. C. Sherwin, La Crosse Village; Rev. F. Walrath, Sparta and Little La Crosse settlement; Dr. A. M. Hill, Fleming Creek Valley; George Bachelder, Trempealeau; Mr. Viets, Viets and Segar Settlement; Mr. Valentine, Black River settlement; Mr. S. Smith, La Crosse Prairie and Mormon Cooley.

The society being thus organized, an opportunity was given for persons to contribute funds, and \$70.20 was raised.

The society, since its organization, has continued to do the good work begun at that time.

It keeps in its depository a great variety of the publications of the American Bible Society, not only in English, but in German, Welsh, Dutch, Swedish and Norwegian languages. These Bibles and Testaments are sold at cost of production to all who wish, and are freely given to those who cannot afford to purchase. The county has been carefully canvassed several times, for the purpose of supplying all who were willing to receive copies of the sacred Scriptures. The Bible Depository is at the store of Mr. George Howard, No. 35 Main street, city of La Crosse. The officers of the society for the year 1881 are as follows: J. P. Toms, President; George McMillan, Vice President; William W. Jones, Secretary; George Howard, Treasurer. Directors, W. W. Ustick, John James, J. Spier Colman, and D. D. McMillan.

WAR RECORD.

At this period in the history of La Crosse, in the history of the aggregation of commonwealths which composed the American Republic, formulated her laws, guided her destiny and contributed to her renown, the war for the preservation of the Union came upon the nation unexpectedly, overwhelmingly.

The citizens of La Crosse County had, previous thereto, been identified with the several political organizations which had successively maintained a predominant prominence, but all were friends of freedom, and realized that the political supremacy of the seceding States meant centralization, anarchy, ruin. If mere precedent failed of establishing this conclusion, the indications were strongly in their favor. They knew that the history of the world was a history of despotism in lands when the government has been held in the hands of the few. They realized its necessity if nations were to remain stationary, rude and ignorant, and advancing time made no new demands upon the people who composed the nation. Again, a powerful minority had, in years past, been identified with the Whig party, and inheriting a strong anti-slavery sentiment from its teachings, had become the corner-stone of the Republican party, with the crystallization of that organization less than a decade before at the capitol of the State.

Such were the influences that responded to the cry to arms during that epoch in American history when the life of the nation was trembling in the balance. The triumph of despotism would be celebrated, argued all, if the people from Maine to California failed of their duty: liberty would perish with the disintegration of the States, and the golden age of the nation would give place to an age when the self-evident truths, for the perpetuation of which that nation was created, would be rejected. The history of civilization was the history of government, they knew; progress or improvement lessened or increased as the scroll of Time's great drama is unfolded, in proportion as freedom from despotism is enjoyed. They knew that each State in the constellation was woven therein to add beauty and strength to the whole, and that the somber threads of experience, with blasted prospects and without hopes, were interlaced with the gleaming threads of success and gratified desires, each the complement of each, needed to perfect the other. The question which then presented was as to whether the Union, with its associations, its prestige, its protecting care and hallowed memories, should be preserved or permitted to expire and become as a tale that is told. The mass of the people, as the world knows, rendered their verdict in favor of an enforcement of the laws: their response, like a ray of sunshine, drove away the mists of gloom and made a poem of their lives, whereof duty, patriotism and victory were the heroic stanzas. Sometimes old memories come to the survivors of the struggles that followed; crowd thick upon them and cause their hearts to ache; sad memories, bitter, bitter memories slip in, but after all the past has the bright side to look back upon and dream over—the preservation for the benefit of future generations, liberty founded upon duties as well as rights, and the irrevocable judgment of man as to the perpetuity of a Republican form of government. The influence of this preserved government is on the wing to-day, to-morrow, forever. Like a veiled evangelist it has gone abroad throughout the nations of the earth, never showing its face, but making its mighty presence felt, and that influence will continue until vice becomes dumb and virtue waits in silence for the tramp of the archangel and the voice of God.

As memory takes an inventory of the years of war and bloodshed, the scenes of which pass before mankind as a panorama, the results appear in all their magnitude, and Hope submits proposals for the future which cannot be rejected. Since its close, the victories of peace have been grander than any the historic epoch gave birth to. The arts, sciences and every appliance of civilization, have made rapid advances. During its existence, unnumbered heroes were laid to rest in mother earth, and American history was made luminous with the records of military valor and patriot devotion. But the years which followed the truce at Appomattox Court

House, have been pregnant with great ideas and beneficent results, that will increase in value as the days that are gone, like evening shadows, grow long and dim.

