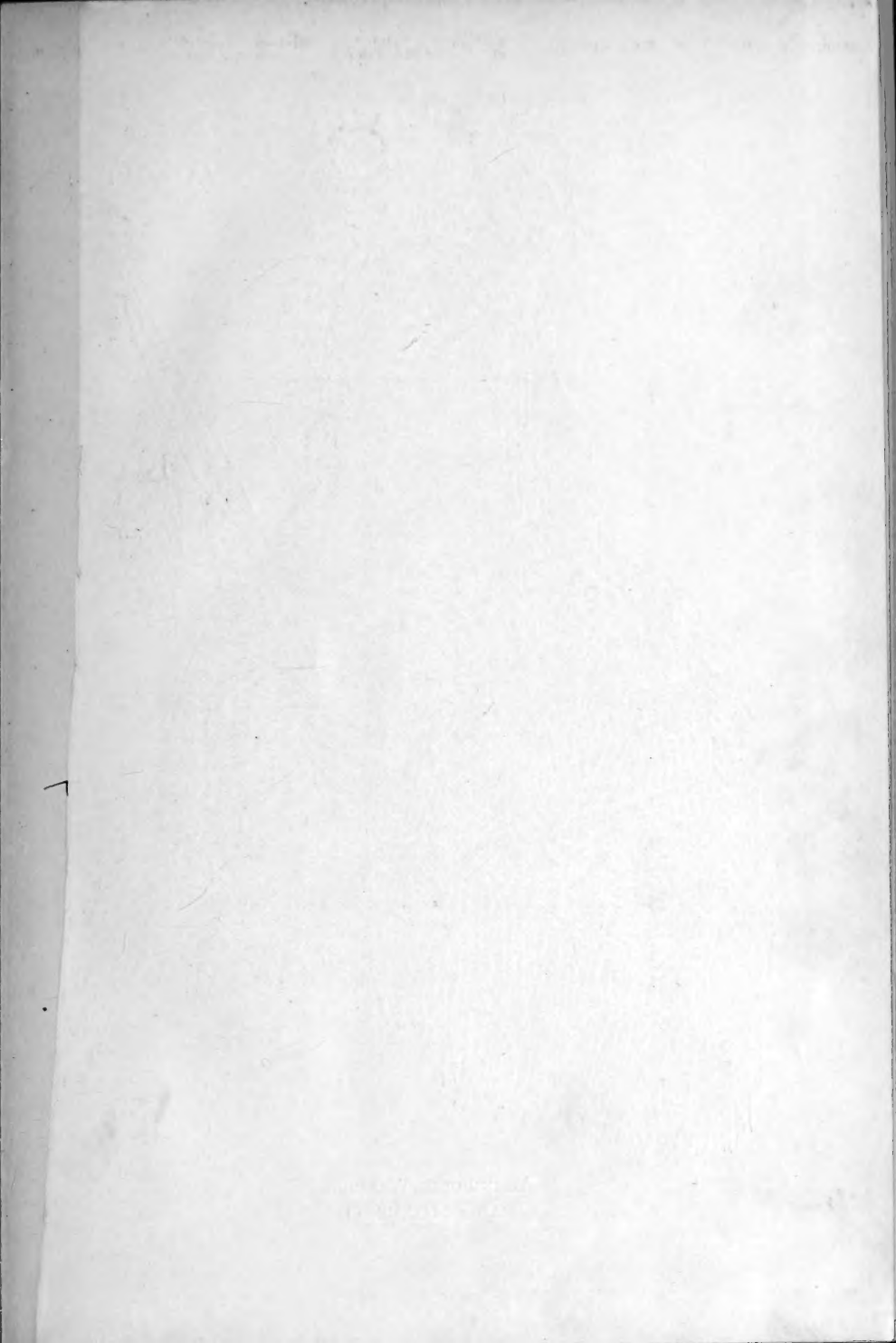




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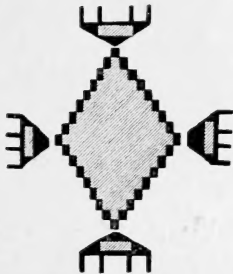
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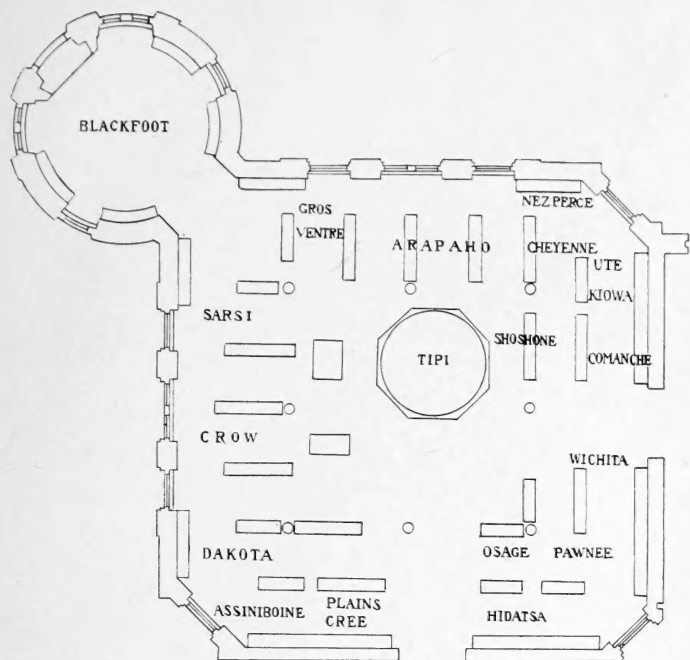


HANDBOOK SERIES NO. 1

NEW YORK
AMERICAN MUSEUM OF NATURAL HISTORY
1912

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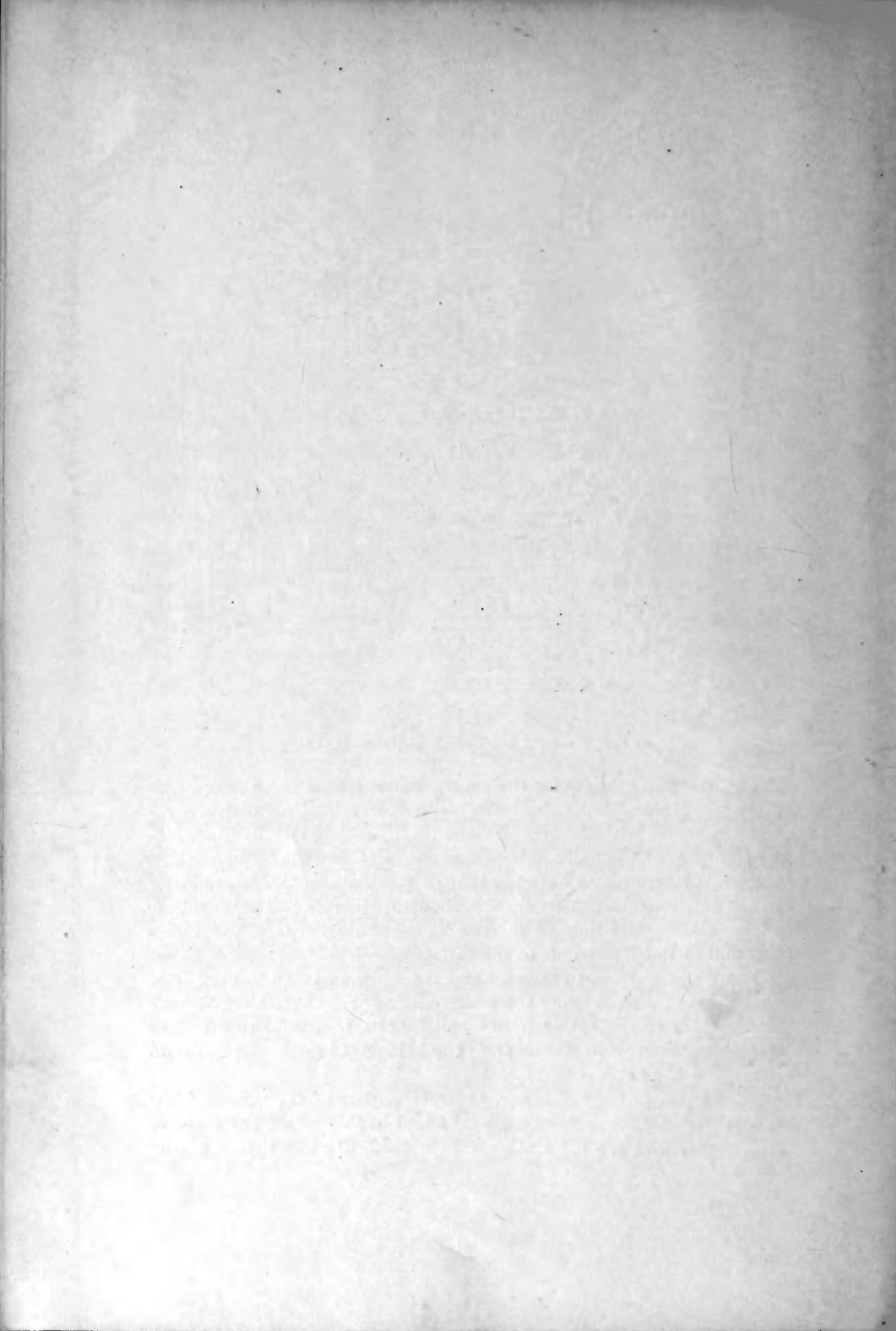


PLAN OF THE PLAINS INDIAN HALL.

The Museum exhibits for the various tribes are arranged in approximate geographical order, beginning with the Plains-Cree of the north and proceeding with the typical nomadic tribes (p. 17). In the north-western part of the hall are the Shoshone, Ute, and Nez Percé, whose culture is intermediate between that of the Plains and Plateau Area. In the northeastern section are the Mandan, Hidatsa, and other village tribes, also manifesting an intermediate culture between the Plains and that of the Woodlands to the east.

The Woodland hall to the east and the Southwest hall to the north, are so arranged as to bring the intermediate tribes of each region near the entrance to the Plains Indian hall. Thus, from case to case, one may follow changes in culture from the Atlantic Coast to the Colorado River and the Gulf of California.

In addition to the specimens, the greater part of the famous Mills collection of Catlin paintings will be found in this hall. The pictures were painted by George Catlin who in 1832-40 visited most of the tribes of this area.



PREFACE.

THIS little book is not merely a guide to museum collections from the Plains Indians, but a summary of the facts and interpretations making up the anthropology of those Indians. The specimens in this Museum were, for the most part, systematically collected by members of the scientific staff while sojourning among the several tribes. They were selected to illustrate various points in tribal life and customs, or culture. The exhibits in the Plains Hall contain, as far as space permits, most of the typical objects for each tribe; yet, it has been physically impossible to show everything the Museum possesses. So the most characteristic objects for each tribe have been selected and care taken to have the other objects common to many tribes appear at least once in some part of the hall. The ideal way would be to get every variety of every object used by each subdivision of a tribe and exhibit all of them in their entirety; but few collections can be made so complete, and even if they could, space in the building could not be found for them. The exhibits, then, should be taken as material indices, or marks, of tribal cultures and not as complete expositions of them. This handbook, on the other hand, deals with the main points in the anthropology of the

Plains Indians many of which (as marriage, social and political organization, language, etc.) cannot be demonstrated by collections. The statements in the text are made upon the authority of the many special students of these Indians in whose writings will be found far more complete accounts. Citations to the more important works will be given in the bibliography. The illustrations are chiefly from the anthropological publications of the Museum and for the most part represent specimens on exhibition in the Plains Hall. For a mere general view of the subject, the legends to the maps, the introduction, and the concluding chapter are recommended. The intervening topics may then be taken up as guides to the study of collections or the perusal of the special literature.

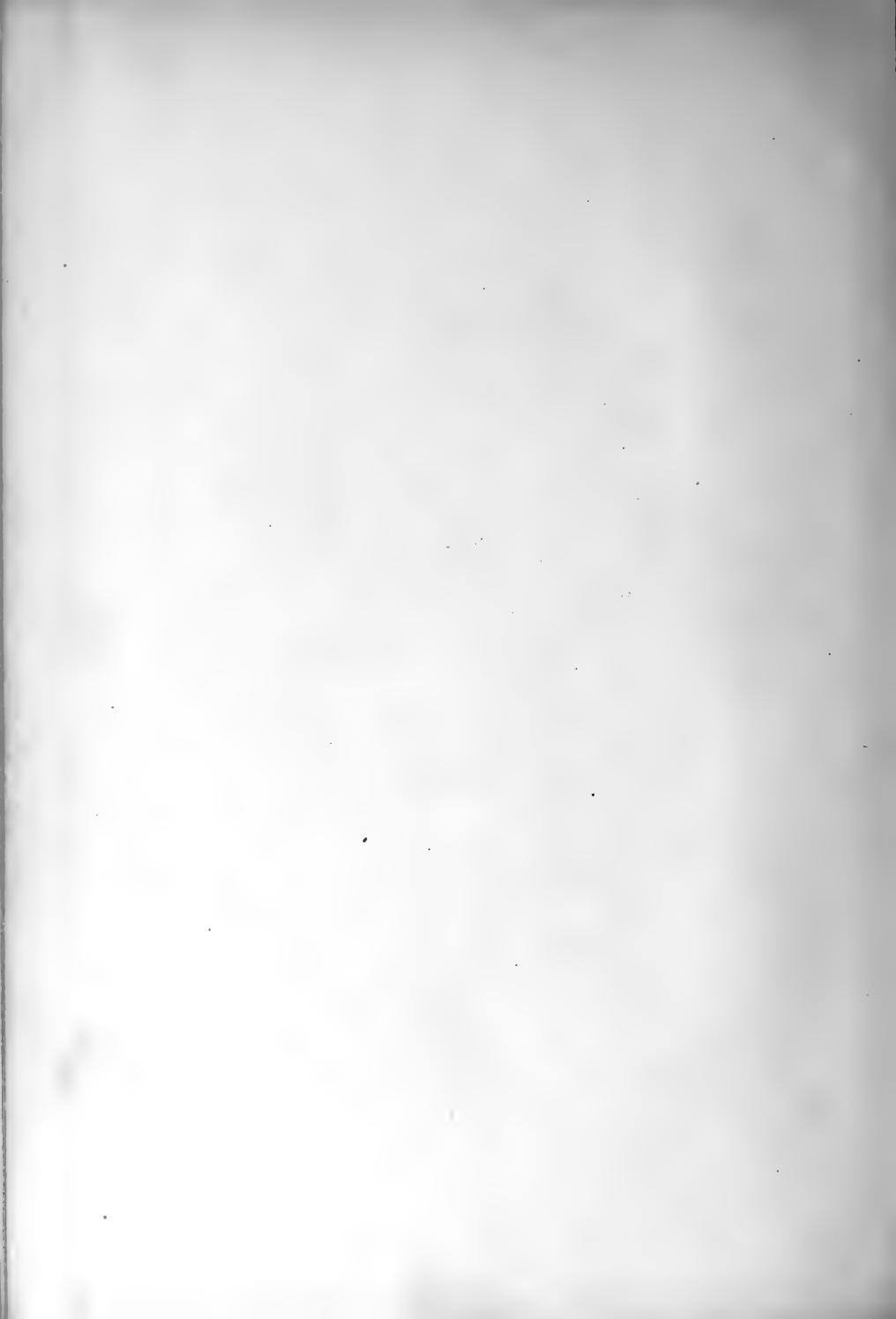
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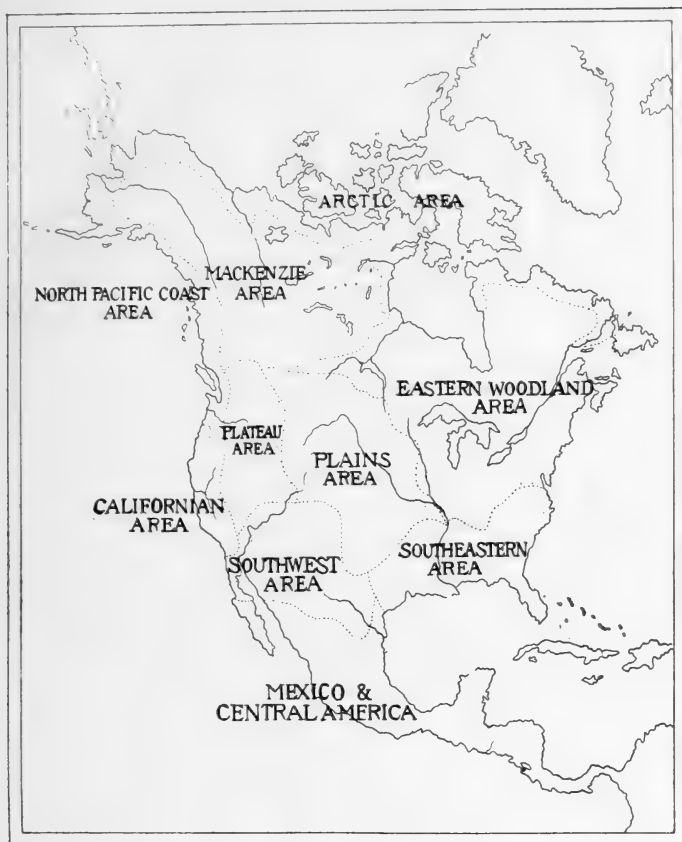
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CULTURE AREAS IN NORTH AMERICA.

The divisions marked on this map are not absolute but relative. Rarely can a tribe be found anywhere that does not share some of the cultural traits of all its immediate neighbors. Yet, certain groups of tribes often have highly characteristic traits in common whence they are said to be of the same general culture type. Thus the tribes discussed in this book have a number of peculiar traits whose distribution

in more or less complete association is taken as indicating the geographical extent of a type of culture. The fact that these boundaries almost coincide with the limits of the treeless prairies and plains and that this culture is most intensified among the tribes living in the Great Plains, has given rise to the term Plains Area. In the same way other parts of the continent appear as the homes of peculiar culture types. Anthropologists generally recognize at least eleven such areas whose approximate extents we have indicated in the accompanying map. The types for each of these are illustrated as space permits in the four halls on the first floor of the Museum. As will be exemplified in the text, the lines separating these areas are somewhat arbitrary. A more correct method would be to color the areas and divide them by broad bands in ever changing mixtures of the two colors, but only in a few instances have we sufficient data to do even this accurately. Hence, the approximate line seems the best designation of culture boundaries.

Reference to a linguistic map of North America will show that there is little correspondence between linguistic stock and culture type, for while in some cases the two lines on the map coincide, in others, they show no approach whatsoever. Again, while the physical types of the Indians show some tendencies to agree in distribution with cultural traits, they also show marked disagreements. Hence, it is not far wrong to say that if, according to the data now available, we superimposed cultural, linguistical, and physical type maps, we should find them with few boundaries in common.



THE INDIANS OF THE PLAINS.

The ranges for the various tribes are approximately indicated by the positions and extents of their respective names. As a rule, these tribes did not respect definite boundaries to their ranges, each tribe claiming certain camping places, but otherwise hunting and roaming where it pleased. The typical Plains tribes are designated by a star and range north and south across the area. To the east of them are the tribes practising some agriculture, perhaps in imitation of the Woodland tribes. On the west are a few tribes whose position is quite uncertain; hence, the boundary for the culture area has been drawn through their range, thus giving them an intermediate position.

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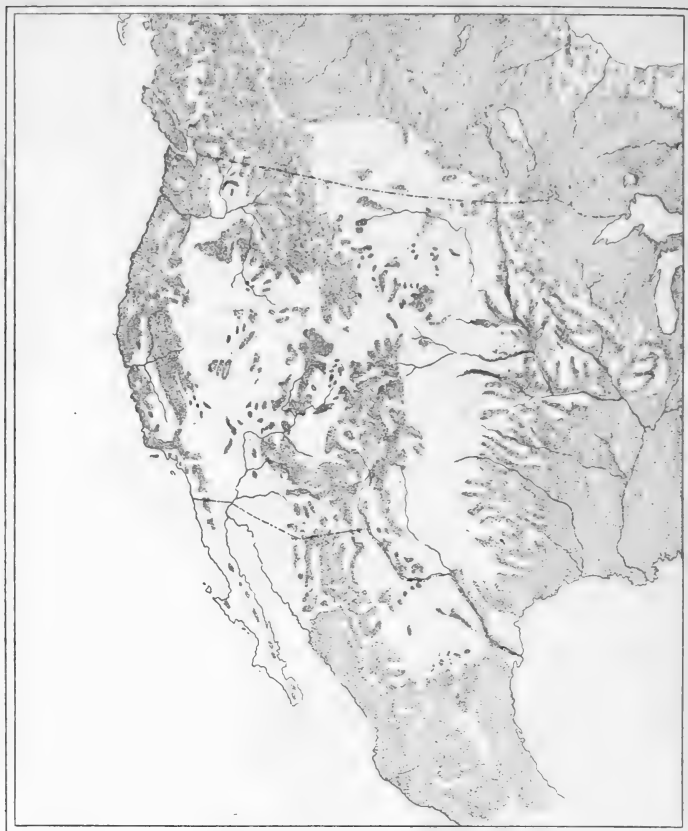
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MAP SHOWING THE DISTRIBUTION OF THE BUFFALO ABOUT 1800.

