



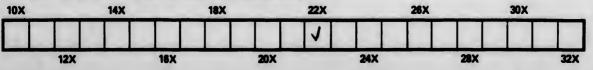
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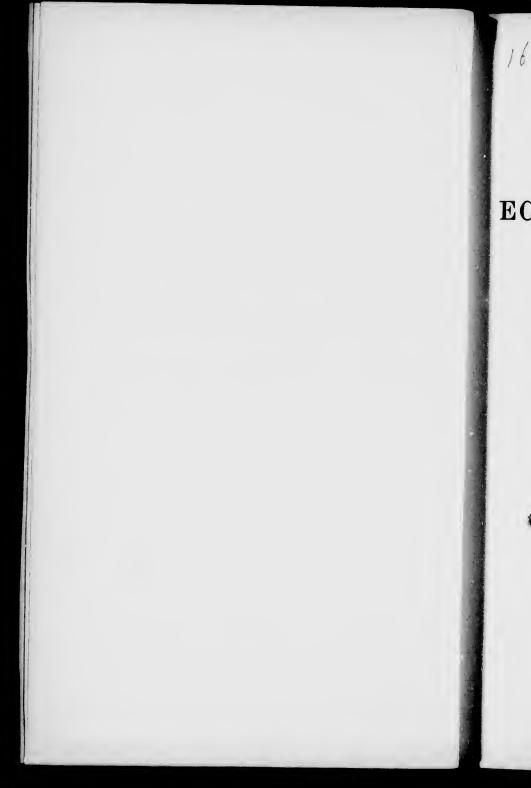
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ILLUSTRATING

ECONOMIC HISTORY

SINCE THE SEVEN YEARS' WAR.

COMPILED BY

BENJAMIN RAND, PII. D., ASSISTANT IN PHILOSOPHY, HARVARD UNIVERSITY.

Third Edition,

WITH A BIBLIOGRAPHY OF ECONOMICS.

CAMBRIDGE: JOHN WILSON AND SON. University Press. 1895. HC51 R35 1895

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PREFATORY NOTE

TO THE SECOND EDITION.

THE first edition of these selections was published as a text-book of required reading to accompany a course of lectures on economic history given at Harvard College. It was also adopted for a similar purpose by other American Universities. A continued demand for the work has led to the preparation of the present revised and enlarged edition. The design of the book has been to exhibit in a series of articles of permanent value different phases of economic thought, and to present in chronological order a narrative of some of the more important events and influences of modern economic history.

In this edition one chapter contained in the former edition has been omitted and five new selections have been introduced. Appendices have also been added as the most convenient form in which to place laws, purely statistical material, and

FREFATORY NOTE.

very recent economical data. A bibliography has likewise been inserted, which it is hoped may be of service in the formation of special libraries of economic history. The present edition moreover contains an index.

The names of publishers, to whose courtesy is due the permission to reprint a number of the selections, will be found at the beginning of the respective chapters.

B. R.

CAMBRIDGE, December, 1891.

PREFATORY NOTE TO THE THIRD EDITION.

The second edition of this work contained a brief bibliography of Economic History. In the present edition will be found a Select Bibliography of Economics, embracing the more important English, French, German and Italian authorities in general economic literature.

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CAMBRIDGE, March, 1895.

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I.

THE COLONIAL POLICY OF EUROPE.

FROM ADAM SMITH'S WEALTH OF NATIONS, BOOK IV., CH. VII., PART II.

THE colony of a civilized nation which takes possession either of a waste country or of one so thinly inhabited that the natives easily give place to the new settlers, advances more rapidly to wealth and greatness than any other human society.

The colonists carry out with them a knowledge of agriculture and of other useful arts, superior to what can grow up of its own accord in the course of many centuries among savage and barbarous nations. They carry out with them, too, the habit of subordination, some notion of the regular government which takes place in their own country, of the system of laws which supports it, and of a regular administration of justice; and they naturally establish something of the same kind in the new settlement. But among savage and barbarous nations the natural progress of law and goverument is still slower than the natural progress of arts. after law and government have been so far established as is necessary for their protection. Every colonist gets more land than he can possibly cultivate. He has no rent, and scarce any taxes to pay. No landlord shares with him in its produce, and the share of the sovereign is commonly but a trifle. He has every motive to render as great as possible a produce which is thus to be almost entirely his own. But

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his land is commonly so extensive that with all his own industry, and with all the industry of other people whom he can get to employ, he can seldom make it produce the tenth part of what it is capable of producing. He is eager, therefore, to collect laborers from all quarters, and to reward them with the most liberal wages. But those liberal wages. joined to the plenty and cheapness of land, soon make those laborers leave him, in order to become landlords themselves. and to reward, with equal liberality, other laborers, who soon leave them for the same reason that they left their first The liberal reward of labor encourages marriage. master. The children, during the tender years of infancy, are well fed and properly taken care of, and when they are grown up the value of their labor greatly overpays their maintenance. When arrived at maturity the high price of labor and the low price of land enable them to establish themselves in the same manner as their fathers did before them.

In other countries rent and profit eat up wages, and the two superior orders of people oppress the inferior one. But in new colonies the interest of the two superior orders obliges them to treat the inferior one with more generosity and humanity; at least, where that inferior one is not in a state of slavery. Waste lands, of the greatest natural fertility, are to be had for a trifle. The increase of revenue which the proprietor, who is always the undertaker, expects from their improvement, constitutes his profit; which in these circumstances is commonly very great. But this great profit cannot be made without employing the labor of other people in clearing and cultivating the land; and the disproportion between the great extent of the land and the small number of the people, which commonly takes place in new colonics, makes it difficult for him to get this labor. He does not. therefore, dispute about wages, but is willing to employ labor at any price. The high wages of labor encourage population. The cheapness and plenty of good land encourage improvement, and enable the proprietor to pay those high wages. In those wages consists almost the whole price of the land; and though they are high, considered as the

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toward been v of then their n Tarent Asia, a any of their es phy, po early, a any par est Gree establis one in a colonies by savag the new were alt at libert judged w The h

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wages of labor, they are low, considered as the price of what is so very valuable. What encourages the progress of population and improvement encourages that of real wealth and greatness.

The progress of many of the ancient Greek colonies towards wealth and greatness seems accordingly to have been very rapid. In the course of a century or two several of them appear to have rivalled, and even to have surpassed, their mother cities. Syracuse and Agrigentum in Sicily, Tarentum and Loeri in Italy, Ephesus and Miletus in Lesser Asia, appear by all accounts to have been at least equal to any of the cities of ancient Greece. Though posterior in their establishment, yet all the arts of refinement, philosophy, poetry, and eloquence, seem to have been cultivated as early, and to have been improved as highly in them as in any part of the mother country. The schools of the two oldest Greek philosophers, those of Thales and Pythagoras, were established, it is remarkable, not in aneient Greece, but the one in an Asiatic, the other in an Italian colony. All those colonies had established themselves in countries inhabited by savage and barbarous nations, who easily gave place to the new settlers. They had plenty of good land, and as they were altogether independent of the mother city, they were at liberty to manage their own affairs in the way that they judged was most suitable to their own interest.

The history of the Roman colonies is by no means so brilliant. Some of them, indeed, such as Florence, have in the course of many ages, and after the fall of the mother city, grown up to be considerable States. But the progress of no one of them seems ever to have been very rapid. They were all established in conquered provinces, which in most cases had been fully inhabited before. The quantity of land assigned to each colonist was seldom very considerable, and, as the colony was not independent, they were not always at liberty to manage their own affairs in the way that they judged was most suitable to their own interest.

In the plenty of good land the European colonies established in America and the West Indies resemble, and even

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greatly surpass, those of ancient Greece. In their dependency upon the mother State they resemble those of ancient Rome; but their great distance from Europe has in all of them alleviated more or less the effects of this dependency. Their situation has placed them less in the view and less in the power of their mother country. In pursuing their interest their own way, their conduct has, upon many occasions, been overlooked, either because not known or not understood in Europe; and upon some occasions it has been fairly suffered and submitted to, because their distance rendered it difficult to restrain it. Even the violent and arbitrary government of Spain has, upon many occasions, been obliged to recall or soften the orders which had been given for the government of her colonies, for fear of a general insurrection. The progress of all the European colonies in wealth, population, and improvement, has accordingly been very great.

The crown of Spain, by its share of the gold and silver, derived some revenue from its colonies from the moment of their first establishment. It was a revenue, too, of a nature to excite in human avidity the most extravagant expectations The Spanish colonies, therefore, of still greater riches. from the moment of their first establishment, attracted very much the attention of their mother country; while those of the other European nations were for a long time in a great measure neglected. The former did not, perhaps, thrive the better in consequence of this attention, nor the latter the worse in consequence of this neglect. In proportion to the extent of the country which they in some measure possess, the Spanish colonies are considered as less populous and thriving than those of almost any other European nation. The progress even of the Spanish colonies, however, in population and improvement, has certainly been very rapid and very great. The city of Lima, founded since the conquest, is represented in Ulloa as containing fifty thousand inhabitants near thirty years ago. Quito, which had been but a miserable hamlet of Indians, is represented by the same author as in his time equally populous. Gemelli Carreri, a pretended traveller, it is said, indeed, but who seems every-

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where to have written upon extreme good information, represents the city of Mexico as containing a hundred thousand inhabitants, - a number which, in spite of all the exaggerations of the Spanish writers, is probably more than five times greater than what it contained in the time of Monte-These numbers exceed greatly those of Boston, New zuma. York, and Philadelphia, the three greatest cities of the English colonies. Before the conquest of the Spaniards there were no cattle fit for draught either in Mexico or Peru. The lama was their only beast of burden, and its strength seems to have been a good deal inferior to that of a common The plough was unknown among them. They were ass. ignorant of the use of iron. They had no coined money, nor any established instrument of commerce of any kind. Their commerce was carried on by barter. A sort of wooden spade was their principal instrument of agriculture. Sharp stones served them for knives and hatchets to cut with; fish-bones and the hard sinews of certain animals served them for needles to sew with; and these seem to have been their principal instruments of trade. In this state of things, it seems impossible, that either of those empires could have been so much improved or so well cultivated as at present, when they are plentifully furnished with all sorts of European cattle, and when the use of iron, of the plough, and of many of the arts of Europe, has been introduced among them. But the populousness of every country must be in proportion to the degree of its improvement and cultivation. In spite of the cruel destruction of the natives which followed the conquest, these two great empires are, probably, more populous now than they ever were before: and the people are surely very different; for we must acknowledge, I apprehend, that the Spanish creoles are in many respects superior to the ancient Indians.

After the settlements of the Spaniards, that of the Portuguese in Brazil is the oldest of any European nation in America. But as for a long time after the first discovery neither gold nor silver mines were found in it, and as it afforded upon that account little or no revenue to the crown, it was

for a long time in a great measure neglected; and during this state of neglect it grew up to be a great and powerful While Portugal was under the dominion of Spain, colony. Brazil was attacked by the Dutch, who got possession of seven of the fourteen provinces into which it is divided. They expected soon to conquer the other seven, when Portugal recovered its independency by the elevation of the family of Braganza to the throne. The Dutch then, as enemies to the Spaniards, became friends to the Portuguese, who were likewise the enemies of the Spaniards. They agreed, therefore, to leave that part of Brazil which they had not conquered to the king of Portugal, who agreed to leave that part which they had conquered to them, as a matter not worth disputing about with such good allies. But the Dutch government soon began to oppress the Portuguese colonists, who, instead of amusing themselves with complaints, took arms against their new masters, and by their own valor and resolution, with the connivance indeed, but without any avowed assistance from the mother country, drove them out of Brazil. The Dutch, therefore, finding it impossible to keep any part of the country to themselves, were contented that it should be entirely restored to the crown of Portugal. In this colony there are said to be more than six hundred thousand people, either Portuguese or descended from Portuguese, creoles, mulattoes, and a mixed race between Portuguese and Brazilians. No one colony in America is supposed to contain so great a number of people of European extraction.

Towards the end of the fifteenth, and during the greater part of the sixteenth century, Spain and Portugal were the two great naval powers upon the ocean; for though the commerce of Venice extended to every part of Europe, its fleets had scarce ever sailed beyond the Mediterranean. The Spaniards, in virtue of the first discovery, claimed all America as their own; and though they could not hinder so great a naval power as that of Portugal from settling in Brazil, such was at that time the terror of their name that the greater part of the other nations of Europe were afraid to establish themselves in any other part of that great continent. The French dered by power o miscarri which h put it o ments of seventeer Danes, a upon the new wor

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The Dut East Indies exclusive of fore, thoug that of alm French who attempted to settle in Florida were all murdered by the Spaniards. But the declension of the naval power of this latter nation, in consequence of the defeat or misearriage of what they called their Invincible Armada, which happened towards the end of the sixteenth century, put it out of their power to obstruct any longer the settlements of the other European nations. In the course of the seventeenth century, therefore, the English, French, Dutch, Danes, and Swedes, all the great nations who had any ports upon the ocean, attempted to make some settlements in the new world.

The Swedes established themselves in New Jersey; and the number of Swedish families still to be found there sufficiently demonstrates that this colony was very likely to prosper had it been protected by the mother country. But being neglected by Sweden it was soon swallowed up by the Dutch colony of New York, which again, in 1674, fell under the dominion of the English.

The small islands of St. Thomas and Santa Cruz are the only countries in the new world that have ever been possessed by the Danes. These little settlements too were under the government of an exclusive company, which had the sole right both of purchasing the surplus produce of the colonists and of supplying them with such goods of other countries as they wanted, and which, therefore, both in its purchases and sales, had not only the power of oppressing them, but the greatest temptation to do so. The government of an exclusive company of merchants is, perhaps, the worst of all governments for any country whatever. It was not, however, able to stop altogether the progress of these colonies, though it rendered it more slow and languid. The late king of Denmark dissolved this company, and since that time the prosperity of these colonies has been very great.

The Dutch settlements in the West, as well as those in the East Indies, were originally put under the government of an exclusive company. The progress of some of them, therefore, though it has been considerable, in comparison with that of almost any country that has been long peopled and

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established, has been languid and slow in comparison with that of the greater part of new colonies. The colony of Surinam, though very considerable, is still inferior to the greater part of the sugar colonies of the other European nations. The colony of Nova Belgia, now divided into the two provinces of New York and New Jersey, would probably have soon become considerable too, even though it had remained under the government of the Dutch. The plenty and cheapness of good land are such powerful causes of prosperity that the very worst government is scarce capable of checking altogether the efficacy of their operation. The great distance too from the mother country would enable the colonists to evade more or less, by smuggling, the monopoly which the company enjoyed against them. At present the company allows all Dutch ships to trade to Surinam upon paying two and a half per cent upon the value of their cargo for a license; and only reserves to itself exclusively the direct trade from Africa to America, which consists almost entirely in the slave trade. This relaxation in the exclusive privileges of the company is probably the principal cause of that degree of prosperity which that colony at present en joys. Curaçoa and Eustatia, the two principal islands belonging to the Dutch, are free ports open to the ships of all nations; and this freedom, in the midst of better colonies whose ports are open to those of one nation only, has been the great cause of the prosperity of those two barren islands.

The French colony of Canada was, during the greater part of the last century, and some part of the present, under the government of an exclusive company. Under so unfavorable an administration its progress was necessarily very slow in comparison with that of other new colonies; but it became much more rapid when this company was dissolved after the fall of what is called the Mississippi scheme. When the English got possession of this country they found in it near double the number of inhabitants which Father Charlevoix had assigned to it between twenty and thirty years before. That Jesuit had travelled over the whole country, and had

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no inclination to represent it as less considerable than it really was.

The French colony of St. Domingo was established by pirates and freebooters, who for a long time neither required the protection nor acknowledged the authority of France; and when that race of banditti became so far citizens as to acknowledge this authority, it was for a long time necessary to exercise it with very great gentleness. During this period the population and improvement of this colony Even the oppression of the exclusive increased very fast. company, to which it was for some time subjected, with all the other colonies of France, though it no doubt retarded, had not been able to stop its progress altogether. The course of its prosperity returned as soon as it was relieved from that oppression. It is now the most important of the sugar colonies of the West Indies, and its produce is said to be greater than that of all the English sugar colonies put together. The other sugar colonies of France are in general all very thriving.

But there are no colonies of which the progress has been more rapid than that of the English in North America.

Plenty of good land and liberty to manage their own affairs their own way, seem to be the two great causes of the prosperity of all new colonies.

In the plenty of good land, the English colonies of North America, though no doubt very abundantly provided, are, however, inferior to those of the Spaniards and Portuguese, and not superior to some of those possessed by the French before the late war. But the political institutions of the English colonies have been more favorable to the improvement and cultivation of this land than those of any of the other three nations.

First, the engrossing of uncultivated land, though it has by no means been prevented altogether, has been more restrained in the English colonies than in any other. The colony law which imposes upon every proprietor the obligation of improving and cultivating, within a limited time, a certain proportion of his lands, and which, in case of failure,

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declares those neglected lands grantable to any other person, though it has not, perhaps, been very strictly executed, has, however, had some effect.

Secondly, in Pennsylvania there is no right of primogeniture, and lands, like movables, are divided equally among all the children of the family. In three of the provinces of New England the oldest has only a double share, as in the Mosaical law. Though in those provinces, therefore, too great a quantity of land should sometimes be engrossed by a particular individual, it is likely, in the course of a generation or two, to be sufficiently divided again. In the other English colonics, indeed, the right of primogeniture takes place, as in the law of England. But in all the English colonics the tenure of the lands, which are all held by free socage, facilitates alienation, and the grantee of any extensive tract of land generally finds it for his interest to alien. ate, as fast as he can, the greater part of it, reserving only a small quit-rent. In the Spanish and Portuguese colonies. what is called the right of Majorazzo¹ takes place in the succession of all those great estates to which any title of honor is annexed. Such estates go all to one person, and are in effect entailed and unalienable. The French colonies, indeed, are subject to the custom of Paris, which, in the inheritance of land, is much more favorable to the younger children than the law of England. But, in the French colonies, if any part of an estate held by the noble tenure of chivalry and homage is alienated, it is for a limited time subject to the right of redemption, either by the heir of the superior or by the heir of the family; and all the largest estates of the country are held by such noble tenures, which necessarily embarrass alienation. But in a new colony a great uncultivated estate is likely to be much more speedily divided by alienation than by succession. The plenty and cheapness of good land, it has already been observed, are the principal causes of the rapid prosperity of new colonics. The engrossing of land, in effect, destroys this plenty and cheapness. The engrossing of uncultivated land, besides, is

¹ Jus Majoratus.

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Thirdly likely to consequen portion of may store quantity o contribute try, or toy themselves most entire expense of than the n pense of tl moderate. sary for pa judges, and taining a fo of the civil commencem about £18, Island, £3, New York Jersey, £1,5 each. The are partly But Nova S wards the pu

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Thirdly, the labor of the English colonists is not only likely to afford a greater and more valuable produce, but, in consequence of the moderation of their taxes, a greater proportion of this produce belongs to themselves, which they may store up and employ in putting into motion a still greater quantity of labor. The English colonists have never yet contributed anything towards the defence of the mother country, or towards the support of its civil government. They themselves, on the contrary, have hitherto been defended almost entirely at the expense of the mother country. But the expense of fleets and armies is out of all proportion greater than the necessary expense of civil government. The expense of their own civil government has always been very moderate. It has generally been confined to what was necessary for paying competent salaries to the governor, to the judges, and to some other officers of police, and for maintaining a few of the most useful public works. The expense of the civil establishment of Massachusetts Bay, before the commencement of the present disturbances, used to be but about £18,000 a year; that of New Hampshire and Rhode Island, £3,500 each; that of Connecticut, £4,000; that of New York and Pennsylvania, £4,500 each; that of New Jersey, £1,200; that of Virginia and South Carolina, £8,000 each. The civil establishments of Nova Scotia and Georgia are partly supported by an annual grant of Parliament. But Nova Scotia pays, besides, about £7,000 a year towards the public expenses of the colony; and Georgia about

£2,500 a year. All the different civil establishments in North America, in short, exclusive of those of Maryland and North Carolina, of which no exact account has been got, did not, before the commencement of the present disturbances, cost the inhabitants above £64,700 a year, - an ever-memorable example at how small an expense three millions of people may not only be governed, but well governed. The most important part of the expense of government, indeed, that of defence and protection, has constantly fallen upon the mother country. The ceremonial, too, of the civil government in the colonies, upon the reception of a new governor, upon the opening of a new assembly, etc., though sufficiently decent, is not accompanied with any expensive pomp or parade. Their ecclesiastical government is conducted upon a plan equally frugal. Tithes are unknown among them; and their clergy, who are far from being numerous, are maintained either by moderate stipends, or by the voluntary contributions of the people. The power of Spain and Portugal, on the contrary, derives some support from the taxes levied upon their colonies. France, indeed, has never drawn any considerable revenue from its colonies, the taxes which it levies upon them being generally spent among them. But the colony government of all these three nations is conducted upon a much more expensive plan, and is accompanied with a much more expensive ceremonial. The sums spent upon the reception of a new viceroy of Peru, for example, have frequently been enormous. Such ceremonials are not only real taxes paid by the rich colonists upon those particular occasions, but they serve to introduce among them the habit of vanity and expense upon all other occasions. They are not only very grievous occasional taxes, but they contribute to establish perpetual taxes of the same kind still more grievous, - the ruinous taxes of private luxury and ex-In the colonies of all those three nations, travagance. too, the ecclesiastical government is extremely oppressive. Tithes take place in all of them, and are levied with the utmost rigor in those of Spain and Portugal. All of them, besides, are oppressed with a numerous race of mendicant

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friars, whose beggary, being not only licensed but consecrated by religion, is a most grievous tax upon the poor people, who are most carefully taught that it is a duty to give, and a very great sin to refuse them their charity. Over and above all this, the elergy are, in all of them, the greatest engrossers of land.