Until the firing upon Sumter announcing the ultimatum of the Southern people to be war or secession. Hope sprang eternal in the breast of patriots that the impending difficulties might be avoided through the agency of compromise. Hope beget a feeling that the Union would be preserved without recourse to arms, and that the angel of death would not be permitted to rustle his wings of darkness through the ranks of American soldiers who enrolled for the war. Through the delicious days of that spring of 1861, when, as if inspired with affection, the soft south wind bathed the temples and brows of men, and the golden sheen of the sun darted through it like an arrow shot from some invisible bow, no man dreamed of the days of death and danger the future reserved for his acceptance. But when the faint, low sighing, like distant choirs of melody, out of tune and harsh, came over the wires bringing the condition of affairs home to the convictions of Americans, the alternative presented by the foe, there was no hesitation made to accept it, and the citizens of La Crosse County armed themselves for the strife. Meetings were held, addresses made, money subscribed, and soldiers enlisted. Within a brief period from the time when earnest words of inspiring appeal had dropped from the lips of the eloquent orator; from the time when liberality and humanity was made manifest in the highways; from the time when soldiers parted from those they loved, from mother's arms and wife's embrace, many of them became palsied in death. Soldiers of the Republic—brave men they were—who died with their armor on, falling with their faces to the foe against whom they so unflinchingly fought. Whoever, throughout all the after history of the nation they so grandly honored and so industriously served, has respect for patriotic valor and patriotic death, will drop a tear upon the grave and have a tribute of praise to offer to the memory of that immortal band. Heroic men! Their homes were left desolate, poverty stalked through the doorway, perhaps, and with sorrow and affliction as handmaids, prevented the entrance of consolation or of sunshine.

No pen can describe those old days, those near yet far-off days, paged with dear legends, when some went to the battle's front and some went gypsying to the camp. No limner's art can trace those days, so sad, so dear, so filled with tender thoughts of those who went and returned no more; of those days when right was on the scaffold and wrong upon the throne; when the sun of American liberty seemed near to the horizon. The struggle for natural life is still fresh to the memory of even those who, during its existence, were babes, when brief moments of bright hopes were succeeded by bitter disappointments, when clear skies and generous sunshine were followed by gloom and sorrows, and when generous ambitions gave place to humiliating defeats, filling the heart with sorrow and sorrowful memories.

On the 15th of April, 1861, Lincoln issued his proclamation calling for 75,000 troops to suppress combinations in the seceded States, to cause the laws to be duly executed, and, on the following day, Alexander W. Randall, Governor of Wisconsin, supplemented the President's requisition by a call for one regiment of militia for immediate service.

In the city, the news concerning the existence of actual hostilities was met with sorrow and a determination on the part of citizens to remove these effects by the destruction of their cause. Recruiting offices were opened, and overflowed with the excess in number of those who aspired to unite with the ranks and march to victory to the music of the Union, now and forever.

Wilson Colwell, Captain of the La Crosse Light Guard, and J. T. Foster, commanding the La Crosse Artillery Company, were among the first to call for volunteers under the proclamation. Both of them went to the front, and one of them fell before the attacks of the enemy—fell in the morning of life, at the morning hour, before the sun's rays gave promise of the advent of the god of day, when the world was still, when the birds were singing, before the dew-drops had passed to heaven, before the stars had gone to rest with the going of the dawn. The feelings of patriotism and love of country evinced in the city were duplicated throughout the county. Everywhere age forgot its crutch, labor its task, to engage in that preparation for unity and immortality, the clarion notes of which were then beginning to be heard in the noise

of the drum, the voice of the bugle, the clatter of musketry, the reverberations of the artillery and the whistle of the shells ricocheting over fields, through woods, on the hillside and in the valley. Their effects, too, were manifested in the hurrying to the front, in the cheeks of her now pale and ready for the seal of the Master of mortality, that once warmed into love and were stained with the blush of the bridal. They were plainly to be seen in the new-made graves, hiding dust that was precious to those left behind—to the lad whose cheek was dimpled with joys of youth, to the wife who stood sobbing in the sunlight as he passed, and forever, to the old man whose silvered head was bowed in grief, to the loving mother, who tarried but a little way behind before she, too, sank to slumber in the "windowless palace of rest."