The larger area defines the limits of the buffalo range in 1800 as determined by Dr. J. A. Allen. The smaller area indicates the range of the Plains Indians. While the bison area is somewhat larger than the culture area, the largest herds were found within the bounds of the latter. On the other hand, the cultures of tribes along the borders of the area are often intermediate in character. Hence, we find a rather close correlation between the distribution of the bison and culture traits, the nine typical tribes living where the herds were thickest.



THE DISTRIBUTION OF FORESTS IN WESTERN UNITED STATES.

The shaded portions of this map mark the areas originally covered with trees. The true plains extend from north to south along the eastern border of the Rocky Mountains. On the west, trees are found on the sides of mountains; on the east, they stretch out into the plains along the margins of the streams. Reference to the tribal map shows how the typical group ranges in the open plains while the eastern agricultural village lives in the partially forested belt. On the west the plateau group appears to range in the open stretches among the mountains.

INTRODUCTION.

THE North American Indians may be classified in three ways: first, as to language; second, as to customs and habits (culture); third, as to anatomical characters (physical type). It is, however, usual to consider them as composed of small more or less distinct political or social groups, or tribes, and it is under such group names that the objects in museum collections are arranged. The cultures of many tribes are quite similar and since such resemblances are nearly always found among neighbors and not among widely scattered tribes, it is convenient and proper to group them in geographical or culture areas. Most anthropologists classify the cultures of North American tribes approximately as shown on the accompanying map.

In the region of the great plains and prairies were many tribes of Plains Indians, who have held the first place in the literature and art of our time. Being rather war-like and strong in numbers, many of them are intimately associated with the history of our western states and every school boy knows how the Dakota (Sioux) rode down Custer's command. The names of Sitting-bull, Red-cloud, and Chief Joseph are also quite familiar.

The culture of these Plains tribes is most strikingly associated with the buffalo, or bison, which not so very long ago roamed over their entire area. Turning to

the map one may see how closely the distributions of this culture type and that for the buffalo coincide. This animal supplied them with one of their chief foods, in accessible and almost never-failing abundance. For a part of the year at least, all Plains tribes used the conical skin tent, or tipi. In early times the dog was used to transport baggage and supplies, but later, horses became very abundant and it is not far wrong to speak of all Plains tribes as horsemen. When on the hunt or moving in a large body most of these tribes were controlled by a band of "soldiers," or police, who drove in stragglers and repressed those too eager to advance and who also policed the camp and maintained order and system in the tribal hunt. All Indians are quite religious. Most of the Plains tribes had a grand annual gathering known in literature as the sun dance. In general, these few main cultural characteristics may be taken to designate the type — the use of the buffalo, the tipi, the horse, the soldier-band, and the sun dance. Many of the tribes living near the Mississippi and along the Missouri, practised agriculture in a small way and during a part of the year lived in earth-covered or bark houses. Furthermore, there are many other tribal differences, so that it becomes admissible to subdivide the Plains Indians. The following seems the most consistent grouping.

1. The Northern Tribes

*Assiniboine	Plains-Cree
*Blackfoot	Plains-Ojibway
*Crow	Sarsi
*Gros Ventre	*Teton-Dakota

2. The Southern Tribes

*Arapaho	*Comanche
*Cheyenne	*Kiowa
Kiowa-Apache	

3. The Village, or Eastern Tribes

Arikara	Omaha
Hidatsa	Osage
Iowa	Oto
Kansas	Pawnee
Mandan	Ponca
Missouri	Santee-Dakota
Wichita	

4. The Plateau, or Western Tribes

Bannock	Northern Shoshone
Nez Percé	Ute
Wind River Shoshone	

Cultural characteristics change gradually as we go from one tribe to another; hence, on the edges of the Plains area we may expect many doubtful cases. Among such may be enumerated the Flathead and

Pend D'Oreille of the northwest, the Illinois and Winnebago of the east, and some Apache of the south. On the southeast, in Texas and Arkansas, were the Caddoan tribes (Kichai, Waco, Tawakoni, etc., relatives of the Wichita) having a culture believed to be intermediate between the Plains and that of the Southeastern area. Yet, in spite of these and other doubtful cases, it is usual to exclude all not enumerated in the above lists as belonging more distinctly with other culture areas. As this grouping is rather for convenience than otherwise, and the culture of each tribe is determined by its own data, the exact placing of these border tribes is of no great moment. However, the most typical Plains tribes are the Assiniboine, Blackfoot, Gros Ventre, Crow, Teton-Dakota, Arapaho, Cheyenne, Comanche, and Kiowa, indicated in the preceding list by an asterisk (*). Reference to the map shows how peculiarly this typical group stretches from north to south, almost in a straight line, with the intermediate Plateau group on one side and the Village group on the other. Again, the forestry map shows that the range of this typical nomadic group coincides with the area in which trees are least in evidence. It embraces the true tipi-dwelling, horse, and non-agricultural tribes. It is primarily the cultural traits of this nomadic group that are discussed in this book, though the important exceptions among the two marginal groups are noted.

CHAPTER I.

MATERIAL CULTURE.

SINCE this is a discussion of the general characteristics of Plains Indians, we shall not take them up by tribes, as is usual, but by topics. Anthropologists are accustomed to group the facts of primitive life under the following main heads: material culture (food, transportation, shelter, dress, manufactures, weapons, etc.), social organization, religion and ceremonies, art, language, and physical type.

FOOD.

The flesh of the buffalo was the great staple of the Plains Indians, though elk, antelope, bear and smaller game were not infrequently used. On the other hand, vegetable foods were always a considerable portion of their diet, many of the eastern groups cultivating corn (maize) and gathering wild rice, the others making extensive use of wild roots, seeds, and fruits. All the tribes living on the edges of the buffalo area, even those on the western border of the Woodlands, seem to have made regular hunting excursions out into the open

country. Thus Nicolas Perrot writing in 1680-1718 (p. 119) says of the Indians in Illinois:—

“The savages set out in the autumn, after they have gathered the harvest, to go hunting; and they do not return to their villages until the month of March, in order to plant the grain on their lands. As soon as this is done, they go hunting again, and do not return until the month of July.”

Early explorers in the Plateaus to the west of the Plains tell us that the Nez Percé and Flathead of Idaho and even the inhabitants of the Rio Grande pueblo of Taos, New Mexico, made periodical hunting excursions to the plains.

To most of the Plains tribes, the introduction of the European horse was a great boon. Unfortunately, we have no definite information as to when and how the horse was spread over the plains but it was so early that its presence is noted by some of the earliest explorers. It is generally assumed that by trade and by the capture of horses escaping from the settlements, the various tribes quickly acquired their stock, first from Mexico and the southern United States, whence the Apache, Comanche, Kiowa, and Pawnee obtained them, and they in turn passed them on to the north. The Shoshone and other tribes of the Plateau area were also pioneers in their use. Even as early as 1754 they are reported in great numbers among the Blackfoot, one of the extreme northern plains groups. Hence, we have no detailed information as to the mode of life among these tribes before the horse was introduced, except what is gleaned from their tribal traditions.

That the use of the horse made a great change in culture is quite probable. It must have stimulated roving and the pursuit of the buffalo and discouraged tendencies toward fixed abodes and agriculture.

Buffalo Hunting. All Plains tribes seem to have practised coöperative hunting in an organized military-like manner. This usually took the form of a surround in which a large body of Indians on swift horses and under the direction of skilled leaders rode round and round a herd bunching them up and shooting down the animals one by one. Stirring accounts of such hunts have been left us by such eye-witnesses as Catlin, James, and Grinnell. All tribes seem to have used this method in summer and it was almost the only one followed by the southern plains tribes.

In winter, however, when the northern half of the plains was often covered with snow, this method was not practised. Alexander Henry, Maximilian, and others, have described a favorite winter method of impounding, or driving the herd into an enclosure. Early accounts indicate that the Plains-Cree and Assiniboine were the most adept in driving into these enclosures and may perhaps have introduced the method among the Plains tribes. The Plains-Cree are but a small outlying part of a very widely distributed group of Cree, the culture of whose main body seems quite uniform. Now, even the Cree east of Hudson Bay, Canada, use a similar method for deer, and since there is every reason to believe that the Plains-Cree are but a colony of the larger body to the east, it seems fair to

assume that the method of impounding buffalo originated with them. However that may be, some form of it was practised by the Blackfoot, Gros Ventre, Hidatsa, Mandan, Teton-Dakota, Arapaho, Cheyenne, and perhaps others.

We have some early accounts of another method used in the prairies of Illinois and Iowa. Thus, in Perrot (121) we read: —

“When the village has a large number of young men able to bear arms they divide these into three bodies: one takes its route to the right, another that to the left, and half of the third party is divided between the two former ones. One of these latter parties goes away [from its main column] a league or thereabout to the right, and the other remains on the left, both parties forming, each on its own side, a long file; then they set out, in single file, and continue their march until they judge that their line of men is sufficiently long for them to advance into the depths [of the forest]. As they begin their march at midnight, one of the parties waits until dawn, while the others pursue their way; and after they have marched a league or more another party waits again for daylight; the rest march [until] after another half-league has been covered, and likewise wait. When the day has at last begun, this third party which had separated to the right and the left with the two others pushes its way farther; and as soon as the rising sun has dried off the dew on the ground, the parties on the right and the left, being in sight of each other, come together in [one] file, and close up the end of the circuit which they intend to surround.

“They commence at once by setting fire to the dried herbage which is abundant in those prairies; those who occupy the flanks do the same; and at that moment the entire village breaks camp, with all the old men and young boys — who divide themselves equally on both sides, move away to a distance, and keep the hunting parties in sight so that they can act with the latter, so that the fires can be lighted on all four sides at once and gradually communicate the flames from one to another. That produces the same effect to the sight as four ranks of palisades, in which the buffaloes are enclosed. When the savages see that the animals are trying to get outside of it, in order to escape the fires which surround them on all sides (and this is the one thing in the world which they most fear), they run at them and compel them to reenter the

enclosure; and they avail themselves of this method to kill all the beasts. It is asserted that there are some villages which have secured as many as fifteen hundred buffaloes, and others more or fewer, according to the number of men in each and the size of the enclosure which they make in their hunting."

The natural inference seems to be that the grass firing and impounding methods of taking buffalo were developed before the introduction of the horse and are therefore the most primitive. The individual hunting of buffalo as well as in small parties was, of course, practised. Swift horses were used to bring the rider in range when he shot down the fleeing beasts. Before horses were known the coöperative method must have prevailed.

Hunting Implements. The implements used for killing buffalo were not readily displaced by guns. Bows and arrows were used long after guns were common. In fact, pioneers maintain that at close range the rapidity and precession of the bow was only to be excelled by the repeating rifle, a weapon developed in the 70's. Even so, the bow was not entirely discarded until the buffalo became extinct. The bows were of two general types: the plain wooden bow, and the sinew-backed, or compound bow. It is generally held that the tribes east of the Mississippi River used the simple wooden bow while those on the Pacific Coast used the sinew-backed type. It is quite natural therefore, that among the Plains tribes, we should find both types in general use and that the sinew-backed was more common among the Shoshone and other Plateau tribes.

Some curious bows were made from mountain sheep horn backed with sinew, a fine example of which is to be seen in the Nez Percé collection (Fig. 1). The Crow, Hidatsa, and Mandan sometimes used a bow

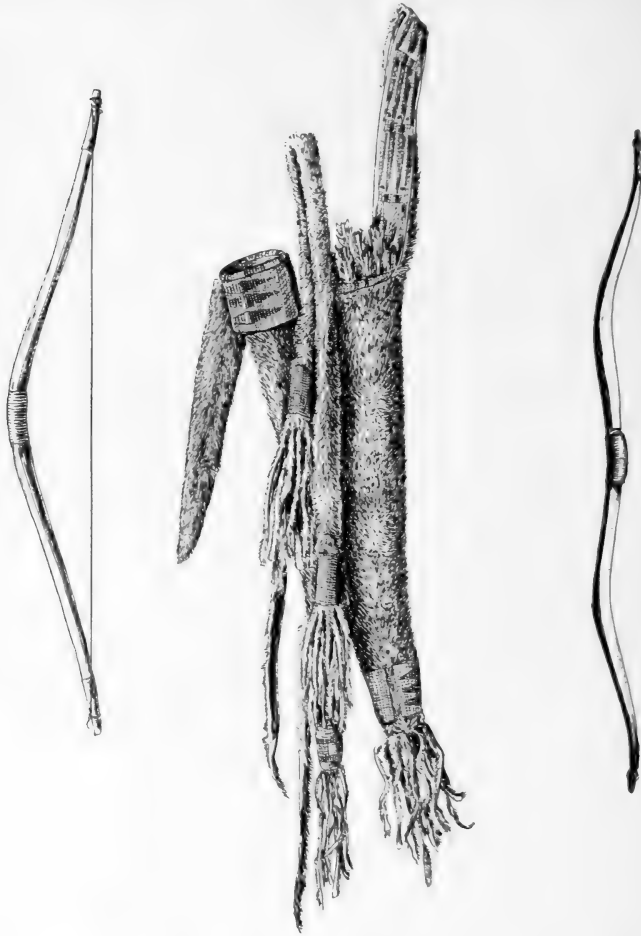


Fig. 1. Sinew-backed Bow and Quiver from the Blackfoot and a Compound Bow of Mountain Sheep Horn from the Nez Percé.

of elkhorn, probably one of the finest examples of Indian workmanship: "They take a large horn or prong, and saw a slice off each side of it; these slices are then filed or rubbed down until the flat sides fit nicely together, when they are glued and wrapped at the ends. Four slices make a bow, it being jointed. Another piece of horn is laid on the center of the bow at the grasp, where it is glued fast. The whole is then filed down until it is perfectly proportioned, when the white bone is ornamented, carved, and painted. Noth-



Fig. 2. Lance with Obsidian Point. Nez Percé.

ing can exceed the beauty of these bows, and it takes an Indian about three months to make one." (Belden, 112.) All these compound bows are sinew-backed, it being the sinew that gives them efficiency. Some fine old wooden bows may be seen in the Museum's Dakota collection.

A lance was frequently used for buffalo: in the hands of a powerful horseman, this is said to have been quite effective. There is a stone-pointed lance in the Nez Percé collection which may be of the type formerly used, Fig. 2. Wounded animals and those in the

enclosure of the pound were often brought down by knocking on the head with stone-headed clubs and mauls.

Pemmican. As buffalo could not be killed every day, some method of preserving their flesh in an eatable condition was necessary to the well-being of the Plains Indian. The usual method was by drying in the sun. Steaks were cut broad and thin, and slashed by short

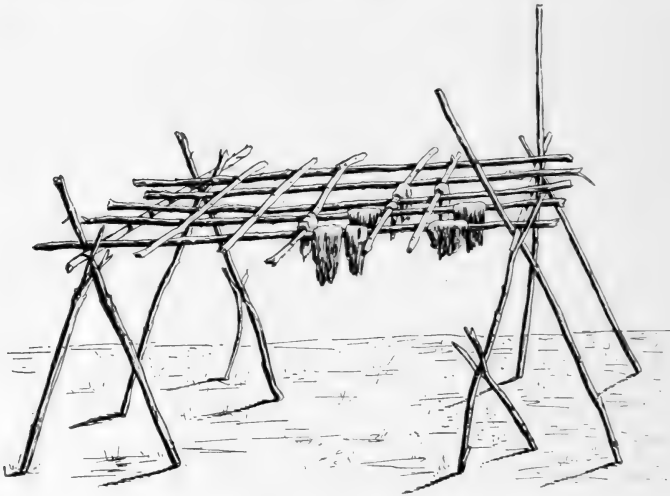


Fig. 3. Meat Drying Rack. Blackfoot.

cuts which gaped open when the pieces were suspended, giving the appearance of holes. These steaks were often placed in boiling water for a few moments and then hung upon poles or racks out of reach of dogs. In the course of a few days, if kept free from moisture, the meat became hard and dry. It could then be

stored in bags for future use. Fat, or meat, could be dried if slightly boiled.

Dried meat of the buffalo and sometimes of the elk was often pounded fine, making what was known as pemmican. While some form of pemmican was used in many parts of North America, the most characteristic kind among the Plains Indians was the berry pemmican. To make this, the best cuts of the buffalo were dried

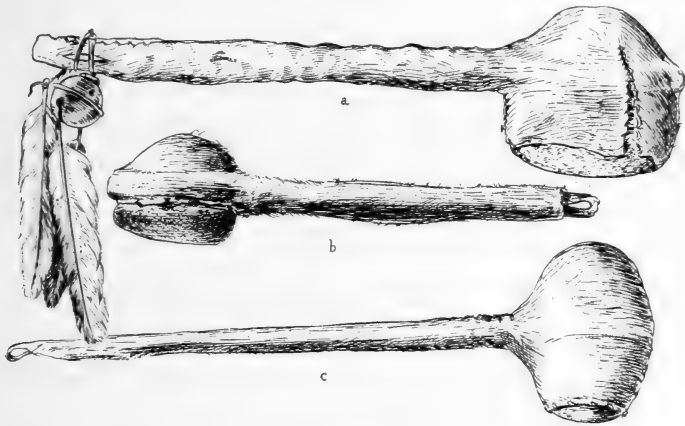


Fig. 4. Stone-headed Pounders.

in the usual manner. During the berry season wild cherries (*Prunus demissa*) were gathered and crushed with stones, pulverizing the pits, and reducing the whole to a thick paste which was partially dried in the sun. Then the dried meat was softened by holding over a fire, after which it was pounded fine with a stone or stone-headed maul. In the Dakota collection may be seen some interesting rawhide mortars for this

purpose. This pulverized meat was mixed with melted fat and marrow, to which was added the dried but sticky cherry paste. The whole mass was then packed in a long, flat rawhide bag, called a parfleche. With proper care, such pemmican would keep for years. In pioneer days, it was greatly prized by white trappers and soldiers.

Agriculture. Almost without exception, the village group of tribes made at least some attempts to cultivate maize. Of the northern tribes, none have been credited with this practice, except perhaps the Teton-Dakota. Yet, the earlier observers usually distinguish the Teton from the Santee-Dakota by their non-agricultural habits. Of the southern tribes, we cannot be so sure. The Cheyenne, who seem to have abandoned a forest home for the plains just before the historic period have traditions of maize culture but seem to have discontinued it soon after going into the buffalo country. The Arapaho are thought by some anthropologists to have preceded the Cheyenne. Yet while many writers are disposed to admit that all of the southern group may have made some attempts at maize growing, they insist that these were feeble in comparison with the village tribes. When, however, we turn to the Plateau area, there are no traces of maize growing. In association with maize it was usual to raise some varieties of squash and beans.

Thus, in a general way, the practice of agriculture seems to gradually dwindle out as we leave the more fertile river bottoms of the east and south, suggesting

that its positive absence among the extreme western and northern tribes is due to unfavorable soil and climate rather than to any mental or social differences in the tribes concerned. This is consistent with the wide distribution of tobacco raising. The Blackfoot, Crow, Hidatsa, Mandan, Arikara, Pawnee, and Santee-Dakota are known to have cultivated it for ceremonial purposes. So far as known this plant was *Nicotiana multivalvis*, said to be a native of Oregon and to have been cultivated by tribes in the Columbia River valley. The fact that the Blackfoot and Crow did not attempt any other agriculture except the raising of this tobacco rather strengthens the previous opinion that maize was not produced because of the unfavorable conditions. Among the tribes of the Plateau area, wild seeds and grains were gathered and so took the place of maize in the east. On the other hand, the northern and southern groups depended mostly upon dried berries and edible roots which however, were a relatively small part of their diet, buffalo flesh being the important food. This was particularly true of the nine typical tribes. With these tribes, the buffalo was not only food: but his by-products, such as skin, bones, hair, horns, and sinew, were the chief materials for costume, tents, and utensils of all kinds.