Fourthly, in the disposal of their surplus produce, or of what is over and above their own consumption, the English colonies have been more favored, and have been allowed a more extensive market, than those of any other European nation. Every European nation has endeavored, more or less, to monopolize to itself the commerce of its colonies, and upon that account has prohibited the ships of foreign nations from trading to them, and has prohibited them from importing European goods from any foreign nation. But the manner in which this monopoly has been exercised in different nations has been very different.

Some nations have given up the whole commerce of their colonies to an exclusive company, of whom the colonies were obliged to buy all such European goods as they wanted, and to whom they were obliged to sell the whole of their own surplus produce. It was the interest of the company, therefore, not only to sell the former as dear, and to buy the latter as cheap as possible, but to buy no more of the latter, even at this low price, than what they could dispose of for a very high price in Europe. It was their interest not only to degrade in all cases the value of the surplus produce of the colony, but in many cases to discourage and keep down the natural increase of its quantity. Of all the expedients that can well be contrived to stunt the natural growth of a new colony, that of an exclusive company is undoubtedly the most effectual. This, however, has been the policy of Holand, though their company, in the course of the present century, has given up in many respects the exertion of their exclusive privilege. This, too, was the policy of Denmark ill the reign of the late king. It has occasionally been the policy of France, and of late, since 1755, after it had been bandoned by all other nations on account of its absurdity,

it has become the policy of Portugal with regard at least to two of the principal provinces of Brazil, Pernambuco and Marannon.

Other nations, without establishing an exclusive company, have confined the whole commerce of their colonies to a particular port of the mother country, from whence no ship was allowed to sail but either in a fleet, and at a particular season, or, if single, in consequence of a particular license, which in most cases was very well paid for. This policy opened, indeed, the trade of the colonies to all the natives of the mother country, provided they traded from the proper port, at the proper season, and in the proper vessels. But as all the different merchants who joined their stocks in order to fit out those licensed vessels would find it for their interest to act in concert, the trade which was carried on in this manner would necessarily be conducted very nearly upon the same principles as that of an exclusive company. The profit of those merchants would be almost equally exorbitant and oppressive. The colonics would be ill supplied and would be obliged both to buy very dear and to sell very cheap. This, however, till within these few years, had always been the policy of Spain; and the price of all European goods, accordingly, is said to have been enormous in the Spanish West Indies. At Quito, we are told by Ulloa, a pound of iron sold for about four and sixpence, and a pound of steel for about six and ninepence sterling. But it is chiefly in order to purchase Europcan goods that the colonies part with their own produce. The more, therefore, they pay for the one, the less they really get for the other, and the dearness of the one is the same thing with the cheapness of the other. The policy of Portugal is in this respect the same as the ancient policy of Spain, with regard to all its colonies except Pernambuco and Marannon, and with regard to these it has lately adopted a still worse.

Other nations leave the trade of their colonies free to all their subjects, who may carry it on from all the different ports of the mother country, and who have occasion for no other license than the common dispatches of the custom-house. In this case the number and dispersed situation of the different

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traders render it impossible for them to enter into any general combination, and their competition is sufficient to hinder them from making very exorbitant profits. Under so liberal a policy the colonies are enabled both to sell their own produce and to buy the goods of Europe at a reasonable price. But since the dissolution of the Plymouth company, when our colonies were but in their infancy, this has always been the policy of England. It has generally too been that of France, and has been uniformly so since the dissolution of what, in England, is commonly called their Mississippi company. The profits of the trade, therefore, which France and England carry on with their colonies, though no doubt somewhat higher than if the competition was free to all other nations, are, however, by no means exorbitant; and the price of Europcan goods accordingly is not extravagantly high in the greater part of the colonies of either of those nations.

In the exportation of their own surplus produce too, it is only with regard to certain commodities that the colonies of Great Britain are confined to the market of the mother country. These commodities, having been enumerated in the act of navigation and in some other subsequent acts, have upon that account been called *enumerated commodities*. The rest are called *non-enumerated*; and may be exported directly to other counties, provided it is in British or Plantation ships, of which the owners and three fourths of the mariners are British subjects.

Among the non-enumerated commodites are some of the most important productions of America and the West Indies: grain of all sorts, lumber, salt provisions, fish, sugar, and rum.

Grain is naturally the first and principal object of the culture of all new colonies. By allowing them a very extensive market for it, the law encourages them to extend this culture much beyond the consumption of a thinly inhabited country, and thus to provide beforehand an ample subsistence for a continually increasing population.

In a country quite covered with wood, where timber consequently is of little or no value, the expense of clearing the

ground is the principal obstacle to improvement. By allowing the colonies a very extensive market for their lumber, the law endeavors to facilitate improvement by raising the price of a commodity which would otherwise be of little value, and thereby enabling them to make some profit of what would otherwise be mere expense.

In a country neither half-peopled nor half-cultivated, cattle naturally multiply beyond the consumption of the inhabitants, and are often upon that account of little or no value. But it is necessary, it has already been shown, that the price of cattle should bear a certain proportion to that of corn before the greater part of the lands of any country can be improved. By allowing to American cattle, in all shapes, dead and alive, a very extensive market, the law endeavors to raise the value of a commodity of which the high price is so very essential to improvement. The good effects of this liberty, however, must be somewhat diminished by the 4th of George III., c. 15, which puts hides and skins among the enumerated commodities, and thereby tends to reduce the valuation of American cattle.

To increase the shipping and naval power of Great Britain by the extension of the fisheries of our colonies is an object which the legislature seems to have had almost constantly in view. Those fisheries upon this account have had all the encouragement which freedom can give them, and they have flourished accordingly. The New England fishery in particular was, before the late disturbances, one of the most important, perhaps, in the world. The whale-fishery, which, notwithstanding an extravagant bounty, is in Great Britain carried on to so little purpose that, in the opinion of many people (which I do not, however, pretend to warrant), the whole produce does not much exceed the value of the bounties which are annually paid for it, is in New England carried on without any bounty to a very great extent. Fish is one of the principal articles with which the North Americans trade to Spain, Portugal, and the Mediterranean.

Sugar was originally an enumerated commodity which could be exported only to Great Britian. But in 1731, upon a repres permitte ever, wi price of measure continue duced in creases s improven the impo these two said to b

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Great nies is almost t have m, and fishery of the shery, Great ninion warlue of r Engxtent. North nean. which upon a representation of the sugar-planters, its exportation was permitted to all parts of the world. The restrictions, however, with which this liberty was granted, joined to the high price of sugar in Great Britain, have rendered it in a great measure ineffectual. Great Britain and her colonies still continue to be almost the sole market for all the sugar produced in the British plantations. Their consumption increases so fast that, though in consequence of the increasing improvement of Jamaica, as well as of the Ceded Islands, the importation of sugar has increased very greatly within these twenty years, the exportation to foreign countries is said to be not much greater than before.

Rum is a very important article in the trade which the Americans carry on to the coast of Africa, from which they bring back negro slaves in return.

If the whole surplus produce of America in grain of all sorts, in salt provisions, and in fish, had been put into the enumeration, and thereby forced into the market of Great Britain, it would have interfered too much with the produce of the industry of our own people. It was probably not so much from any regard to the interest of America, as from a jealousy of this interference, that those important commodities have not only been kept out of the enumeration, but that the importation into Great Britain of all grain, except rice, and of all salt provisions, has, in the ordinary state of the law, been prohibited.

The non-enumerated commodities could originally be exported to all parts of the world. Lumber and rice, having been once put into the enumeration, when they were afterwards taken out of it were confined, as to the European market, to the countries that lie south of Cape Finisterre. By the 6th of George III., c. 52, all non-enumerated commodities were subjected to the like restriction. The parts of Europe which lie south of Cape Finisterre are not manufacturing countries, and we were less jealous of the colony ships earrying home from them any manufactures which could interfere with our own.

The enumerated commodities are of two sorts: first, such

as are either the peculiar produce of America, or as cannot be produced, or at least are not produced, in the mother country. Of this kind are molasses, coffee, cocoanuts, tobacco, pimento, ginger, whale-fins, raw silk, cotton-wool. beaver and other peltry of America, indigo, fustic, and other dycing woods. Secondly, such as are not the peculiar produce of America, but which are and may be produced in the mother country, though not in such quantities as to supply the greater part of her demand, which is principally supplied from foreign countries. Of this kind are all naval stores, masts, yards, and bowsprits, tar, pitch, and turpentine, pig and bar iron, copper ore, hides and skins, pot and pearl ashes. The largest importation of commodities of the first kind could not discourage the growth or interfere with the sale of any part of the produce of the mother country. By confining them to the home market, our merchants, it was expected, would not only be enabled to buy them cheaper in the Plantations, and consequently to sell them with a better profit at home, but to establish between the Plantations and foreign countries an advantageous carrying trade, of which Great Britain was necessarily to be the centre or emporium, as the European country into which those commodities were first to be imported. The importation of commodities of the second kind might be so managed too, it was supposed, as to interfere, not with the sale of those of the same kind which were produced at home, but with that of those which were imported from foreign countries; because, by means of proper duties, they might be rendered always somewhat dearer than the former, and yet a good deal cheaper than the latter. By confining such commodities to the home market, therefore, it was proposed to discourage the produce, not of Great Britain, but of some foreign countries with which the balance of trade was believed to be unfavorable to Great Britain.

The prohibition of exporting from the colonies to any other country but Great Britain masts, yards, and bowsprits, tar, pitch, and turpentine naturally tended to lower the price of timber in the colonies, and consequently to in-

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crease the expense of clearing their lands, the principal obstacle to their improvement. But about the beginning of the present century, in 1703, the pitch and tar company of Sweden endeavored to raise the price of their commodities to Great Britain by prohibiting their exportation, except in their own ships, at their own price, and in such quantities as they thought proper. In order to counteract this notable piece of mercantile policy, and to render herself as much as possible independent, not only of Sweden, but of all the other northern powers, Great Britain gave a bounty upon the importation of naval stores from America, and the effect of this bounty was to raise the price of timber in America much more than the confinement to the home market could lower it; and as both regulations were enacted at the same time, their joint effect was rather to encourage than to discourage the clearing of land in America.

Though pig and bar iron too have been put among the enumerated commodities, yet as, when imported from America, they are exempted from considerable duties to which they are subject when imported from any other country, the one part of the regulation contributes more to encourage the erection of furnaces in America, than the other to discourage it. There is no manufacture which occasions so great a consumption of wood as a furnace, or which can contribute so much to the clearing of a country overgrown with it.

The tendency of some of these regulations to raise the value of timber in America, and thereby to facilitate the clearing of the land, was neither, perhaps, intended nor understood by the legislature. Though their beneficial effects, however, have been in this respect accidental, they have not upon that account been less real.

The most perfect freedom of trade is permitted between the British colonies of America and the West Indies, both in the enumerated and in the non-enumerated commodities. Those colonies are now become so populous and thriving that each of them finds in some of the others a great and extensive market for every part of its produce. All of them taken together, they make a great internal market for the produce of one another.

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The liberality of England, however, towards the trade of her colonics has been confined chiefly to what concerns the market for their produce, either in its rude state, or in what may be called the very first stage of manufacture. The more advanced or more refined manufactures even of the colony produce, the mcrchants and manufacturers of Great Britain choose to reserve to themselves, and have prevailed upon the legislature to prevent their establishment in the colonics, sometimes by high duties, and sometimes by absolute prohibitions.

While, for example, Muscovado sugars from the British plantations pay upon importation only 6s. 4d. the hundred weight; white sugars pay £1, 1s. 1d.; and refined, either double or single, in loaves, £4, 28. 5d. $\frac{8}{20}$. When those high dutics were imposed Great Britain was the sole, and she still continues to be the principal market to which the sugars of the British colonies could be exported. They amounted, therefore, to a prohibition, at first of elaying or refining sugar for any foreign market, and at present of claying or refining it for the market, which takes off, perhaps, more than nine tenths of the whole produce. The manufacture of claying or refining sugar accordingly, though it has flourished in all the sugar colonics of France, has been little cultivated in any of those of England, except for the market of the colonies themselves. While Grenada was in the hands of the French there was a refinery of sugar, by claying at least, upon almost every plantation. Since it fell into those of the English, almost all works of this kind have been given up, and there are at present, October, 1773, I am assured, not above two or three remaining in the island. At present, however, by an indulgence of the custom-house, clayed or refined sugar, if reduced from loaves into powder, is commonly imported as Muscovado.

While Great Britain encourages in America the manufactures of pig and bar iron, by exempting them from duties to which the like commodities are subjected when imported from any other country, she imposes an absolute prohibition upon the erection of steel furnaces and slit-mills in any of

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her American plantations. She will not suffer her colonists to work in those more refined manufactures, even for their own consumption; but insists upon their purchasing of her merchants and manufacturers all goods of this kind which they have occasion for.

She prohibits the exportation from one province to another by water, and even the carriage by land upon horseback or in a cart, of hats, of wools and woollen goods, of the produce of America, — a regulation which effectually prevents the establishment of any manufacture of such commodities for distant sale, and confines the industry of her colonists in this way to such coarse and household manufactures as a private family commonly makes for its own use, or for that of some of its neighbors in the same province.

To prohibit a great people, however, from making all that they can of every part of their own produce, or from employing their stock and industry in the way that they judge most advantageous to themselves, is a manifest violation of the most sacred rights of mankind. Unjust, however, as such prohibitions may be, they have not hitherto been very hurtful to the colonies. Land is still so cheap, and, consequently, labor so dear among them, that they can import from the mother country almost all the more refined or more advanced manufactures cheaper than they could make them for them-Though they had not, therefore, been prohibited selves. from establishing such manufactures, yet in their present state of improvement a regard to their own interest would, probably, have prevented them from doing so. In their present state of improvement those prohibitions, perhaps, without cramping their industry, or restraining it from any employment to which it would have gone of its own accord, are only impertinent badges of slavery imposed upon them, without any sufficient reason, by the groundless jealousy of the merchants and manufacturers of the mother country. In a more advanced state they might be really oppressive and insupportable.

Great Britain too, as she confines to her own market some of the most important productions of the colonies, so in

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compensation she gives to some of them an advantage in that market; sometimes by imposing higher duties upon the like productions when imported from other countries, and sometimes by giving bounties upon their importation from the colonies. In the first way she gives an advantage in the home market to the sugar, tobacco, and iron of her own colonies, and in the second to their raw silk, to their hemp and flax, to their indigo, to their naval stores, and to their building-timber. This second way of encouraging the colony produce, by bounties upon importation, is, so far as I have been able to learn, peculiar to Great Britain. 'The first is not. Portugal does not content herself with imposing higher duties upon the importation of tobacco from any other country, but prohibits it under the severest penalties.

With regard to the importation of goods from Europe, England has likewise dealt more liberally with her colonies than any other nation.

Great Britain allows a part, almost always the half, generally a larger portion, and sometimes the whole of the duty which is paid upon the importation of foreign goods, to be drawn back upon their exportation to any foreign country. No independent foreign country, it was easy to foresee, would receive them if they came to it loaded with the heavy duties to which almost all foreign goods are subjected on their importation into Great Britain. Unless, therefore, some part of those duties was drawn back upon exportation, there was an end of the earrying trade, — a trade so much favored by the mercantile system.

Our colonies, however, are by no means independent foreign countries; and Great Britain, having assumed to herself the exclusive right of supplying them with all goods from Europe, might have forced them (in the same manner as other countries have done their colonies) to receive such goods loaded with all the same duties which they paid in the mother country. But, on the contrary, till 1763, the same drawbacks were paid upon the exportation of the greater part of foreign goods to our colonies as to any independent foreign country. In 1763, indeed, by the 4th of George IIL,

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endent forned to hern all goods me manner eccive such paid in the b, the same greater part bendent for-George III, c. 15, this indulgence was a good deal abated, and it was enacted, "That no part of the duty called the old subsidy should be drawn back for any goods of the growth, production, or manufacture of Europe or the East Indies, which should be exported from this kingdom to any British colony or plantation in America; wines, white calicoes, and muslins excepted." Before this law many different sorts of foreign goods might have been bought cheaper in the plantations than in the mother country; and some may still.

Of the greater part of the regulations concerning the colony trade, the merchants who carry it on, it must be observed, have been the principal advisers. We must not wonder, therefore, if, in the greater part of them, their interest has been more considered than either that of the colonies or that of the mother country. In their exclusive privilege of supplying the colonies with all the goods which they wanted from Europe, and of purchasing all such parts of their surplus produce as could not interfere with any of the trades which they themselves carried on at home, the interest of the colonies was sacrificed to the interest of those merchants. In allowing the same drawbacks upon the reexportation of the greater part of European and East India goods to the colonies, as upon their re-exportation to any independent country, the interest of the mother country was sacrificed to it, even according to the mercantile ideas of that interest. It was for the interest of the merchants to pay as little as possible for the foreign goods which they sent to the colonies, and consequently, to get back as much as possible of the duties which they advanced upon their importation into Great Britain. They might thereby be enabled to sell in the colonies, either the same quantity of goods with a greater profit, or a greater quantity with the same profit, and, consequently, to gain something either in the one way or the other. It was likewise for the interest of the colonies to get all such goods as cheap and in as great abundance as possible. But this might not always be for the interest of the mother country. She might frequently suffer both in her revenue, by giving back a great part of the duties which

had been paid upon the importation of such goods; and in her manufactures, by being undersold in the colony market, in consequence of the easy terms upon which foreign manufactures could be carried thither by means of those drawbacks. The progress of the linen manufacture of Great Britain, it is commonly said, has been a good deal retarded by the drawbacks upon the re-exportation of German linen to the American colonies.

But though the policy of Great Britain with regard to the trade of her colonies has been dictated by the same mercantile spirit as that of other nations, it has, however, upon the whole, been less illiberal and oppressive than that of any of them.

In everything, except their foreign trade, the liberty of the English colonists to manage their own affairs their own way is complete. It is in every respect equal to that of their fellow-citizens at home, and is secured in the same manner, by an assembly of the representatives of the people, who claim the sole right of imposing taxes for the support of the colony government. The authority of this assembly overawes the executive power, and neither the meanest nor the most obnoxious colonist, as long as he obeys the law, has anything to fear from the resentment, either of the governor, or of any other civil or military officer in the province. The colony assemblics, though, like the house of commons in England, they are not always a very equal representation of the people, yet they approach more nearly to that character; and as the executive power either has not the means to corrupt them, or, on account of the support which it receives from the mother country, is not under the necessity of doing so, they are perhaps in general more influenced by the inclinations of their constituents. The councils, which, in the colony legislatures, correspond to the house of lords in Great Britain, are not composed of an hereditary nobility. In some of the colonies, as in three of the governments of New England, those councils are not appointed by the king, but chosen by the representatives of the people. In none of the English colonies is there any hereditary nobility. In all of

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them, indeed, as in all other free countries the descendant of an old colony family is more respected than an upstart of equal merit and fortune; but he is only more respected, and he has no privileges by which he can be troublesome to his Before the commencement of the present disneighbors. turbances, the colony assemblies had not only the legislative, but a part of the executive power. In Connecticut and Rhode Island they elected the governor. In the other colonies they appointed the revenue officers who collected the taxes imposed by those respective assemblies, to whom those officers were immediately responsible. There is more equality, therefore, among the English colonists than among the Their manners are more inhabitants of the mother country. republican, and their governments, those of three of the provinces of New England in particular, have hitherto been more republican too.

The absolute governments of Spain, Portugal, and France, on the contrary, take place in their colonies; and the discretionary powers which such governments commonly delegate to all their inferior officers are, on account of the great distance, naturally exercised there with more than ordinary Under all absolute governments there is more violence. liberty in the capital than in any other part of the country. The sovereign himself can never have either interest or inclination to pervert the order of justice, or to oppress the great body of the people. In the capital his presence overawes more or less all his inferior officers, who in the remoter provinces, from whence the complaints of the people are less likely to reach him, can exercise their tyranny with much more safety. But the European colonies in America are more remote than the most distant provinces of the greatest empires which had ever been known before. The government of the English colonies is perhaps the only one which, since the world began, could give perfect security to the inhabitants of so very distant a province. The administration of the French colonies, however, has always been conducted with more gentleness and moderation than that of the Spanish and Portuguese. This superiority of conduct is suitable

both to the character of the French nation, and to what forms the character of every nation, the nature of their government, which, though arbitrary and violent in comparison with that of Great Britain, is legal and free in comparison with those of Spain and Portugal.

It is in the progress of the North American colonies, however, that the superiority of the English policy chiefly appears. The progress of the sugar colonies of France has been at least equal, perhaps superior, to that of the greater part of those of England; and yet the sugar colonies of England enjoy a free government nearly of the same kind with that which takes place in her colonies of North America. But the sugar colonies of France are not discouraged, like those of England, from refining their own sugar; and, what is of still greater importance, the genius of their government naturally introduces a better management of their negro slaves.