There was but one sentiment found expression among the people of the North, who stood up shoulder to shoulder, unmindful of past political affiliations and predilections. They ignored differences gone by, and waited for the word to march in unbroken phalanx to the field of battle, there to shed their last drop of blood in defense of the national honor. The divided North that was anticipated at the South failed to materialize for the reason that the right was lacking in their creed of government. The wilderness, inherited from former generations, had been made into gardens, and with this title was vested in the heirs a determination to realize that strength which exists in Union, and to respect their flag which is everlasting as the hills.

On the evening of April 22, 1861, the loyal people of La Crosse convened at Leiderkranz Garden for the purpose of obtaining an expression of opinion in reference to the condition of the country.

The Hon. C. C. Washburn presided, and M. M. Pomeroy acted as Secretary, with the following Vice Presidents: Gen. Crosby, ex-Mayor Levy, A. W. Pettibone and T. W. Edwards. A series of resolutions expressive of the views of the assembly were reported by the committee, consisting of Messrs. Seymour, Cordry, Barlow, Scharpf and Baxter; speeches were made by "Brick" Pomeroy, A. W. Bishop, Dr. Baxter, Hon. W. Hull, Gen. L. E. Webb, A. W. Pettibone, Dr. Blakelee and others, and \$3,451 were subscribed as follows: C. C. Washburn, T. B. Edwards, Artillery Company, N. Huntgen, Tenny, Otman & Co., Company K, and S. and C. K. Martindale, \$100 each; Lloyd & Supplee, Létridge & Seymour, and Moses Anderson, \$75 each; M. M. Pomeroy, Milton Barlow, T. N. Horton, John Sorvis, Walter Webb, L. E. Webb, T. O. Wells, S. A. Gillette & Son, J. & J. Andrews, James Vincent, Colton & Whelpley, Dunlap Brothers, Neuman & Cantrovits, W. R. Sill, G. A. Metzger, M. Henderson, Bishop & Cameron, H. T. Runsey and T. B. Stoddard, \$50; J. A. Sumner and W. B. Hanscome & Co., \$30; H. B. Calahan, J. W. Polleys, C. F. Parsons, Justus White, A. J. Stevens, V. M. Adams, S. C. Barton, T. P. Lavery, W. E. Potter, H. E. Hubbard, Barron & Kadish, R. I. Johnson, S. B. Shelton, J. C. Coombs, W. C. Root, J. B. Jungen, Wehausen & Hunt, S. S. Barton, Lewis Pammel, C. B. Solberg, J. K. Lush, M. M. Cordry, W. C. Rogers, C. H. Eaton, George Stanley, L. C. McKenney, W. W. Crosby, S. Kellogg, C. L. Colman, Shimmus & Helburg, Hogan & Bauman, I. Cantrovitz, F. P. Metcalf, G. H. Garrett, G. W. Morgan, J. T. Van Valkenberg, J. M. Loomis, Cone & Fay, W. W. Jones, W. H. Lemon, George Edwards, Leach & Paul, M. G. Bradbury, J. McCrary, J. L. Lyndes, J. Fay, A. A. Stevens, George Carlton, A. T. Clinton, Ira Cole, C. Michel, A. Overbaugh and G. R. Montague, \$25 each; Black & Bradish, John Halverson, E. K. Buttrick, George Hoare, J. R. Condy and George Scharpf, \$20 each; Joseph Gutman, T. Atkinson, L. Stans, H. I. Bliss, O. Ewe and George Snelling, \$15 each, in addition to a tract of 100 acres of land from Edward McFadden.

A feature of the times was the following call, which appeared at the head of the editorial columns in the *La Crosse Democrat*:

WANTED.—Two hundred and fourteen men are wanted to enlist as volunteers for the war, to form a company of "horse volunteers," the dress to be gray pants, red shirts with lion collar, gray mantle to come to the saddle when mounted. The name of the company to be a short rifle, two revolvers and a saber. Horses to be bay or brown. Those who will enlist for the entire war, be it short or long—who can live, if need be, on one food and three nights a day—or more tight and less eat, will please send in their names to the undersigned. The company, when full, to elect its officers, and be in readiness to meet at La Crosse as soon as arms and horses can be furnished. The proposed name, "Wisconsin Tigers," will indicate the amusements offered.

La Crosse, April 26, 1861.