TRANSPORTATION.

Before the introduction of the horse, the Plains Indians traveled on foot. The tribes living along the

Mississippi made some use of canoes, according to

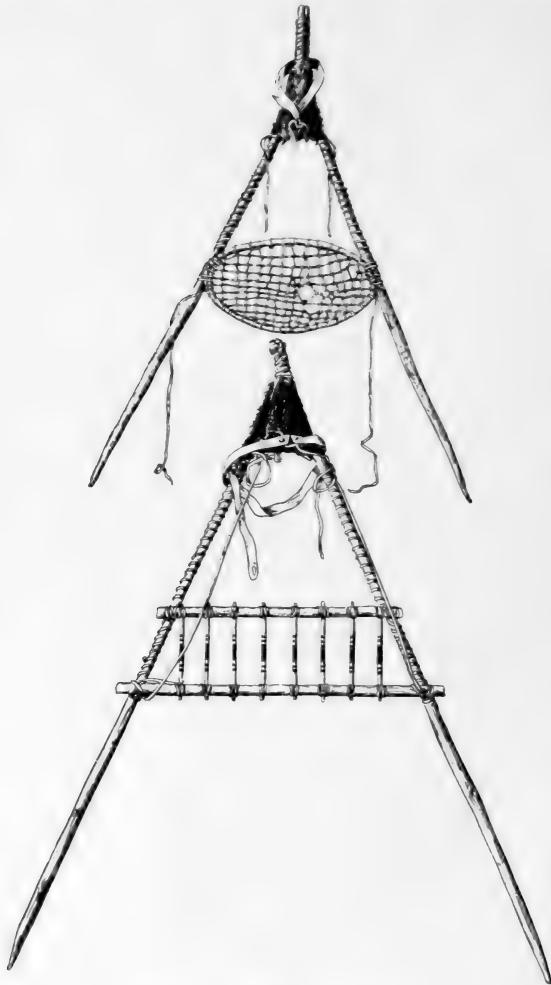


Fig. 5. Blackfoot Travois.

early accounts, while those of the Missouri and inland, used only crude tub-like affairs for ferry purposes.

When first discovered, the Mandan, Hidatsa, and Arikara had villages on the Missouri, in what is now North Dakota, but they have never been credited with canoes. For crossing the river, they used the bull-boat, a tub-shaped affair made by stretching buffalo skins over a wooden frame; but journeys up and down



Fig. 6. Assiniboine Dog Travois.

the bank were made on foot. Many of the Santee-Dakota used small canoes in gathering wild rice in the small lakes of Minnesota, though the Teton-Dakota have not been credited with the practice. It seems probable that the ease of travel in the open plains and the fact that the buffalo were often to be found inland, made the use of canoes impractical, whereas along the

great lakes the broad expanse of water offered every advantage to their use. Since almost every Plains tribe used some form of the bull-boat for ferrying, and many of them came in contact with canoe-using Indians, the failure of those living along the Missouri to develop the canoe can scarcely be attributed to ignorance.

When on the march, baggage was carried on the human back and also by dogs, the only aboriginal domestic animals. Most tribes used a peculiar A-shaped contrivance, known as a dog travois, upon which packs were placed. All the northern tribes, save the Crow, are credited with the dog travois. Many of the village tribes also used it, as did also some of the southern group. With the introduction of the horse, a larger but similar travois was used. This, however, did not entirely displace the dog travois as Catlin's sketches show Indians on the march with both horses and dogs harnessed to travois. The travois of the northern tribes were of two types: rectangular cross-frames and oval netted frames, Fig. 5. The Blackfoot, Sarsi and Gros Ventre inclined toward the former; the Assiniboine, Dakota, Hidatsa, and Mandan toward the latter, though both types were often used simultaneously. On the other hand, the southern tribes seem to have inclined toward an improvised travois formed by binding tipi poles to the sides of the saddle and slinging the pack across behind. As previously noted, the Crow seem not to have used the travois and the same may be said of the tribes in the Plateau area.

These tribes, however, formerly used the dog as a pack animal.

The use of a sled on the ice or snow has not been



Fig. 7. Crossing the Missouri in a Bull-Boat.

(Wilson photo.)

credited to any except some of the Santee-Dakota and the Mandan and among them it is quite probable that it was introduced by white traders.

The riding gear and horse trappings that always form an interesting part of collections, naturally came in with the horse and followed European models. The native bridle was a simple rope or thong looped around the jaw. Saddles were of two types, pads, and frames. The latter were made of wood or elkhorn securely bound with fresh buffalo hide which shrunk as it dried. The Mills Catlin collection contains a sketch showing how one of the saddles is staked down to the ground while the wet rawhide sets in place. Women's saddles had very high pommels and were often gaily ornamented. Stirrups were also made of wood bound with rawhide. Some tribes, the Dakota for example, used highly decorated saddle blankets, or skins; while others (Crow, Blackfoot, etc.) used elaborate cruppers. Quirts with short handles of elkhorn or wood were common. In fact, there was little difference in the form of riding gear among all the Plains tribes.

The nine typical tribes were more or less always on the move. All their possessions were especially designed for ready transport. Nearly all receptacles and most utensils were made of rawhide, while the tipi, or tent, was easily rolled up and placed upon a travois. When the chief gave out the order to break camp it took but a few minutes for the women to have everything loaded on travois and ready for the march. Even the village group used tipis and horses when on the buffalo hunt (p. 17). The smaller baggage was often loaded upon dog travois. We have no accurate data as to how the camp was moved before horses came into

the country, but it was certainly more laborious and the marches shorter.

SHELTER.

The Tipi. One of the most characteristic features of Plains Indian culture was the tipi. All the tribes of the area, almost without exception, used it for a part of the year at least. Primarily, the tipi was a conical tent covered with dressed buffalo skins. A carefully mounted and equipped tipi from the Blackfoot Indians stands in the center of the Plains exhibit. Everywhere the tipi was made, cared for, and set up by the women. First, a conical framework of long slender poles was erected and the cover raised into place. Then the edges of the cover were staked down and the poles supporting the "ears" put in place. The "ears" are wings, or flaps, to keep the wind out of the smoke hole at the top; they were moved about by the outside poles. The fire was built near the center and the beds spread upon the ground around the sides. The head of the family usually sat near the rear, or facing the door.

While in essential features the tipis of all Plains tribes were the same, there were nevertheless some important differences. Thus, when setting up a tipi, the Blackfoot, Crow, Sarsi, Hidatsa, Omaha, and Comanche first tie four poles as a support to the others; while the Teton-Dakota, Assiniboine, Cheyenne, Gros Ventre, Arapaho, Kiowa, Plains-Cree, Mandan, and Pawnee use three, or a tripod foundation. For the

remaining tribes, we lack data, but it seems safe to assume that they follow one or the other of these methods. The three-pole foundation gives the projecting tops of the poles a spiral appearance while the four-pole beginning tends to group them on the sides. Thus, to a practised eye, the difference is plain. The covers, ears, doors, etc., are quite similar throughout. The shapes of tipis, however, show some differences. Thus, the Cheyenne prefer a wide base in proportion to the height while the Arapaho prefer a narrow base. Again, the Crow use very long poles, the ends projecting out above like a great funnel.

It is important to note that the use of the tipi is not confined to the plains. The Ojibway along the Lakes used it, but covered it with birchbark as did also many of the Cree and tribes formerly established in eastern Canada and New England. Even the Santee-Dakota in early days used birchbark for tipi covers. A tipi-like skin-covered tent was in general use among the Indians of Labrador and westward throughout the entire Mackenzie area of Canada. To the west, the Plains tipi was found among the Nez Percé, Flathead, Cayuse, and Umatilla; to the southwest, among the Apache. It is well nigh impossible to determine what tribes first originated this type of shelter, though a comparison of the details of structure might give some definite clues. Yet, one thing is clear; viz: that it was especially adapted to the roving life of the Plains tribes when pursuing the buffalo.

Earth Lodges. Before going further, we must needs



Fig. 8. Setting up a Crow Tipi.
(Petzold photo.)

recall that the tipi was not the only type of shelter used by these Indians. The Mandan, Hidatsa, and Arikara lived in more or less permanent villages of curious earth-covered lodges. The following description of a Hidatsa house may serve as a type:—

“On the site of a proposed lodge, they often dig down a foot or more in order to find earth compact enough to form a good floor; so, in some lodges, the floors are lower than the general surface of the ground on which the village stands. The floor is of earth, and has in its center a circular depression, for a fire-place, about a foot deep, and three or four feet wide, with an edging of flat rocks. These dwellings, being from thirty to forty feet in diameter, from ten to fifteen feet high in the center, and from five to seven feet high at the eaves, are quite commodious.

“The frame of a lodge is thus made:—A number of stout posts, from ten to fifteen, according to the size of the lodge, and rising to the height of about five feet above the surface of the earth, are set about ten feet apart in a circle. On the tops of these posts, solid beams are laid, extending from one to another. Then, toward the center of the lodge, four more posts are erected, of much greater diameter than the outer posts, and rising to the height of ten or more feet above the ground. These four posts stand in the corners of a square of about fifteen feet, and their tops are connected with four heavy logs or beams laid horizontally. From the four central beams to the smaller external beams, long poles, as rafters, are stretched at an angle of about 30° with the horizon; and from the outer beams to the earth a number of shorter poles are laid at an angle of about 45°. Finally a number of saplings or rails are laid horizontally to cover the space between the four central beams, leaving only a hole for the combined skylight and chimney. This frame is then covered with willows, hay, and earth, as before mentioned; the covering being of equal depth over all parts of the frame. (Matthews, 4-5).

Houses of approximately the same type were used by the Pawnee, Omaha, Ponca, Kansas, Missouri, and Oto. The Osage, on the other hand, are credited with the use of dome-shaped houses covered with mats and

bark, like the Ojibway and other Woodland tribes. The Hidatsa type of lodge is, unlike the tipi, definitely localized along the Missouri and the Platte, giving one the impression that it must have originated within this territory. The Omaha claim to have originally used



Fig. 9. Hidatsa Village in 1868.

(Morrow photo reproduced by F. N. Wilson.)

tipis and to have learned the use of earth lodges from the Arikara; likewise the Skidi-Pawnee claim the tipi as formerly their only dwelling. However, all these tribes used tipis when on summer and winter trips after buffalo (p. 20).

Some of the Santee-Dakota lived for a part of the year in rectangular cabins of bark and poles as did some of the Woodland tribes. On the west, an oval or conical brush or grass shelter seems to have preceded the tipi. The Comanche were seen using both this western type of brush lodge and the tipi in 1853. The Northern Shoshone have also been observed with brush lodges and tipis in the same camp. These instances are probably examples of a transition in culture. Thus, we see how even among the less civilized peoples all are prone to be influenced by the culture of their neighbors and that in consequence, cultures grade into one another according to geographical relations.

Another curious thing is that all the tribes raising maize used earth or bark houses, but as a rule lived in them only while planting, tending, and harvesting the crop. At other times, they took to tipis. Even in mid-winter the Omaha and Santee-Dakota lived in tipis.

A unique and exceptional type of shelter was used by the Wichita and the related Caddoan tribes of the Southeastern culture area. This is known as a grass lodge. It consists of a dome-shaped structure of poles thatched over with grass and given an ornamental appearance by the regular spacing of extra bunches of thatch. Formerly, each house had four doors, east, west, north, and south, and four poles projected from the roof in the respective directions.

DRESS.

The men of the Plains were not elaborately clothed. At home, they usually went about in breech cloth and moccasins. The former was a broad strip of cloth drawn up between the legs and passed under the belt both behind and before. There is some reason for believing that even this was introduced by white traders, the more primitive form being a small apron of dressed skin. At all seasons a man kept at hand a soft tanned buffalo robe in which he tastefully swathed his person when appearing in public. This was universally true of all except those of the Plateau area and possibly some of the southern tribes. In the Plateaus, the most common for winter were robes of antelope, elk, and mountain sheep, while in summer elkskins without the hair were worn. Beaver skins and those of other small animals were sometimes pieced together. According to Grinnell, the Blackfoot, east of the Rocky Mountains also used these various forms of robes. The Plateau tribes sometimes used a curious woven blanket of strips of rabbitskin also widely used in Canada and the Southwest. So far this type of blanket has not been reported for the Plains tribes east of the mountains.

Everywhere, we find no differences between the robes of men and women except in their decorations. The buffalo robes were usually the entire skins with the tail. Among most tribes, the robe was worn horizontally with the tail on the right hand side. Light, durable,

and gaily colored blankets were later introduced by traders and are even now in general use.

Moccasins were worn by all, the sandals of the Southwest and Mexico not being credited to these Indians. The two general structural types of moccasins in North America are the one-piece, or soft-soled moccasin, and the two-piece, or hard-soled. The

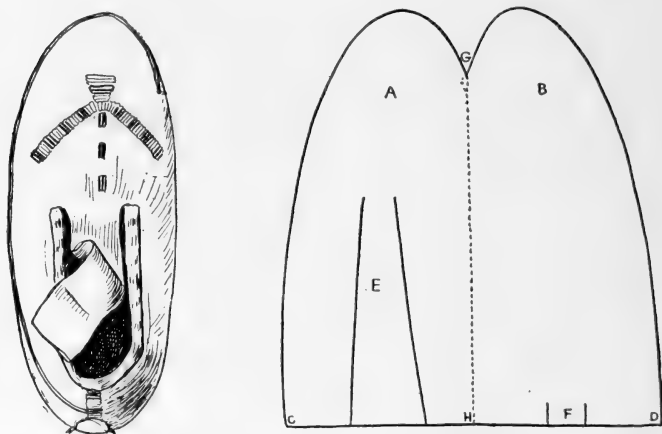


Fig. 10. One-piece Moccasin Pattern. That part of the pattern marked *a* forms the upper side of the moccasin; *b*, the sole; *e*, the tongue; *f*, the trailer. The leather is folded lengthwise, along the dotted line, the points *c* and *d* are brought together and the edges sewed along to the point *g*, which makes a seam the whole length of the foot and around the toes. The vertical heel seam is formed by sewing *c* and *d* now joined to *h*, *f* projecting. The strips *c* and *d* are each, half the width of that marked *h*, consequently the side seam at the heel is half way between the top of the moccasin and the sole, but reaches the level at the toes. As the sides of this moccasin are not high enough for the wearer's comfort, an extension or ankle flap is sewed on, varying from two to six inches in width, cut long enough to overlap in front and held in place by means of the usual draw string or lacing around the ankle.

latter prevails among these Indians, while the former is general among forest Indians. A Blackfoot moccasin of a simple two-piece pattern is shown in the figure. The upper is made of soft tanned skin and after finishing and decorating is sewed to a rawhide sole cut to fit the foot of the wearer. A top, or vamp, may be added.

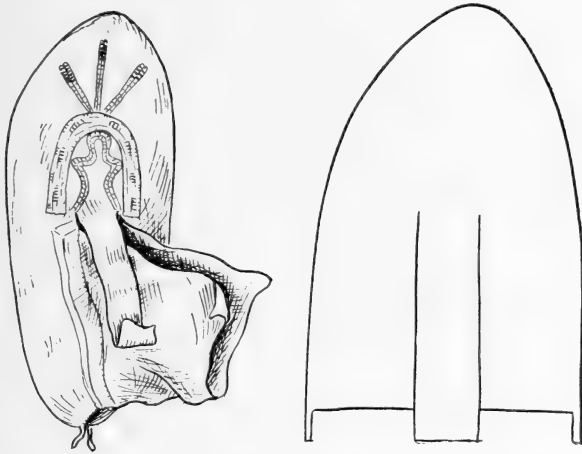


Fig. 11. Two-piece Moccasin Pattern. This type prevails in the Plains. The soles are of stiff rawhide. They conform generally to the outlines of the foot. The uppers are cut as shown in the pattern, though sometimes the tongue is separate. An ankle flap is added.

The pattern for a Blackfoot one-piece moccasin is shown in Figure 10. Our collections show that this type occurs occasionally among the Sarsi, Blackfoot, Plains-Cree, Assiniboine, Gros Ventre, Northern Shoshone, Omaha, Pawnee, and Santee-Dakota. So far, it has not been reported for any of the southern tribes. Among many of the foregoing, this form seems to have

been preferred for winter wear, using buffalo skin with the hair inside. Again, since all the tribes to the north and east of these Indians used the one-piece moccasin all the year round, its presence in this part of the Plains is quite natural.

To the south, we find a combined stiff-soled moccasin and legging to be seen among the Arapaho, Ute, and Comanche. This again seems to be related to a boot type of moccasin found in parts of the Southwest.

So, in general, the hard-soled moccasin is the type for these Indians. Old frontiersmen claim that from the tracks of a war party, the tribe could be determined; this is in a measure true, for each had some distinguishing secondary feature, such as heel fringes, toe forms, etc., that left their marks in the dust of the trail. Ornaments and decoration will, however, be discussed under another head.

Almost everywhere the men wore long leggings tied to the belt. Women's leggings were short, extending from the ankle to the knee and supported by garters.

Some of the most conspicuous objects in the collections are the so-called war, or scalp shirts, Fig. 12. One of the oldest was obtained by Col. Sword in 1838 and seems to be Dakota (Sioux). It is of mountain sheep skin. Some fine modern examples are credited to the Teton-Dakota, Crow, and Blackfoot, though almost every tribe had them in late years. This type, however, should not be taken as a regular costume. Though in quite recent years it has become a kind of tuxedo, it was formerly the more or less exclusive

uniform of important functionaries. On the other hand, the shirt itself, stripped of its ornaments and accessories seems to be of the precise pattern once worn

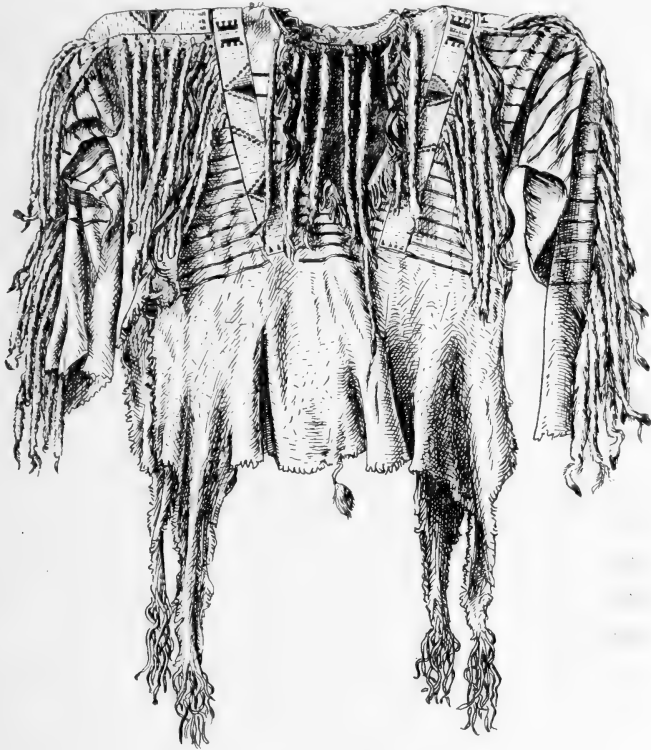


Fig. 12. Man's Shirt. Blackfoot.

in daily routine. Yet, the indications are that as a regular costume, the shirt was by no means in general use. The Cree, Déné, and other tribes of central Canada wore leather shirts, no doubt because of the

severe winters. We also have positive knowledge of their early use by the Blackfoot, Assiniboine, Crow, Dakota, Plains-Cree, Nez Percé, Northern Shoshone, Gros Ventre, and on the other hand of their absence among the Mandan, Hidatsa, Arikara, Pawnee, Osage, Kiowa, Cheyenne, Arapaho, and Comanche. Thus, the common shirt was after all not typical of the Plains Indians: it is only recently that the special decorated form so characteristic of the Assiniboine, Crow, Blackfoot, and Dakota has come into general use. Several interesting points may be noted in the detailed structure of these shirts, but we must pass on.