In all European colonies the culture of the sugar-cane is carried on by negro slaves. The constitution of those who have been born in the temperate climate of Europe could not. it is supposed, support the labor of digging the ground under the burning sun of the West Indies; and the culture of the sugar-cane, as it is managed at present, is all hand labor, though, in the opinion of many, the drill plough might be introduced into it with great advantage. But, as the profit and success of the cultivation which is carried on by means of cattle depend very much upon the good management of those cattle, so the profit and success of that which is carried on by slaves must depend equally upon the good management of those slaves; and in the good management of their slaves the French planters, I think it is generally allowed, are superior to the English. The law, so far as it gives some weak protection to the slave against the violence of his master, is likely to be better executed in a colony where the government is in a great measure arbitrary than in one where it is altogether free. In every country where the unfortunate law of slavery is established, the magistrate, when he protects the slave, intermeddles in some measure in

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the management of the private property of the master; and in a free country, where the master is perhaps either a memher of the colony assembly or an elector of such a member, he dare not do this but with the greatest caution and circum-The respect which he is obliged to pay to the spection. master renders it more difficult for him to protect the slave. But in a country where the government is in a great measure arbitrary, where it is usual for the magistrate to intermeddle even in the management of the private property of individuals, and to send them, perhaps, a lettre de cachet if they do not manage it according to his liking, it is much easier for him to give some protection to the slave; and common humanity naturally disposes him to do so. The protection of the magistrate renders the slave less contemptible in the eyes of his master, who is thereby induced to consider him with more regard, and to treat him with more gentleness. Gentle usage renders the slave not only more faithful, but more intelligent, and therefore, upon a double account, more He approaches more to the condition of a free seruseful. vant, and may possess some degree of integrity and attachment to his master's interest, - virtues which frequently belong to free servants, but which never can belong to a slave who is treated as slaves commonly are in countries where the master is perfectly free and secure.

That the condition of a slave is better under an arbitrary than under a free government is, I believe, supported by the history of all ages and nations. In the Roman history, the first time we read of the magistrate interposing to protect the slave from the violence of his master is under the emperors. When Vedius Pollio, in the presence of Augustus, ordered one of his slaves, who had committed a slight fault, to be cut into pieces, and thrown into his fish-pond in order to feed his fishes, the emperor commanded him, with indignation, to emancipate immediately, not only that slave, but all the others that belonged to him. Under the republic no magistrate could have had authority enough to protect the slave, much less to punish the master.

The stock, it is to be observed, which has improved the

sugar colonies of France, particularly the great colony of St. Domingo, has been raised almost entirely from the gradual improvement and cultivation of those colonics. It has been almost altogether the produce of the soil and of the industry of the colonists, or, what comes to the same thing, the price of that produce, gradually accumulated by good management, and employed in raising a still greater produce. But the stock which has improved and cultivated the sugar colonies of England has, a great part of it, been sent out from England, and has by no means been altogether the produce of the soil and industry of the colonists. The prosperity of the English sugar colonies has been, in a great measure, owing to the great riches of England, of which a part has overflowed, if one may say so, upon those colonies. But the prosperity of the sugar colonies of France has been entirely owing to the good conduct of the colonists, which must therefore have had some superiority over that of the English; and this superiority has been remarked in nothing so much as in the good management of their slaves.

Such have been the general outlines of the policy of the different European nations with regard to their colonies.

The policy of Europe, therefore, has very little to boast of, either in the original establishment, or, so far as concerns their internal government, in the subsequent prosperity of the colonics of America.

Folly and injustice seem to have been the principles which presided over and directed the first project of establishing those colonies; the folly of hunting after gold and silver mines, and the injustice of coveting the possession of a country whose harmless natives, far from having ever injured the people of Europe, had received the first adventurers with every mark of kindness and hospitality.

The adventurers, indeed, who formed some of the later establishments, joined to the chimerical project of finding gold and silver mines other motives more reasonable and more laudable; but even these motives do very little honor to the policy of Europe.

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dom to America, and established there the four governments of New England. The English Catholies, treated with much greater injustice, established that of Maryland; the Quakers, that of Pennsylvania. The Portuguese Jews, persecuted by the Inquisition, stripped of their fortunes, and banished to Brazil, introduced, by their example, some sort of order and industry among the transported felons and strumpets, by whom that colony was originally peopled, and taught them the culture of the sugar-cane. Upon all these different occasions, it was, not the wisdom and policy, but the disorder and injustice, of the European governments, which peopled and cultivated America.

In effectuating some of the most important of these establishments, the different governments of Europe had as little The conquest of Mexico was merit as in projecting them. the project, not of the council of Spain, but of a governor of Cuba; and it was effectuated by the spirit of the bold adventurer to whom it was entrusted, in spite of everything which that governor, who soon repented of having trusted such a The conquerors of Chili and person, could do to thwart it. Peru, and of almost all the other Spanish settlements upon the continent of America, carried out with them no other public encouragement, but a general permission to make settlements and conquests in the name of the king of Spain. Those adventures were all at the private risk and expense of the adventurers. The government of Spain contributed scarce anything to any of them. That of England contributed as little towards effectuating the establishment of some of its most important colonies in North America.

When those establishments were effectuated, and had become so considerable as to attract the attention of the mother country, the first regulations which she made with regard to them had always in view to secure to herself the monopoly of their commerce, — to confine their market, and to enlarge her own at their expense, and, consequently, rather to damp and discourage, than to quicken and forward, the course of their prosperity. In the different ways in which this monopoly has been exercised, consists one of the most essential differ-

ences in the policy of the different European nations with regard to their colonies. The best of them all, that of England, is only somewhat less illiberal and oppressive than that of any of the rest.

In what way, therefore, has the policy of Europe contributed either to the first establishment or to the present grandeur of the colonies of America? In one way, and in one way only, it has contributed a good deal. Magna virum Mater! It bred and formed the men who were capable of achieving such great actions, and of laying the foundation of so great an empire; and there is no other quarter of the world of which the policy is capable of forming, or has ever actually and in fact formed, such men. The colonies owe to the policy of Europe the education and great views of their active and enterprising founders; and some of the greatest and most important of them, so far as concerns their internal government, owe to it scarce anything else.

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II.

THE GREAT INVENTIONS.

FROM WALPOLE'S HISTORY OF ENGLAND,¹ VOL. I. PP. 50-76.

THE manufacturing industries of the country had never I previously experienced so marvellous a development. The hum of the workshop was heard in places which had previously only been disturbed by the whirr of the grouse; and new forces, undreamed of a century before, were employed to assist the progress of production. The trade of the United Kingdom acquired an importance which it had never previously enjoyed, and the manufacturing classes obtained an influence which they had never before known. The landowners were slowly losing the monopoly of power which they had enjoyed for centuries. Traders and manufacturers were daily obtaining fresh wealth and influence. A new England was supplanting the old country; and agriculture, the sole business of our forefathers, was gradually becoming of less importance than trade. In 1793, the first year of the war, the official value of all the imports into Britain was less than £20,000,000. In 1815, the year of Waterloo, it exceeded £31,000,000. In 1792 the official value of British and Irish exports was only $\pounds 18,000,000$; it rose in 1815 to $\pounds 41,000,000$. The official values, however, give only a very imperfect idea of the extent of our export trade. They are based on prices fixed so far back as 1696, and afford, therefore, an inaccurate test of the extent of our trade. No attempt was made to ascertain the declared or real value of the exports till the year 1798, when it slightly exceeded £33,000,000. The declared value of the exports of British and Irish produce in 1815 exceeded £49,000,000. The rise in the value of the exports and imports was attributable to many causes. The predominance

¹ London : Longmans, Green, & Co., 1878.

of the British at sea had driven every enemy from the ocean, and had enabled British merchants to ply their trade in comparative safety. The Grous possessions which the British had acquired in every quarter of the globe had provided them with customers in all parts of the world; and the most civilized, as well as the most savage, of nations were purchasing the produce of the looms of Manchester and of the factories of Birmingham. Even the taxation which the war had necessitated had stimulated the manufacturers to fresh exertions. The merchants were continually discovering fresh outlets for British trade; the manufacturers were constantly encouraged to increase their produce.¹

Wool was the most ancient and most important of English manufactures. Custom seemed to point to the permanent superiority of the woollen trade. The Chancellor of England sat on a sack of wool; and when men spoke of the staple trade, they always referred to the trade in wool. For centuries British sovereigns and British statesmen had, after their own fashion, and according to their own ideas, actively promoted this particular industry. Edward III. had induced Flemish weavers to settle in this country. The Restoration Parliament prohibited the exportation of British wool, and had ordered that the very dead should be interred in woollen The manufacturers spread over the entire kingshrouds. dom. Wherever there was a running stream to turn their mill, there was at any rate the possibility of a woollen factory. Norwich, with its contiguous village of Worsted, was the chief seat of the trade. But York and Bradford, Worcestershire and Gloucestershire, Manchester and Kendal, were largely dependent on it.

The steps which Parliament took to promote this particular industry were not always very wise; in one point they were not very just. Ireland, in many respects, could have competed on advantageous terms with the woollen manufacturers of England. English jealousy prohibited in conse-

¹ McCulloch's "Commercial Dictionary," imports and exports ; cf., however, Porter's "Progress of the Nation," p. 357, where the figures are slightly different. Nothing is more difficult than to ascertain the correct figures.

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¹ McCulloch, ac 175.

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quence the importation of Irish manufactured woollen goods. The result hardly answered the sanguine anticipations of the sellish senators who had secured it. The Irish, instead of sending their fleeces to be worked up in Great Britain, smuggled them, in return for contraband spirits, to France. England failed to obtain any large addition to her raw material; and Ireland was driven into closer communication with the hereditary foe of England. The loss of the Irish fleeces was the more serious from another cause. The home supply of wool had originally been abundant and good; but its production, at the commencement of the century, was not increasing as rapidly as the demand for it; the quality of home-grown wool was rapidly deteriorating. The same sheep do not produce both wool and mutton in the greatest perfection. Every improvement in their meat is effected at the cost of their flecce. English mutton was better than it had ever been; but English manufacturers were compelled to mix foreign with native wool. Had trade been free this result would have been of little moment. The English could have easily obtained an ample supply of raw material from the hills of Spain and other countries. But, at the very time at which foreign wool became indispensable, the necessities of the country, or the ignorance of her financiers, led to the imposition of a heavy import duty on wool. Addington, in 1802, levied a duty upon it of 5s. 3d. the cwt.; Vansittart, in 1813, raised the tax to 6s. 8d. The folly of the protectionists had done much to ruin the wool trade. But the evil already done was small in comparison with that in store.

Notwithstanding, however, the restrictions on the wool trade, the woollen industry was of great importance. In 1800, Law, as counsel to the manufacturers, declared, in an address to the house of lords, that 600,000 packs of wool, worth $\pounds 6,600,000$ were produced annually in England and Wales, and that 1,500,000 persons were employed in the manufacture. But these figures, as McCulloch has shown, are undoubtedly great exaggerations.¹ Rather more than

¹ McCulloch, ad verb. Wool; Porter's "Progress of the Nation," pp. 170-175.

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400,000 packs of wool were available for manufacturing purposes at the commencement of the century; more than nine tenths of these were produced at home; and some 350,000 or 400,000 persons were probably employed in the trade. The great woollen industry still deserved the name of our staple trade; but it did not merit the exaggerated descriptions which persons who should have known better applied to it.

If the staple trade of the country had originally been in woollen goods at the commencement of the present century, cotton was rapidly gaining upon wool. Cotton had been used in the extreme East and in the extreme West from the earliest periods of which we have any records. The Spaniards, on their discovery of America, found the Mexicans "There are trees," Herodotus had writclothed in cotton. ten, nearly two thousand years before, "which grow wild there [in India], the fruit whercof is a wool exceeding in beauty and goodness that of sheep. The natives make their clothes of this tree wool."¹ But though the use of cotton had been known from the earliest ages, both in India and America, no cotton goods were imported into Europe; and in the ancient world both rich and poor were clothed in silk, linen, and wool. The industrious Moors introduced cotton into Spain. Many centuries afterwards cotton was imported into Italy, Saxony, and the Low Countries. Isolated from the rest of Europe, with little wealth, little industry, and no roads; rent by civil commotions, - the English were the last people in Europe to introduce the manufacture of cotton goods into their own homes.

Towards the close of the sixteenth century, indeed, cotton goods were occasionally mentioned in the statute book, and the manufacture of the cottons of Manchester was regulated by acts passed in the reigns of Henry VIII., Edward VI., and Elizabeth. But there seem to be good reasons for concluding that Manchester cottons, in the time of the Tudors, were woollen goods, and did not consist of cotton at all.

¹ Rawlinson's "Herodotus," vol. il. p. 411. The German name for cotton is Baumwolle — tree wool.

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More than a century elapsed before any considerable trade in cotton attracted the attention of the legislature. The woollen manufacturers complained that people were dressing their children in printed cottons; and Parliament was actually persuaded to prohibit the introduction of Indian printed Even an act of Parliament, however, was unable calicoes. to extinguish the growing taste for Indian cottons. The ladies, according to the complaint of an old writer, expected "to do what they please, to say what they please, and wear what they please." The taste for cotton led to the introduction of calico-printing in London; Parliament, in order to encourage the new trade, was induced to sanction the importation of plain cotton cloths from India under a duty. The demand which was thus created for calicoes probably promoted their manufacture at home; and Manchester, Bolton, Frome, and other places, gradually acquired fresh vitality from the creation of a new industry.

Many years, however, passed before the trade attained anything but the slenderest proportions. In the year 1697 only 1,976,359 pounds of cotton wool were imported into the United Kingdom. In the year 1751 only 2,976,610 pounds were imported. The official value of cotton goods exported amounted in the former year to only £5,915; in the latter year to only £45,986. At the present time Britain annually purchases about 1,500,000,000 pounds of cotton wool. She annually disposes of cotton goods worth £60,000,000. The import trade is five hundred times as large as it was in 1751; the value of the exports has been increased 1,300 fold. The world has never seen, in any similar period, so prodigious a growth of manufacturing industry. But the trade has not merely grown from an infant into a giant; its conditions have been concurrently revolutionized. Up to the middle of the last century cotton goods were really never made at all. The so-called cotton manufactures were a combination of wool, or linen, and cotton. No Englishman had been able to produce a cotton thread strong enough for the warp; and even the cotton manufacturers themselves appear to have despaired of doing so. They induced Parlia.

ment in 1736 to repeal the prohibition which still encumbered the statute book, against wearing printed calicoes; but the repeal was granted on the curious condition "that the warp thereof be entirely linen yarn." Parliament no doubt intended by this condition to check the importation of Indian goods without interfering with the home manufacturers. The superior skill of the Indian manufacturers enabled them to use cotton for a warp; while clumsy workmanship made the use of cotton as a warp unattainable at home.

In the middle of the eighteenth century, then, a piece of column cloth, in the true sense of the term, had never been made in England. The so-called cotton goods were all made in the configer of the weavers. The yarn was carded by hand; it was some by hand; it was worked into cloth by a hand-loom. The weaver was usually the head of the family; his wife and unmarried daughters spun the yarn for him. Spinning was the ordinary occupation of every girl, and the distaff was, for countless centuries, the ordinary occupation of every woman. The occupation was so universal that the distaff was occasionally used as a synonym for woman. "Le royaume de France ne tombe point en *quenouille.*"

> "See my royal master murdered, His crown usurped, a distaff in the throne."

To this day every unmarried girl is commonly described as a "spinster."

The operation of weaving was, however, much more rapid than that of spinning. The weaver consumed more weft than his own family could supply him with; and the weavers generally experienced the greatest difficulty in obtaining sufficient yarn. About the middle of the eighteenth century the ingenuity of two persons, a father and a son, made this difference more apparent. The shuttle had originally been thrown by the hand from one end of the loom to the other. John Kay, a native of Bury, by his invention of the flyshuttle, saved the weaver from this labor. The lathe in which the shuttle runs was lengthened at both ends; two strings wer held by a peg the we to the shu drop-box, b any one of colored wer replacing th the product weaver was had previou found thems their efforts

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strings were attached to its opposite ends; the strings were held by a peg in the weaver's hands, and by plucking the peg the weaver was enabled to give the necessary impulse to the shuttle. Robert Kay, John Kay's son, added the drop-box, by means of which the weaver was able "to use any one of the three shuttles, each containing a different colored weft, without the trouble of taking them from and replacing them in the lathe." By means of these inventions the productive power of each weaver was doubled. Each weaver was easily able to perform the amount of work which had previously required two men to do; and the spinsters found themselves more hopelessly distanced than ever in their efforts to supply the weavers with weft.

The preparation of weft was entirely accomplished by manual labor, and the process was very complicated. Carding and roving were both slowly performed with the aid of the clumsy implements which had originally been invented "Carding is the process to which the for the purpose. cotton is subjected after it has been opened and cleaned, in order that the fibres of the wool may be disentangled, straightened, and laid parallel with each other, so as to admit of being spun. This was formerly effected by instruments called hand-cards, which were brushes made of short pieces of wire instead of bristles, the wires being stuck into a sheet of leather at a certain angle, and the leather fastened on a flat piece of wood about twelve inches long and five wide, with a handle. The cotton being spread upon one of the cards, it was repeatedly combed with another till all the fibres were laid straight, when it was stripped off the eard in a fleecy roll ready for the rover. In 'roving' the spinner took the short fleeey rolls in which the cotton was stripped off the hand-cards, applied them successively to the spindle, and while with one hand she turned the wheel and thus made the spindle revolve, with the other she drew out the cardings, which, receiving a slight twist from the spindle, were made into thick threads called rovings, and wound upon the spindle so as to form cops." In spinning, "the roving was spun into yarn; the operation was similar, but

the thread was drawn out much finer and received much more twist. It will be seen that this instrument only admitted of one thread being spun at a time by one pair of hands, and the slowness of the operation and consequent expensiveness of the yarn formed a great obstacle to the establishment of a new manufacture."

The trade was in this humble and primitive state when a series of extraordinary and unparalleled inventious revolutionized the conditions on which cotton had been hitherto prepared. A little more than a century ago John Hargreaves, a poor weaver in the neighborhood of Blackburn, was returning home from a long walk in which he had been purchasing a further supply of yarn for his loom. As he entered his cottage, his wife Jenny accidentally upset the spindle which she was using. Hargreaves noticed that the spindles, which were now thrown into an upright position, continued to revolve, and that the thread was still spinning in his wife's hand. The idea immediately occurred to him that it would be possible to connect a considerable number of upright spindles with one wheel, and thus multiply the productive power of each spinster. "He contrived a frame, in one part of which he placed eight rovings in a row, and in another part a row of eight spindles. The rovings, when extended to the spindles passed between two horizontal bars of wood, forming a clasp which opened and shut somewhat like a parallel ruler. When pressed together this clasp held the threads fast; a certain portion of roving being extended from the spindles to the wooden clasp, the clasp was closed, and was then drawn along the horizontal frame to a considerable distance from the spindles, by which the threads were lengthened out and reduced to the proper tenuity; this was done with the spinner's left hand, and his right hand at the same time turned a wheel which caused the spindles to revolve rapidly, and thus the roving was spun into yarn. By returning the clasp to its first situation and letting down a piercer wire, the yarn was wound upon the spindle."

Hargreaves succeeded in keeping his admirable invention secret for a time; but the powers of his machine soon beeame know that a may of eight w ment. A chine. Ha where, with able to tak machine, in The inve

the cotton jenny, if it would not factured in which had enough nor or woollen pose. In moved fron took out a is alleged before the machine fo description of rival in lar machin record the with the in Arkwright, Hargreaves barber's ass industrious destroyed th Arkwright w of his circu many years' his memoral foundations than any oth

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came known. His ignorant neighbors hastily concluded that a machine which enabled one spinster to do the work of eight would throw multitudes of persons out of employment. A mob broke into his house and destroyed his machine. Hargreaves himself had to retire to Nottingham, where, with the friendly assistance of another person, he was able to take out a patent for the spinning-jenny, as the machine, in compliment to his industrious wife, was called.

The invention of the spinning-jenny gave a new impulse to the cotton manufacture. But the invention of the spinningjenny, if it had been accompanied by no other improvements, would not have allowed any purely cotton goods to be manufactured in England. The yarn spun by the jenny, like that which had previously been spun by hand, was neither fine enough nor hard enough to be employed as warp, and linen or woollen threads had consequently to be used for this purpose. In the very year, however, in which Hargreaves moved from Blackburn to Nottingham, Richard Arkwright took out a patent for his still more celebrated machine. It is alleged that John Wyatt, of Birmingham, thirty years before the date of Arkwright's patent, had elaborated a machine for spinning by rollers. But in a work of this description it is impossible to analyze the conflicting claims of rival inventors to the credit of discovering particular machinery; and the historian can do no more than record the struggles of those whose names are associated with the improvements which he is noticing. Richard Arkwright, like John Hargreaves, had a humble origin. Hargreaves began life as a poor weaver; Arkwright, as a barber's assistant. Hargreaves had a fitting partner in his industrious wife Jenny. Mrs. Arkwright is said to have destroyed the models which her husband had made. But Arkwright was not deterred from his pursuit by the poverty of his circumstances or the conduct of his wife. "After many years' intense and painful application," he invented his memorable machine for spinning by rollers; and laid the foundations of the gigantic industry which has done more than any other trade to concentrate in this country the wealth

of the world. The principle of Arkwright's great invention is very simple. He passed the thread over two pairs of rollers, one of which was made to revolve much more rapidly than the other. The thread, after passing over the pair revolving slowly, was drawn into the requisite tenuity by the rollers revolving at a higher rapidity. By this simple but memorable invention Arkwright succeeded in producing thread capable of employment as warp. From the circumstance that the mill at which his machinery was first erected was driven by water power, the machine received the somewhat inappropriate name of the water-frame; the thread spun by it was usually called the water-twist.