M. M. POMEROY.

The above was kept as a standing "ad" for several weeks, but does not appear to have charmed the necessary complement of men ambitious to become Tigers, and with the Tigers stand, in gray pants and red shirts with low collars, armed with a deadly minie, two revolvers and a saber, and ready to live on one meal a day. "Brick's" overtures were not met with the response he anticipated, according to all accounts, and the undertaking was abandoned long before "Old Bob" assumed command in the five-days' fight. As times changed, it is an historic fact that "Brick" changed with them, and between the inception of war, in fact, and the surrender, was resolved from an ardent advocate of death in the last ditch, and a leader of men identified with the Union, to a "peace at any price" man, with all that the name implies. Why this radical change, or whence proceeded the cause, are conundrums as incapable of solution as an improbable theorem in mathematics.

The first company to enlist for the war in La Crosse County was the Light Guards. It responded to the first call for troops for three months, but before it could be mustered into service the quota for that length of time was full, and hence it became part of the number under the call for three years or the war. On the evening of April 30, 1861, the ranks having been filled up to the requisite number, the organization assembled at Barron's Hall, preparatory to their departure for Madison. Many of the company being without blankets, the ladies of La Crosse supplied them with a liberality and irresistible *en pressment* characteristic of the women whose those troublous times brought prominently to the surface, in the performance of acts which have shined their sex with a luster that time cannot diminish, or distance quite obscure.

In all times of trial and affliction, the sympathies of a true woman are of priceless value. By the hearth, in the cloister, when disappointment and ingratitude, with corroding care, gather round one; when the gaunt form of poverty menaces with his skeleton fingers, and in the chamber of death, their sympathies gleam about the soul like an angel's smile. It would seem that God, compassionate woman's first great frailty, had planted these jewels in her breast, the heaven-like influence of which should cast into forgetfulness man's remembrance of the fall, by building up in his heart another Eden, where perennial flowers ever bloom and crystal fountains gush from exhaustless springs.

At half past 10 o'clock, on the evening mentioned, the company was ordered to fall in, and Col. William Hull addressed them in feeling and appropriate terms. He was followed by Dr. Baxter, who concluded his remarks by asking the company if they would ever disgrace their banner, to which the united voices of eighty-five men responded, "Never!" In marching to the depot, the Pioneer Engine Company led the van, followed by the departing soldiers, who boarded the train after having taken farewell of their friends, and at midnight began their journey to fame and Camp Randall.

The Light Guard—Was organized in 1858, uniformed in 1859, and prominent in military circles in the West. It mustered into the Second Regiment of Wisconsin Infantry as Company B, and from that date, as a portion of the "Iron Brigade," it became the pride of the city, State and nation. In all the battles fought by that famous organization, Company B was conspicuous for bravery and endurance, and probably better known than any individual company in the Army of the Potomac. The long line of promotions from the rank and file of this company to prominent military positions during the war was conclusive evidence that its membership was composed of the very best citizens, who always make the most effective and successful soldiers. Of the original Commissioners who went to the front with the company, Capt. Colwell was killed at the battle of South Mountain September 14, 1862; Second Lieutenant Robert Hughes was killed in the Wilderness in September, 1864; while Frank Hatch, First Lieutenant, was wounded at Bull Run, and afterward promoted to command a battalion of cavalry in the West.

"How little do we know of what we are;
How less of what we may be!"

Pass down the memorial column of those who went out to preparation on that mild spring night, thence to become part of the Army of Northern Virginia, and mark the names of those same who fell during the campaign of the Peninsula, at Gainesville, Antietam, Chancellorsville.

Gettysburg, South Mountain, whose bodies have been laid to rest on the banks of the Rapidan, in the swamps of the Chickahominy, by the side of Falling Waters, where their graves are their monuments and their burial places sacred to Americans as is Jerusalem to the Hebrews, a city about which cluster thoughts of the greatest history of the past; or as was Athens of old to the Greeks, the city of memories, the shrine of the arts, the germ of ideas. If there is a spot in all this land of liberty where time and enduring marble should rear high its tablet of illustrious names, and of renowned events, it should be in that estate where the American flag was never lowered, and where the proudest columns that ever crossed the plains laid down their arms and dispersed to desolate homes with honor and a parole as a testimony of their prowess. And Company B, of La Crosse, bore a prominent part in the contest for national supremacy, from Bull Run to Appomattox. Beneath the fluttering folds of the Stars and Stripes her sons fought and died, even as that "star-flowery banner" was planted amid the whirlwind of shot and shell upon victorious battlements, but not before the portals of heaven had been opened to gather in and soothe to an eternal rest many a soul that was "drooping, mute and motionless."