For the head there was no special covering. Yet in winter the Blackfoot, Plains-Cree, and perhaps others in the north, often wore fur caps. In the south and in the Plateaus, the eyes were sometimes protected by simple shades of rawhide. So, in general, both sexes in the Plains went bare-headed, though the robe was often pulled up forming a kind of temporary hood.

Mittens and gloves seem to have been introduced by the whites, though they appear to have been native in other parts of the continent.

The women of all tribes wore more clothing than the men. The most typical garment was the sleeveless dress, a one-piece garment, an excellent example of which is to be seen in the Audubon collection, Fig. 14. This type was used by the Hidatsa, Mandan, Crow, Dakota, Arapaho, Ute, Kiowa, Comanche, Sarsi, Gros Ventre, Assiniboine, and perhaps others. A slight variant is reported for the Nez Percé, Northern Sho-



Fig. 13. Costumed Figure of a Dakota Woman.

shone, and Plains-Cree in that the extensions of the cape are formed into a tight-fitting sleeve. Some writers claim that in early days the Assiniboine and



Fig. 14. Woman's Dress of Elkskin. Audubon.

Blackfoot women also used this form. Formerly, the Cheyenne, Osage, and Pawnee women wore a two-piece garment consisting of a skirt and a cape, a form typical of the Woodland Indians of the east.

The manner of dressing the hair is often a conspicuous conventional feature. Many of the Plains tribes wore it uncropped. Among the northern tribes the men frequently gathered the hair in two braids but in the Plateau area and among some of the southern tribes, both sexes usually wore it loose on the shoulders and back. The Crow men sometimes cropped the fore-lock and trained it to stand erect; the Blackfoot, Assiniboine, Yankton-Dakota, Hidatsa, Mandan, Arikara, and Kiowa trained a fore-lock to hang down over the nose. Early writers report a general practice of artificially lengthening men's hair by gumming on extra strands until it sometimes dragged on the ground.

The hair of women throughout the Plains was usually worn in the two-braid fashion with the median part from the forehead to the neck. Old women frequently allowed the hair to hang down at the sides or confined it by a simple head band.

Again, we find exceptions in that the Oto, Osage, Pawnee, and Omaha closely cropped the sides of the head, leaving a ridge or tuft across the crown and down behind. It is almost certain that the Ponca once followed the same style and there is a tradition among the Oglala division of the Teton-Dakota that they also shaved the sides of the head. (See also *History of the Expedition of Lewis and Clark*, Reprinted, New York, 1902, Vol. 1, p. 135.) We may say then that the love of long heavy tresses was a typical trait of the Plains.

By the public every Indian is expected to have his hair thickly decked with feathers. The striking

feather bennets with long tails usually seen in pictures were exceptional and formerly permitted only to a few distinguished men. They are most characteristic of the Dakota. Even a common eagle feather in the hair of a Dakota had some military significance according to its form and position. On the other hand, objects tied in a Blackfoot's hair were almost certain to have a charm value. So far as we know, among all tribes, objects placed in the hair of men usually had more than a mere aesthetic significance.

Beads for the neck, ear ornaments, necklaces of claws, scarfs of otter and other fur, etc., were in general use. The face and exposed parts of the body were usually painted and sometimes the hair also. Women were fond of tracing the part line with vermilion. There was little tattooing and noses were seldom pierced. The ears, on the other hand, were usually perforated and adorned with pendants which among Dakota women were often long strings of shells reaching the waist line.

Instead of combs, brushes made from the tails of porcupines were used in dressing the hair. The most common form was made by stretching the porcupine tail over a stick of wood. The hair of the face and other parts of the body was pulled out by small tweezers.

INDUSTRIAL ARTS.

Under this head the reader may be reminded that among most American tribes each family produces and

manufactures for itself. There is a more or less definite division between the work of men and women, but beyond that there is little specialization. The individuals are not of equal skill, but still each practises practically the whole gamut of industrial arts peculiar to his sex. This fact greatly increases the importance of such arts when considered as cultural traits.



Fig. 15. Fire-drill. Northern Shoshone.

Fire-making. The methods of making fire are often of great cultural interest. So far as our data go, the method in this area was by the simple fire-drill as shown in the Shoshone collections, Fig. 15. Some of the Woodland tribes used the bow-drill but so far, this has not been reported for the Plains. It may be well to note that to strike fire with flint one must have some form of iron and while pyrites was used by some Eskimo and other tribes of the far north, it seems to have been unknown in the Plains. Naturally, flint and steel were among the first articles introduced by white traders.

Textiles and Skins. While in a general way, it is true that the Plains Indians used skins instead of cloth and basketry, it cannot be said that they were entirely unfamiliar with the latter. Of true cloth, we have no trace. Blankets woven with strips of rabbit fur have been noted (p. 41) and on certain Osage war bundles, we find covers of thick strands of buffalo hair; these are about the only traces of true weaving. On the other hand, baskets were more in evidence. The Shoshone and Ute were rather skillful, making and using many varieties of baskets. The Nez Percé made a fine soft bag like their western neighbors. The Hidatsa, Mandan, and Arikara made a peculiar carrying basket of checker weave, and are also credited with small crude coiled baskets used in gambling games. It is believed by some students that the last were occasionally made by the Arapaho, Cheyenne, Kiowa, and Dakota. The Osage have some twined bags, or soft baskets, in which ceremonial bundles are kept, but otherwise were not given to basketry. The Omaha formerly wove scarfs and belts. On the south, the Comanche are believed to have made a few crude baskets. Woven mats were almost unknown, except the simple willow backrests used by the Blackfoot, Mandan, Cheyenne, Gros Ventre, and others. These are, after all, but citations of exceptions most pronounced among the marginal tribes, the fact being that the area as a whole is singularly weak in the textile arts.

Since skins everywhere took the place of cloth, the dressing of pelts was an important industry. It was

not only woman's work but her worth and virtue were estimated by her output. Soles of moccasins, parfleche, and other similar bags were made of stiff rawhide, the product of one of the simplest and perhaps the most primitive methods of treating skins. The uppers of moccasins, soft bags, thongs, etc., were of pliable texture, produced by a more elaborate and laborious process.

For the rawhide finish the treatment is as follows:— Shortly after the removal of a hide, it is stretched out on the ground near the tipi, hair side down, and held in place by wooden stakes or pins such as are used in staking down the covers of tipis. Clinging to the upturned flesh side of the hide are many fragments of muscular tissue, fat, and strands of connective tissue, variously blackened by coagulated blood. The first treatment is that of cleaning or fleshing. Shortly after the staking out, the surface is gone over with a fleshing tool by which the adhering flesh, etc., is raked and hacked away. This is an unpleasant and laborious process requiring more brute strength than skill. Should the hide become too dry and stiff to work well, the surface is treated with warm water. After fleshing, the hide is left to cure and bleach in the sun for some days, though it may be occasionally saturated by pouring warm water over its surface. The next thing is to work the skin down to an even thickness by scraping with an adze-like tool. The stakes are usually pulled up and the hard stiff hide laid down under a sun-shade or other shelter. Standing on the hide,

the woman leans over and with a sidewise movement removes the surface in chips or shavings, the action of the tool resembling that of a hand plane. After the flesh side has received this treatment, the hide is turned and the hair scraped away in the same manner. This completes the rawhide process and the subsequent treatment is determined by the use to be made of it.

The soft-tan finish as given to buffalo and deer hides for robes, soft bags, etc., is the same in its initial stages as the preceding. After fleshing and scraping, the rawhide is laid upon the ground and the surface rubbed over with an oily compound composed of brains and fat often mixed with liver. This is usually rubbed on with the hands. Any kind of fat may be used for this purpose though the preferred substance is as stated above. The writer observed several instances in which mixtures of packing house lard, baking flour, and warm water were rubbed over the rawhide as a substitute. The rawhide is placed in the sun, after the fatty compound has been thoroughly worked into the texture by rubbing with a smooth stone that the heat may aid in its further distribution. When quite dry, the hide is saturated with warm water and for a time kept rolled up in a bundle. In this state, it usually shrinks and requires a great deal of stretching to get it back to its approximate former size. This is accomplished by pulling with the hands and feet, two persons being required to handle a large skin. After this, come the rubbing and drying processes.

The surface is vigorously rubbed with a rough edged stone until it presents a clean-grained appearance. The skin is further dried and whitened by sawing back and forth through a loop of twisted sinew or thong tied to the under side of an inclined tipi pole. This



Fig. 16. Scraping a Hide. Blood.

friction develops considerable heat, thereby drying and softening the texture. As this and the preceding rubbing are parts of the same process their chronological relation is not absolute, but the order, was usually as given above. The skin is then ready for use.

Skins with the hair on, are treated in the same manner as above, except that the adze-tool is not applied to the hair side. A large buffalo robe was no light object and was handled with some difficulty, especially in the stretching, in consequence of which they were sometimes split down the middle and afterwards sewed together again.

Among some of the village tribes, it seems to have been customary to stretch the skin on a four-sided frame and place it upright as shown in the group for Plateau culture (south side of the Woodland Hall). The exact distribution of this trait is not known but it has been credited to the Santee-Dakota, Hidatsa, and Mandan. The Blackfoot sometimes used it in winter, but laid flat upon the ground.

Buckskin was prepared in the same manner as among the forest tribes. The tribes of the Plateau area were especially skillful in coloring the finished skin by smoking. There were many slight variations in all the above processes.

The adze-like scraper was in general use throughout the Plains and occurs elsewhere only among bordering tribes. Hence, it is peculiar to the buffalo hunting tribes. The handle was of antler, though occasionally of wood, and the blade of iron. Information from some Blackfoot and Dakota Indians indicates that in former times the blades were of chipped stone, but the chipped scraper found in archaeological collections from the Plains area cannot be fastened to the handle in the same manner as the iron blades, the latter being placed

on the inner, or under side, while the shape of the chipped stone blade seems to indicate that it was placed on the outside. Hence, the former use of stone blades for these scrapers must be considered doubtful. The iron blades are bound to the wedge-shaped haft, which each downward blow, when the tool is in use, forces tightly into the binding. When the pressure is removed the blade and binding may slip off. To prevent this, some tools are provided with a cord running from

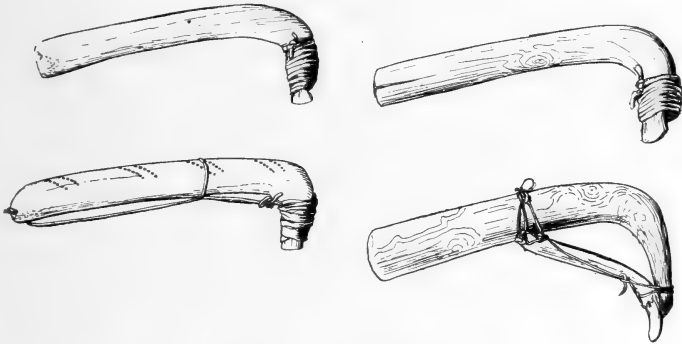


Fig. 17. Hide Scrapers.

the end of the handle once or twice around its middle and thence to the binding of the blade. Again a curved iron blade is used, one end of which is bound near the middle of the handle. These types (Fig. 17) are widely distributed throughout the Plains, but the curved iron blade seems to be most frequent among the Arapaho and Cheyenne, and wooden handles among the Comanche.

On the other hand, fleshing tools, chisel-shaped with

notched edges, were used throughout Canada east of the Rocky Mountains, and in many parts of the United States. Hence, they cannot be taken as peculiar to the Plains. The older type of flesher is apparently the one made entirely of bone, while the later ones were made entirely of iron. Sometimes an intermediate form is found in which a small metal blade is fastened to the end of a bone shaft (Fig. 18). The shaft of the flesher is usually covered with rawhide and to its end is attached a loop for the wrist. The iron flesher seems to be the only type peculiar to the Indians of the Plains. The distribution of the bone flesher is such that its most probable origin may be assigned to the Algonkin tribes of the Great Lakes and northward.

Beaming tools are identified with the dressing of deerskins and in this respect stand distinct from the adze tool used in dressing buffalo skins. They seem to be used wherever the dressing of deer skins is prevalent and are best known under the following types: — *a* split leg bones; *b* combined tibia and fibula of deer or similar animal; *c* rib bone; *d* wooden stick with metal blade in middle, stick usually curved.

From the collections in this Museum it seems that the split leg bone type is not found in the Plains. Should further inquiry show this to be the case, it would be a matter of some interest since the split bone type is found in archaeological collections from British Columbia, Ohio, and New York. The general aspect of the foregoing is, that some form of beaming tool is a concomitant of deer skin dressing from Point Barrow

and California (the Hupa) to Labrador, and Pennsylvania.

The rubbing with a rough stone is the usual treatment accorded deerskins, and cannot be considered peculiar to the Indians of the Plains.

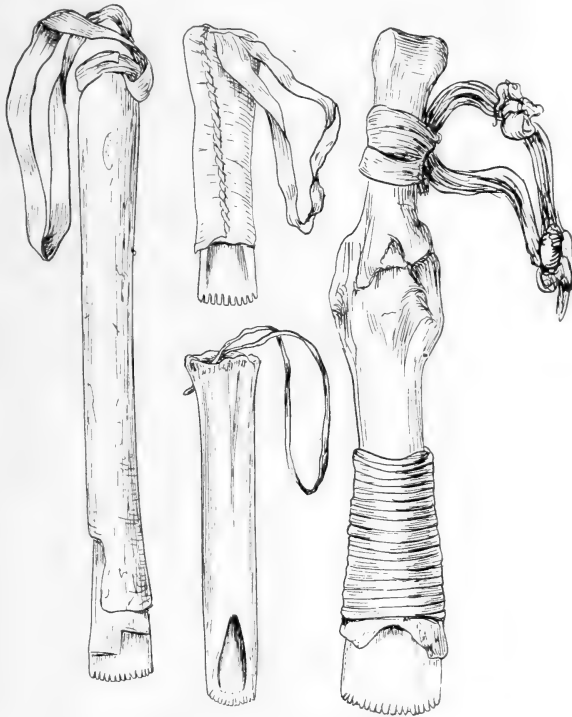


Fig. 18. Fleshing Tools.

Tailoring. The garments of the Indians of the Plains were simple in construction, and the cutting of the garment was characterized by an effort to make the

natural shape of the tanned skin fit into the desired garment, with as little waste as possible. We do not know how skins were cut before the introduction of metal knives by white traders. Needles were not used by the women among the Plains Indians, but the thread was pushed through holes made with bodkins or awls. In former times these awls were made of bone; the sewing was with sinew thread made by shredding out the long tendons from the leg of the buffalo and deer. When sewing, Blackfoot women had at hand a piece of dried tendon from which they pulled the shreds with their teeth, softened them in their mouths and then twisted them into a thread by rolling between the palms of their hands. The moistening of the sinew in the mouth not only enabled the women to twist the thread tightly, but also caused the sinew to expand so that when it dried in the stitch it shrank and drew the stitches tight. The ordinary woman's sewing outfit was carried in a soft bag of buffalo skin and consisted of bodkins, a piece of sinew, and a knife. Bodkins were sometimes carried in small beaded cases as shown in the exhibit.

The Use of Rawhide. In the use of rawhide for binding and hafting, the Plains tribes seem almost unique. When making mauls and stone-headed clubs a piece of green or wet hide is firmly sewed on and as this dries its natural shrinkage sets the parts firmly. This is nicely illustrated in saddles. Thus, rawhide here takes the place of nails, twine, cement, etc., in other cultures.

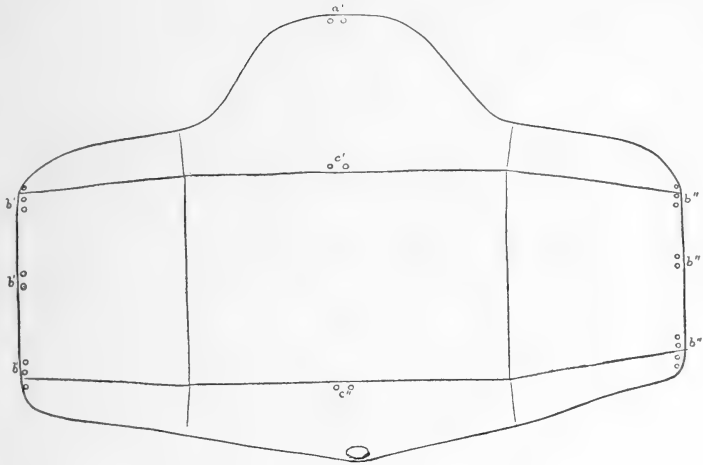


Fig. 19. Parfleche Pattern.

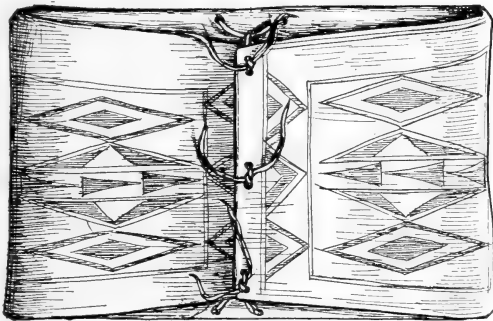


Fig. 20. A Parfleche.

The Parfleche. A number of characteristic bags were made of rawhide. The most conspicuous being the parfleche. Its simplicity of construction is inspiring and its usefulness scarcely to be over-estimated. The approximate form for a parfleche is shown in Fig. 19, and its completed form in Fig. 20. The side outlines as in Fig. 19 are irregular and show great variations, none of which can be taken as certainly characteristic. To fill the parfleche, it is opened out as in Fig. 19, and the contents arranged in the middle. The large flap is then brought over and held by lacing a', a''. The ends are then turned over and laced b', b''. The closed parfleche may then be secured by both or either of the looped thongs at c', c''.

Primarily, parfleche were used for holding pemmican (p. 26) though dried meat, dried berries, tallow, etc., found their way into them when convenient. In recent years, they seem to have more of a decorative than a practical value; or rather, according to our impression, they are cherished as mementos of buffalo days, the great good old time of Indian memory, always appropriate and acceptable as gifts. The usual fate of a gift parfleche is to be cut into moccasin soles. With the possible exception of the Osage, the parfleche was common among all these tribes but seldom encountered elsewhere.

Rawhide Bags. A rectangular bag (Fig. 21) was also common and quite uniform even to the modes of binding. They were used by women rather than by men. The larger ones may contain skin-dressing tools,

the smaller ones, sewing or other small implements, etc. Sometimes, they were used in gathering berries and other vegetable foods. A cylindrical rawhide case used for headdresses and other ceremonial objects is characteristic (Fig. 22). All these objects made of

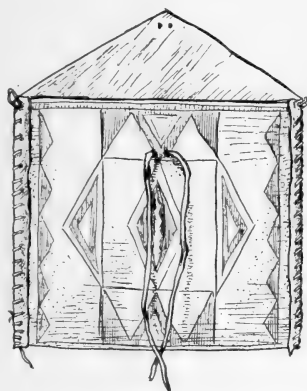


Fig. 21.

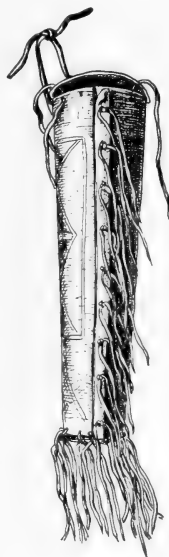


Fig. 22.

Fig. 21. Bag made of Rawhide.

Fig. 22. A Case made of Rawhide.

rawhide are further characterized by their highly individualized painted decorations (p. 120).

Soft Bags. The Dakota made some picturesque soft bags, used in pairs, and called "A bag for every possible thing." The collection contains many fine examples some of which are of buffalo hide. All are

skillfully decorated with quills or beads (Fig. 23). This type occurs among the Assiniboine, Gros Ventre, Dakota, Crow, Cheyenne, Arapaho, Ute, and Wind River Shoshone in almost identical form, but among the Nez Percé and Bannock with decided differences.



Fig. 23. Bag decorated with Porcupine Quills and Beads. Dakota.