The invention of the fly-shuttle by John Kay had enabled the weavers to consume more cotton than the spinsters had been able to provide; the invention of the spinning-jenny and the water-frame would have been useless if the old system of hand-carding had not been superseded by a more efficient and more rapid process. Just as Arkwright applied rotatory motion to spinning, so Lewis Paul introduced revolving cylinders for carding cotton. Paul's machine consisted of "a horizontal cylinder, covered in its whole circumference with parallel rows of cards with intervening spaces, and turned by a handle. Under the cylinder was a concave frame, lined internally with cards exactly fitting the lower half of the cylinder, so that when the handle was turned, the eards of the cylinder and of the concave frame worked against each other and carded the wool." "The cardings were of course only of the length of the cylinder, but an ingenious apparatus was attached for making them into a perpetual earding. Each length was placed on a flat broad ribbon which was extended between two short cylinders and which wound upon one cylinder as it unwound from the other."1

This extraordinary series of inventions placed an almost unlimited supply of yarn at the disposal of the weaver. But the machinery which had thus been introduced was still

¹ Baines' "History of the Cotton Manufacture," p. 173, from which work the preceding quotations are also taken.

incapable ton eloth. eould not thread of the rollers however, w young weav combining wright's wa mer, his ma mule, " has the latter, i and the thre spindles aft The disting instead of k are placed of the distance beam, in ord in again to w which held t spindles; in from the ela clasp. The less than the clasp of the after a certa dles continue the draught o the spindles. tages both o stretched mon of yarn can th

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incapable of providing yarn fit for the finer qualities of cot-"The water-frame spun twist for warps, but it ton cloth. could not be advantageously used for the finer qualities, as thread of great tenuity has not strength to bear the pull of the rollers when winding itself on the bobbin." This defect. however, was removed by the ingenuity of Samuel Crompton, a young weaver residing near Bolton. Crompton succeeded in combining in one machine the various excellences of "Arkwright's water-frame and Hargreaves' jenny." Like the former, his machine, which from its nature is happily ealled the mule, " has a system of rollers to reduce the roving; and, like the latter, it has spindles without bobbins to give the twist, and the thread is stretched and spun at the same time by the spindles after the rollers have ceased to give out the rove. The distinguishing feature of the mule is that the spindles, instead of being stationary, as in both the other machines, are placed on a movable carriage, which is wheeled out to the distance of fifty-four or fifty-six inches from the roller beam, in order to stretch and twist the thread, and wheeled in again to wind it on the spindles. In the jenny, the clasp which held the rovings was drawn back by the hand from the spindles; in the mule, on the contrary, the spindles recede from the clasp, or from the roller beam, which acts as a clasp. The rollers of the mule draw out the roving much less than those of the water-frame, and they act like the clasp of the jenny by stopping and holding fast the rove, after a certain quantity has been given out, while the spindles continue to recede for a short distance farther, so that the draught of the thread is in part made by the receding of the spindles. By this arrangement, comprising the advantages both of the roller and the spindles, the thread is stretched more gently and equably, and a much finer quality of yarn can therefore be produced."1

The effects of Crompton's great invention may be stated epigrammatically. Before Crompton's time it was thought impossible to spin eighty hanks to the pound. The mule

¹ Baines's "History of the Cotton Manufacture," pp. 107, 198.

has spun three hundred and fifty hanks to the pound! The natives of India could spin a pound of cotton into a thread one hundred and nineteen miles long. The English succeeded in spinning the same thread to a h of one hundred and sixty miles.¹ Yarn of the finest quality was at once at the disposal of the weaver, and an opportunity was afforded for the production of an indefinite quantity of cotton But the great inventions which have been thus enuvarn. merated would not of themselves have been sufficient to establish the cotton manufacture on its present basis. The ingenuity of Hargreaves, Arkwright, and Crompton had been exercised to provide the weaver with yarn. Their inventions had provided him with more yarn than he could by any possibility use. The spinster had beaten the weaver, just as the weaver had previously beaten the spinster, and the manufacture of cotton seemed likely to stand still beeause the yarn could not be woven more bidly than an expert workman with Kay's improved huttle could weave it.

Such a result was actually contemplated by some of the leading manufacturers, and such a result might possibly have temporarily occurred if it had not been averted by the ingenuity of a Kentish clergyman. Edmund Cartwright, a clergyman residing in Kent, happened to be staying at Matlock in the summer of 1784, and to be thrown into the company of some Manchester gentlemen. The conversation turned on Arkwright's machinery, and "one of the company observed that as soon as Arkwright's patent expired so many mills would be erected and so much cotton spun that hands would never be found to weave it." Cartwright replied that "Arkwright must then set his wits to work to invent a weaving mill." The Manchester gentlemen, however, unanimously agreed that the thing was impracticable. Cartwright "controverted the impracticability by remarking that there had been exhibited an automaton figure which played at chess;" it could not be "more difficult to construct a machine that

¹ Baines's "History of the Cotton Manufacture, p. 200, and "Colchester," vol. ii. p. 75.

shall were moves w Within th was pract inventors nated, and visit to M looms at

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that ester," shall weave than one which shall make all the variety of moves which are required in that complicated game." Within three years he had himself proved that the invention was practicable by producing the power-loom. Subsequent inventors improved the idea which Cartwright had originated, and within fifty years from the date of his memorable visit to Matlock there were not less than 100,000 powerlooms at work in Great Britain alone.¹

The inventions which have been thus enumerated are the most remarkable of the improvements which stimulated the development of the cotton industry. But other inventions, less generally remembered, were hardly less wonderful or less beneficial than these. Up to the middle of last century cotton could only be bleached by the cloth being steeped in alkaline lyes for several days, washed clean, and spread on the grass for some weeks to dry. The process had to be repeated several times, and many months were consumed before the tedious operation was concluded. Scheele, the Swedish philosopher, discovered in 1774 the bleaching properties of chlorine, or oxymuriatic acid. Berthollet, the French chemist, conceived in 1785 the idea of applying the acid to bleaching cloth. Watt, the inventor of the steam-engine, and Henry of Manchester, respectively introduced the new acid into the bleach-fields of Macgregor of Glasgow and Ridgway of Bolton. The process of bleaching was at once reduced from months to days, or even hours.²

In the same year in which Watt and Henry were introducing the new acid to the bleacher, Bell, a Scotchman, was laying the foundations of a trade in printed calicoes. "The old method of printing was by blocks of sycamore, about ten inches long by five broad, on the surface of which the pattern was cut in relief in the common method of wood engraving." As the block had to be applied to the cloth by hand, "no more of it could be printed at once than the block could cover, and a single piece of calico, twenty-eight yards in length, required the application of the block four hundred

> ¹ Baines's "Cotton," pp. 229, 235. ² Ibid., pp. 247-249.

and forty-eight times."¹ This clumsy process was superseded by cylinder printing. "A polished copper cylinder, several feet in length and three or four inches in diameter, is engraved with a pattern round its whole circumference and from end to end. It is then placed horizontally in a press, and, as it revolves, the lower part of the circumference passes through the coloring matter, which is again removed from the whole surface of the cylinder, except the engraved pattern, by an elastic steel blade placed in contact with the cylinder, and reduced to so fine and straight an edge as to take off the color without scratching the copper. The color being thus left only in the engraved pattern, the piece of calico or muslin is drawn tightly over the cylinder, which revolves in the same direction, and prints the cloth." The saving of labor "effected by the machine" is "immense; one of the cylinder machines, attended by a man and a boy, is actually capable of producing as much work as could be turned out by one hundred block printers, and as many tear boys."²

Such are the leading inventions which made Great Britain in less than a century the wealthiest country in the world. "When we undertook the cotton manufacture we had comparatively few facilities for its prosecution, and had to struggle with the greatest difficultics. The raw material was produced at an immense distance from our shores, and in Hindustan and in China the inhabitants had arrived at such perfection in the arts of spinning and weaving that the lightness and delicacy of their finest cloths emulated the web of the gossamer, and seemed to set competition at defi-Such, however, has been the influence of the stupenance. dous discoveries and inventions of Hargreaves, Arkwright, Crompton, Cartwright, and others, that we have overcome all these difficultics, --- that neither the extreme cheapness of labor in Hindustan, nor the excellence to which the natives had attained, has enabled them to withstand the competition of those who buy their cotton, and who, after carrying it

> ¹ Baines's "Cotton," pp. 264, 265. ² Ibid., pp. 265, 266.

five thousan to them."¹

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five thousand miles to be manufactured, carry back the goods to them."¹

If Great Britain entirely monopolized the woollen and the cotton trades, she had done her best, in her own way, to promote the manufacture of linen in Ireland. In 1698 Parliament, while rigorously prohibiting the exportation of Irish woollen goods, sedulously attempted to encourage the linen manufacture in Ireland. Bounties were paid on all linen goods imported into this country from the sister island; and the great linen trade acquired, especially in Ulster, the importance which it still retains. In 1800 31,978,039 yards of linen were exported from Ireland to Great Britain, and 2,585,829 yards to other countries. In 1815 the export trade had risen to 37,986,359 and 5,496,206 yards respectively. A formidable rival to Ulster was, however, slowly rising in another part of the kingdom. At the close of the great French war Dundee was still an insignificant manufacturing town, but the foundations were already laid of the surprising supremacy which she has since ac-Some three thousand tons of flax quired in the linen trade. were imported into the Scotch port in 1814. But the time was rapidly coming when the shipments of linen from this single place were to exceed those from all Ireland, and Dundee was to be spoken of by professed economists as the Manchester of the linen trade.²

The silk manufacturers of Britain have never yet succeeded in acquiring the predominance which the woollen, cotton, and linen factors have virtually obtained. The worm by which the raw material is produced has never been acclimatized on a large scale in England; and the trade has naturally flourished chiefly in those countries where the worm could live and spin, or where the raw material could be the most easily procured. Insular prejudice, moreover, should not induce the historian to forget another reason which has materially interfered with the development of this particular trade. The ingenuity of the British was superior to that of

¹ McCulloch's "Commercial Dict.," ad verb. Cotton.

² McCulloch, ad verb. Linen; Porter's "Progress of the Nation," p. 280.

every other nation; but the taste of the British was inferior to that of most people. An article which was only worn by the rich, and which was only used for its beauty and delicacy, was naturally produced most successfully by the most artistic people. English woollen goods found their way to every continental nation; but the wealthy English imported their finest lustrings and à les modes from Italy and France. The silk trade would, in fact, have hardly found a home in England at all had it not been for the folly of a neighboring potentate. Louis XIV., in a disastrous hour for France, revoked the Edict of Nantes; and the French Huguenots, to their eternal honor, preferring their consciences to their country, sought a home among a more liberal people. The silk weavers of France settled in Spitalfields, and the British silk trade gained rapidly on its foreign rivals. Parliament adopted the usual clumsy contrivances to promote an industry whose importance it was no longer possible to ignore. Prohibitory duties, designed to discourage the importation of foreign silk, were imposed by the legislature; monopolies were granted to successful throwsters, and every precaution was taken which the follies of protection could suggest, to perpetuate the supremacy which Great Britain was gradually acquiring in the silk trade. The usual results followed this short-sighted policy. Prohibitory duties encouraged smuggling. Foreign silk found its way into England, and the revenue was defrauded accordingly. The English trade began to decline, and Parliament again interfered to promote its prosperity. In that unhappy period of English history which succeeds the fall of Chatham and the rise of Pitt, Parliament adopted fresh expedients to promote the prosperity of the silk trade. Prohibitory duties were replaced with actual prohibition, and elaborate attempts were made to regulate the wages of the Spitalfields weavers. The natural consequences ensued. Smuggling, which had been created by prohibitive duties, flourished with fresh vitality under the influence of actual prohibition. The capitalists transferred their mills from Spitalfields, where the labors of their workmen were fixed by law, to Macclesfield and

other place their own The silk rapidity as like wool, amount of The textile acquired th the invention Cartwright plorers in man by mar form. But it not for th earliest ages force of anin has placed a ally used to pass their d ment of the be taken into mills and wa march of civ they are, prov the wind was cumbrous sail the complicat trusted to wa who relied up of his wheel weather made ble amount of his mill depe auxiliary duri occasionally to poses of the 1 The manufa fore, in need

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The silk trade was hardly being developed with the same rapidity as the three other textile industries. But silk. like wool, cotton, and linen, was affording a considerable amount of employment to a constantly growing population. The textile industries of this country could not indeed have acquired the importance which they have since obtained, if the inventions of Hargreaves, Arkwright, Crompton, and Cartwright had not been supplemented by the labors of explorers in another field. Machinery makes possible what man by manual labor alone would find it impossible to perform. But machinery would be a useless incumbrance were it not for the presence of some motive power. From the earliest ages men have endeavored to supplement the brute force of animals with the more powerful forces which nature has placed at their disposal. The ox was not to be perpetually used to tread out the corn; women were not always to pass their days laboriously grinding at a mill. The movement of the atmosphere, the flow of running water, were to be taken into alliance with man; and the invention of windmills and water-mills was to mark an advance in the onward march of civilization. But air and water, mighty forces as they are, proved but fickle and uncertain auxiliaries. When the wind was too low its strength was insufficient to turn the cumbrous sails of the mill; when it was too high it deranged the complicated machinery of the miller. The miller who trusted to water was hardly more fortunate than the man who relied upon air. A summer drought reduced the power of his wheel at the very time when long days and fine weather made him anxious to accomplish the utmost possible amount of work. A flood swept away the dam on which his mill depended for its supply of water. An admirable auxiliary during certain portions of each year, water was occasionally too strong, occasionally too weak, for the purposes of the miller.

The manufacturing industry of the country stood, therefore, in need of a new motive power; and invention, which

is supposed by some thinkers to depend like other commodities on the laws of demand and supply, was busily elaborating a new problem, - the use of a novel power, which was to revolutionize the world. The elasticity of hot water had long been noticed, and for a century and a half before the period of this history a few advanced thinkers had been speculating on the possibility of utilizing the expansive powers of steam. The Marquis of Worcester had described. in his "Century of Inventions," "an admirable and most forcible way to drive up water by means of fire." Steam was actually used early in the eighteenth century as a motive power for pumping water from mines; and Newcomen, a blacksmith in Dartmouth, invented a tolerably efficient steam-engine. It was not, however, till 1769 that James Watt, a native of Greenock, and a mathematical instrumentmaker in Glasgow, obtained his first patent for "methods of lessening the consumption of steam, and consequently of fuel, in fire-engines." James Watt was born in 1736. His father was a magistrate, and had the good sense to encourage the good turn for mechanics which his son displayed at a very early age. At the age of ninetcen Watt was placed with a mathematical instrument-maker in London. But feeble health, which had interfered with his studies as a boy, prevented him from pursuing his avocations in England. Watt returned to his native country. The Glasgow body of Arts and Trades, however, refused to allow him to exercise his calling within the limits of their jurisdiction; and had it not been for the University of Glasgow, which befriended him in his difficulty, and appointed him their mathematical instrument-maker, the career of one of the greatest geniuses whom Great Britain has produced would have been stinted at its outset.

There happened to be in the University a model of Newcomen's engine. It happened, too, that the model was defectively constructed. Watt, in the ordinary course of his business, was asked to remedy its defects, and he soon succeeded in doing so. But his examination of the model convinced him of serious faults in the original. Newcomen

had injected dense the ste piston to wo the fuel which the cylinder. could be perfe the cylinder. was cooled, an could also be communication water could be invention by w and increased t of coal produce it."1 But Wat ment. He int piston, and thu He discovered made the piston the supply of w the supply of of "the governo eries, "satisfied engine, of incale estimable value. pages the gradu manufacturing p Roebuck, an iron manently associa of the Soho Work came in 1774. T original inventio ventors succeeded the present centu advanced thinker ing it to purposes

¹ Lord Broug ² Ibid., p 371

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had injected cold water into the cylinder in order to condense the steam and thus obtain a necessary vacuum for the piston to work in. Watt discovered that three fourths of the fuel which the engine consumed was required to reheat the cylinder. "It occurred to him that if the condensation could be performed in a separate vessel, communicating with the cylinder, the latter could be kept hot while the former was cooled, and the vapor arising from the injected water could also be prevented from impairing the vacuum. The communication could easily be effected by a tube, and the water could be pumped out. This is the first and the grand invention by which he at once saved three fourths of the fuel, and increased the power one fourth, thus making every pound of coal produce five times the force formerly obtained from it."1 But Watt was not satisfied with this single improvement. He introduced steam above as well as below the piston, and thus again increased the power of the machine. He discovered the principle of parallel motion, and thus made the piston move in a true straight line. He regulated the supply of water to the boiler by the means of "floats," the supply of steam to the cylinder by the application of "the governor," and, by the addition of all these discoveries, "satisfied himself that he had almost created a new engine, of incalculable power, universal application, and inestimable value."² It is unnecessary to relate in these pages the gradual introduction of the new machine to the manufacturing public. Watt was first connected with Dr. Roebuck, an iron-master of Glasgow. But his name is permanently associated with that of Mr. Boulton, the proprietor of the Soho Works near Birmingham, whose partner he became in 1774. Watt and Boulton rapidly supplemented the original invention with further improvements. Other inventors succeeded in the same field, and by the beginning of the present century steam was established as a new force; advanced thinkers were considering the possibility of applying it to purposes of locomotion.

¹ Lord Brougham's "Men of Letters and Science," p. 367.

² Ibid., p 371.

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The steam-engine indeed would not have been invented in the eighteenth century, or would not at any rate have been discovered in this country, if it had not been for the vast mineral wealth with which Great Britain has fortunately been provided. Iron, the most useful of all metals, presents greater difficulties than any other of them to the manufacturer, and iron was probably one of the very last minerals which was applied to the service of man. Centuries elapsed before the rich mines of our own country were even slightly worked. The Romans indeed established iron works in Gloucestershire, just as they obtained tin from Cornwall or lead from Wales. But the British did not imitate the example of their earliest conquerors, and the little iron which was used in this country was imported from abroad. Some progress was, no doubt, made in the southern counties, - the smelters naturally seeking their ores in those places where wood, then the only available fuel, was to be found in abundance. The railings which but lately encircled our metropolitan cathedral were cast in Sussex. But the prosperity of the trade involved its own ruin. Iron could not be made without large quantities of fuel. The wood gradually disappeared before the operations of the smelter, and the country gentlemen hesitated to sell their trees for fuel when the increase of shipping was creating a growing demand for timber. Nor were the country gentlemen animated in this respect by purely selfish motives. Parliament itself shared their apprehensions and endorsed their views. It regarded the constant destruction of timber with such disfavor that it seriously contemplated the suppression of the iron trade as the only practical remedy. "Many think," said a contemporary writer, "that there should be no works anywhere, they so devour the woods."¹ Fortunately, so crucial a remedy was not necessary. At the commencement of the seventeenth century, Dud Dudley, a natural son of Lord Dudley, had proved the feasibility of smelting iron with coal; but the prejudice and ignorance of the work-people had prevented the adoption of his invention. In the middle of the

¹ Smiles's "Industrial Biography," p. 43.

eighteenth o cess, and th conclusively Dale. The was extraor amounted at a year, four Sweden. In sixty-eight b iron annually tons; it had afterwards, or from British

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¹ "Dict. Hist." v Iron; Porter's "Pro United Kingdom.