The composition of the company upon its muster in for three years was as follows: William Colwell, Captain; Frank Hatch and Robert Hughes, Lieutenants; C. C. Messervey, Milo Pitkin, James D. Wood, R. A. Scott, and W. M. Spear, Sergeants in the order named; R. W. Burns, U. P. Olin, H. B. Jarvis, P. C. Dann, W. H. Sherwood, C. C. Busher, F. H. Lee, and James Woodward, Corporals; Edward Cantwell Fifer, Ignatius Anders, Henry Agnew, L. M. Baker, L. H. Bunnell, George Brown, J. O. Burroughs, H. B. Beardsley, Robert Barnes, William Brown, Jefferson Brackett, O. M. Bradford, E. O. Brewster, M. B. Burns, J. P. Blakeslee, D. F. Chapman, G. W. Currier, A. Coffin, H. Coffin, J. M. Clark, W. H. Collins, C. D. Clark, Newton F. Chapman, J. C. Cary, William Donald, S. R. Dow, John Donovan, George H. Estabrook, N. F. Eldridge, Richard Fabey, W. Frigger, C. W. Farrand, George W. Fisher, Joseph Frame, F. F. Forrest, George Fax, George W. Flemming, W. Franklin, George Gillis, W. L. Gordon, George Gross, F. Hildreth, J. Hawkins, A. E. Haven, G. Hollenbeck, Elijah Heath, E. Huggins, C. C. Jenks, George Kuneson, Andrew Knoblanch, D. W. Knox, D. W. Kenney, L. Lockman, M. Lee, J. C. Leach, William Johnston, J. P. Jackson, T. B. Lavery, C. W. Messer, J. S. Marsh, N. Molson, R. S. McClintock, E. Markle, E. E. Moore, J. McCoy, F. Mertens, J. Martin, D. B. Pieon, Edward Potter, P. Post, F. J. Phelps, E. Reardon, J. B. Rand, F. Riebe, Claus Reickeman, Thomas B. Rand, J. H. Smith, William Stace, H. C. Smith, G. G. Symes, C. R. Spafford, R. Swartz, J. W. Sloan, J. W. Seymour, P. G. Tompkins, Cyrus Van Cott, John Van Cott, John B. Webb, E. K. Whiting, Reuben Wright, G. M. Woodward, C. Washburn, G. Wenzell, George Washburn, J. Warren, E. D. Weeks, and James Wylie, Privates.

It need only be added that the company, to use the language of a commander of the Potomac army, "was with the 'Iron Brigade,' and won the admiration of the highest officers in the army." On the 11th of May, 1864, the Second Regiment became so reduced that less than 100 men remained fit for service, when they were assigned to provost duty, remaining in that capacity until mustered out of service in June following, when with 133 men, all told, out of 1,000 mustered in three years before, the company and regiment returned to Wisconsin.

The Eighth Regiment, known as the "Eagle Regiment," contained one company enlisted in La Crosse at a period in the history of the war when the outlook was far from encouraging. At that time, as will be remembered, the duration of the war was admittedly beyond the ken of prophets, and the decision of the arbitration one of doubt, to say the least. Self-appointed Cassandras were of frequent birth, and the predictions they ventured were of as distressful import as those which preceded the destruction of Troy. The shadows had begun to grow thicker and darker with the coming of the first winter of the war; many homes had been shaded with sorrow and draped with mourning, and the clash of arms had disturbed the peaceful pursuits of life to supply the increasing demand for human material. The recruits mustered in for a period of three months no sooner became efficient than the expiration of their term of service incapacitated them for duty. The three years' recruits had scarcely attained sufficient profi-

ciency in the knowledge of war to render them effective against the drilled forces they were expected to put to flight. Under embarrassments thus suggested, the Eighth Regiment was organized, and as its subsequent history illustrates, became one of the most reliable, brave and successful organizations that was sent into the field from the Badger State.