Perhaps equally typical of the area were the long slender bags for smoking outfits. These are especially conspicuous in Dakota collections where they range from 80 to 150 cm. in length. At the ends, they have

rows of rawhide strips wrapped with quills and below a fringe of buckskin (Fig. 24). The Dakota type has been noted among the Assiniboine, Cheyenne, Crow,

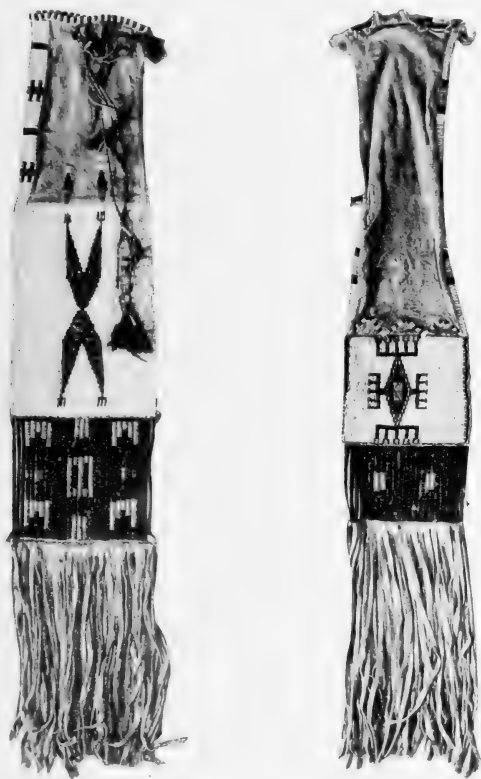


Fig. 24. Pipe and Tobacco Bags. Dakota.

and Hidatsa, but rarely among the Ute, Arapaho, or Shoshone. The Kiowa and Comanche make one, but with an entirely different fringe. The Blackfoot,

Northern Shoshone, Plains-Cree, and Sarsi use a smaller pouch of quite a different type, also reported from the Saulteaux and Cree of the Woodland area. These objects are, however, so often presented to visiting Indians that collectors find it difficult to separate the intrusions from the native samples for any particular tribe.

We have some reason for thinking that the Dakota type is quite recent, for the Teton claim that formerly the entire skins of young antelope, deer, and even birds and beavers were used as smoking bags. Some examples of such bags have been collected and are quite frequent in the ceremonial outfits of the Blackfoot. Again, the collections from many tribes contain bags made from the whole skins of unborn buffalo and deer, used for gathering berries and storing dried food, from which it is clear that a general type of seamless bag was once widely used. All this raises the question as to whether the introduction of metal cutting and sewing implements during the historic period may not have influenced the development of these long, rectangular fringed pipe bags.

The strike-a-light pouch often made of modern commercial leather is common to the Wind River Shoshone, Ute, Arapaho, Cheyenne, Dakota, Gros Ventre, and Assiniboine (Fig. 25). Among the Arapaho and Gros Ventre we also find a large pouch of similar designs. Again, the Northern Shoshone and Blackfoot are not included, neither are these pouches frequent among the Kiowa and Comanche.

Many of the paint bags used by the Blackfoot resemble their pipe bags even to the fringe and the flaps at the mouth. However, many paint bags in ceremonial outfits are without fringes or decorations of any kind. Some have square cut bases and some curved; their lengths range from 8 to 15 cm. In some cases, those with square cut bases are provided with a pendant at each corner. Decorated paint bags of the fringed type occur among the Gros Ventre, Assiniboine,



Fig. 25. Strike-a-light Pouch. Arapaho.

Arapaho, Sarsi, Dakota, and Shoshone. A specimen without the fringe appears in the Comanche collection. The Blackfoot, Sarsi, Gros Ventre, and Assiniboine use almost exclusively, bags with the flaps at the top, and bearing similar decorations. The Arapaho and Dakota incline to this type but also use those with straight tops. Among the Shoshone decorated paint bags are rare, but two specimens we have observed belong to these respective types. So far, it seems that

the Arapaho alone, use the peculiar paint bag with a triangular tail, suggesting the ornamented pendants to the animal skin medicine bags of the Algonkin in the Woodland area. However, we have seen a large bag of this pattern attributed to the Bannock.

A round-bottomed pouch with a decorated field and a transverse fringe was sometimes used for paint by the Blackfoot. The decorated part is on stiff rawhide while the upper is of soft leather, the sides and mouth of which are edged by two and three rows of beads respectively. This seems to be an unusual form for the Blackfoot and rare in other collections; while the related form, a large rounded bag, frequently encountered in Dakota and Assiniboine collections has not been observed among the northern group of tribes. The Blackfoot collection contains two small, flat rectangular cases with fringes. One of these was said to have been made for a mirror, the other for matches. However, such cases were formerly used by many tribes for carrying the ration ticket issued by the government. Their distribution seems to have been general in the Plains.

Some tribes used a long double saddle bag, highly decorated and fringed. There was usually a slit at one side for the horn of the saddle. So far, these have been reported for the Blackfoot, Sarsi, Crow, Dakota, and Cheyenne. They are mentioned as common in the Missouri Area, by Larpenteur, who implies that the shape is copied after those used by whites. Morice credits the Carrier of the Mackenzie culture area with similar bags used on dogs.

It will be noted that in style and range of bags and pouches, the village group of these Indians tends to stand apart from the other groups much more distinctly than the intermediate Plateau tribes of the west, for between the latter and the typical Plains tribes, there are few marked differences.

Household Utensils. In a preceding section, reference was made to baskets, which in parts of the Plateaus, often served as pots for boiling food. They were not, of course, set upon the fire, the water within being heated by hot stones. Pottery was made by the Hidatsa, Mandan, and Arikara, and probably by all the other tribes of the village group. There is some historical evidence that it was once made by the Blackfoot and there are traditions of its use among the Gros Ventre, Cheyenne, and Assiniboine; but with the possible exception of the Blackfoot, it has not been definitely credited to any of the nine typical tribes.

We have no definite information as to how foods were boiled among these tribes before traders introduced kettles. Many tribes, however, knew how to hang a fresh paunch upon sticks and boil in it with stones (Fig. 26). Some used a fresh skin in a hole. Thus Catlin says:—

“There is a very curious custom amongst the Assinneboins, from which they have taken their name; a name given them by their neighbors, from a singular mode they have of boiling their meat, which is done in the following manner:— when they kill meat, a hole is dug in the ground about the size of a common pot, and a piece of the raw hide of the animal, as taken from the back, is put over the hole, and then pressed down with the hands close around the sides, and filled with

water. The meat to be boiled is then put in this hole or pot of water; and in a fire which is built near by, several large stones are heated to a red heat, which are successively dipped and held in the water until



Fig. 26. Boiling with Hot Stones in a Paunch supported by Sticks. Blackfoot.

the meat is boiled; from which singular and peculiar custom, the Ojibeways have given them the appellation of Assinneboins or stone boilers.

“The Traders have recently supplied these people with pots; and

even long before that, the Mandans had instructed them in the secret of manufacturing very good and serviceable earthen pots; which together have entirely done away with the custom, excepting at public festivals; where they seem, like all other things of the human family, to take pleasure in cherishing and perpetuating their ancient customs." (p. 54.)

These methods were known to the Arapaho, Crow, Dakota, Gros Ventre, Blackfoot, and Assiniboine. Doubtless they were generally practised elsewhere in the Plains. Since California and the whole Pacific coast northward as well as the interior plateaus had stone-boiling as a general cultural trait, this distribution in the Plains is easily accounted for. On the other



Fig. 27. Buffalo Horn Spoon.

hand, the eastern United States appears as a great pottery area whose influence reached the village tribes.

So excepting the pottery-making village tribes, the methods of cooking in the Plains area before traders introduced kettles seem to have comprised broiling over the fire, baking in holes in the ground, and boiling in vessels of skin, basketry, or bark.

Buffalo horn spoons were used by all and whenever available ladles and dishes were fashioned from mountain sheep horn. Those of buffalo horn were used in

eating; these of mountain sheep horn usually for dipping, skimming and other culinary processes. In making these spoons, the horn was generally scorched over a fire until some of the gluey matter tried out, and then trimmed to the desired shape with a knife. Next it was boiled in water until soft, when the bowl was shaped over a water-worn stone of suitable size and the handle bent into the proper shape. The sizes and forms of such spoons varied a great deal, but no important tribal differences have been observed. In traveling, spoons, as well as bowls, were usually carried in bags of buffalo skin. Among the village tribes, wooden spoons were common, similar to those from Woodland collections. Bowls were fashioned from wood but were rare in the Plateaus and among the southern group. Knots of birch and other hard wood found occasionally along rivers were usually used for bowls. These were worked into shape by burning, scraping down with bits of stone, and finally polishing. They were used in eating, each person usually owning one which he carried with him when invited to a feast. Occasionally, bowls were made of mountain sheep horn; but such were the exception, rather than the rule. The finest bowls seem to have been made by the Dakota, and the crudest by the Comanche and Ute.

Tools. It is believed that formerly knives were made of bone and stone, but we have no very definite data. In fact, many tribes secured knives and other trade articles by barter with other Indians long before they were visited by explorers; hence, we have little in the way of historical data.

Some years ago a Museum field-worker chanced upon an old blind man smoothing down a walking stick with a stone flake, an interesting survival of primitive life. We can scarcely realize how quickly the civilized trader changed the material culture of the Indians. Perrot, one of the first French explorers visiting the eastern border of this area gives the following report of an address he made to some Fox and other Indians, "I see this fine village filled with young men, who are, I am sure, as courageous as they are well built; and who will, without doubt, not fear their enemies if they carry French weapons. It is for these young men that I leave my gun, which they must regard as the pledge of my esteem for their valor; they must use it if they are attacked. It will also be more satisfactory in hunting cattle (buffalo) and other animals than are all the arrows that you use. To you who are old men I leave my kettle; I carry it everywhere without fear of breaking it. You will cook in it the meat that your young men bring from the chase, and the food which you offer to the Frenchmen who come to visit you.' He tossed a dozen awls and knives to the women, and said to them: 'Throw aside your bone bodkins; these French awls will be much easier to use. These knives will be more useful to you in killing beavers and in cutting your meat than are the pieces of stone that you use.' Then, throwing to them some rassade (beads): 'See; these will better adorn your children and girls than do their usual ornaments.'" (p. 330). This is a fair sample of what occurred every-

where. On the other hand, the Indian did not so readily change his art, religion, and social customs.

Perhaps the best early observer of primitive tools was Captain Lewis who writes of the Northern Shoshone in the Original Journal of the Lewis and Clark Expedition, Vol. 3, p. 19, as follows:—

“The metal which we found in possession of these people consisted of a few indifferent knives, a few brass kettles some arm bands of iron and brass, a few buttons, worn as ornaments in their hair, a spear or two of a foot in length and some iron and brass arrow points which they informed me they obtained in exchange for horses from the Crow or Rocky Mountain Indians on the Yellowstone River. the bridlebits and stirreps they obtained from the Spaniards, tho these were but few. many of them made use of flint for knives, and with this instrument, skinned the animals they killed, dressed their fish and made their arrows; in short they used it for every purpose to which the knife is applied. this flint is of no regular form, and if they can only obtain a part of it, an inch or two in length that will cut they are satisfied. they renew the edge by flecking off the flint by means of the point of an Elk's or deer's horn. with the point of a deer or Elk's horn they also form their arrow points of the flint, with a quickness and neatness that is really astonishing. we found no axes nor hatchets among them; what wood they cut was done either with stone or Elk's horn. the latter they use always to rive or split their wood.”

Among the collections from the Blackfoot and Gros Ventre, we find models of bone knives made by old people who claimed to have used such (Fig. 28). There are also a few flakes of stone said to have been so used when metal knives were not at hand.

No aboriginal axes have been preserved but they are said to have been made of stone and bone. The hafted stone maul (Fig. 4) is everywhere present and we are told that the ax was hafted in a similar manner. Drilling was performed with arrow points and wood was dressed by stone scrapers.

Though we may be sure that the tribes of the Plains were, like those in most parts of prehistoric America, living in a stone age at the time of discovery, it is probable that they made some use of copper. The eastern camps of the Santee-Dakota were near the copper mines of Lake Superior and in 1661 Radisson, a famous explorer, saw copper ornaments while among their villages in Minnesota. In the North American Archaeological Hall may be seen a representative collection of copper implements from Minnesota and Wisconsin but such objects are rare within the Plains



Fig. 28. Bone Knife.

area. Yet, all these implements were of pure copper and therefore too soft to displace stone and bone, the Plains Indian at all events living in a true stone age culture.

Digging Stick. From a primitive point of view, the digging stick is most interesting. It has been reported from the Blackfoot, Gros Ventre, Hidatsa, Mandan, and Dakota as a simple pointed stick, used chiefly in digging edible roots and almost exclusively by women. (It is important to note the symbolic survival of this implement in the sun dance bundle of the Blackfoot, p. 110.) Some curious agricultural implements are

to be found in the Hidatsa collection, especially hoes made from the shoulder blades of buffalo. The latter have been reported from the Pawnee, Arikara, and Mandan.

Pipes. The Santee-Dakota have long been famous for the manufacture of pipes from catlinite or red pipe-stone which even in prehistoric times seems to have been distributed by trade. Some pipes in the Museum were collected in 1840 and are of the types described by Catlin and other early writers. Many of the village tribes used pottery pipes. Among the Assiniboine, Gros Ventre, and Blackfoot, a black stone was used for a Woodland type of pipe. In the Plateaus, the pipes were smaller than elsewhere and usually made from steatite. The Hidatsa and Mandan used a curiously shaped pipe, as may be seen from the collection. It is much like the Arapaho sacred tribal flat pipe. Occasionally, a straight tubular pipe was used. Among the Cheyenne in particular, this was a bone reinforced with sinew. Also, it seems to have been generally known to the Kiowa and Arapaho. Among the Blackfoot and Dakota, it is usually a simple stone tube with a stem. The form is everywhere exceptional and usually ceremonial.

The large medicine-pipe, or ceremonial, of the Blackfoot Indians, conspicuously displayed in the hall is scarcely to be considered under this head (see p. 104), as also the curious pipe-like wands of the Dakota, the Omaha (Demuth collection), and Pawnee.

Tobacco was raised (p. 29) by a few tribes. This

was mixed with the dried bark of the red willow, the leaves of the bear berry or with larb. Some wild species of *Nicotiana* were gathered by the Plateau tribes. In literature, the term *kinnikinnick* (Algonkin Ojibway, meaning "what is mixed") is applied to this mixture. From the very first, traders introduced commercial forms of tobacco which have been in general use ever since.

Weapons. Reference has been made to bows, clubs, and lances (p. 24) for killing buffalo; hence, it is only necessary to add that they were also the chief weapons in war. Among nearly all the tribes a circular shield of buffalo hide was used, though with so many ceremonial associations, that it is not clear whether the Indian prized it most for its charm value or for its mechanical properties, since in most cases he seems to have placed his faith in the powers symbolized in the devices painted thereon. No armor seems to have been used. The typical Plains Indian rode into battle, stripped to breech cloth and moccasins, with whatever symbolic head gear, charms, and insignia he was entitled to. However, the Blackfoot have traditions of having protected themselves from arrows by several skin shirts, one over the other, while among the Northern Shoshone, both men and horses were protected by "many folds of dressed antelope skin united with glue and sand." The Pawnee have also been credited with hardened skin coats. Since armor and helmets were used in some parts of the North Pacific Coast area and in parts of the Plateaus, it is natural to encounter

it on the northwestern margin of the Plains. Poisoned arrows have been credited to the Plateau tribes.

Games. Amusements and gambling are represented



Fig. 29. A Buffalo Hide Shield from the Northern Blackfoot.

in collections by many curious devices. Adults rarely played for amusement, leaving such pastime to children; they themselves played for stakes. Most American

games are more widely distributed than many other cultural traits; but a few seem almost entirely peculiar to the Plains.

A game in which a forked anchor-like stick is thrown at a rolling ring was known to the Dakota, Omaha, and Pawnee. So far, it has not been reported from other tribes.

Another game of limited distribution is the large hoop with a double pole, the two players endeavoring to place the poles so that when the hoop falls, it will make a count according to which of the four marks in the circumference are nearest a pole. This has been reported for the Arapaho, Dakota, and Omaha. Among the Dakota, this game seems to have been associated with magical ceremonies for "calling the buffalo" and also played a part in the ghost dance (p. 113) movement. The Arapaho have also a sacred game hoop associated with the sun dance. Other forms of this game in which a single pole is used have been reported from almost every tribe in the Plains. It occurs also outside this area. Yet, in the Plains it takes special forms in different localities. Thus the Blackfoot and their neighbors use a very small spoked ring with an arrow for the pole, the Mandan used a small plain ring but with a very long pole, while the Comanche used a large life-preserver like hoop with a sectioned club for a pole.

The netted hoop at which darts were thrown is almost universal in the Plains, but occurs elsewhere as well. Other popular games were stick dice, and the

hand game (hiding the button). Among the Blackfoot and their neighbors, the hand game was a favorite gambling device and handled by team work: i. e., one large group played against another.

By a comparative study of games, it would be possible to divide the tribes of the area into a number of sub-geographical groups. On the other hand, it is clear that taken as a whole, these tribes have sufficient individuality to justify their position in a distinct culture area.

We have now passed in review the main characteristics of material culture among the Plains tribes. There are many other important details having functional and comparative significance for whose consideration the reader must be referred to the special literature. We have seen how the typical, or central group, of tribes (Blackfoot, Gros Ventre, Assiniboine, Crow, Teton-Dakota, Cheyenne, Arapaho, Kiowa, and Comanche) seems to have few traits in common with adjoining culture areas, while the border tribes manifest a mixture of the traits emphasized among the typical group and those most characteristic of other culture areas. For example, the typical material culture of the Plains is peculiar in the absence of pottery, the textile arts, agriculture, and the use of wild grains and seeds, all of which appear to varying degrees in one or the other of the marginal groups.

In general, it appears that in the Plains, traits of material culture fall within geographical rather than

linguistical and political boundaries. While all cultural traits seem to show the same tendency, this is most pronounced in material culture. Thus, from the point of view of this chapter the Plains-Cree may merit a place in the typical group, but in some other respects hold an intermediate position. The Sarsi and Kiowa-Apache have the typical culture, but as they are very small groups and culturally dominated by the Blackfoot and Kiowa respectively, they were not given separate designation. All the other tribes without exception manifest some traits of material culture found in other areas.

In part the causes for the observed greater uniformity in material culture seem to lie in the geographical environment, since food, industries, and some household arts are certain to be influenced by the character of the materials available. This, however, cannot be the whole story, for pottery clay is everywhere within easy reach, yet the typical tribes were not potters. They also wanted not the opportunities to learn the art from neighboring tribes. It seems more probable that certain dominant factors in their lives exercised a selective influence over the many cultural traits offered at home and abroad, thus producing a culture well adapted to the place and to the time.

CHAPTER II.

SOCIAL ORGANIZATION.

MUSEUM collections cannot illustrate this important phase of culture; but since no comprehensive view of the subject can be had without its consideration, we must give it some space. It is customary to treat of all habits or customs having to do with the family organization, the community and what we call the state, under the head of social organization. So, in order that the reader may form some general idea of social conditions in this area, we shall review some of the discussed points. Unfortunately, the data for many tribes are meager so that a complete review cannot be made. The Blackfoot, Sarsi, Crow, Northern Shoshone, Nez Percé, Assiniboine, Teton-Dakota, Omaha, Hidatsa, Arapaho, Cheyenne, and Kiowa have been carefully investigated, but of the remaining tribes, we know very little.

As previously stated, it is customary to accept the political units of the Indian as tribes or independent nations. Thus, while the Crow recognize several subdivisions, they feel that they are one people and support a council or governing body for the whole. The Blackfoot, on the other hand, are composed of three

distinct political divisions, the Piegan, Blood, and Blackfoot, with no superior government, yet they feel that they are one people with common interests and since they have a common speech and precisely similar cultures, it is customary to ignore the political units and designate them by the larger term. The Hidatsa, one of the village group, have essentially the same language as the Crow, but have many different traits of culture and while conscious of a relationship, do not recognize any political sympathies. Again, in the Dakota, we have a more complicated scheme. They recognize first seven divisions as "council fires": Mdewakanton, Wahpeton, Wahpekute, Sisseton, Yankton, Yanktonai, and Teton. These, as indicated by separate fires, were politically independent, but did not make war upon each other. To the whole, they gave the name Dakota, or, those who are our friends. Again, they grouped the first four into a larger whole, the Santee-Dakota (Isanyati), the Yankton and Yanktonai formed a second group and the Teton a third. However, the culture of the second and third groups is so similar that it is quite admissible to include them under the title Teton-Dakota. All the seven divisions were again subdivided, especially the Teton which had at least eight large practically independent divisions.