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eighteenth century attention was again drawn to his process, and the possibility of substituting coal for wood was conclusively established at the Darby's works at Coalbrook The impetus which was thus given to the iron trade Dale. was extraordinary. The total produce of the country amounted at the time to only eighteen thousand tons of iron a year, four fifths of the iron used being imported from Sweden. In 1802 Great Britain possessed one hundred and sixty-eight blast-furnaces, and produced 170,000 tons of iron annually. In 1806 the produce had risen to 250,000 tons; it had increased in 1820 to 400,000 tons Fifty years afterwards, or in 1870, 6,000,000 tons of iron were produced from British ores.¹

The progress of the iron trade indicated, of course, a corresponding development of the supply of coal. Coal had been used in England for domestic purposes from very early periods. Sea coal had been brought to London; but the citizens had complained that the smoke was injurious to their health, and had persuaded the legislature to forbid the use of coal on sanitary grounds. The convenience of the new fuel triumphed, however, over the arguments of the sanitarians and the prohibitions of the legislature, and coal continued to be brought in constantly though slowly increas. ing quantities to London. Its use for smelting iron led to new contrivances for ensuring its economical production. Before the commencement of the present century there were two great difficulties which interfered with the operations of the miner. The roof of the mine had necessarily to be propped, and, as no one had thought of using wood, and coal itself was employed for the purpose, only sixty per cent of the produce of each mine was raised above ground. About the beginning of the nineteenth century timber struts were gradually substituted for the pillars of coal, and it became consequently possible to raise from the mine all the coal won by the miner. A still more important discovery was

¹ "Dict. Hist." vol. iv. p. 689; McCulloch, "Dict. of Commerce," ad verb. Iron; Porter's "Progress of the Nation," p. 520; Statistical Abstract of the United Kingdom.

made at the exact period at which this history commences. The coal-miner in his underground calling was constantly exposed to the dangers of fire-damp, and was liable to be destroyed without a moment's notice by the most fearful catastrophe. In the year in which the great French war was concluded, Sir Humphrey Davy succeeded in perfecting his safety-lamp, an invention which enabled the most dangerous mines to be worked with comparative safety, and thus augmented to an extraordinary extent the available supplies of coal.¹

Humphrey Davy was the son of a wood-carver of Penzance, and early in life was apprenticed to a local apothecary. Chance - of which other men would perhaps have failed to avail themselves - gave the lad an opportunity of cultivating his taste for chemistry. A French surgeon, wrecked on the coast, to whom Davy had shown some kindness, gave him a case of surgical instruments, and "the means of making some approximation to an exhausting engine." Watt's son, Gregory Watt, was ordered to winter in Cornwall for his health, and happened to take apartments in the house of Davy's mother. "Another accident threw him in the way of Mr. Davies Giddy, a cultivator of natural as well as mathematical science." Giddy "gave to Davy the use of an excellent library;" he "introduced him to Dr. Beddoes," who made his young friend the head of "a pneumatic institution for the medical use of gases," which he was then forming. The publication, soon afterwards, of a fanciful paper on light and heat gave Davy a considerable reputation. He was successively chosen assistant lecturer in chemistry, and sole chemical professor of the Royal Institution. While he held this office his inquiries induced him to investigate the causes of the fearful explosions which continually took place in coal mines. He soon satisfied himself that carburetted hydrogen is the cause of fire-damp; and that it will not explode unless mixed with atmospheric air "in proportions between six and fourteen times its bulk;" and "he was surprised to observe in the course of

¹ Porter's "Progress of the Nation," p. 277; McCulloch, ad verb. Coal.

his experim tion takes p of a certain that, if the l the flames wi tiplying the diminished, Hence it app only one twee flame and pr discoveries, th thought, led to safety-lamp we isfaction in re rable for the of modern wa beneficial disc kind. Even th life or avert m vention. The and pensions, conqueror of Na inferior reward Hargreaves and and Davy, did Wellington. T try's future the victories secure generation. Th cial supremacy has yet destroye

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its of his experiments, made for ascertaining how the inflammation takes place, that the flames will not pass through tubes of a certain length and smallness of bore. He then found that, if the length be diminished and the bore also reduced, the flames will not pass; and he further found that by multiplying the number of the tubes this length may be safely diminished, provided the bore be proportionally lessened. Hence it appeared that gauze of wire, whose meshes were only one twenty-second of an inch in diameter, stopped the flame and prevented the explosion."1 These successive discoveries, the results of repeated experiments and careful thought, led to the invention of the safety-lamp. The first safety-lamp was made in the year 1815. There is some satisfaction in reflecting that the very year which was memorable for the conclusion of the longest and most destructive of modern wars, was also remarkable for one of the most benchicial discoveries which have ever been given to mankind. Even the peace of Paris did not probably save more life or avert more suffering than Sir Humphrey Davy's invention. The gratitude of a nation properly bestowed titles and pensions, lands and houses, stars and honors, on the conqueror of Napoleon. Custom and precedent only allowed inferior rewards to the inventor of the safety-lamp. Yet Hargreaves and Arkwright, Crompton and Cartwright, Watt and Davy, did more for the cause of mankind than even Wellington. Their lives had more influence on their country's future than the career of the great general. His victories secured his country peace for rather more than a generation. Their inventions gave Great Britain a commercial supremacy which neither war nor foreign competition has yet destroyed.

A series of extraordinary inventions, at the commencement of the present century, had supplied Great Britain with a new manufacturing vigor. Hargreaves, Arkwright, Crompton, and Cartwright had developed, to a remarkable degree, the producing power of man; Watt had given a new

¹ See Brougham's "Men of Letters and Science," p. 462. The life of Davy is admirably told by Lord Brougham.

significance to their inventions by superseding the feeble and unequal forces which had hitherto been used, with the most tractable and powerful of agents. And Davy, by his beneficent contrivance, had enabled coal to be won with less danger, and had relieved the miner's life from one of its most hideous perils. The ingenuity of these great men had been exercised with different objects; but the inventions of each of them had given fresh importance to the discoveries of the others. The spinning-jenny, the waterframe, and the mule would have been deprived of half their value if they had not been supplemented with the powerloom; the power-loom would, in many places, have been useless without the steam-engine; the steam-engine would have been idle, had it not been for coal; the coal would not have been won without danger, had it not been for Sir H. Davy. Coal, then, was the commodity whose extended use was gradually revolutionizing the world; and the population of the world, as the first consequence of the change, gradually moved towards the coal fields. The change was just commencing at the beginning of the present century; it was proceeding with rapid strides at the period at which this history opens; its ultimate effects will be seen later on in this work. The time was to come when the coal measures of England were to draw away the population of lreland, to weaken the power of the southern agricultural counties, to give predominance to the north of England, and by these results to involve a political revolution.

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III.

ECONOMIC CAUSES OF THE FRENCH REVOLUTION.

FROM VON SYBEL'S FRENCH REVOLUTION,¹ VOL. I. PP. 21-53.

TN order to bring this matter, in its details, more clearly before us, we may pass in review the three great classes into which the French people were divided according to their occupation.² By far the most important of these occupations at that period was agriculture. Nearly 21,000,000 out of 25,000,000 of inhabitants were employed in tilling the soil. Of the 51,000,000 hectares of which the whole kingdom is composed, 35,000,000 were destined for cultivation, that is, rather less than at the present day, but more than twice as much as is now under cultivation in England. It has often been imagined that the property of these great masses of land was almost entirely in the hands of the church, the monasteries, the nobility, and the financiers; and that before 1789 only large estates existed, while the class of small proprietors was created by the Revolution. Some consider this supposed change as the highest glory, and others as the greatest calamity of modern times; but all are agreed as to the fact, and the more so, because it was continually proclaimed in the debates of the revolutionary assemblies. But on closer examination we shall find that the effects of the feudal system upon agriculture are not to

¹ London: J. Murray, 1867.

² In drawing up the following statement we have chiefly consulted the "Statistique ministerielle de la France," and the admirable works of Moreau de Yonne; and also Lavergne, "Économie rurale." The latter gives much information respecting the earlier state of things, which now and then, however, requires examination and correction.

be looked for in this direction. We cannot rank the authority of the revolutionary orators very high, both because they had a political interest in breaking up the large estates for the advantage of the city proletaries, and because they always showed themselves fabulously ignorant of statistics. If we examine the state of things before 1789 we shall find that - apart from the feudal tenures and the church property - even the old French law of inheritance by no means favored the accumulation of estates. The nobility, indeed, were often heard to complain that the roturiers were constantly getting possession of land; which is intelligible enough, since the moneyed classes were continually gaining ground on the ancient aristocracy. It follows that there was nothing in the circumstances of the age to render the division of land impossible; and one of the most credible witnesses, after three years' investigation in all the French provinces, tells us, as the result of his observations, that about a third of the land was held by small proprietors, who were sufficiently prosperous in Flanders, Alsace, Bearn, and the north of Bretagne; but in other parts, especially in Lorraine and Champagne, poor and miserable. The division of property, he observes, is carried to too great an extent: "I have frequently seen properties of ten roods with a single fruit-tree; excessive division ought to be forbidden by law." The witness is Arthur Young, one of the first agriculturists of the period in Europe, who gave this testimony after indefatigable inquiry; and his report is confirmed by native authorities. "The subdivision of land," says Turgot, "is carried to such an extent that a property only in a un ent for " The one family is divided among five or si landed estates," writes an inter ip syste-. Oke matically to a very alarming dep o; the lds are divided and subdivided ad infinitum."¹ Such was the case among the small proprietors; the other two thirds of the soil was entirely in the possession of the great land-owners, -- consisting partly of the nobility and clergy, and partly of magistrates and financiers. We shall presently inquire in what

¹ Quoted by Tocqueville, "L'Ancien Régime," p. 60.

manner th of all obse enough to yet humble was entire prictors of of which po the country great lande tors of the four million figures with number of other; and, the same in over the surf these relation cipation of th middle class the land. I able result. and socialist lead to the nothing but the very cont facts. The f agricultural afresh. Let of the soil and

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¹ Cochut, " Rev politique," p. 325, c

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manner they turned their lands to profit; but we may first of all observe that a middle class of proprietors, substantial enough to derive from their land a sufficient livelihood, and yet humble enough to be bound to constant and diligent labor, was entirely wanting. In the present day the landed proprietors of France may be divided into three sections, each of which possesses about one third of the productive soil of the country. Eighteen million hectares belong to 183,000 great landed owners; fourteen millions to 700,000 proprietors of the middle class, and fourteen millions to not quite four millions of peasant owners.¹ When we compare these figures with those of the pre-revolutionary period we find the number of poor possessors exactly corresponding to one another; and, what is very remarkable, they are almost exactly the same in 1831 as in 1815. The most fearful storms pass over the surface of the land without producing any change in these relations. But what the movement of 1789 - the emancipation of the soil, and civil equality — did produce is this middle class of proprietors, which now possesses one third of It must be confessed that this is a most remarkthe land. able result. How often has it been announced by feudalists and socialists that entire freedom of trade would inevitably lead to the annihilation of the middle classes, and leave nothing but millionnaires and proletaries! We here see the very contrary proved by one of the grandest historical facts. The feudal system, by its restrictions, crushed the agricultural middle class; the rule of freedom created it afresh. Let us, however, consider the position of these lords of the soil and their dependents more closely.

The first fact which meets us in this investigation is an unhappy one. It was only an excessively small minority of the great land-owners who concerned themselves about their estates and tenants. All who were at all able to do so hurried away to the enjoyments of the court or the capital, and only returned to their properties to fill the purse which had been emptied by their excesses. There they lived in

¹ Cochut, "Revue de Deux Mondes," September, 1848; Rossi, "Économie politique," p. 325, et seq.

miserly and shabby retirement; sometimes in wretchedly furnished castles, shunned by the peasants as pitiless creditors; sometimes in the midst of forests and wastes, that they might have the pleasures of the chase close at hand. They took as little interest in intellectual subjects as in agricultural affairs, and cherished little or no intercourse with their neighbors, — partly from parsimony, and partly from the entire want of local roads. When the period of fasting was over, they rushed cagerly back to the alluring banquets of Paris and Versailles. The number of exceptions to this melaneholy rule was so small as to exercise no influence on the general condition of the country.

While these gentlemen were squandering the produce of their estates in aristocratic splendor, their fields were let out in parcels of ten or, at most, fifteen *hectares*, to the so-called *métayers*, who did not pay a fixed rent, but generally half the gross produce, and received from the owner, in return, their first seed-corn, their cattle, and agricultural implements.¹ This system yielded a wretched existence for the tenants themselves, and reduced the estates to a miserable condition, but it brought the owners a large though uncertain income. The latter, who only saw their estates as travellers, were accustomed to farm out the collection of their dues, generally to a notary or an advocate, who treated the tenants with merciless severity.

The peasants, in their turn, neglected the cultivation of corn — of which they had to give up a moiety — for any chance occupation the whole profit of which fell to themselves; they used their oxen rather for purposes of transport than for ploughing, fattened their geese in their own wheat fields, and, above all, introduced the system of alternating crop and fallow, in order to get a greater extent of pasture, and consequently a larger number of cattle. This was a personal gain to themselves, but evidently brought no advantage to the estate. A system of tillage, in short, prevailed without industry, without science, and, above all,

¹ Quesnay in Daire, "Physiocrates," p. 219, et seq.; Young's "Travels," 2d ed. vol. i. p. 355; Lullin de Chateauvieux, vol. i. p. 270.

without c amount of *métairies* while in E two hundre wretched a to eight hbeing from time obtair the peasan the produce his family, The man w tion soon 1 stantly incr Quesnav, in of France, 9,000,000 / aperture in people had r thick, wooll barefoot, and food of the ing a piece but besides districts no ple was in a Books and ne reading and y on their pasto who very seld The Church v intellectual s their religiou

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¹ Arthur Youn of France, 66 fran ² This is still t ³ Reports of th

CAUSES OF THE FRENCH REVOLUTION.

without capital. It has been calculated that the average amount of capital employed at that period in the French métairies was from forty to sixty francs to the hectare : while in England, at the same time, the average amounted to two hundred and forty francs.¹ The result was, of course, a wretched one; they only reckoned upon a crop of from seven to eight hectolitres of wheat to the hectare, - the increase being from five to six fold; while the English farmer of that time obtained a twelve-fold increase. It was impossible for the peasant under such circumstances to gain a livelihood; the produce of ten hectares was scarcely sufficient to support his family, and sale and profit were out of the question. The man who is thus condemned to pass his life in starvation soon learns to fold his hands in idleness. A constantly increasing extent of country lay uncultivated, which Quesnay, in 1750, estimated at a quarter of the arable land of France, and Arthur Young, in 1790, at more than Millions of rural dwellings had no 9,000,000 hectares. aperture in them but the door, or at most one window;² the people had no clothing but a home-made, coarse, and yet not thick, woollen cloth; in many provinces every one went barefoot, and in others only wooden shoes were known. The food of the people was gruel with a little lard; in the evening a piece of bread, and on great occasions a little bacon; but besides this no meat for months together, and in many districts no wine at all.³ The mental condition of the people was in accordance with their external circumstances. Books and newspapers were as little known in the villages as reading and writing. The peasants depended for instruction on their pastors and parish clerks, proletaries like themselves, who very seldom got beyond the horizon of the church steeple. The Church was, after all, the only institution that threw an intellectual spark into their wretched life; but unfortunately their religious impulses were strongly mixed with barbarism

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¹ Arthur Young, vol. i. p. 435. The elder Mirabeau reckons for the whole of France, 66 frances to the *arpent*.

² This is still the case.

³ Reports of the Prefects to the Ministry, 1803.

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and superstition. In many large districts of the south the peasants had no other idea of a Protestant than as of a dangerous magician who ought to be knocked on the head. Their own faith, moreover, was interwoven with a multitude of the strangest images of old Celtic heathenism. Of the world outside they heard nothing, for there was next to no traffic or travelling in the country. There were some royal roads, magnificently made, and sixty feet in breadth, - splendid monuments of monarchical ostentation. On these, however, up to 1776, only two small coaches ran,¹ throughout the whole of France; and the traveller might pass whole days without getting sight of any other vehicle.² Only few villages, in the most favored provinces, possessed cross-roads to these great highways, or to the nearest market town. And thus the whole existence of these people was passed in toil and privation; without any pleasures except the sight of the gaudy decorations of a few church festivals; without any change, save when hunger drove an individual, here and there, to seek day-labor in the towns, or into military service. It was seldom that such a one ever returned to his father's house, so that his fellow-villagers gained no advantage from his wider experience.

Under these circumstances the relation between peasant and lord was naturally a deplorable one. What we have already said sufficiently characterizes a community in which all the enjoyments fell to the rich, and all the burdens were heaped upon the poor. In aristocratic England at this period, a quarter of the gross proceeds was considered a high rent for a farm, and the owner, moreover, paid large tithes and poor-rates.³ In France, half the proceeds was the usual rent; and the owners were exempted by their privileges from many public burdens, which fell with double weight upon the wretched *métayers*. Thus, the produce of the French land, as compared with the English, was nine to fourteen, while the rents of an English land-owner were at

¹ E. Daire, "Introduction aux Œuvres de Turgot."

² Young's "Travels."

⁸ Yvernois, " Tableau des Pertes," etc.

French lan The defi affected th to this he forced labor and by the landlord, w sible, wishe paying his longed, like these two cl had nothing and enjoyme habitants of each other r the peasant dearest wish registers of existed; but the melancho In Anjou the Bretagne and peasants were Poiton was th allowed them life. The no of his domain his peasants. necessary stoc their cattle;² of; the laborer the godfather seen going to for them as adv however, did n

> ¹ Young. ² Sauvegrain,

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the rate of two and three fourths per cent, and those of the French land-owner three and three fourths per cent.¹

The deficiency in the product of the land, therefore, affected the gains of the little farmer doubly. In addition to this he was burdened by a number of feudal services, by forced labor on the lands of his lord, by tithes to the Church, and by the obligation to make roads for the State. The landlord, who tried to sell his rent in kind as dearly as possible, wished for high prices of corn; the peasant, who, after paying his dues, did not raise enough for his own family, longed, like the city proletary, for low prices. In short, these two classes, so intimately connected with one another, had nothing at all in common; in education, in interests and enjoyments, they were as widely separated as the inhabitants of different quarters of the globe, and regarded each other respectively with contempt and hatred. When the peasant looked upon the towers of his lord's castle the dearest wish of his heart was to burn it down, with all its registers of debt. Here and there a better state of things existed; but we can only bring forward two exceptions to the melancholy rule, extending over large tracts of country. In Anjou the system of *métairie* prevailed, as in Lower Bretagne and Guienne; and yet in the former province the peasants were prosperous, and the noblemen beloved. Lower Poiton was the only province from which the nobles had not allowed themselves to be enticed into the whirlpool of court life. The nobleman dwelt in his own castle, the real lord of his domains, the cultivator of his fields, the guardian of his peasants. He advanced them money to purchase the necessary stock, and instructed them in the management of their cattle;² the expulsion of a tenant was a thing unheard of; the laborer was born on the estate, and the landlord was the godfather of all his farmers' children. He was often seen going to market with his peasants, to sell their oxen for them as advantageously as possible. His mental horizon, however, did not extend beyond these honorable cares; he

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² Sauvegrain, "Considérations sur la Population," etc. Paris, 1806.

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honored God and the King, labored in his own fields, was a good sportsman and toper, and knew as little of the world and its civilization as his tenants.

In the north of the kingdom a more modern state of things had grown up. There, wealthy farmers were to be seen. who held their land on lease at a fixed money rental,which was settled according to the amount of the taxes to which they were liable, - and who brought both skill and capital to the management of their land. This was the regular practice in Flanders, Artois, Picardy, Normandy, the Isle of France, and other smaller districts. In these parts the landlords had a certain revenue, and their land yielded twice as much as that which was in the hands of the métayers. The whole country wore the appearance of a garden, and the poorer neighbors found lucrative employment at the stately farmhouses. These were the same provinces in which Arthur Young met with small proprietors in a tolerable condition. If a peasant in this part of the country possessed a small strip of land near his cottage, large enough to grow some vegetables, food for a goat, or a few vincs, he earned sufficient to supply the rest of his wants, in day wages, from the farmers, or, as a weaver, from the neighboring manufacturers.

His was a condition similar to the normal one of the peasant proprietors in France at the present day; who are not reduced farmers, but laborers who have invested their savings in land.¹ It was more difficult for these people to make a livelihood at that time than now, because there were fewer manufacturers and wealthy agriculturists. Except in the above-mentioned provinces, these petty proprietors were equally wretched and hopeless with the *métayers* by whom they were surrounded; their only object was to rent a *métairie* in addition to their own pittance of land. They were in fact entirely lost sight of among the *métayers*; and this is the reason that French writers, in their descriptions of the so-called *petite culture* (plot farming), never make any special mention of them, but always confound them with the

1 Rossi, l. c.

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more num authorities vated in a 9,000,000 fore, was and the mIn Franc are cultiva 8,000,000 1 rent; and wealthy la French Rev only did i greatly pron four million ture, and an The breadth same as bef the properti age their ov zealous indu capital. Th great, and th little improv seigniorial r tasks to exa the Revoluti population.

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¹ Quesnai, Turg ² On this point Lavergne's figures

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more numerous class by which they were surrounded. All authorities are agreed in estimating the amount of land cultivated in small parcels at 27,000,000 hectares, while only 9,000,000 were held at a money rent. The former, therefore, was nearly equally divided between the small owners and the *métagers*, who paid their rent in kind.

In France, at the present day, nearly 23,000,000 hectares are cultivated by small proprietors and métayers; about 8,000,000¹ (the same as in 1780) by tenants paying a money rent; and rather more than nine and a half millions by wealthy landlords.² Hence we can clearly see what the French Revolution has done for French agriculture. Not only did it create the middle class of land-owners, but greatly promoted a more rational system of tillage. About four million hectares have been rescued from the petite culture, and an equal number redeemed from utter barrenness. The breadth of land standing at a money rent is exactly the same as before the Revolution. The increase is entirely in the properties of rich or substantial land-owners, who manage their own estates, - which indicates a change to more zealous industry, coupled with the employment of greater The extent occupied by the *métayers* is still very capital. great, and the condition of those who are subject to it but little improved, notwithstanding the abolition of socage and seigniorial rights. It will be one of our most important tasks to examine the several events and tendencies of the Revolution in relation to their effects on the rural population.

If we turn our attention to the towns of ancient France we find that similar causes produced effects corresponding to those we have just described. The civic offices, to which persons had formerly been elected by the districts or the guilds, had been frequently filled up by the crown in the seventeenth century; and in the eighteenth, the great majority of them were sold in hereditary possession to fill the ex-

¹ Quesnai, Turgot, Young.

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² On this point Lullinde, Chateauvieux, and Cochut are in the main agreed. Lavergne's figures are somewhat different, but the general result is the same.

chequer.¹ The government of the towns, therefore, was in the hands of a close corporation consisting of a few families, who, generally speaking, allowed themselves to be infected with the indolent and self-seeking spirit of the central government. Associated with these were the families of the moneyed aristocracy, the members of the great financial companies, the farmers of the indirect, and the collectors of the direct, taxes, the shareholders of the trading monopolies, and the great bankers. These circles, too, were either legally or virtually closed to the general world. The bourse was ruled by an aristocracy, to which only birth, or the permission of government, could give access. Their activity was of course necessarily centred in Paris. Indeed, they stamped their own character on this city to a degree which would be impossible in our age, notorious though it be as the epoch of the rule of paper. Every one knows to what a dizzy and ruinous height stock-jobbing was carried by Law in the beginning of the century; and from that time forward its operations were never suspended, and all who had wealth or credit engaged in it with reckless greediness. Kings, nobles, ministers, elergy, and parliaments, one and all, took part in these transactions; and the chronic deficit, and increasing debts, of the treasury afforded constant opportunities of involving the State, and making a profit out of its embarrassments. We may confidently assert that, as compared with the present day, the speculative swindling of that age was as prevalent and as shameless as its immorality. Paris was not at that time a manufacturing town, and its wholesale trade was insignificant; with few exceptions, therefore, the industry of the city consisted in retail trade and the negotiation of bills of exchange. It is not the least characteristic feature of the indolent and selfish licentiousness into which the higher classes of a great nation had fallen, that of all securities, life annuities were most in favor; by means of which the purchaser procured high interest for himself, while he robbed his children of the capital.