Company "F" was enlisted in La Crosse and vicinity late in August or early in the month of September succeeding the defeat at Manassas. The officers were M. M. Baker, Captain; A. D. Hickok and H. D. Lathrop, Lieutenants; S. J. Sergeant, Thomas J. McMahon, Duncan A. Kennedy, O. O. Sisson and George L. Govner, Sergeants; H. S. Phillips, P. Plunges, A. Mahoney, John Sullivan, D. H. Hall, W. C. Brown, F. J. Painter, John Flynn and M. Schenck, Corporals; Hiram Adams, J. P. Aney, S. Anderson, W. H. Andree, J. Allen, A. K. Allen, M. Bassett, B. P. Bearlley, W. Baker, C. Brown, Henry Baker, M. Bloom, David Cronon, Edmund Cronon, Thomas Cunningham, F. J. Case, R. W. Clark, F. D. Colver, S. B. Cox, E. Conboy, J. O. Chilson, W. Cunnamon, P. Donnelly, C. Downer, D. Davis, E. N. Evans, P. Erickson, J. C. Edgar, J. Ferguson, John Gladson, Andrew Gladson, M. Godert, G. Gronaveldt, G. Glover, J. Hammond, L. Holowok, O. B. Hook, W. E. Hewitt, C. Holbrook, D. Hare, J. Hall, L. K. Houk, J. Hittinger, M. Hare, A. J. Johnson, C. H. Joolsen, H. Jordan, C. Jansen, Z. Johnson, M. Johnson, J. Kendall, George Key, G. Kottinger, M. Liverman, C. La Vone, D. Langston, O. Larson, J. Mellor, H. A. McNiell, J. Myers, John Newton, A. I. Nash, J. W. Nash, M. Northrup, C. Olsen, I. Olsen, S. Olsen, J. Olsen, Paul Olsen, John Oberlee, W. A. Penfield, V. Perlam, Eugene Perlam, A. Pruett, N. Quiggle, John Richards, R. Rogers, N. X. Saunders, R. Sage, H. Swennik, James Sykes, John Shores, J. Sly, H. V. Sacia, G. W. Trade, B. Trainer, J. Thorp, E. J. Vernon, Van Loon, A. J. Vilboom, J. Underwood, R. Van Loon, R. A. Walker, A. H. Wyman and A. Wood, privates.

The company was mustered into service on the 11th of September, 1861, and, on the 12th of October following, left Camp Randall for service in the field. After a brief sojourn at Benton Barracks, near St. Louis, the company became attached to the Western army, serving at New Madrid, Island No. 10, Farmington, Tenn., Iuka, Memphis, Jackson, Miss., Young's Point, Canton, Miss., Red River, Nashville, Mobile, etc., and were mustered out at Demopolis, Ala., September 5, 1865, arriving at Madison one week later, where they were discharged, having, during their service, marched 4,004 miles, and traveled 10,810 miles by rail and river.

It is, perhaps, not unworthy of note that the eagle which they took with them from the State survived the campaigns through which the Eighth passed, enjoying excellent health and undiminished appetite until the spring of 1881, when he died.

Company D, Fourteenth Regiment of Infantry, was recruited in La Crosse in the winter of 1861, and rendezvoused at Camp Wood, Fond du Lac, where it was mustered into service January 30, 1862. On March 8, following, the regiment was removed to St. Louis, where it remained until receiving orders to move up the Tennessee River, where transports were taken and the regiment conveyed to Savannah, Tenn. The Company participated in the battle of Pittsburg Landing, Lieutenant Staley distinguishing himself by the capture of a gun from a Confederate battery. The regiment afterward proceeded to Hannburg, Corinth, Bethel, Iuka, Memphis, Vicksburg, Lake Providence, Milliken's Bend, Grand Gulf, being assigned to the position of honor at the surrender and occupation of Vicksburg, and evoking from Gen. Ransom the remark, "every officer and man in the Fourteenth is a hero." Natelez, the Red River expedition, Tupelo, Duvall's Bluff, Cape Girardeau, Warrenton and other points in Missouri, Nashville, New Orleans, Spanish Fort, Montgomery and Mobile, where the regiment arrived on the 27th of August, 1865, and where, on October 9 of the same year, it was mustered out of service, arriving at Madison on the 22d, when it was discharged.