Thus, it is clear, that no hard and fast distinctions can be made between independent and dependent political units, for in some cases the people feel as if one and yet support what seem to be separate governments. This is not by any means peculiar to the Plains. Since

anthropology, is, after all, chiefly a study of culture, it is usual to place under one head all units having exactly the same culture when otherwise closely related by language and blood. Our previous list of tribes, therefore, represents those of approximately equal cultural values for the whole series of traits (p. 17).

Using tribe to designate units with independent governing bodies, we find that these tribes are in turn composed of small units, each under the leadership of a chief, seconded by a few head men. These subdivisions are often designated in technical literature as bands — a chief and his followers. It frequently happens that the members of these bands inherit their memberships according to a fixed system. When this is reckoned through the mother, or in the female line, the term clan is used instead of band; when reckoned in the male line, gens. The clans and gentes of the Plains are of special interest because of the tendency to regulate marriage so that it must be exogamic, or between individuals from different clans and gentes and also because of the difficulty in discovering whether this is due to the mere accident of blood relationship or some other obscure tendency. On this point, there is a large body of special literature.

An exogamic gentile system has been reported for the Omaha, Ponca, Iowa, Oto, Missouri, Osage, and Kansas. An exogamic clan system prevails among the Hidatsa, Crow, and probably among the Mandan. Among the Plateau group, the Arapaho, Kiowa, Comanche, Assiniboine, and probable also among the

Teton-Dakota and Plains-Cree we have only bands without marriage restrictions. In addition, we have some problematical cases in the Blackfoot, Gros Ventre,

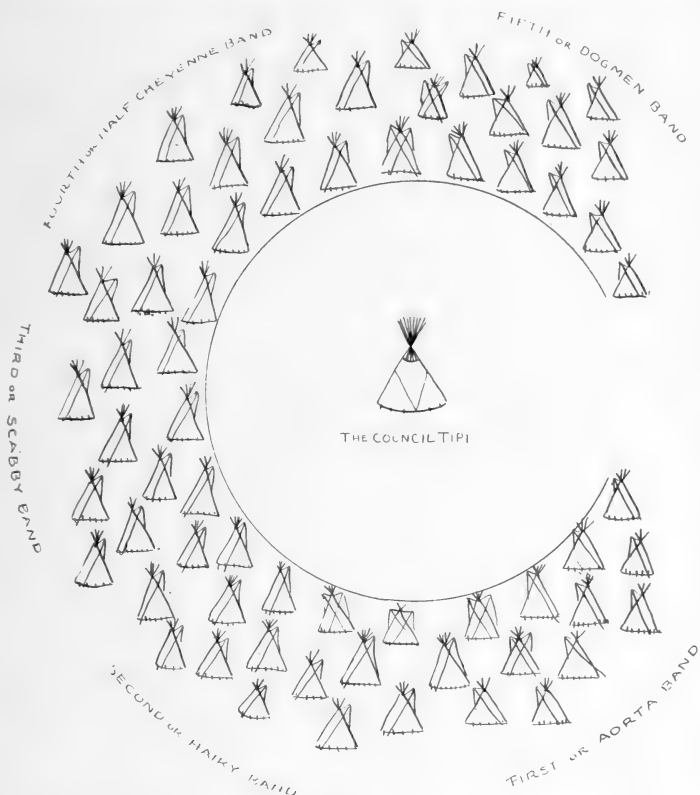


Fig. 30. The Cheyenne Camp Circle. (Dorsey.)

and perhaps others, where there seems to be a tendency toward a gentile exogamous system, but our data are not sufficiently full to determine whether these are intermediate or true transitional types.

THE CAMP CIRCLE.

Among the typical tribes and even in most places where tipis were used, we find an organized camp, or circle. In its pure form, this is a tribal scheme by which each "band" has a fixed place or order, generally enumerated sunwise, from the opening of the circle in the easternmost segment (Fig. 30). When forming a camp, the leaders selected the site and marked off the two sides of the opening, or gap, whence the respective bands fell-in in proper order and direction to form the circle. At the center was a council tent, where the governing body met and at symmetrical points were the tipis of the "soldiers," or police. While the camp circle was the most striking and picturesque trait of Plains culture, it was probably no more than a convenient form of organized camp for a political group composed of "bands." It is likely that some of the typical tribes developed it first, whence, because of its practical value, it was adopted by the others and even some of the village and Plateau tribes when they used tipis. It is, however, peculiar to the Plains.

MARRIAGE.

There seems to be nothing distinctive in the marriage customs of the Plains, even in the matter of exogamy (p. 84). A man was permitted to marry as many women as he desired, yet relatively few men had more than three wives. Everywhere the rule was to marry

sisters, if possible, since it is said they were less likely to quarrel amongst themselves. As no slaves were kept and servants were unknown, the aristocratic family could only meet the situation by increasing the number of wives. Further, it was usual to regard the first wife as the head of the family, the others as subordinate.

The care and rearing of children is a universal phase of human life. Among the collections will be found cradles, or carriers, for the protection of the newly born, often highly ornamented. Dolls and miniature objects such as travois, saddles, and bags, were common as toys and often find their way into museums. (For a special exhibit see the Children's Room.) A curious custom, not confined to the Plains, was to preserve the navel cord in a small ornamented pouch, hung to the cradle or about the neck of the child. Among the Dakota, these usually took the forms of turtles and lizards, among the Blackfoot, snakes and horned-toads, etc. Examples are shown in the various collections.

Naming children is everywhere an important matter. Usually an old person is called in to do this and selects a single name. When a boy reaches adolescence, a new name is often given and again, if as an adult, he performs some meritorious deed. Girls seldom change their names, not even at marriage. Among many tribes there are special ceremonies for girls when adolescence sets in.

When an Indian is ill a doctor is called in. He is

supposed to have received power from some supernatural source and sings songs and prays at the bedside. Sometimes vegetable substances are given as medicine, but these are usually harmless, the faith being placed entirely in the religious formula.

At death the body was dressed and painted, then wrapped in a robe and placed upon a scaffold, in a tree, or upon a hill. None of the Plains tribes seem to have practised cremation and but a few of them placed the bodies under ground. In fact, the Government authorities still have great difficulty in inducing the modern Indians to inter their dead, as it is against their belief, in that it would interfere with the passage of the spirit to the other world.

GOVERNMENT.

The political organization was rather loose and in general quite democratic. Each band, gens, or clan informally recognized an indefinite number of men as head men, one or more of whom were formally vested with representative powers in the tribal council. Among the Dakota, there was a kind of society of older men, self-electing, who legislated on all important matters. They appointed four of their number to exercise the executive functions. The Omaha had a somewhat similar system. The Cheyenne had four chiefs of equal rank and a popularly elected council of forty members. Among the Blackfoot we seem to have a much less systematic arrangement, the leading

men of each band forming a general council which in turn recognized one individual as chief. In the Plateaus the Northern Shoshone, at least, had even a less formal system.

Though there were in the plains some groups spoken of as confederacies by pioneers; viz., the Blackfoot, Sarsi, and Gros Ventre; the seven Dakota tribes; the Pawnee group; the Arapaho, Cheyenne, Kiowa, and Comanche, none of these seem to have been more than alliances. At least, there was nothing like the celebrated League of the Iroquios in the Woodland area. In general, the governments of the Plains were in no wise peculiar.

SOLDIER BANDS, OR SOCIETIES.

We have previously mentioned the camp police. The Dakota governing society, for example, appointed eight or more men as soldiers or marshals to enforce their regulations at all times. There were also a number of men's societies or fraternities of a military and ceremonial character upon any one or more of which the tribal government might also call for such service. As these societies had an organization of their own, it was only necessary to deal with their leaders. The call to service was for specific occasions and the particular society selected automatically ceased to act when the occasion passed. The Blackfoot, Gros Ventre, Assiniboine, Cheyenne, Arapaho, Crow, Hidatsa, Mandan, and Arikara, also had each a number of societies



Fig. 31. Dog Society Dancer. Arapaho.

upon whom the governing body called for police service. In addition to these specific parallels, we find that all tribes using the camp circle, or organized camp, when hunting buffalo, also appointed police who executed orders in a similar manner. Among the tribes having soldier societies we again find certain marked similarities in the current names for these organizations as shown in the following partial list, compiled by Dr. R. H. Lowie:—

<i>Mandan</i>	<i>Hidatsa</i>	<i>Arikara</i>	<i>Piegan</i>	<i>Arapaho</i>	<i>Gros Ventre</i>
—	Kit-foxes	Foxes	Kit-foxes	Kit-foxes	Kit-foxes
—	—	—	Mosquitoes	—	Flies
Ravens	Ravens	Crows	Ravens	—	—
Half-Shorn Heads	Half-Shorn Heads	—	—	—	—
Foolish Dogs	Crazy Dogs	Mad Dogs	Crazy Dogs	Crazy Lodge	Crazy Lodge
Dogs (?)	Small Dogs	Young Dogs	—	—	—
Old Dogs	Dogs	Big Young Dogs (?)	Dogs	Dogs	Dogs
Soldiers	Enemies	Soldiers	} Braves (?) } Soldiers (?)	—	—
Buffaloes	Bulls	Mad Bulls		Bulls	—

It will be noted that a mad or foolish society is found in each of the six tribes as is also a dog society, while the kit-fox and the raven are common to a number. Investigations of these organizations have shown that though those bearing similar names are not exact duplicates, they nevertheless have many fundamental elements in common.

The most probable explanation of this correspondence in name and element is that each distinct society had a common origin, or that the bulls, for example,

were created by one tribe and then passed on to others. This is an important point because among anthropologists there are two extreme theories to account for similarities in culture, one that all like cultural traits wherever found had a common origin, the other that all were invented or derived independently by the tribes practising them. The former is often spoken of as the diffusion of cultural traits, the latter as independent development. It is generally agreed, however, that most cultures contain traits acquired by diffusion (or borrowing) as well as some entirely original to themselves, the whole forming a complex very difficult to analyze. Returning to these Plains Indian societies we find among several tribes (Blackfoot, Gros Ventre, Arapaho, Mandan, and Hidatsa) an additional feature in that the societies enumerated in our table are arranged in series so that ordinarily a man passes from one to the other in order like school children in their grades, thus automatically grouping the members according to age. For this variety, the term age-society has been used by Dr. Kroeber. Thus, it appears that while in certain general features, the soldier band system of police is found among all tribes in the area, there are many other interesting differences distributed to varying extents. For example, the age grouping is common to but five tribes while among the Arapaho it takes a special form, the age grouping being combined with appropriate ceremonial, or dancing functions, including practically all the adult males in the tribe. An unusually complete set of the regalia

of the Arapaho series is exhibited in the Museum and from the Gros Ventre, a related tribe, is shown the only known specimen of the peculiar shirt worn by a highest degree dog society member. Other regalia is exhibited for the Blackfoot, Crow, and Hidatsa.

Among the Blackfoot, Arapaho, Hidatsa, Mandan, and Gros Ventre, we find one or more women's societies



Fig. 32. Headdress of Buffalo Skins. Arapaho Women's Society.

not in any way performing police functions, but still regarded as somehow correlated with the series for men. Among the Blackfoot and Arapaho, the one women's society is based upon mythical conceptions of the buffalo as is illustrated by their regalia (Fig. 32). Among the Mandan, where there were several women's societies, we may note a buffalo organization whose ceremonies were believed to charm the buffalo near



Fig. 33. A Blackfoot War Record. Beginning at the top, we have Bear Chief (a) on foot surprised by Assiniboine Indians but he escaped; (b) Double Runner cut loose four horses; (c) Double Runner captures a Gros Ventre boy; (d) Double Runner and a companion encounter and kill two Gros Ventre, he taking a lance from one; (e) even while a boy Double Runner picked up a war-bonnet dropped by a fleeing Gros Ventre which in the system counts as a deed; (f) as a man he has two adventures with Crow Indians, taking a gun from one; (g) he, as leader, met five Flathead in a pit and killed them; (h) a Cree took shelter in some cherry brush in a hole, but Big Nose went in for him; (i) not completely shown, but representing a Cree Indian killed while

when game was scarce and the tribe threatened with starvation. Some of their regalia will be found in the Museum.

These societies for both men and women in their fundamental and widely distributed features, must be set down with the camp circle as one of the most characteristic social traits of the Plains.

SOCIAL DISTINCTION.

There being no such thing as individual ownership of land, property consisted of horses, food, utensils, etc. These were possessed in varying degrees by the individual members of a tribe, but in no case was the amount of such property given much weight in the determination of social position. Anyone in need of food, horses, or anything whatsoever, was certain to receive some material assistance from those who had an abundance. Among most tribes, the lavish giving away of property was a sure road to social distinction. Yet, the real aristocrats seem to have been those with great and good deeds to their credit. The Dakota, Blackfoot, Cheyenne, and no doubt others, had a more or less definite system for the grading of war deeds, among the highest being the "coup," or the touching

running off Piegan horses; (j) Double Runner, carrying a medicine-pipe, took a bow from a Gros Ventre and then killed him; (k) Double Runner took a shield and a horse from a Crow tipi, a dog barked and he was hotly pursued; (m) he killed two Gros Ventre and took two guns; (n) he captured a Gros Ventre woman and a boy; (o) he took four mules.

of an enemy. Curiously enough, this touching as well as capturing a gun was regarded by the Blackfoot, at least, as deserving of greater rank than the mere taking of an enemy's life. The Teton-Dakota, on the other hand, while recognizing the high value of the coup, also put great stress on the taking of a scalp. Running off, or stealing the horses of another tribe, was also a worthy feat among all these Indians. Among most tribes, it was customary at feasts and other gatherings for men to come forward and formally "count" or announce their deeds and often the qualifications for various posts of honor and service were the possession of at least four coups.

The social importance of such deeds naturally developed a kind of heraldry of which the picture writing of the Plains tribes is an example. It was usual to record one's deeds on his buffalo robe, or on the sides of a tipi (Fig. 33). The Dakota had special rules for wearing eagle feathers in the hair, by which one could tell at a glance what deeds the wearer had performed. The Mandan, Assiniboine, and perhaps others, had similar systems. The Dakota carried the idea over into the decorations for horses and clothing. Even the designs upon their moccasins were sometimes made to emblazon the deeds of the wearer.

CHAPTER III.

RELIGION AND CEREMONIES.

THE sacred beliefs of these Indians are largely formulated and expressed in sayings and narratives having some resemblance to the legends of European peoples. Large collections of these tales and myths have been collected from the Blackfoot, Nez Percé, Assiniboine, Gros Ventre, Arapaho, Arikara, Pawnee, Omaha, Northern Shoshone, and less complete series from the Dakota, Crow, Cheyenne, and Ute. In these will be found much curious and interesting information. Each tribe in this area has its own individual beliefs and sacred myths, yet many have much in common, the distribution of the various incidents therein forming one of the important problems in anthropology.

MYTHOLOGY.

A deluge myth is almost universal in the Plains and very widely distributed in the wooded areas as well. Almost everywhere it takes the form of having the submerged earth restored by a more or less human being who sends down a diving bird or animal to obtain

a little mud or sand. Of other tales found both within and without the Plains area we may mention, the "Twin-heroes," the "Woman who married a star and bore a Hero," and the "Woman who married a Dog." Working out the distribution of such myths is one of the fascinating tasks of the folklorist and will some time give us a clearer insight into the prehistoric cultural contacts of the several tribes. A typical study of this kind by Dr. R. H. Lowie will be found in the *Journal of American Folk-Lore*, September, 1908, where, for example, the star-born hero is traced through the Crow, Pawnee, Dakota, Arapaho, Kiowa, Gros Ventre, and Blackfoot. Indian mythologies often contain large groups of tales each reciting the adventures of a distinguished mythical hero. In the Plains, as elsewhere, we find among these a peculiar character with supernatural attributes, who transforms and in some instances creates the world, who rights great wrongs, and corrects great evils, yet who often stoops to trivial and vulgar pranks. Among the Blackfoot, for instance, he appears under the name of Napiw^a, white old man, or old man of the dawn. He is distinctly human in form and name. The Gros Ventre, Cheyenne, Arapaho, Hidatsa, and Mandan seem to have a similar character in their mythology. In the Plateau area to the west, this character is usually given the animal name and attributes of a coyote, and appears in the Plains among the Crow, Nez Percé, and the Shoshone. Again, the Assiniboine, Dakota, and Omaha give him a spider-like character (Unktomi). On the

other hand, coyote tales appear among the Pawnee, Arikara, and occasionally among the Dakota, but as the adventures of a minor character. Among the Omaha and some neighboring tribes, the rabbit is a secondary trickster. Since the rabbit is prominent in the myths of the Cherokee of the Southeastern area and the coyote among the Plateau tribes, it seems safe to explain their occasional presence in the Plains as due to borrowing. Thus, taking the trickster alone it is possible to form clearly defined cultural groups in the Plains.

Animal tales are also common among the Indian tribes. Among these, as in most every part of the world, we find curious ways of explaining the structural peculiarities of animals as due to some accident; for example, the Blackfoot trickster in a rage tried to pull the lynx asunder whence that animal now has a long body and awkward legs. Such explanations abound in all classes of myths and are considered primary and secondary according to whether they directly explain the present phenomena as in the case of the lynx, or simply narrate an anecdote in which the transformation is a mere incident. Occasionally, one meets with a tale at whose ending the listener is abruptly told that thenceforth things were ordered so and so, the logical connection not being apparent. Probably what happens here is that the native author knowing it to be customary to explain similar phenomena by mythical occurrences, rather crudely adds the explanation to a current tale. However, not all the animal tales of the

Plains function as explanations of origin and transformation, for there are tales in which supernatural beings appear in the form of well-known animals and assist or grant favors to human beings. The buffalo is a favorite character and is seldom encountered in the mythology from other areas. The bear, beaver, elk, eagle, owl, and snake are frequently referred to but also occur in the myths of Woodland and other tribes. Of imaginary creatures the most conspicuous are the water monster and the thunder bird. The former is usually an immense horned serpent who keeps under water and who fears the thunder. The thunder bird is an eagle-like being who causes thunder.

Migration legends and those accounting for the origins and forms of tribal beliefs and institutions make up a large portion of the mythology for the respective tribes and must be carefully considered in formulating a concept of the religion and philosophy of each.

RELIGIOUS CONCEPTS.

To most of us the mention of religion brings to mind notions of God, a supreme over-ruling and decidedly personal being. Nothing just like this is found among the Indians. Yet, they seem to have formulated rather complex and abstract notions of a controlling power or series of powers pervading the universe. Thus, the Dakota use a term *wakan tanka* which seems to mean, the greatest sacred ones. The term has often been rendered as the great mystery but that is not quite

correct. It is true that anything strange and mysterious is pronounced *wakan*, or as having attributes analogous to *wakan tanka*; but this seems to mean supernatural. The fact is, as demonstrated by Dr. J. R. Walker, that the Dakota do recognize a kind of hierarchy in which the Sun stands first, or as one of the *wakan tanka*. Of almost equal rank is the Sky, the Earth, and the Rock. Next in order is another group of four, the Moon (female), Winged-one, Wind and the "Mediator" (female). Then come inferior beings, the buffalo, bear, the four winds and the whirlwind; then come four classes or groups of beings and so on in almost bewildering complexity. So far as we know, no other Plains tribe has worked out quite so complex a conception. The Omaha *wakonda* is in a way like the Dakota *wakan tanka*. The Pawnee recognized a dominating power spoken of as *tirawa*, or, "father," under whom were the heavenly bodies, the winds, the thunder, lightning, and rain. The Blackfoot resolved the phenomena of the universe into "powers," the greatest and most universal of which was *natosiwa*, or sun power. The sun was in a way a personal god having the moon for his wife and the morningstar for his son. Unfortunately, we lack data for most tribes, this being a point peculiarly difficult to investigate. One thing, however, is suggested. There is tendency here to conceive of some all-pervading force or element in the universe that emanates from an indefinite source to which a special name is given, which in turn becomes an attribute applicable to each and every manifesta-

tion of this conceivedly divine element. Probably nowhere, not even among the Dakota, is there a clear cut formulation of a definite god-like being with definite powers and functions.

A SUPERNATURAL HELPER.