¹ Depping, "Correspondance administrative de Louis XIV.," vol. ii., Introduction.

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The trade and commerce of the whole empire was fettered by the restrictions of guilds and corporations. The principles on which they were conducted dated from Henry III., who was the first to promulgate the proposition that the king alone can grant the right to labor, -a maxim which contains the whole doctrine of the socialists from a monarchical The masters of every handicraft managed point of view. its internal affairs, allowed no one to practise it who did not belong to their guild, and admitted no one to their privileges until he had passed an examination of his qualification before themselves. Originally many trades were free from this organization, until these too were injuriously affected by the financial necessities of the State, - when the exclusive rights of a guild were sold to the artisans, as their offices were to the judges. The government soon further proceeded to divide each trade into several guilds, and made an exclusive corporation of the most insignificant occupa-Thus the workers in ebony were distinguished from tion. the carpenters, the sellers of old elothes from the tailors, and the pastry-cooks from the bakers. The fruit-women and flower-girls formed separate exclusive associations, regulated by formal and binding statutes. In the guilds of the seamstresses, embroiderers, and dress-makers, only men were admitted to the privileges of masters. A number of these statutes, by imposing excessive fees and duties, rendered it doubly difficult for an apprentice, however capable, to obtain the rank of master. Other enactments only admitted the sons of masters, or the second husbands of the widows of masters, to the privileges of the guild. In short, the power of the State was abused in the most glaring manner for the furtherance of exclusive class interests. Those who did not belong to this aristocracy of trade, could only support themsclves by the labor of their hands, in a state of eternal servitude. Despair and famine drove the peasants from the country into the towns, where they found no employment open to them but that of day-laborers. The important influence which this system exercised over the State was clearly understood, both by the privileged and the excluded classes.

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When Turgot abolished the guilds in 1776, the parliament of Paris, the princes, peers, and doctors, unanimously declared that all Frenchmen were divided into close corporations, the links of a mighty chain extending from the throne to the meanest handicraft; and that this concatenation was indispensable to the existence of the State and of social order. It was not long before the guilds were re-established in accordance with this declaration; we shall see how the journeymen and apprentices replied to this unctuous manifesto some fifteen years later.

The great manufacturing interests of the country were confined by the same narrow restrictions. Since the time of Colbert, who was the real creator of them, manufactures had been the darling child of the government; and, as is usually the case with darling children, had been petted and tyrannized over at the same time. When Colbert began his operations France produced neither the finer kinds of cloth nor stockings, neither silks nor glass, neither tar nor soap. The previously existing handicraft, which had been for a century in the fetters of the guild, had done so little to develop the native manufacturing talent of the country that the minister was obliged to introduce German, Swedish, and Italian workmen. To secure a sale in foreign countries he prescribed with great exactness the sort of fabric which he wished to be produced; and to prevent competition from without, he enacted a number of prohibitory and protective duties. Here, again, the power of the State intruded itself into the sphere of private business, to the advantage of the manufacturer and the injury of the consumer. The same system was continued by his successors with still worse effects, because it was carried out with all the fickleness and irregularity of Louis XV.'s government. It is true that manufacturers made great progress, and increased their annual products six-fold from the time of Colbert to that of Necker.¹ But the statutes became more oppressive every year; every new invention and improvement was excluded by them; and after 1760 no legislation could keep pace with

¹ This was the proportion in the woollen manufacture.

the progres everywhere adapted the men, but direction. hands were than 17,300 years later. 18,000,000 mated at no the aristocra digence of displayed. advantages o foreign count and injurious to protect ma on the intere They accuston apply the wo classes in the of the latter in yet philanthro them to suppl cost of the ag protective and deerees were is other raw agric of the hectolitre nineteen to two than eight franc price rose to r followed the sa Turgot; but a more to twelve tion. The city nowhere in the ¹ Melier, in vol. x.

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the progress of machinery. Manufacturers, therefore, as is everywhere the case under such circumstances, no longer adapted themselves to the natural wants and capacities of men, but immediately took an artificial and aristocratic During Colbert's ministry, while only 60,400 direction. hands were employed in the manufacture of wool, no less than 17,300 were engaged in lace-making; and a hundred years later, while the manufacture of soap only produced 18,000,000 of francs a year, that of hair-powder was estimated at not less than 24,000,000. The contrast between the aristocratic luxury of the rich and the uncleanly indigence of the populace can hardly be more glaringly displayed. Agriculture experienced in every way the disadvantages of a system which erippled communication with foreign countries, raised the price of farming implements, and injuriously affected the home trade. In their eagerness to protect manufactures the government had learned to look on the interests of agriculture as of secondary importance. They accustomed themselves, like the modern socialists, to apply the word *people* exclusively to the manufacturing classes in the towns; and though they sacrified the interests of the latter in a thousand ways to the privileged monopolist, yet philanthropy and love of quiet co-operated in inducing them to supply the necessities of the poorer artisans, at the cost of the agricultural population. As supplements to the protective and prohibitory duties in favor of manufactures, decrees were issued forbidding the exportation of corn and other raw agricultural products. By these artifices the price of the *hectolitre* of wheat, which on the average is at present nincteen to twenty francs, was in 1764 forced down to less than eight francs.¹ Choiseul then opened the trade, and the price rose to more than fifteen francs. A similar result followed the same measure in 1775, during the ministry of Turgot; but a return to protection reduced the price once more to twelve and three fourths francs, until the Revolution. The city artisans had tolerably cheap bread, but nowhere in the kingdom were the farmers prosperous. In

¹ Melier, in vol. x. of the "Mémoires de l'Académie royale de Médecine."

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spite of the most violent complaints from all the provinces, the cause of the evil, and consequently the evil itself, remained unchanged. The government adhered to the convietion that it was their immediate duty to provide for the maintenance of the population of the towns. It seemed to them a matter of course that the State should use its political power for the advantage of its rulers and their favorites. No one considered the remoter consequences of such a principle; no one asked the question, "What if this power should fall into democratic hands ?"

Let us endeavor to obtain a general view of the wealth of France at this period. From the imperfection of official information the task is a difficult one, and its results uncertain. Even an approximation to the truth, however, will not be without interest, since, in order not to bring forward unmeaning figures, we shall constantly institute a comparison with the now existing state of things.

The well-informed Tolosan, the only authority on this subject, estimates the total produce of manufactures at nine hundred and thirty-one million francs; that of handicraft at sixty millions. At the present day 1 the manufactures of Eastern France alone, not reckoning handicraft, produce 2,282 millions; the sum total therefore has been at least quadrupled. At the former period it amounted to thirtynine francs per head of the whole population; at present we might unhesitatingly place it at more than one hundred per The emancipation of the internal trade since 1789 has head. not raised the amount of property produced, but - what has so often been called in question - has favorably influenced the manner in which it is distributed. The daily wages of the manufacturing laborers in 1788, according to a rather high estimate, were for men twenty-six sous, and for women fifteen.² They are now, according to the most numerous and trustworthy observation, forty-two sous for men, and twentysix for women. The daily wages of the agricultural laborers,

¹ In 1853. In 1860 a total of five milliards was reached. Boiteau, "État de la France en 1789," pr. 506.

² Boiteau thinks 19 to 20 sous.

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¹ Lavergne says 2 ² Before 1789 the bread. — Moniteur, 1: ⁸ Young, "Assem

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too, can certainly not be reckoned at more than fifteen sous¹ for the year 1789, or less than twenty-five² in the present day. If we further take into account the very considerable increase in the number of working days, arising from the abolition of thirty holidays, we shall find the annual wages of the earlier period to be little more than half what they now are, namely, three hundred and fifty-one francs for the manufacturing, and one hundred and fifty-seven for the agricultural laborer, against six hundred and thirty, and three hundred at the present day. To appreciate the significance of these results we must compare the prices of provisions at these two periods. It appears, then, that before 1789 bread was considered very cheap at three sous per pound, and it was only in Paris that this rate was a common one; in the provinces the price was generally higher. In our own times the average price for the whole of France from 1820 to 1840 was seventeen centimes, while at Paris, in 1851, it was fourteen cents, - less, therefore, than the old rate of three sous. This seems out of proportion to the price of corn, since the hectolitre of wheat in 1780 cost from twelve to thirteen frances, and in 1840 from nineteen to twenty. This apparent incongruity, however, is accounted for by the improvement in the method of grinding and baking, by which a third, or even a half, more weight of bread is now obtained from the same quantity of corn than in the former period.³ We find, therefore, that the laborer received for his wages little more than half the quantity of bread which the modern workman car obtain for what he earns. The same proportion holds good in other kinds of food, and in regard to clothing the comparison is still more unfavorable to the ante-revolutionary period.

We shall discover the determinate cause of these differences when we come to consider the main wealth of the French empire, — the produce of the soil in the widest sense

¹ Lavergne says 30 sous (p. 57).

² Before 1789 the septier (240 pounds) of wheat yielded only 180 pounds of bread. - Moniteur, 12 July, 1792, supplement.

⁸ Young, "Assemblée Nationale," 15th Jan., 1700, 11th Aug., 1791.

of the word. It would carry us too far if we were to examine every branch of the subject, and discuss all the difficulties connected with it; it will be sufficient to dwell on a few of the principal points of interest. Of wheat, the great staff of life, the soil of France produced before the Revolution about 40,000,000 hectolitres, or one hundred and sixty-seven litres per head of the population; and in 1840, 70,000,000, or two hundred and eight litres per head. At the former period the number of cattle was calculated at 33,000,000 head, and at the present day at 49,000,000; and there is an equal increase in the number of the other domestic animals. The vineyards formerly yielded 27,000,000 hectolitres, and at present 37,000,000, so that the proportion per head is at any rate not lower than it was.¹ And if we take into consideration that a number of useful agricultural products were at that time unknown, that a violent controversy was carried on about the wholesomeness of potatoes, that the forests were allowed to run to waste far more than at the present day,² we shall not be astonished that the best statist of modern France estimates the vegetable product of the French soil (which now exceeds in value the sum of 6,000 millions) at not more than 2,000 millions at the period before the Revolution.³ The importance of this fact is sufficiently evident; and we may gain an idea of the state of the population before 1789 by remembering that even now the total consumption of food in France is not greater in proportion to the population than in Prussia, and much less than in England.⁴

Respecting commerce, the third great branch of national wealth, I have but little to say. I am not aware that any statistical data exist of the internal traffic of France before

¹ Moreau de Yonnès, from contemporary sources. I have followed him because space does not allow me to give my reasons for thinking a much more unfavorable state of things in 1770 highly probable.

² "Mémoire remis aux Notables, 1781;" Young's "Travels," 2d ed. vol.¹¹ p. 106; Morcau, "Agriculture," 366.

⁸ The calculation of Young agrees with this. Tolosan, Dedeley $d^{\Lambda}G^{\text{iet}}$, Lavoisier, make amounts higher. (Boiteau, "État de la France en 1789," p. 481, compares their statements.) But the uncertainty of their calculations is very perceptible.

⁴ Communications from the Prussian Statistical Bureaus, 1851.

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the Revolution; it was, no doubt, smaller than at the present day, in consequence of the multitude of inland duties. And with regard to the foreign commerce of the earlier period, we have no means of dividing the sum totals which lie before us into the value of the raw materials and the cost of manufacture, on the one hand, and the clear profits of trade, on the other. It must suffice us to gain a general idea of the relation between the two periods from the summary statement that in the custom-house registers immediately before the Revolution the annual imports are stated at 576,000,000, and the exports at 540,000,000, while as early as 1836 the former amounted to 905,000,000, and the latter to 961,000,000, and in 1857 both Imports and exports had risen to a value of more than 1,800,000,000. Taking all in all, therefore, France under the old monarchy was four times as poor in manufactures, three times as poor in agriculture, and more than three times as poor in commerce, as it is in the present day. We must bear this result well in mind when we try to form a judgment respecting the finances of the ancien régime. A budget of six hundred millions weighed as heavily upon the resources of the country at that period as a budget of 1,800,000,000 would now, and consequently a deficit of 100,000,000 was equivalent to one of 300,000,000 in our own times. Such a deficit actually existed when Louis XVI. mounted the throne. It is therefore easy to conceive that his attention should be strongly turned to the restoration of the balance between income and expenditure, and that his vain endeavors in this direction should shake the fabric of the State to its very foundation.

A whole volume would be necessary to detail the different schemes of reform which were brought forward between the accession of Louis XVI. and the outbreak of the Revolution. It will be sufficient for our purpose to notice the chief points, which have an important bearing on the antecedents and the actual events of that mighty movement.

Louis XVI. himself, as no one can doubt who has approached the sources of the history of this period, entered on the task of government with a heart full of piety, philan-

thropy, and public spirit. He was earnest and pure-minded, penetrated by a sense of his own dignity and the responsibilities attached to it; and firmly resolved to close forever the infamous paths in which his predecessor had walked.

But unhappily, his capacity bore no proportion to his goodwill. He was incapable of forming a decision; his education was deficient; he was awkward both in person and speech, and slow of comprehension. As he had a very limited knowledge both of the people and the condition of his empire. the selection of his ministers was, from the very outset, determined by accident, the influence of his aunts, his queen, or the contending court factions; and as he was immovable wherever morality was concerned, but utterly helpless in the practical execution of his ideas, his was just a case in which almost everything depended on the aid of his nearest advisers. He possessed just sufficient sense of justice and benevolence to encourage every effort for useful reforms, but lacked entirely that firmness of an enlightened judgment which knows how to bring about a positive result in spite of the opposition of existing interests. The inevitable consequences soon showed themselves. Anarchy, which under Louis XV. had reigned in the minds of men, now broke forth into overt acts. The sufferings of the people, which individuals had hitherto borne in silent apathy, now occupied the attention of the masses.

The same chance which in his reign directed the management of public business had given him, as his first minister, Turgot, the greatest reformer of the day.

This great minister's strokes fell heavily on the existing system in every direction. Among his measures we find free trade in corn, abolition of the *corvée* in the country districts, liberation of trade from the trammels of the guilds, the erection of the *caisse d'escompte*,¹ a number of improvements and alleviations in the mode of raising the public taxes, and a prospect held out to all possessors of property, of a gradual increasing share in political rights; and it is under these

¹ An institution for lending money for the furtherance of manufactures and commerce.

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heads that the restless activity of this liberal statesman may be best arranged. We may easily conceive that there was scarcely one of the privileged classes which did not consider its previous existence imperilled.

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Opposition rose in every quarter; the courtiers, the parliaments, the landed aristocraey, and the members of the guilds all threw themselves into an attitude of defence with noisy zeal. The contest penetrated into the royal family itself, — Louis's younger brother, Count Charles of Artois, abused the minister, who, he said, was undermining the aristocracy, the prop and rampart of the throne; and a cousin of the king, the rich and abandoned Philip, Duke of Orleans, began, amid the general excitement, to play the demagogue on his own account. Then for the first time a spectacle was seen in Paris which was subsequently repeated in ever darker colors, — the spectacle of the police authorities of the capital stirring up the mob against the erown, and on this occasion in the interest of the privileged classes.

At first Louis XVI. declared that he and Turgot were the only triends of the people, and stood firm against the parliament of Paris and the street rioters; but he was not proof against the feebleness of his own character and the wearing After influence of those by whom he was daily surrounded. an administration of nearly a year and a half Turgot was obliged to yield to the reaction of the ancien régime, and almost all his creations collapsed at once. Then followed a long period of experiments and palliatives; the successors of Turgot would gladly have gone on in the broad track of traditional privileges if their increasing financial difficulties had left them any peace. It was just at this time that Louis resolved to support the North Americans against England, which he really did against his own will and the views of his ministers, who dreaded the expense of a great war, and elearly saw that the emancipation of the colonies would not weaken England. But the undefined longing for freedom, and the liberal political doctrines which had taken root far and wide in the land prevailed over the scruples of the king and his counsellors. The Marquis of Lafayette, then a

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tall, light-haired youth, full of vanity and ambition, who, on account of his ungraceful manners, had no success at court, fitted out a ship at his own expense and sailed across the Atlantic. A number of influential persons cried out for vengeance upon England for the humiliation sustained in the Seven Years' War; in a word, the warlike party carried their point, and war was declared against England. The consequence to France was a rapid spread of democratic sentiments on the American pattern. The followers of Rousseau were triumphant; here, they said, might be seen the possibility of a democracy on a broad basis, - the construction of a State on the foundation of the natural rights of man. Another consequence of the war was to throw fresh burdens on the public exchequer. The minister of finance at this time was Necker, a native of Geneva. Having come to Paris as a poor clerk, he had risen by his talents and skill in business to the position of a rich banker, and with great self-complacency had made his house the *rendezvous* of the more distinguished members of the liberal party. By his influence with the bourse he procured a certain degree of credit for the State, and raised loan after loan to the amount of five hundred millions, without any increase of the taxes, or any provision for a liquidation of the debt incurred. This was evidently sacrificing the future to the present, since the deficit became larger every year, as the interest of the public debt increased. Necker had the real merit of bringing some of the departments of finance into better order; he enjoyed for the time being unbounded popularity, and basked with delight in the universal acknowledgment that he was the greatest statesman in Europe. Public confidence was freely given to a minister who endeavored to found his administration on credit alone, - that is, on the confidence of mankind. He was looked on as a perfect hero when he introduced, with good results, provincial assemblies into Berry and Guienne, and soon afterwards, breaking through all the traditions of the ancient monarchy, published a detailed, but unfortunately very inexact and highly colored report on the state of the finances. But as he nowhere laid

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the axe to the root of the evil, he only roused a number of powerful interests by his attempts at innovation, but was utterly unable to close the source of financial confusion. He, too, soon saw no other means of recovery but limitation of the budget, and economy in the expenses of the court; by avowing which he made himself hateful to all the grandees of the antechamber, and was deprived of his office in May, After two insignificant and inexperienced ministers 1781. had exhausted their strength in the years immediately following, the intendant of Lille, the gifted but frivolous Calonne, was called to the helm. He began with the proposition that whoever wished for credit must cultivate luxury; and he renewed the prodigality of the court in the style of Louis XV. After matters had gone on in this jubilant course for some years, and the public debt had been increased by four hundred millions, and the taxation by twenty-one millions, the ruin of the country became palpable at the beginning of the year 1787, and the catastrophe inevitable.

Let us here east a glance at the budget of the ancien régime, the disorder of which was to give the signal of convulsion to every quarter of the civilized world. After Necker and Calonne, the Notables and the Revolution, have quarrelled about its contents with equal mendacity, this budget now lies in its most secret details before the eyes of the historical inquirer.¹

And first, with regard to the national income, which, as is well known, amounted to about five hundred millions before 1789, nearly eight hundred under Napoleon, and then increased during the period between 1815 and 1848 to 1,500 million francs. However definite these figures may appear, we can by no means draw a conclusion from them as to the cheapness of the respective modes of government abovementioned. We have already observed that in proportion to the national wealth a taxation of five hundred millions before 1789 would be about equivalent to one of 1,500 millions at the present day. In the next place, we must make several additions to the round sum of five hundred millions.

¹ Bailly, "Hist. financ. de la France," ii. 278.

The income of the State in the year 1785 was calculated at five hundred and fifty-eight millions, to which were added forty-one millions more for the local administration of the provinces, a sum which was never paid into the treasury, but immediately expended in the different places where it was raised. Thus we find that the nation was bearing an annual burden of from five hundred and ninety-nine to six hundred millions. At the same time the Church, whose expenses now figure in the budget of the State, raised one hundred and thirty-three millions in tithes, and sixteen millions in other dues and offerings.¹ The fees, which served as a complement to the judicial salaries, amounted to twenty-nine millions:² the seigniors raised about 2,500,000 in tolls of various kinds. and at least 37,000,000 in stamp duties.³ I pass over the feudal rents and services, the valuation of which is quite impossible. These, from their very nature, cannot be taken into account in speaking of the public burdens, and may very well be set off against the mortgage debts of the modern peasant proprietors.

The items already mentioned, however, in addition to some of a similar character, amounted to two hundred and eighty millions, so that the French people had at that period to bear a total annual taxation of eight hundred and eighty millions. If we compare this sum with the national wealth, we may unhesitatingly set it down as equivalent to an amount of 2,400 millions at the present day; it follows, therefore, that from the time of Louis XV. to that of Napoleon III. there existed but one government in France which appropriated to itself a still larger proportion to the public income than the *ancien régime*, and that one was the government of the Jacobins during the Reign of Terror. The Empire, the Restoration, and Louis Philippe contented them-

¹ Louis Blanc, b. iii. c. 3, estimates them, according to other authoritics, not at 16, but at 30 millions.

² According to other estimates, 42 millions. Boiteau, "État de la France (* 1781." Paris, 1861.

³ For the sake of brevity I use this term to denote all the fees paid on change of property, e. g., lods, relods, quints, etc.

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selves with counterpart When we among the d ing inequali from taxatio the taxes on dred and eigh of the land a one millions Revolution, to millions more the maintena kept up by m and further, tl and one fourth the lower clas millions quote peasants, the f responsible for rich fellow-cit privileged offic the imposition helpless multitu easily understan the peasants m of the utter dest Great as was income, the gov of ever-increasin one side and sel to the wind. T istration as in ganize it on an end is view; on tions, distinguis or sources of inc tion, existed si

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selves with far smaller sums; here, too, feudalism finds its counterpart among the socialists.