The company, when it left La Crosse, was as follows: James Polleys, Captain; G. W. Staley and David Law, Lieutenants; David Kimball, Edward F. Doane, Charles R. Spafford, Henry C. Anderson, Timothy O'Brien, A. M. Watson (Ordery Sergeant), R. E. Osborn, Oscar P. Allen, S. Amuson, W. F. Blackley, W. H. Brooks, C. M. Butts, Alfred Collins, W. Chapman, Louis Amholt, Willard Atkinson, John Cready, J. H. Chambers, B. M. Dunham, Daniel

Davis, William Dolan, Edwin Elkins, James Foster, Daniel F. Farr, Moses Frost, I. Gallagher, Samuel Gertin, J. M. B. Glenn, Cyrus H. Glenn, Patrick Gerr, James Harris, James Harrison, Joseph Hafner, Patrick Haloran, Samuel Hunstable, Edwin Howard, S. A. Harris, Charles W. Jenks, John Johnson, Harvey Kimball, Frederick Koch, William Logan, Alfred Lowell, James F. McCoy, John McCoy, Charles Millard, S. H. Moodie, William Mc Connell, Shadrach Mason, John Nevins, H. P. Newland, M. Owens, J. M. Owens, T. W. Owens, Herman Runge, William A. Strosander, Ezra Sherwin, Louis Sprain, David Seaton, Cyrus H. Shepard, J. Snodgrass, William Taylor, Robert J. Thomas, Everton Tucker, O. Vincent, H. Vincent and T. J. Woodeock, privates.

Company F, Twenty-fifth Regiment, was raised in La Crosse and Jackson Counties, during the summer of 1862, by Capt. J. C. Farrand, of Onalaska. About the 1st of September, the company was organized under the name of the "Black River Tigers," and on the 14th of the same month mustered into service for three years or the war. Within a week thereafter, it proceeded to Minnesota River, and remained on the Northwestern frontier until January, 1863, thence proceeded to Columbus, Ky., Yazoo River, Vicksburg, Lake Providence, Eastern Arkansas, Canton, Miss., Cairo, Decatur, Ala., Resaca, Dallas, Kenesaw, Atlanta, through the Carolinas, and took part in the review at Washington, after which they were mustered out.

On the roster of members, as mustered into the service, the following were from La Crosse County: James C. Farrand, Captain; Parker C. Dunn, First Lieutenant; Oscar K. Hickok, First Sergeant; Alfred H. Lamb, Fourth Corporal; Leonard Alley, Joseph Aiken, Oleff Erickson, Seth M. Gedney, Thomas W. Joy, Ezra Lockman, James H. Miller, William G. Papst, Joseph Shafer, George Smith, William J. Spencer, John White and Frederick Halinka, privates.

In August, 1861, Capt. Jacob T. Foster, commanding an artillery company in La Crosse, received orders to fill up his organization to 150 men, as soon as possible, and proceed to camp in the vicinity of the city.

The Captain had previously offered the services of the company, but not until this date were they accepted. It was commanded by J. T. Foster, who resigned his position of cashier of the Green Bay Bank for that purpose, supported by Alexander Cameron, District Attorney; A. W. Bishop, a prominent lawyer; John Anderson, a leading teacher, and J. L. Usher, a wealthy farmer as Lieutenants.

Recruiting progressed rapidly, and on September 16, an election of officers was held, followed on the 19th by the presentation of a banner from the ladies of La Crosse. It was army regulation size, composed of heavy silk, bordered with gold fringe, embellished with two heavy gold cords and tassels, surmounted with a golden eagle, holding in his talons arrows and olive branches. Dr. Cameron made the presentation speech, which was responded to in an appropriate manner by Capt. Foster; addresses were also delivered by Charles Seymour of the *Republican*, Judge Gale, Mr. Montgomery, Lieut. Otis and others, the exercises of the day concluding with a benefit ball at the Augusta House, which was largely attended by citizens of La Crosse and the surrounding country.

The company remained in La Crosse until the evening of Wednesday, October 2, 1861, when it proceeded to Camp Udey, near Racine, and went into camp. Previous to their departure, a reception was held at Barron's Hall, which was crowded to its utmost capacity by friends of the "boys," who were there to bid them a kind farewell and God speed on their mission. Short speeches were made, and the ceremonies were impressive, as many an eye unused to tears testified.

About 11 o'clock, a procession was formed, headed by the Bohemian band, thence following the Missouri Sharpshooters and Fire Department, under the escort of which the company went to the cars. Although the hour was midnight, it was a demonstration of which the city was proud, and after a brief time passed in final leave takings, and, amid hearty cheers, the train bearing the company departed for other fields. Much was expected of this organization; its composition was of a superior quality, the officers having occupied prominent professional positions, which they resigned to enter upon the duties of their rank, and with the non-commis-

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