It is much easier, however, to gather reliable data on religious activities, or the functioning of these beliefs in actual life. In the Plains as well as in some other parts of the continent the ideal is for all males to establish some kind of direct relation with this divine element or power. The idea is that if one follows the proper formula, the power will appear in some human or animal form and will form a compact with the applicant for his good fortune during life. The procedure is usually for a youth to put himself in the hands of a priest, or shaman, who instructs him and requires him to fast and pray alone in some secluded spot until the vision or dream is obtained. In the Plains such an experience results in the conferring of one or more songs, the laying on of certain curious formal taboos, and of the designation of some object, as a feather, skin, shell, etc. to be carried and used as a charm or medicine bundle. This procedure has been definitely reported for the Sarsi, Plains-Cree, Blackfoot, Gros Ventre, Crow, Hidatsa, Mandan, Dakota, Assiniboine, Omaha, Arapaho, Cheyenne, Kiowa, and Pawnee. It is probably universal except perhaps among the Ute, Shoshone, and Nez Percé. We know also that it is frequent

among the Woodland Cree, Menomini, and Ojibway. Aside from hunger and thirst, there was no self torture except among the Dakota and possibly a few others of Siouan stock. With these it was the rule for all desiring to become shamans, or those in close rapport with the divine element, to thrust skewers through the skin and tie themselves up as in the sun dance, to be discussed later. Now, when a Blackfoot, a Dakota, or an Omaha went out to fast and pray for such a revelation, he called upon all the recognized mythical creatures, the heavenly bodies, and all in the earth and in the waters, which is consistent with the conceptions of an illy localized power or element manifest everywhere. No doubt this applies equally to all the aforesaid tribes. If this divine element spoke through a hawk, for example, the applicant would then look upon that bird as the localization or medium for it; and for him, *wakonda*, or what not, was manifest or resided therein; but, of course, not exclusively. Quite likely, he would keep in a bundle the skin or feathers of a hawk that the divine presence might ever be at hand. This is why the warriors of the Plains carried such charms into battle and looked to them for aid. It is not far wrong to say that all religious ceremonies and practices (all the so-called medicines of the Plains Indians) originate and receive their sanction in dreams or induced visions, all, in short, handed down directly by this wonderful vitalizing element.



Fig. 34. Medicine-pipe and Bundle.

MEDICINE BUNDLES.

In anthropological literature it is the custom to use the term medicine in a technical sense, meaning anything that manifests the divine element. Among the Blackfoot, Arapaho, Crow, Kiowa, Hidatsa, and Mandan especially and to varying extent among the other tribes of the Plains, the men made extraordinary use of these charms or amulets, which were after all little medicine bundles. A man rarely went to war or engaged in any serious undertaking without carrying and appealing to one or more of these small bundles. They usually originated as just stated, in the dreams or visions of so-called medicinemen who gave them out for fees. With them were often one or more songs and a formula of some kind. Examples of these may be seen in the Museum's Blackfoot collections, where they seem most highly developed.

In addition to these many small individual and more or less personal medicines, many tribes have more pretentious bundles of sacred objects which are seldom opened and never used except in connection with certain solemn ceremonies. We refer to such as the war bundles of the Osage and Pawnee, the medicine arrows of the Cheyenne, the sacred pipe and the wheel of the Arapaho, the "taimay" image of the Kiowa, the Okipa drums of the Mandan, and the buffalo calf pipe of the Dakota. In addition to these very famous ones, there are numerous similar ones owned by individuals, especially among the Blackfoot, Crow, Sarsi, Gros

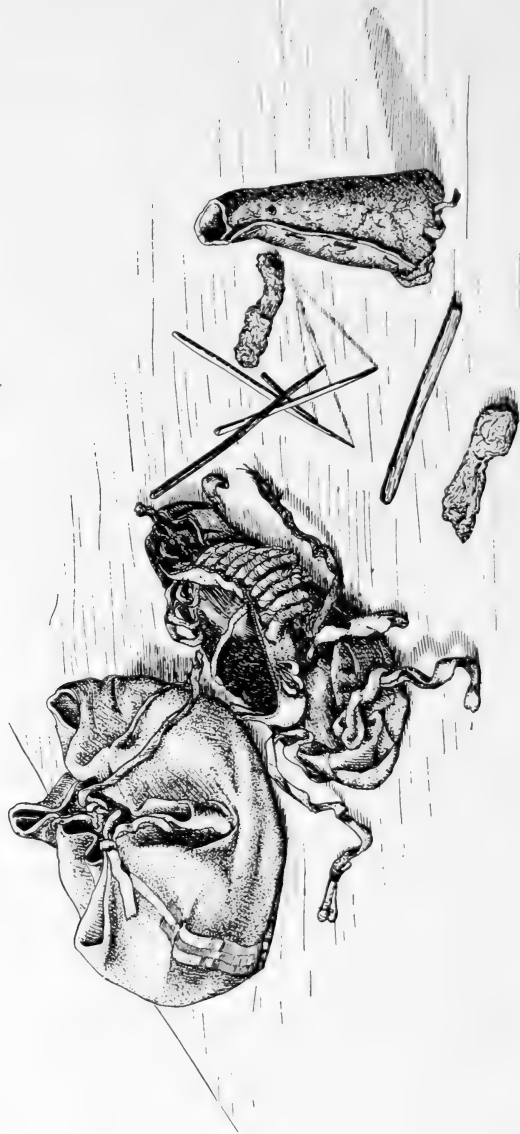


Fig. 35. A Bundle and Contents. Arapaho.

Ventre, Omaha, Hidatsa, and Pawnee. The best known type of bundle is the medicine-pipe which is highly developed among the Blackfoot and their immediate neighbors. In the early literature of the area frequent reference is made to the calumet, or in this case, a pair of pipestems waved and sung in connection with a ritual binding the participants in a firm brotherhood. This is reported among the Pawnee, Omaha, Ponca, Mandan, and the Dakota, and according to tradition originated with the Pawnee. The use of either type seems not to have reached the Plateau tribes. One singular thing is that in all these medicine-pipes, it is the stem that is sacred, often it is not even perforated, is frequently without a bowl, and in any event rarely actually smoked. It is thus clear that the whole is highly symbolic.

The war and clan bundles of the Osage and Pawnee have not been investigated but seem to belong to a type widely distributed among the Sauk and Fox, Menomini, and Winnebago of the Woodland area. Among the Blackfoot, there is a special development of the bundle scheme in that they recognize the power of transferring all bundles and amulets to another person together with the compact between the divine element. The one receiving the bundle pays a handsome sum to the former owner. This buying and selling of medicines is so frequent that many men have at one time and another owned all the types of bundles in the tribe.

In the Museum collections are a few important

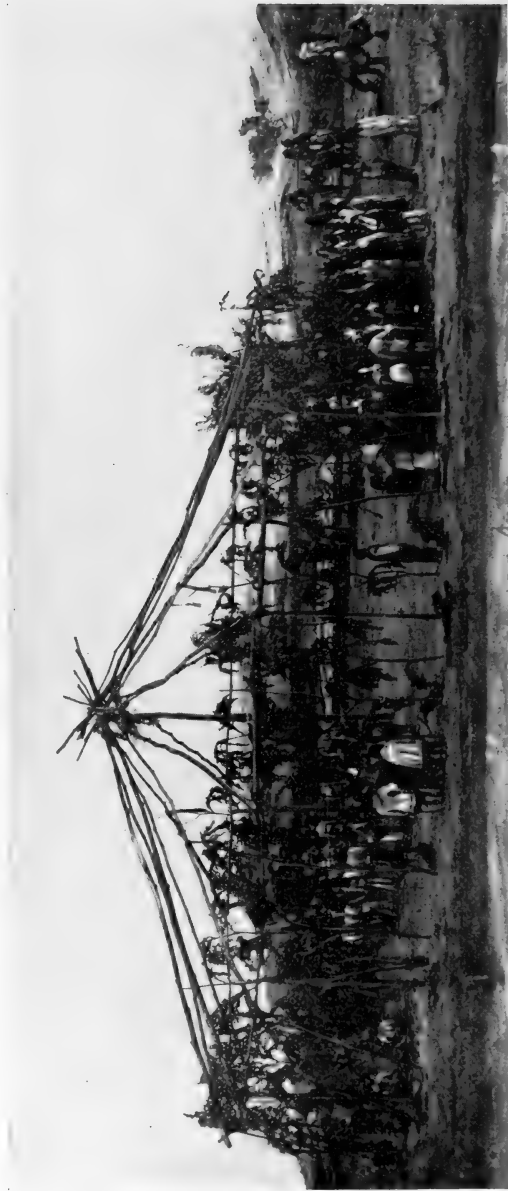


Fig. 36. Arapaho Sun Dance, Model in the Museum.

bundles, a medicine-pipe and a sun dance bundle (natoas) from the Blackfoot, the latter a very sacred thing; an Arapaho bundle; and the sacred image used in the Crow sun dance. To them the reader is referred for further details.

TRIBAL CEREMONIES.

In addition to the above ceremonial practices, there are a number of procedures deserving special mention. Most tribes had a series of ceremonies for calling the buffalo and inducing them to enter the pound or to permit themselves to be easily taken by the hunters. These have not been satisfactorily investigated but seem to have varied a great deal probably because this function was usually delegated to a few tribal shamans each of whom exercised his own special formulae. The Crow, the Blackfoot, and perhaps a few other tribes had elaborate tobacco planting ceremonies. The Pawnee formerly sacrificed a captured maiden in a ceremony to propitiate the growing of maize and some of the maize-growing tribes in this area are credited with a "green corn" or harvest dance, a characteristic of the tribes east of the Mississippi. The Ponca also maintained some curious star ceremonies having a vague resemblance to certain "Night chants" of the Navajo of the Southwest. Turning from these rather exceptional practices, we find certain highly typical ceremonies.

The Sun Dance. One of the most important tribal



Fig. 37. Digging Stick and Case for Blackfoot Sun Dance Bundle.



Fig. 38. Sun Dance Headdress. Blackfoot.

ceremonies is the so-called sun dance. The name as used in literature is probably derived from the Dakota who speak of one phase of the ceremony as sun-gaze-dancing: i. e., the worshiper gazes steadily at the sun while dancing. To a greater or less extent, this is one of the objective features of the ceremony wherever performed and is associated with a torture feature in which skewers are thrust through the skin of the breast and back and the devotee suspended or required to dance until the skin gives way, all the time supplicating the sun for divine guidance.

Another feature is that in the center of the ceremonial place is set up a tree, or sun pole, which is scouted for, counted coup upon, and felled, as if it were an enemy. Upon this, offerings of cloth are made to the sun. In the fork at the top is usually a bunch of twigs, in some cases called the nest of the thunder bird.

The time of the sun dance is in midsummer. It is usually initiated by the vow of a man or woman to make it as a sacrifice in return for some heeded prayer in time of great danger. The soldier societies, the women's society, and other organizations, generally take turns dancing at the sun pole after the above named rites have been concluded. The ceremony is decidedly a Plains characteristic. As a rule all who perform important functions in the sun dance are required to spend several days in fasting and other purification ceremonies.

The sun dance has been reported for all the tribes of this area except the Comanche, Omaha, Iowa, Kan-

sas, Missouri, Osage, Oto, Wichita, Bannock, and Nez Percé: that even some of these formerly practised it, is probable. Like soldier societies (p. 89), the sun dance presents several features variously combined and distributed. These are the torture, the circular shelter of poles, the use of a sacred bundle, the erection of a sun pole, and the dancing ceremonies. The form of shelter shown in the Arapaho model has been observed among the Arapaho, Gros Ventre, Kiowa, Cheyenne, Blackfoot, Sarsi, Plains-Cree, and Hidatsa. With the possible exception of the Plains-Cree all used a sacred bundle of some form. (For examples see the Blackfoot and Crow collections.) The Crow used a bundle containing an image, but a different form of shelter. The Assiniboine, Ponca, and Dakota used no bundles but a shelter of another type from that shown in the model. The torture, dancing, and the sun pole were common to all.

Among the Mandan we note an unusual form of sun dance, known as the Okipa, fully described by George Catlin who visited that tribe in 1832. (See sketches in the Catlin collection.)

Ghost Dance Ceremonies. Even within historic times, there have been several interesting religious developments among the Plains Indians. The most noted of these was the ghost dance. This was a religious ceremony founded upon the belief in the coming of a Messiah, which seems to have originated among the Paviotso Indians in Nevada (Plateau Area) about 1888 and which spread rapidly among the Indians of the

Plains. The prophet of the religion was a young Paiute Indian (Plateau Area) who claimed to have had a revelation while in a delirious condition caused by an attack of fever. The Teton-Dakota seem to have first heard of the new religion in 1889 and in a council held by Red-cloud, appointed a committee to visit the prophet and investigate. On this committee were Short-bull and Kicking-bear, who returned very enthusiastic converts and began preaching the new religion among the Dakota. The principal belief was that an Indian Messiah was about to appear to destroy the white race, and restore the buffalo with all former customs. As in all Indian ceremonies, dancing played a large part, but in this case the dancers usually fell into a hypnotic trance and upon recovering recounted their visions and supernatural experiences. All participants were provided with decorated cloth garments bearing symbolic designs which were believed to have such relation with the coming Messiah that all who wore them would be protected from all harm. Among white people these garments were generally known as "bullet proof shirts" (see Dakota collections).

The enthusiasm over the new ghost dance religion spread over the several Dakota Indian reservations, resulting in the attempted arrest and killing of the famous Sitting-bull by the Indian police and hostile demonstrations on the Pine Ridge Reservation, under the leadership of Short-bull and Kicking-bear. In consequence, United States troops were concentrated on the Pine Ridge Reservation under the command of

General Nelson A. Miles. The hostility of the Indians increased until December 29, 1890, when there was an engagement between Big-foot's band and the command of Colonel Forsyth on Wounded Knee Creek, in which thirty-one soldiers and one hundred twenty-eight Indians were killed. In a short time after this decisive engagement, practically all the Indians laid down their arms and abandoned the ghost dance religion. It is probable, however, that some of the ceremonies connected with the ghost dance religion are performed even to this day, since several of the leaders are still living.

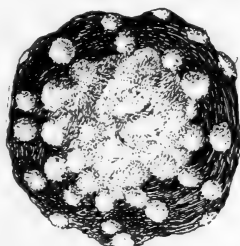


Fig. 39. Peyote Button.

Practically all of the typical tribes (p. 18) took up the new beliefs about the same time but no where else did the excitement lead to violence. Among the Cheyenne, Arapaho, and Gros Ventre, the ceremonies still exist in a modified form, apparently combined with the Omaha or grass dance (p. 116).

Peyote Worship. There are curious ceremonies connected with the eating or administering of the dried fruit of a small cactus (*Anhalonium* or *Laphophora*), native of the lower Rio Grande and Mexico. The name

“mescal” is wrongly applied to this fruit by many white observers. Long ago, these ceremonies seem to have been known to the Kiowa and Comanche of the Plains and widely distributed in the Southwest and Mexico. The rites begin in the evening and continue until the following dawn, and are restricted to men. There is a definite ritual, a small drum and rattle of special form being essential. Within the last few years, this worship has become general among the Arapaho, Cheyenne, Omaha, Dakota, and Kiowa and threatens to supplant all other native ceremonies. It is even found among the Winnebago, Sauk and Fox, and Menomini of the Woodlands. This diffusion in historic times, makes it one of the most suggestive phenomena for students of Indian life, since it affords an indisputable example of culture diffusion.

Dancing Associations. There are a number of semi-religious festivals or ceremonies in which a large number of individuals participate and which seem to have been handed on from one tribe to another. The best known example of this is the Omaha or Grass dance which has been reported for the Arapaho, Pawnee, Omaha, Dakota, Crow, Gros Ventre, Assiniboine, and Blackfoot. The various tribes agree in their belief that this dance, and its regalia originated with the Pawnee. The Dakota claim to have obtained it directly from the Pawnee about 1870. The Arapaho and Gros Ventre claim to have learned it from the Dakota. The Gros Ventre taught it to the Blackfoot about 1883. Though these statements of the Indians

are not to be taken as absolutely correct, they indicate that this dance is a modern innovation. Recently, the Blackfoot have carried the dance to the Flathead and Kootenai tribes to the west.

The meetings are held at night in large circular wooden buildings erected for that purpose. Some of the dancers wear large feather bustles, called crow belts, and peculiar roached headdresses of hair: A feast of dog's flesh is served at which many members formally give away property to the poor. They even go so far now and then, as to formally put away a wife as the greatest act of self-denial.

In the same class may be mentioned the kissing or hugging dance, sometimes called the Cree dance. This seems to have come from the north and resembles a form of dance once common among the half-breed Canadians. In the Plains, however, it has Indian songs and other undoubtedly native features. To this list may be added the tea dances, the horseback dances, etc.

Among these Indians each distinct ceremony or dance has its own peculiar set of songs to which additions are made from time to time.

War and Scalp Dances. The scalp or some other part of the foe was often carried home and given to the women of the family who made a feast and danced in public with songs and cheers for the victors. A party about to go to war would gather in the evening, sing, dance, and observe certain religious rites to ensure success. In all of these there seems to have been little that was distinctive or peculiar to the Plains.

CEREMONIAL PROCEDURE.

It is rather difficult to satisfactorily characterize the many detailed ceremonies of the Plains, but some points are clear. In most we find an inordinate amount of singing, often extending over an entire day and night, interspersed with prayers and the handling of sacred objects or bundles and occasional dancing. The sweat house is used for preliminary purification and incense is burned at intervals during the ceremony. The participants usually sit in a circle with a fire at the center. A man leads and has the entire direction of the ritual, other men and perhaps women assisting him. A kind of altar or earth painting is common. This is usually a small square of fresh earth between the leader and the fire upon which symbols are made by dropping dry paint, suggesting the sand painting of the Navajo, but otherwise highly individual in character. In the manipulation of ceremonial objects we often observe four movements, or three feints before anything is done. Again, many objects are not put down directly but moved around in a sunwise direction. All such manipulations are likely to be common to all ceremonies and therefore not distinctive or significant.

It is not far wrong to say that all these ceremonies are demonstrations of the ritual associated with some bundle or objects and represent the original visions or experiences in which the whole was handed down. The demonstration seems to be ordered on the theory that, as in the original revelation, the divine element will be

present in the objects and appurtenances thereto. The persons participating are rather passive. We have practically no attempts to impersonate and to act out in detail the parts played by supernatural beings. This is shown in the almost entire absence of masks and ceremonial costume. Thus, among the Indians of the North Pacific area, the Pueblos of the Southwest, and the Iroquois of the Woodlands, we find persons in ceremonies dressed and masked to represent the various gods or supernatural creatures and who act out parts of the ritual. Even among the Navajo and the Apache of the Southwest, these costumes play a conspicuous part. All this is rare in the strictly religious ceremonies of the Plains and brings out by contrast what is perhaps one of their most characteristic features.

Painting the face and body and the use of a pipe are also highly developed elements. In most cases, there is a distinct painting for each ceremony, again supposed to be according to the directions of the initial revelation. A lighted pipe is not only frequently passed during a ceremony but is also filled with ceremonial movements and offered with prayers to many or all of the recognized sources of the higher powers.

The only musical instruments used in these ceremonies are rattles, drums, and whistles.

CHAPTER IV.

DECORATIVE AND RELIGIOUS ART.