When we inquire into the distribution of these taxes among the different classes of the people, we discover a glaring inequality. The higher ranks were not indeed exempt from taxation, but they were in many respects favored. Of the taxes on consumption, which were valued at three hundred and eight millions, they bore of course a full share; but of the land and capitation taxes (one hundred and seventyone millions) they ought, as was discovered during the Revolution, to have paid, on a fair distribution, thirty-three millions more than they actually did. In the next place the maintenance of the public roads, which were entirely kept up by means of the corvée, at a cost of twenty millions, and further, the expenses of the provincial militia, about six and one fourth millions, rested entirely on the shoulders of the lower classes. If we take into consideration the forty millions quoted above, which the seigniors received from the peasants, the fact that the poorer classes of every town were responsible for the taxes of their commune, even when their rich fellow-citizens escaped payment by the purchase of privileged offices, and lastly, the scandalous unfairness in the imposition of the taxes on consumption to which the helpless multitude was subjected by their superiors, we shall easily understand the triumphant fury with which, in 1789, the peasants more especially received the joyful intelligence of the utter destruction of the system above described.

Great as was the proportion which it exacted of the national income, the government found itself, nevertheless, in a state of ever-increasing need and embarrassment. Disorder on the one side and selfishness on the other scattered its treasures to the wind. The case was the same in the financial administration as in that of justice; no one had ever tried to organize it on any grand principle of wise adaptation to the end is view; on the contrary, a number of isolated jurisdictions, distinguished from one another according to provinces or sources of income or the destination of the funds in question, existed side by side, interfering with each other's

operations and destroying all responsibility. The amount of arrears due the treasury, equal perhaps to half the annual budget, not even the Revolution has been able to ascertain, and it could only get hold of the profits of the farmers of the revenue by means of the guillotine. When once familiarized with deficits the government soon fell into the stream of floating debts. The anticipation of the revenue of future years, at a usurious discount paid to the collectors themselves, the putting off the payment of debts which had fallen due, and the omission of expenditure prescribed by law, were the cause of equally enormous losses, when the day for liquidation at last arrived. How widely this confusion spread may be gathered from the actual cash accounts of the year 1785. By the side of the regular income of the treasury, of not quite three hundred and fifty-seven millions, there is another account of four hundred and ninety-three millions income and four hundred and seven millions expenditure, consisting of items which belong either to the earlier or later years of the period between 1781 and 1787; so that the sum total amounts to nearly eight hundred and fifty millions. We see what a field was opened to speculators and the lovers of plunder, and to what a state such proceedings had reduced the prosperity of an empire which, a hundred years earlier and twenty years later, dictated its will to Europe as a law.

The last feature in this State economy which reveals to us its character is the kind of expenditure in which these treasures collected with so much difficulty were employed. The expenses of the court were stated in the official budget at thirty-three or thirty-five millions, but they were in reality forty millions, which did not include the royal hunting expeditions and journeys, the salaries of the great officers of the court, or the maintenance of the royal palaces. The war office, the cost of which Necker states at ninety-nine millions and Calonne at one hundred and fourteen millions, received one hundred and thirty-one millions, of which rather more than thirty-nine millions went to the administration, fortyfour millions for the pay and commissariat of the troops and forty-six millions for the salaries of the officers.

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¹ We arrive at this ante" (in April. 1790) rouge. Louis Blanc giv

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Entirely removed from all ministerial calculation were the money orders of the king himself "for presents, etc., to courtiers, to the minister of finance and magistrates; repayment of foreign loans; interest and discount to the treasury officials; remission of certain personal taxes, and unforescen expenses of every kind." This class of expenditure, which is well characterized by the above heading, amounted in 1785 to one hundred and thirty-six millions; in other years the sum was rather smaller; but we may fairly assume that the annual average was more than one hundred millions.¹ And while we thus see nothing but abundance and superfluity among the highest classes of society, the bridges and roads are only set down at four millions; the public buildings at scarcely two millions, and the scientific institutions at rather more than one million; for which objects the budget of 1832 and the following years granted fifty-nine millions! The hospitals and foundling institutions received six millions from the State, six from the Church, and had a revenue of twenty-four millions of their own; while the benevolent institutions of modern France (1832) had an annual sum of one hundred and nineteen millions at their disposal. In short, whatever portion of the financial affairs of this feudal state we investigate, we arrive at the same result, and find the people separated into two great classes, one of which was enriched at the cost of the other.

But as every such draining of the wealth of a nation bears within itself the germs of ruin, by drying up on the one hand the sources of income, and increasing on the other the passion for extravagance, the government found itself at the end of 1786 in the following condition: the regular annual income was three hundred and twenty-seven millions; the annual expenditure according to the treasury accounts amounted to three hundred and forty millions; in addition to this there were twenty-seven millions for pensions and seventy-two millions of urgent arrears from former years;

¹ We arrive at this result from the debates of the "Assemblée Constituanle" (in April, 1790) on the pensions, the *ordonnances* à *comptant*, and the *livre* ^{rouge}. Louis Blanc gives a number of details from these in b iv., c. 5.

and las ''.', in the year 1787 there was a loss of twenty-one millions from the cessation of a tax which had only been imposed for a period ending with that year. The deficit, therefore, amounted to one hundred and ninety-eight millions. Up to this time the government had helped itself by all the artifices, both bad and good, of a credit strained to the very utmost and now utterly exhausted. An increase of the taxes was not to be thought of on account of the enormous burdens by which the nation was already crushed. Under these circumstances Calonne, with genial frivolity, recurred to the serious and noble plans of Turgot.

He had hitherto lived on the favor of the privileged classes; he now endeavored by sacrificing them to relieve the commonwealth. He congratulated the State on having within it so many great abuses, by the removal of which new sources of prosperity might be opened.

The opposition which Turgot had met with was of course directed with redoubled fury against Calonne. A closely crowded throng of privileges rose tumultuously against his plans. The court nobility, the provincial estates, the taxcollectors, the courts of law, the police officers, the councillors of the commune, and the heads of the guilds, took up the contest against the will of the king and his ministers. But the development of modern ideas had made such progress that the parties competed with one another for the power of public opinion. The ministry itself emancipated the press in order to expose the advocates of the old system to the national contempt. The young nobles of the court and in the provinces armed the mob of Paris and the peasants of Auvergne against the ministers, and instigated them to violent excesses. An assembly of aristocratic notables, to whom Calonne submitted his schemes of reform, refused their assent, claimed the right of inspecting and superintending every department of the public service, and ended by declaring that, as they were nominees of the king and not representatives of the nation, they were not competent to make new grants. Immediately after their dismissal the parliament of Paris, which next to the ministry was the

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highest authority in the State, brought forward, as a positive demand, what the notables had only negatively suggested. In a formal decree they demanded that an Assembly of the States-general should be called,—an Assembly which the monarchy had dispensed with for two hundred years. The ministry at first received this proposal with great disfavor; but as the want of money grew more and more urgent, the alluring hope arose in their minds of finding in the States-general, which was chiefly composed of burghers, a powerful support against the privileged classes. We shall never understand the extraordinary success of the first revolutionary movements, unless we bear in mind what a large share in the government of the country was possessed by the higher orders and the corporations, and how they now mutually sought each other's destruction.

Calonne was not long able to make head against this noisy opposition. The last of the many blows which caused his fall was dealt by the queen, whom he afterwards persecuted with inextinguishable hatred. His successor, Brienne, after a violent contest with the parliaments, resigned his office when the convocation of the States-general had already been determined on, and the national bankruptcy virtually proclaimed. Louis had recourse to Necker again, who really relieved the financial embarrassment for the moment, and recognizing the necessity of a liberal policy, fixed the meeting of the States-general for the 27th of April, 1789. The ferment, which owing to the preceding disputes had for the first time since the religious wars penetrated the mass of the people, increased from hour to hour. The agitation was principally caused by the question whether the States-general should meet as before in three separate chambers, or form a single assembly, in which the tiers état should have a double number of votes. On this point the hitherto allied opposition parties differed, the aristocrats advocating the separation, the liberals the union of the three estates. Necker, with great want of tact, betrayed his own views by assigning the double number of votes to the tiers état, while he induced the government to observe an obstinate silence on the main point in question.

The public debates on this subject were all the more violent in consequence of this reticence, and in Bretagne it came to an open civil war between the nobility and the burghers.

The radical elements in France saw that their time for action was come, and the great dearness of provisions which prevailed during the winter months placed a large number of desperate men at the disposal of every conspirator. In Paris the revolutionary demagogues gathered round the agents of the Duke of Orleans, and at the end of April tried their strength in a sanguinary street riot, which was professedly directed against the usurious avarice of a rich manufacturer, but really had no other object than to intimidate the moderate party before the impending election of the Statesgeneral.¹ In other respects external quiet still prevailed in the provinces; but the feverish agitation of men's minds increased with every day, and in this state of things the elections by almost universal suffrage began to be held. Every electoral college was to intrust its instructions and complaints to its deputies, according to mediæval custom. In every district, therefore, a long list of abuses was drawn up and examined and brought home to the minds of the people at large by means of discussion. A modern historian has justly observed that these complaints do not leave a single particle of the ancien régime untouched, that everything was rejected by the restless desire of innovation, and that unfortunately neither the possibility nor the method of introducing reforms is anywhere pointed out. Revolution, universal and radical revolution, speaks in every line of these documents. There was but one thought through the whole of France, that thenceforward a new era was to commence for the people and the empire, and that the work begun must be completed in spite of every opposition.

While the millions in every part of the country were thus emancipating themselves from the bonds of traditional law, uncertain about their future, but firm in their resolution to proceed, the government was daily sinking more and more

 1 This has been clearly and concisely shown by Croker in his "Essays 00 the French Revolution," p. 50.

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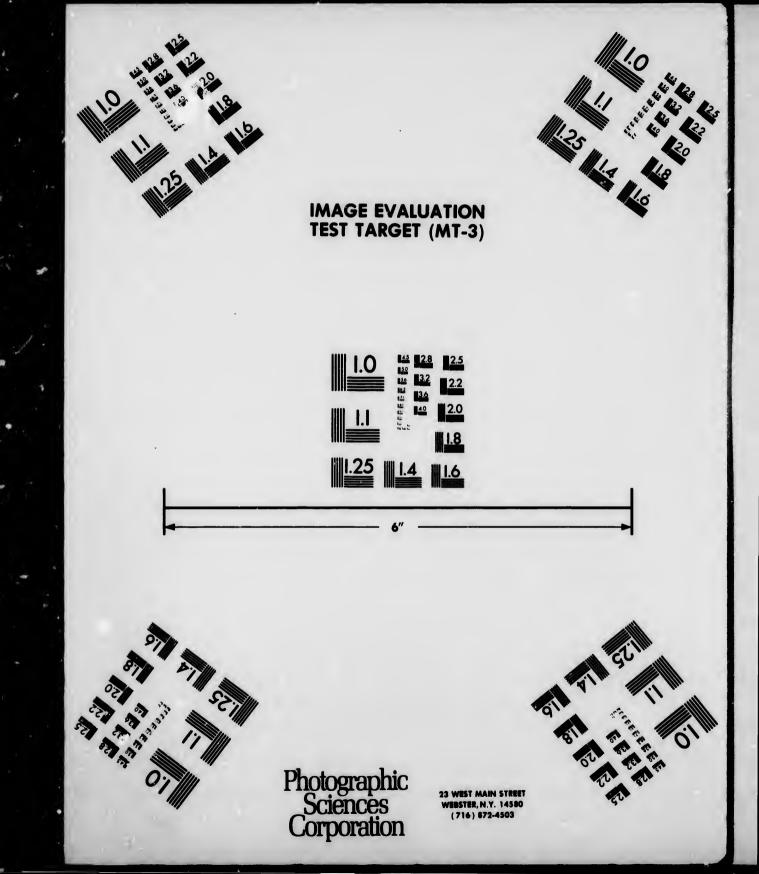
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into utter helplessness. It had indeed a presentiment of the dangers which would accompany the breaking out of the new epoch, but its destitution was so complete that it eagerly longed for the commencement of the crisis. Money, one of the great factors of material power, was not to be found in its coffers, and even the other, the army, was already affected by the general process of dissolution. This is perhaps the most important circumstance with respect to the subsequent course of the French Revolution, and its difference from all those which have since taken place in Europe. The reason is simple enough: the French army was in the main organized according to the same principles as the other departments of the State, and like them had been thoroughly unhinged by the contests between the crown and the feudal orders long before the breaking out of the Revolution. The nobility alone were eligible for commissions in the army, and though single exceptions to this rule really occurred, yet the monopoly was actually limited by a law of 1781 to noble-Twenty-seven regiments belonged to men of four descents. foreign or native grandees, and in these the owner of each regiment appointed the colonel from a list drawn up by the minister at war, and the colonel appointed the other officers. The influence of the king's government, therefore, in the selection of officers, was limited to the composition of the list of candidates for the single office of colonel. In the other divisions of the army, indeed, the highest rank was in the gift of the king alone, but of the other commissions only one half were bestowed by the king and the other half by the colonel. The officer moreover received his commission, after giving proofs of his fitness, on payment of a sum of money; it was a purchase for life, as in the case of the courts of law it was a purchase of an hereditary right. The duty of unconditional obedience was not indeed abrogated by this system, but it was inevitable, especially under a weak government, that the corps of officers should feel itself, what it really was, a part of that great aristocracy which shared with the king the ruling power of France in every department of public life. The contest between this nobility and the ministry, by which





the last years of the ancien régime were filled, must, therefore, have had a deep effect upon the army. It frequently occurred that the officers, like the judges, with their colonels at their head, refused obedience. And as in the rural districts the opposition of the aristocracy was followed by excitement among the peasants, and the opposition of the towns by excitement among the artisans, so in the case of the army the popular movement found its way into the minds of the soldiers, and operated side by side with the class resistance of the officers. The common soldiers had felt the oppression of the ancien régime perhaps more deeply than the peasants themselves, for they were starving on a pay of ten sous, while countless sums were employed in rich endowments for 1,171 generals. They suffered all the insolence of the nobility towards the canaille, embittered by the weight of a severe and often brutal discipline, and, like their fellowcitizens, they looked forward to the meeting of the Statesgeneral as the signal of liberation from intolerable slavery. The number of regiments on which the government could reckon was extremely small. The bands of discipline were loosened in every rank; the officers inveighed against the despotism of the ministers, and the soldiers promised one another to do nothing against the people.

The ancient polity, therefore, was destroyed by its own internal discord and dissolution before a single revolutionary word had been uttered. The government was destitute of money and troops to defend its position, and the feudal seigniors, though they had important individual rights, had no general organization which could enable them to replace the government. As soon as public opinion, which, guided by radical theories, emphatically rejected both the government and the aristocracy, obtained an organ of power in the States-general it only needed to declare its will, nay, only to give expression to the facts before them, and the old system hopelessly collapsed in its own rottenness. What was to follow no man at that time was able to foresee. As most men were extremely ill-informed respecting the condition of the country, they indulged in hopes which were all the more ardent in

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THE EDICTS OF STEIN AND HARDENBERG.

THE EMANCIPATING EDICT OF STEIN.

FROM SEELEY'S LIFE AND TIMES OF STEIN, VOL. I. PP. 287-297.

1807.

I CALL by this name the great edict which was signed on the 9th of October, that is, only five days after Stein had received his powers, not solely because it contains the provision that from a certain date there shall be only free persons in the States of the King of Prussia. It is indeed to be remarked that the principal authors of the measure are so intoxicated with the pride of being the bestowers of freedom upon bondsmen that they forget to remark how much more and how many other emancipations they accomplished by the same act. Stein's own account of the edict of October runs as follows:—

"The measures adopted to reach the above-mentioned general object were: ---

"(1) Abolition of personal serfdom in the Prussian Monarchy: by an Edict of October, 1807, it was decreed that from October 8th, 1809 (*sic*; it should be 1810), personal serfdom with its consequences, especially the very oppressive obligation of menial service, should be abolished; but the obligations of the peasant, as far as they flowed from his possession of property, remained unaltered. It was reserved for the Chancellor Hardenberg's love of innovation (on the advice of a H. Scharrenweber, a dreamer who died in a madhouse at Eberbach in 1820) to transform in 1811 the relations of the landlord to the peasant class, and its inner family relations in a manner pernicious to it; in this I had no share.

"(2) The transformation of the peasants on the Domain in East and West Prussia into free proprietors."

¹ University Press, Cambridge, Eng., 1870.

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EDICTS OF STEIN AND HARDENBERG.

Here not a word is said of any changes made by the Edict of October except those which affected the peasant. It is the same aspect of the edict which interests Schön. This edict, he says, "has made the figure of the king stand higher, since he is henceforth no longer a king of slaves, but of free men." And again: —

"Thus came into existence the law of Oct. 9th, 1807, that Habeas Corpes Act of our State. The idea of freedom had begun to live. With ninety-nine hundredths of the people it made a deep and elevating impression; the few friends of slavery intrigued and murmured no doubt a good deal, so that, according to Rhediger's story, a prejudiced man said at the Berlin Casino after reading the law, 'Rather three battles of Auerstädt than such a law!' But the king stood firm, and God maintained the right."

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In stating pretty strongly his claims to be considered the real author of the law, Schön uses language which shows that he is thinking almost exclusively of this part of it. "All else that I did in life," he says, "was as nothing compared to calling into life the idea of freedom." Only from one casual expression do we learn that he even knew that the measure had another side, where he says, "I represented that hereditary serfdom, that scourge of our country, must be brought to an end, and that a proclamation of free trade in landed property would be sufficient to promote material interests."

Here we are suddenly introduced to something quite new, and very different from the abolition of serfdom, namely, free trade in landed property.

Up to a certain point it is true that these two things coineide. One part of the burden of serfdom lay in the incapacity of the serf to alienate his land, but this is a small matter. The proclamation of free trade in land affected all classes of society at once, and the upper and middle classes much more than the peasantry. When, therefore, we observe that the edict of the 9th of October, at the same time that it abolished personal serfdom, removed all the principal restrictions that interfered with traffic in land, we see that it is in fact not a

single law, but two laws in one, and two laws of such magnitude that each by itself might be considered equivalent to a social revolution.

But when we look closer still we discover that the edict goes even further, and should be rather described as threefold than as twofold. Englishmen are only too familiar with the notion of a depressed class of agricultural laborers; but such depression may be of two kinds, and may spring from two very different causes. We are not to suppose that the peasantry of Prussia were in a condition resembling that of our own laborers any further than as it was bad. The evils afflicting the Prussian peasantry were those arising out of status; those which afflict English laborers arise mainly out of contract. The English laborer is nominally free and at liberty to carry his industry to the best market; he is reduced to real dependence by his inability to make a favorable bargain for himself. The Prussian peasant was nominally a serf, but in reality some very important rights were secured to him. We are not to suppose, for instance, that cruel punishments were allowed, or that he was subject to the caprice of the landlord. He was far more of a proprietor than the English laborer, for, though on a degrading tenure, he did for practical purposes own land. Nor were his interests neglected as those of a freeman, who is supposed able to take care of himself, may be neglected. Not only was he a member of an ancient and organized village community, but the Government also took, and was obliged to take, the greatest possible interest in his class; for these serfs were neither more nor less than the Prussian army.

Now it might very plausibly be maintained that the proclamation of free trade in land would not create a happy peasant class, but would simply substitute for a peasantry laboring under certain evils that class of famished drudges whom we know in England, and who if they cannot be called serfs can still less be called peasants, for a peasant properly so called must have a personal interest in the land. Hence the conservative opponents of Stein, such as Marwitz, actually declare that there existed no slavery or serfdom in the land E

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when he professed to abolish it, but "that it then for the first time began to appear, namely, the serfdom of the small holder towards the creditor, of the poor and sick towards the police and the work-houses;" and again, "that with the proclamation of free trade disappeared the previous security of the peasantry in their holdings. Every rich landowner could now buy them out and send them off; fortunately, scarcely anybody was rich any longer!"

These were the criticisms of the conservative party, which might have been very truly applicable to a simple measure of free trade in land. But the edict of October had in fact taken account of the danger, and contained an express provision to meet it. Hence, as I have said, it was actually a threefold enactment, for not only did it first abolish serfdom, and secondly, establish free trade in land, but, thirdly, it endeavored to guard the peasantry against the danger, which in so many countries has proved serious, of being gradually driven out or turned from proprietors into wage-receivers by the effects of the unequal competition to which they are exposed.

At the same time that we carefully distinguish these different enactments all included in one legislative edict, let us be as careful to remark what was not included in it. Englishmen are apt to attribute to the legislation of Stein all the innovations introduced in this period. In particular it has been supposed that he created the peasant-proprietorship of modern Prussia. But this he did not do, except, as he says in the passage quoted above, on the Domain Lands of West and East Prussia. Proprietors in a certain sense the peasantry were before this edict, that is, they cultivated land for themselves, and with a considerable sense of security; proprietors in the full sense they were not, because they held of a landlord to whom they owed various dues and services. Now Stein's edict altered the nature of these services, and abolished the most oppressive; but, it did not destroy the rights of the landlord or leave the peasant sole master of the land he cultivated. It was reserved for Hardenberg to do this by an edict issued on Sept. 14, 1811,

and it should be noticed that Stein expressly declines to accept any responsibility for this innovation. Again, it is not to be supposed that the provision just mentioned, by which Stein tried to prevent the absorption of the small holdings by the great proprietors, has actually proved the means of preserving the peasant class in Prussia; for all this passed away with the legislation of Hardenberg, and it has been by its own vitality, and not by State interference, that peasant proprietorship has maintained itself.