THE Plains Indians have a well-developed decorative art in which simple geometric designs are the elements of composition. This art is primarily the work of

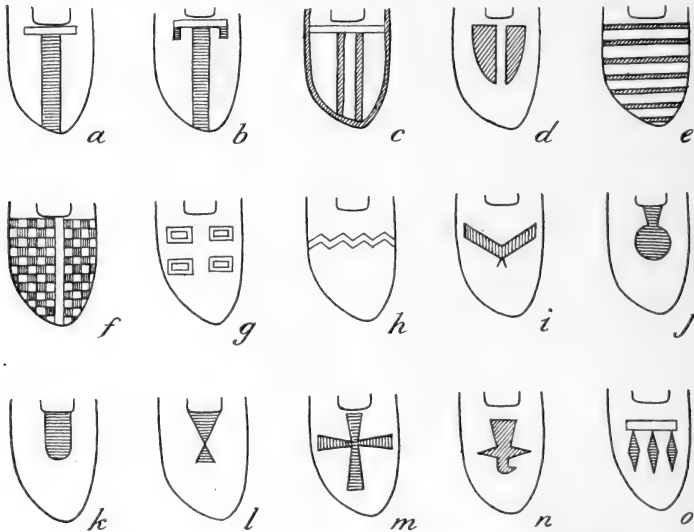


Fig. 40. Types of Designs on Moccasins. (Kroeber).

women. Clothing and other useful articles, made of skins, were rendered attractive by designs in beads and

quills. Rawhide bags and parfleche (p. 62-4) were treated with a peculiar type of painting in many colors. Realistic art was practised chiefly by men in the recording of war deeds (p. 94) and reached a high degree of excellence among the Dakota and Mandan. The technical aspect of bead and quill work of the Plains is quite peculiar. Formerly, there was little or none of the woven work so common in the Eastern Woodlands and the forests of Canada, the method here being to

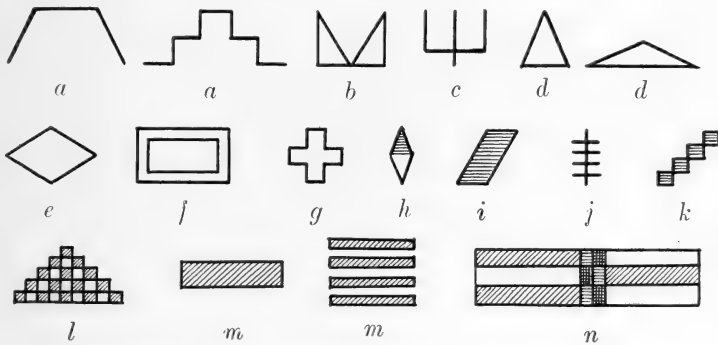


Fig. 41. Design Elements, Bead and Quill Embroidery. (Kroeber.)

lay the quills on the surface of skins in large geometric areas. The beads now in use were introduced by traders and have almost displaced the original art of porcupine quill embroidery.

The most numerous decorated objects in collections are moccasins which therefore offer an extensive design series. Though often examples of each design may be found upon the moccasins in a single tribe, the tendencies are always toward a few tribal types. Thus,

the Arapaho predominate in longitudinal stripes (Fig. 40, a-d), the Dakota in definite figures (f, g, m, n, o), the Blackfoot in U-shaped figures (k), etc. Additional designs will be found upon leggings, bags, and pouches. All these designs may be resolved into simple geometrical elements or patterns (Fig. 41). Here also, tribal preferences are to be found. The rawhide paintings are also geometric and though the designs first appear quite complex, they can readily be resolved into triangles and rectangles. Another

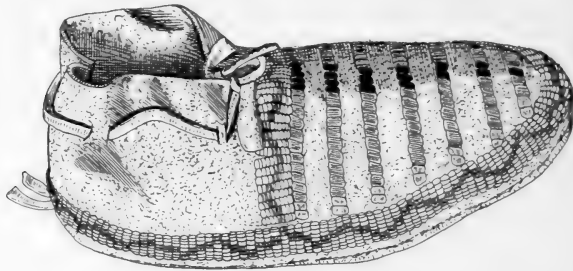


Fig. 42. Arapaho Moccasin with Symbolic Decorations.

point of special interest is that some tribes give these conventionalized designs a symbolic value. This is particularly true of the Arapaho.

Thus Fig. 42 shows a moccasin which is beaded around the edges, but has its front surface traversed by a number of quilled lines. The white beadwork represents the ground. Green zigzag lines upon it are snakes. The quilled lines represent sweat house poles. These lines are red, blue, and yellow, and the colors represent stones of different colors, used for producing

steam in the sweat house. At the heel of the moccasin, which is not shown in the figure, are two small green squares. These represent the blankets with which the sweat house is covered.

The design of a snake was embroidered on this moccasin in order that the child wearing it might not be bitten by snakes. The symbols referring to the sweat house were embroidered on the moccasin in order that the child might grow to the age at which the sweat house is principally used; namely, old age.

The Dakota also have interpretations for their designs but seemingly to a less degree than the Arapaho. Among other tribes, occasional cases of symbolism have been reported. In the Museum collections is a pair of moccasins from the Plains-Ojibway bearing Plains designs and accompanied by a definite symbolic interpretation. All this suggests that there must have one time been a marked undercurrent of symbolism in the art of the Plains.

It was once assumed that when you found in the art of any people a geometric design, said to stand for a definite plant or animal form, the realistic drawing was the original form from which it was derived by a process of conventionalization. When we attempt to apply this principle to the art of the Dakota and the Arapaho, for instance, we find in some cases the same geometrical figure used by both tribes but to symbolize entirely different objects. We are, therefore, forced to assume that there is no necessary connection between the life history of a decorative design and the

object it symbolizes. Plains art clearly shows that often along with a style of design, goes also a style or mode of interpretation. Since this interpretation is a reading-in on the part of those having such a mode, any vague resemblance will suffice.

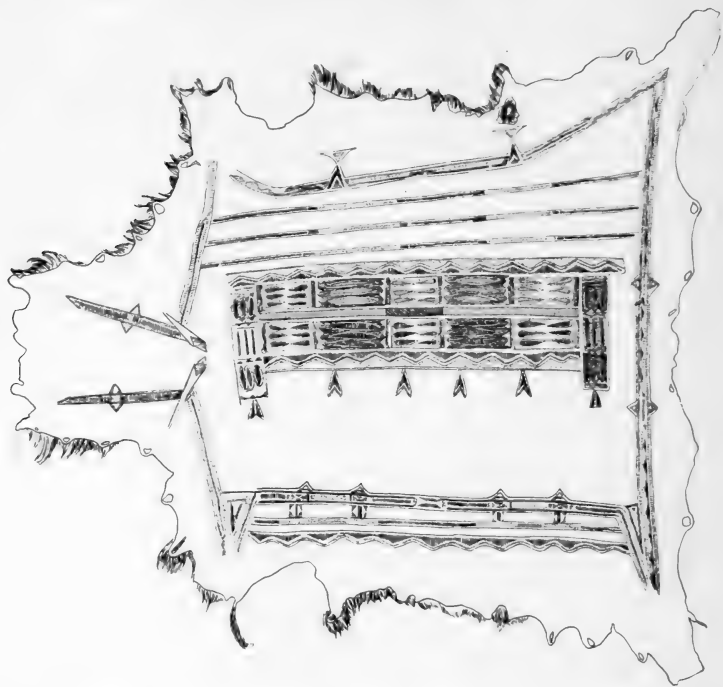


Fig. 43. Painted Designs on a Woman's Robe. Dakota.

This is nicely illustrated in the curious U-shaped figure upon the beaded yokes of many woman's dresses. Some Teton-Dakota women once said this had always been known to them as representing a turtle's head and legs as he emerged from the lake (the beaded yoke).

Yet, somewhat similar figures occur on the dresses of other tribes from whom no such symbolism has been reported. This might be explained as brought about by the other tribes borrowing the pattern from the Teton; but when many of these garments are examined, we observe that often the U-shaped turn is made to carry the beaded border around the hairy tail of the deer left, or sewed, upon the skin from which the garment was made. The tail tuft naturally falls just below the yoke because the dresses are fashioned by joining the tail ends of two skins by a yoke, or neck piece. Hence, it seems more probable that the pattern was developed as a mere matter of technique and that later on the Teton read into it the symbolism of the turtle, because of some fancied resemblance to that animal and because of some special appropriateness.

The preceding remarks apply exclusively to objects in which the motive was chiefly decorative. There was another kind of art in which the motive was mainly religious, as the paintings upon the Blackfoot tipi, the figures upon the ghost dance shirts of the Dakota, etc., Such drawings, as with heraldry devices (p. 94) were almost exclusively the work of men. Another suggestive point is that this more serious art tends to be realistic in contrast to the highly geometric form of decorative art.

In general, an objective study of this art suggests that the realistic, decorative and other art seem to have been greatly developed on the northeastern border of the area, while the geometric was most accentuated

on the southwestern. Thus on the northeast beyond the limit of our area the Ojibway especially possessed a highly developed pictographic type of art while the Ute (Shoshone) of the extreme southwest of the area seem to have practised no such pictographic art but presented in contrast a highly developed geometric type both in embroidery and rawhide painting. Taking the Arapaho and Teton-Dakota as two intermediate groups, we find the former inclining to the geometric art of their Shoshonean neighbors, while the latter show almost equal proficiency in the two contrasting types. Thus, we seem to have two influences from opposite directions, reinforcing the common suggestion that the geometric art of this area was introduced from the southwestern part of the continent.



Fig. 44. Blanket Band in Quills. Blackfoot.

CHAPTER V.

LANGUAGE.

As stated at the outset, it is customary to classify peoples according to their languages. The main groups are what are called stock languages, or families. Under such heads are placed all languages that seem to have had a common origin regardless of whether they are mutually intelligible or not. Thus English and German are distinct forms of speech, yet they are considered as belonging to the same stock, or family. In North America, there are more than fifty such families, of which seven have representatives in the plains. Only one, however, the Kiowa, is entirely confined to the area, though the Siouan and Caddoan are chiefly found within its bounds. The others (Algonkin, Shoshonean, Athapascan, and Shahaptian) have much larger representation elsewhere, which naturally leads us to infer that they must have migrated into the Plains. Though this is quite probable, it cannot be proven from the data at hand, except possibly for the Algonkin-speaking Plains-Cree, Plains-Ojibway, and Cheyenne, of whose recent movement out into the Plains, we have historic evidence. These tribes are of special interest to students, since in a comparatively short period of time, they put away most of their native culture and took on that of their neighbors in the Plains.

INDIANS OF THE PLAINS, ACCORDING TO LANGUAGE.

Siouan Language.

Assiniboine	Mandan
Crow	Missouri
Dakota	Omaha
Hidatsa	Osage
Iowa	Oto
Kansas	Ponca

Algonkin Language.

Arapaho	Gros Ventre
Blackfoot	Plains-Cree
Cheyenne	Plains-Ojibway

Caddoan Language.

Arikara	Pawnee
Wichita	

Kiowan Language.

Kiowa

Shoshonean Language.

Bannock	Northern Shoshone
Comanche	Ute
Wind River Shoshone.	

Athapascan Language.

Kiowa-Apache	Sarsi
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Shahaptian Language.

Nez Percé

The Athapascan-speaking Kiowa-Apache and Sarsi are also worthy of notice because the family to which they belong has representatives in five of the eight great culture areas into which North American cultures are localized, affording us the unique example of five distinct cultures with languages of the same family, or stock.

Returning to our classification of Plains tribes under linguistic families, it may be well to note that while it is absolutely true that these families have nothing in common, the differences between the various tribes under the same stock are by no means equal. Thus while a Dakota and an Assiniboine can make themselves partially understood, Dakota and Crow are so different that only philologists are able to discover them to be of the same family. On the other hand, a Crow and a Hidatsa could get on fairly well in ordinary conversation. Again, in the Algonkin group, the Arapaho and Gros Ventre are conscious of having related languages, while the Blackfoot lived on neighborly terms with the latter for many years as did the Cheyenne with the Arapaho, not once, so far as we know, discovering any definite relation between their languages. It is well to remember, therefore, that the term linguistic stock does not denote the language or speech of a particular tribe, but is a designation of the philologists to define observed relationships in structure and form, and that the speech of these Indians differs in varying degree as one passes from one group to the other. Thus, the seven tribes of the Dakota form at

least three dialectic groups: the Santee say Dakota and the Teton, Lakota, one always using *d* for the other's *l*; the Santee *hda* (go home), the Teton, *gla* and the Yankton *kda*. Even within the different communities of the Teton small differences are said to exist. Hence, the differences in speech are after all gradations of variable magnitude from the study of which philologists are able to discover relationship and descent, all believed to have originated from one now extinct mother tongue being classed under one family, or stock name. In short, there are no language characters peculiar to the Plains tribes, as is the case with other cultural characters.

The foregoing remarks apply entirely to oral language. We must not overlook the extensive use of a sign language which seems to have served all the purposes of an international or inter-tribal language. The signs were made with the hands and fingers, but were not in any sense the spelling out of a spoken language. The language was based upon ideas alone. Had it been otherwise, it could not have been understood outside of the tribe. Though some traces of such a language have been met with outside of the Plains, it is only within the area that we find a system so well developed that inter-tribal visitors could be entertained with sign-talk on all subjects. The Crow, Kiowa, Arapaho, Cheyenne, and Blackfoot are generally regarded as having been most proficient and the Omaha, Osage, Kansas and Ute, as least skillful in its use. It may not be amiss to add that in most tribes could be

found individuals priding themselves in speaking one or more languages. In former times, many Nez Percé, Blackfoot, Gros Ventre, Dakota, and Mandan are said to have known some of the Crow language which was in consequence often used by traders. This, if true, was no doubt due to the peculiar geographical position of the Crow. The sign language, however, could be used among all tribes familiar with it and must, therefore, be considered one of the striking peculiar traits of the Plains and an important factor in the diffusion of culture.



CROW.



TETON-DAKOTA.



CHEYENNE.



PAWNEE.



WIND RIVER SHOSHONE.
(Bureau Ethnology Photo.)



BLACKFOOT.
(Blood Tribe.)

CHAPTER VI.

PHYSICAL TYPE.

No careful study of the physical types for the Plains has been made. Our general impression of the tribal appearance is largely influenced by hair dress, costume, and posture, and it is difficult to disassociate these externals from somatic features. Yet, a brief scrutiny of casts of faces or photographs usually reveals tribal resemblances like those we see in families among ourselves. As the Indians of the Plains are but a subdivision of the same race this is about the only difference that should be expected. The color tone of the skin (a reddish chocolate) seems about the same throughout the area, though perhaps lighter with occasional leanings toward the yellow among some Blackfoot of the north; yet to be exact, no color studies worthy of the name have been made. The hair is, like that of all Indians, uniformly black and straight. As to stature, they appear rather tall. The following average measurements have been reported.

	Millimeters	Inches.
Cheyenne	1745	68.7
Crow	1732	68.1
Arapaho	1728	68.03

	Millimeters	Inches.
Dakota	1726	67.09
Plains-Ojibway	1723	67.8
Blackfoot	1715	67.5
Kiowa	1709	67.2
Comanche	1678	66.06

These are from the typical nomadic group of tribes as previously defined and with the exception of the Comanche are quite tall. As the figures above are averages, we must expect among the Cheyenne some very tall individuals. (Twenty per cent of those measured, exceeded 1820 mm.)

On the west, the statures are less:

	Millimeters	Inches
Nez Percé	1697	66.8
Ute	1661	65.4

Among the village group we note:

	Millimeters	Inches
Omaha	1732	68.1
Pawnee	1713	67.4
Arikara	1690	66.5

again a tendency toward tall statures.

Looking at the faces of the various tribes, some general differences appear. Those of the Blackfoot, Plains-Cree, and Assiniboine seem rather rounded and delicate while those of the Dakota are longer and clear cut with strong lines, an eagle nose and more prominent cheek bones. The Pawnee again have large heavy or

massive faces. On none of these points, however, have investigations been made and it is an open question whether anything would be accomplished thereby other than the definition of minute differences. In historical times, at least, there was a great deal of intermarriage and visiting between these tribes which must have tended to level down somatic differences and which makes the successful determination of genetic relationship quite improbable. As to head form, we find an index of about 80 for the Ute, Cree, Dakota, Blackfoot, Cheyenne, Arapaho, Pawnee, and a considerably higher value for the Comanche, Osage, Omaha, Wichita, and Kiowa.

The children of the Oglala division of the Teton-Dakota have been measured from year to year by Dr. J. R. Walker and a comparison of their averages and rates of growth made with white children. In general, there seemed to be no important differences, though the Oglala children were uniformly taller than white children as measured.

On the whole, it cannot be said that the Indians of this culture area are anatomically distinct from those occupying some other parts of the continent. A map showing the distribution of physical types in North America would bear little resemblance either to the linguistic or cultural map. On the other hand, there seems to be a tendency toward uniformity throughout the Plains but due more to the fact that these tribes are for the most part a portion of a much larger somatic group.

CHAPTER VII.

ORIGINS.

THIS brief sketch of the anthropology of the Plains naturally raises a few quite fundamental questions: How did these tribes come to be here? How long have they been here? What was the origin of their cultures? While no satisfactory answers can be given for these, some progress toward their solution has been made. We have seen that no definite correlation seems to exist between language, culture, and physical type, since the distribution maps for each have little in common. Taking the cultural classification as our point of view, we see that Plains Indians are not peculiar in stature or head form, but seem to fall into two unequal groups with many representatives in other parts of the continent. The shorter western tribes ranging from 165 to 170 cm. fall into a large group of low statures including most of the Californian, Plateau, North Pacific Coast, and Southeastern Areas. The Comanche who speak a language of Shoshonean stock widely distributed over the Plateau area are also relatively short. The greater part of the typical and village tribes, however, range from 170 to 175 cm.,

including the Yuma, Mohave, and Pima of the Southwest, the Iroquois and most Algonkin of the Woodland Area. As to head form, the moderately long head of the Plains does not hold for the Osage and Wichita of the south and the Nez Percé of the northwest, but extends over into the Plateau area on the west and into the Woodland area of the east. Hence, in a general way, the tall, somewhat long-headed tribes seem to extend eastward into the Woodlands through Indiana, Ohio, and New York. Possibly this represents the influence of some older parent group whose blood gradually worked its way along through many languages and several varieties of culture. On the other hand, the shorter, less long-headed tribes were massed around the Plains in the Southwest, the Plateaus, and part of the Woodlands almost engulfing the taller group. Now, while it seems clear that migrations of blood are in evidence, there is, as yet, no satisfactory means of determining the point of origin and the direction of movement for these types. Turning from physical type to language, we have several large masses impinging upon the Plains and while it seems most likely that the parent speech for each stock arose somewhere outside the Plains, we are not yet clear as to the impossibility of their arising in the Plains and spreading to other cultures. It does not seem probable that all of them would arise within this small area, but, on the other hand, it is impossible to give satisfactory proof for any particular tribe. Thus, language gives us but a presumption in favor of migrations into the

Plains of the Siouan, Caddoan, and Shoshonean speaking tribes. It is true that many tribes have migration legends some of which are consistent with a few details of culture; but as these nearly always take the forms of other myths, they cannot be given much historical weight. The plain fact is that the moment we get beyond the period of exploration in the Plains, historical data fail us. We know where the tribes were when discovered and most of their movements since that date, but beyond that we must proceed by inference and the interpretation of anthropological data.

Not being able to discover how the various tribes came to be in the Plains, we can scarcely expect to tell how long they have been there. The archaeological method may be brought into play here; but as yet we lack data. Mounds and earthworks have been discovered in the Dakotas and southward along the Missouri, apparently the fringe of the great mound area in the Woodlands to the east. In the open Plains, we have so far neither evidence of long occupation nor of states of culture differing from those we have just described. This is, however, by no means a final statement of the case for future archaeological research will doubtless clear up this point.

Turning back to culture, we find that so many of the traits enumerated in these pages are almost entirely peculiar to the area that we are constrained to conclude that they developed within it. This is strengthened by the peculiar adaptation of many of these traits to the geographical conditions, suggesting that they were invented or discovered by a Plains people. It seems,

therefore, that while the origin of the blood and languages of the Plains cannot be determined, its cultural problem is in a fair way to be solved. Among the most distinctive traits are the sun dance, a camp circle band system, the soldier societies, highly developed ritualistic bundles, a peculiar geometric decorative art, the use of the horse and travois, the skin-covered tipi, the earth lodge, and economic dependence upon the buffalo. Some of these are absolutely confined to the area and though others are found elsewhere they occur as secondary rather than as primary traits. We may safely conclude, therefore, that the tribes of the Plains at least developed these traits to their present form, if they did not actually invent them.

Perhaps the most interesting phase of Plains anthropology is the general diffusion of traits among the many political and linguistic units found therein. Miss Semple favors the theory that a Plains region is the most favorable environment for the diffusion of cultural traits. Whatever may be the fate of this hypothesis, it is clear that among the Indians of the Plains there has been sufficient diffusion to carry many traits over the greater part of the area. That diffusion rather than independent development or convergent evolution is the most satisfactory explanation of this case, may be seen from noting that the various tribes were acquainted with many of their neighbors, that in the sign language they had a ready means of intercommunication and that since their discovery the actual diffusion of several traits has been observed by anthropologists.



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