Further, it is to be remarked that Stein is quite accurate when he describes his Land Reform as not consisting solely in the edict of October, but as including also another quite distinct act of legislation, which applied only to the provinces of East and West Prussia. This act belongs to July. 1808, and is confined not simply to the peasants of these two provinces, but to a particular class of peasants, namely, those sometimes called immediate peasants, or in other words those who, living on the Royal Domainz, had no other landlord but the king. It is evident that the Government could deal with these more easily than with those peasants whose condition it could not improve without meddling with the rights of another class. The extreme distress in which these two provinces lay, and which the Government was in no condition to relieve directly, was the justification for granting privileges to these particular immediate peasants, which for the moment were not extended to those of the other provinces.

Such then, defined in general terms, was the extent of this reform. It needs, however, a much closer description In the first place the reader must guard against a misapprehension of the phrase "free trade in land" into which he is likely to be led by his English experience. Free trade in land is also a cry of our own reformers; but we must beware of supposing that what they call for is the same thing that was granted in Prussia by Stein's edict. The complaint in England is that a number of practical obstructions prevent land from being the object of such free purchase and sale **s** other commodities. Much of the land of the country, it is

have given which land pensive as and lastly respect to cases of int landed prop dealt with Now it is a accuracy of restrictions cases means or by the go other kind. and it canno the only way the moral in system. Th the result of been formed. from being a freedom of co selves deman other words, new legal pro

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said, is in the hands of persons who in family settlements have given up the right to alienate it; the system under which landed property is conveyed is so cumbrous and expensive as to deter people from transactions of the kind: and lastly by recognizing the principle of primogeniture with respect to land and not with respect to personal property in cases of intestacy, the law itself countenances the notion that landed property stands in a class by itself, and is not to be dealt with or transferred as if it were purely a commodity. Now it is an instance of the confusing and misleading inaccuracy of our party cries, when the removal of these restrictions is called free trade in land. Free trade in other cases means the removal of restrictions imposed by the law or by the government; but these restrictions are of quite another kind. Only the last mentioned is the work of the law, and it cannot in any proper sense be called a restriction, for the only way in which it operates restrictingly is by lending the moral influence of the law to the support of a restrictive The cumbrousness of our conveyancing is merely system. the result of the gradual way in which our land system has been formed, and as to the system of settlements, so far from being a restriction of freedom, it is the direct result of freedom of contract, --- so much so that the reformers themselves demand an interference of the law to prevent it; in other words, wish to promote what they call free trade by a new legal prohibition.

Now when Stein is said to have established free trade in land the expression is to be understood literally. The hindrances to the sale and purchase of land which he removed were not accidental practical obstacles, but formal legal prohibitions. In the old law of Prussia and in the Code of Frederick or Allgemeines Landrecht, which came into force in 1794, it is laid down that noble estates (adelige Güter) can only be held by nobles, and that persons of civic origin (bürgerlicher Herkunft) can only acquire them by express permission of the sovereign. In the same way peasant-land could, as a rule, only be held by peasants, and land belonging to towns only by citizens. We are familiar with the

idea of caste as applied to human beings, that is, of an unalterable status stamped upon a man from his birth; in Prussia it may be said that caste extended actually to the land, so that every rood of soil in the country was of a definite and unalterable rank, and, however it might change its owners, always remained either noble or citizen or peasant land. Now the first innovation contained in Stein's edict consisted in cancelling in the fewest and simplest words all the regulations which established caste in land.

When the edict is examined more closely it will be seen to be much more comprehensive even than it was represented above when 1 pointed out how much more comprehensive it was than was commonly supposed, or than Stein himself described it. For at the same time that it abolishes caste in land it accomplishes another act of emancipation, which is in no way expressed in the phrase free trade in land; it removes another quite distinct set of restrictions and abolishes caste in persons. The Code of Frederick prohibited the nobleman from engaging in any occupation properly belonging to the citizen, and only allowed under certain conditions the citizen to pass into the class of peasants or the peasant into the class of citizens. The Nobles, the Citizens, the Peasants; these were the three castes into which the Prussian population outside the professions was divided; into one or other of them each person was born, and in the same, as a rule, he died. To each caste was assigned its special pursuit. The Noble cultivated his estate and exercised jurisdiction over the peasantry who held under him, though he could not himself hold or cultivate peasant-land; he also served the king in civil or military office. The Peasant cultivated his plot of ground rendering fixed services to the lord and subject to his jurisdiction, and belonged at the same time to the rank and file of the army. Between them stood the Citizen, holding a monopoly of trades and industries which by law were confined, with few exceptions, to the towns. It is remarkable that the military profession was, for the most part, closed to him. This must be horne in mind when we compare the Seven Years' War with the

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War of Libe tion of mer desperate sh must unders that the citi going forwar connection b was closer th ture, and phi age took the followed. In ture, because emption from tone of publi was in an est Scharnhorst e and despised. education who goes some way State fighting before us.

This state of perhaps, becaus imaginations. assigned to his scribed, and a g at the head of or nation at plea regarded by the department. A William I. and adapted, for that every man, and forces of the cou creditor account the rulers could easily and certai

EDICTS OF STEIN AND HARDENBERG.

War of Liberation. We have read of the fearful consumption of men caused by the Seven Years' War, and of the desperate shifts of Frederick to procure recruits; but we must understand that no levée en masse took place then, and that the citizen class had scarcely any share in what was going forward. This is the more to be noted because the connection between the citizen class and the learned class was closer than in other countries. The learning, literature, and philosophy, which flourished so remarkably in that age took the tone of the middle class, and a curious result followed. In the most military of all modern States, literature, because it sprang from a class which enjoyed an exemption from military service, and as a consequence, the tone of public feeling which is determined by literature, was in an especial degree wanting in the military spirit, --Scharnhorst describes the army as being generally hated and despised, and Kant speaks with contempt of a man of education who had embraced a military life, - and this fact goes some way to explain that phenomenon of a military State fighting exceptionally ill which we have so long had before us.

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This state of society is very foreign to our ideas, and may perhaps, because we have no experience of it, fascinate some imaginations. No laissez faire here; every man's place is assigned to him from his birth; his occupations are prescribed, and a great taskmaster or earthly Providence stands at the head of the whole society, which may be called army or nation at pleasure, since even the unmilitary citizens were regarded by the State principally as a sort of commissariat department. And for the immediate purpose of Frederick William I. and Frederick the Great the system was well adapted, for that purpose was simply military. A place for every man, and every man in his place; the "productive forces of the country perfectly inventoried and a debtor and creditor account of its resources kept;"¹ by such a system the rulers could wield the whole force of the country most easily and certainly. Nevertheless, the destruction of this 1 Morier.

whole system by a stroke of Stein's pen was now regarded as the greatest of reforms and the commencement of the restoration of Prussia. For it will be evident that the same system which concentrated so powerfully and measured so exactly the forces of the country at the same time entirely prevented them from growing, not to mention the intellectual stagnation, outside the university world, which was produced by such rigid uniformity of life. A country in which no man can follow his natural bent, take to agriculture if he does not like trade, or to trade if he does not succeed in agriculture, is evidently not an industrial country. Its material resources under such a system will remain undeveloped, and if it be a poor country, as Prussia was, the system will actually in the end defeat its own object, for such a country from merc poverty will be weak in war.

As the first section of the edict abolished what I have called "caste in laud," so the second, consisting of about three lines, abolished caste in persons. And here it mar perhaps be observed that I omitted above one principal circumstance which made such sweeping changes so easy to Before the Peace of Tilsit it would have been scarcely Stein. possible to carry out such reforms, however much the rules might have been convinced of their necessity. Frederick had shrunk from the emancipation of the serfs because he felt that it would introduce disorder into his army, and for the same reason these reforms also would have been scarcely practicable so long as the army existed. The disasters brought with them the compensation that they destroyed for The necessity of maintaining 1 a moment this incubus. great position in Europe, the necessity even of defending the country, ceased when the country actually fell into French occupation; and thus, as we may say, the building being down it was for the first time possible to mend a defect in the foundations.

These reforms, favored as they were by circumstances and requiring but few lines in the edict, were yet much more fundamental and pregnant with consequences than any such practical reforms as may be called for in England to make

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the purchase Charta to th to them the sections whi ard text-boo chapter on H of the Person (1) the right gigkeit); (2) (3) the right Beruf und Ge was given to The same is s up the second and possession Besitze des E I proceed to tance of which less important § HI. and V given.

Edict concerning landed propert tants of the cou

We, Frederick W Make known here beace We have bee pressed condition of and greatest improvmiversal need it pas ndividual, and yet V with the imperative ational economy, to be individual from he asure of his powonsidered that the ownent of landed p ultural laborer, spec reat force which mi

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the purchase of land more easy. They were a sort of Magna Charta to the Prussians, and Schön might well have applied to them the enthusiastic expressions which he keeps for the sections which emancipated the serf. In v. Rönne's standard text-book of Prussian Constitutional Law I find in the chapter on Rights, under the first title, Freedom or Security of the Person, that this freedom is composed of three rights: (1) the right of movement and free choice of abode (Freizügigkeit); (2) the right of emigration (Auswanderungsrecht): (3) the right of choosing a calling or trade (Freie Wahl von Beruf und Gewerbe); and this third right, we are informed, was given to the Prussians by the edict of October, 1807. The same is said of the first of the rights which go to make up the second title; namely, free right to the acquisition and possession of property (Freies Recht zum Erwerbe und Besitze des Eighenthums).

I proceed to give the text of this edict, the vast importance of which will have by this time become clear. The less important sections are printed in a smaller type, and of §§ 111. and V., as purely technical, only the heading is given.

Edict concerning the facilitation of possession and the free use of landed property, as well as the personal relations of the inhabitants of the country.

WE, Frederick William, by the grace of God King of Prussia, &c., &c., Make known hereby and give to understand. Since the beginning of the peace We have been before all things occupied with the care for the depressed condition of Our faithful subjects, and the speedlest restoration and greatest improvement of it. We have herein considered that in the miversal need it passes the means at Our command to furnish help to each adividual, and yet We could not attain the object; and it accords equally with the imperative demands of justice and with the principles of a proper national economy, to remove all the hindrances which hitherto prevented he individual from attaining the prosperity which, according to the measure of his powers, he was capable of reaching; further, We have onsidered that the existing restrictions, partly on the possession and enoyment of landed property, partly on the personal condition of the agrinultural laborer, specially thwart Our benevolent purpose and disable a reat force which might be applied to the restoration of cultivation, the

former by their prejudicial influence on the value of landed property and the credit of the proprietor, the latter by diminishing the value of labor. We purpose, therefore, to reduce both within the limits required by the common well-being, and accordingly ordain as follows: —

§ I. Freedom of Exchange in Land.

Every inhabitant of our States is competent, without any limitation on the part of the State, to possess either as property or pledge landed estates of every kind: the nobleman therefore to possess not only noble but also non-noble, citizen, and peasant lands of every kind, and the citizen and peasant to possess not only citizen, peasant, and other non-noble, but also noble, pieces of land, without either the one or the other needing any special permission for any acquisition of land whatever, although, henceforward as before, each change of possession must be announced to the authorities.

§ II. Free Choice of Occupation.

Every noble is henceforth permitted without any derogation from his position, to exercise citizen occupations; and every citizen or peasant is allowed to pass from the peasant into the citizen class or from the citizen into the peasant class.

§ III. How far a legal right of Pre-emption and a First Claim still exist.

§ IV. Division of Lands.

Owners of Estates and Lands of all kinds, in themselves alienable either in Town or Country, are allowed, after due notice given to the provincial authority, with reservation of the rights of Direct Creditors and of the who have the right of pre-emption (III.), to separate the principal estate and its parts, and in general to alienate piecemcal. In the same way C_0 proprietors may divide among them property owned in common.

§ V. Granting of Estates under Leases for a Long Term.

§ VI. Extinction and Consolidation of Peasant Holdings.

When a landed proprietor believes himself unable to restore a keep up the several peasant holdings existing on an estate which are not held by a hereditary tenure, whether of a long lease or a copyhold, he is required to give information to the government a the province, with the sanction of which the consolidation, either of several holdings into a single peasant estate, or with demess land, may be allowed as soon as hereditary serfdom shall have ceased to exist on the estate. The provincial Authorities will be provided with a special instruction to meet these cases.

\$ VII. If, on the other hand, the peasant tenures are hereditary, whether of long lease or of copyhold, the consolidation of other altera admissible whether by way. In th

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§ VIII. I of the Ravage

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other alteration of the condition of the lands in question, is not admissible until the right of the actual possessor is extinguished, whether by the purchase of it by the lord or in some other legal way. In this case the regulations of \$ VI. also apply.

§ VIII. Indebtedness of Feudal and Entailed Estates in consequence of the Ravages of War.

Every possessor of feudal or entailed property is empowered to raise the sums required to replace the losses caused by war, by mortgaging the substance of the Estates themselves, as well as the revenues of them, provided the application of the money is attested by the Administrator (Landrath) of the Circle or the Direction of the Department. At the end of three years from the contracting of the debt the possessor and his successor are bound to pay off at least the fifteenth part of the capital itself.

§ IX. Extinction of Feudal Relations, Family Settlements, and Entails, by Family Resolution.

Every feudal connection not subject to a Chief Proprietor, every family settlement and entail may be altered at pleasure or entirely abolished by a Family Resolution, as is already enacted with reference to the East Prussian Fiefs (except those of Ermeland) in the East Prussian Provincial Law, Appendix 36.

§ X. Abolition of Villainage.

From the date of this Ordinance no new relation of villainage, whether by birth, or marriage, or acquisition of a holding, or by contract, can come into existence.

§ XI. With the publication of the present Ordinance the existing condition of villainage of those villains with their wives and children who possess their peasant-holdings by hereditary tenures of whatever kind ceases entirely both with its rights and duties.

 XII. From Martinmas, 1810, ceases all villainage in Our entire States. From Martinmas, 1810, there shall be only free persons, as this is already the case upon the Domains in all Our provinces; free persons, however, still subject, as a matter of course, to all the obligations which bind them as free persons by virtue of the possession of an estate or by virtue of a special contract.

To this declaration of Our royal Will every man whom it may concern, and in particular Our provincial and other governments, are exactly and loyally to conform themselves, and the present Ordinance is to be made universally known.

Authentically, under Our royal Signature. Given at Memel, Oct. 9th, 1807.

FRIEDRICH WILHELM, Schrötter, Stein, Schrötter II.

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The elder Schrötter was at this time minister for the province of Prussia, and he with his brother was entrusted with the task of publishing the Ordinance in the province where it had received the king's signature. It is for this reason that their names are affixed to it along with Stein's.

That threefold character of the edict which was pointed out above will appear very visibly by observing the three groups of sections, which on account of their especial importance have been printed in large type. The abolition of caste both in land and in persons is accomplished in the first two sections; the abolition of villainage in the last three, which it is evident might as well have composed a separate edict. Sections six and seven are introduced to prevent the system of free trade in land from bearing too hard on the peasant and making the proprietorship of land a monopoly of the richer classes. . . .

THE AGRARIAN LEGISLATION OF HARDENBERG.

FROM MORIER'S "THE AGRARIAN LEGISLATION OF PRUSSIA DURING THE PRESENT CENTURY," IN "SYSTEMS OF LAND TENURE IN VARI-OUS COUNTRIES."¹ PP. 306-316.

1811.

The edict of 1807, great and incisive as had been its operation, was of a negative kind. It removed disabilitics, undid the shackles which bound the peasant to the glebe, allowed such rights as existed to be used freely, and pulled down the walls which separated from each other the different classes of society. But it created no new forms of property; it proclaimed freedom of exchange, but it did not provide the title-deeds required as the first condition of exchange. Peasants' land could now be held indiscriminately by all the citizens of the State; but it was still held under the old forms of tenure; there were still two "dominia." The lord was still owner of the peasants' land, but had no

¹ London : Macmillan & Co., 1870.

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hia." Id no right to its possession. The peasant was free but was not master of his labor.

The legislation of 1811 stepped in to remedy this state of things, and applying to the monarchy generally the principles which during the last three years had proved in the highest degree successful when applied to the State domains, it set itself to substitute allodial ownership for feudal tenure. Its work was in the highest degree positive.

The legislation of 1811 mainly consists of two great edicts, both bearing the same date, that of the 14th of September,—the one entitled "Edict for the Regulation of the Relations between the Lords of the Manor and their Peasants;" the other, "Edict for the better Cultivation of the Land."

The first is concerned with the creation of new title-deeds for the peasant holders, and with the commutation of the services rendered in virtue of the old title-deeds.

The second surveys the whole field of agrarian reform, and introduces general measures of amelioration.

The preamble to the "Edict for the Regulation of the Relations between Landlord and Tenant" recites how "We, Frederick William, by the grace of God, King of Prussia, having convinced ourselves, both by personal experience in our own domains, and by that of many lords of manors, of the great advantages which have accrued both to the lord and to the peasant by the transformation of peasant holdings into property, and the commutation of the services and dues on the basis of a fair indemnity, and having consulted, in regard to this weighty matter, experienced farmers, and skilled persons of all kinds belonging to all our provinces, and to all ranks of our subjects, ordain and decree as follows:"

The edict then branches off into two main parts,—the first dealing with peasant holdings in which the tenant has hereditary rights; the second with holdings in which the tenant has no hereditary rights.

PART L

All tenants of hereditary holdings, that is, holdings which are inherited according to the common law, or in which the lord of the manor is bound to select as tenant one or other of the heirs of the last tenant, whatever the size of the holding, shall by the present edict become the proprietors of their holdings, after paying to the landlord the indemnity fixed by this eclet. On the other hand, all claims of the peasant on the manor, for the keeping in repair of his farm-buildings, etc., shall cease.

We desire that landlords and tenants should of themselves come to terms of agreement, and give them two years from the date of the edict to do so. If within that time the work is not done, the State will undertake it.

The rights to be commuted may be thus generally classed:-

I. Rights of the landlord.

- 1. Right of ownership ("dominium directum").
- 2. Claim to services.
- 3. Dues in money and kind.
- 4. Dead stock of the farms.
- 5. Easements or servitudes on the land held.
- II. Rights of the tenant.¹
 - 1. Claim to assistance in case of misfortune.
 - 2. Right to gather wood and other forest rights in the forest of the manor.
 - 3. Claim upon the landlord for repairs of buildings.
 - 4. Claim upon the landlord in case tenant is unable to pay public taxes.
 - 5. Pasturage rights on demesne lands or forests.

Of these different rights only a few, namely, the dues paid in kind or money, the dead stock and the servitudes, are capa-

¹ It is worthy of remark that the tenant's "dominium utile," or right of possession, is not recorded as a set-off against the dominium directum of the lord of the manor. The fact is, this right of possession is something so self-under stood, that it never seems present to the mind of the legislator. The "dominium directum" is something quite different, for it represents an aggregation of all kinds of different rights. These rights he has to sell to the pensant, and the peasant buys them with the only thing he possesses, viz., the land. ble of exa mately est To obtai commutatic possible to certain rule those rules of the State

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To obtain, therefore, a solid foundation for the work of commutation, and not to render it nugatory by difficulties impossible to be overcome, we deem it necessary to lay down certain rules for arriving at this estimate, and to deduce those rules from the general principles laid down by the laws These principles are: -of the State.

- 1. That in the case of hereditary holdings, neither the services nor the dues can, under any circumstances, be raised.
- 2. That they must, on the contrary, be lowered if the holder cannot subsist at their actual rate.
- 3. That the holding must be maintained in a condition which will enable it to pay its dues to the State.

From these three constitutional principles, as well as from the general principles of public law, it follows that the right of the State, both to ordinary and extraordinary taxes, takes precedence of every other right, and that the services to the manor are limited by the obligation which the latter is under to leave the tenant sufficient means and to pay taxes.

We consider that both these conditions are fulfilled when the sum-total of the dues and services rendered to the manor do not exceed one-third of the total revenue derived by an hereditary tenant from his holding. Therefore, with the exceptions to be hereafter described, the rule shall obtain:

That in the case of hereditary holdings the lords of the manor shall be indemnified for their rights of ownership in the holding, and for the ordinary services and dues attached to the holding, when the tenants shall have surrendered one third portion of all the lands held by them, and shall have renounced their claims to all extraordinary assistance, as well as to the dead stock, to repairs, and to the payment on their behalf of the dues to the State when incapable of doing so.

The edict then goes on to lay down the rules to be observed in applying this principle.

These rules presuppose the existence of the agricultural community referred to in the earlier part of this paper, namely, equal allotments in an erable mark; the division of the arable mark in which these several allotments are situated into three "Commonable Fields," or "Fluren;" a common system of cultivation obligatory on the community, in order to secure the community's right of pasture on the fallow and stabbles; and common rights of property in common lands occupied "de indiviso," mostly pasture lands, woods, etc., but sometimes also in arable common lands. As the rule, the lord of the manor is to acquire possession of one of the three Fields, or of one third portion of each field, and of one third portion of the common lands.

We have no space to enter into the details of the arrangements which provide for the cases differing from these.

As noted above, the lords and the peasants are left free to make what arrangements they please, as long as the proportion of one third is maintained; that is, the indemnity may take the form of a payment of capital, or of a corn or money rent. Yet the rule to be followed (and a departure from this rule must have a distinct motive) is that the indemnity must be paid in land where the holdings are over fifty "morgen,"¹ but in the shape of a corn-rent where the holdings are under that size.

As a matter of practical convenience to both parties, the absolute separation of proprietary rights suffers some few exceptions; the first and most important is that the lord retains the right of pasturing the manorial sheep on two thirds of the fallow and stubbles of the arable mark;² the peasant also continues to enjoy the right of collecting as much firewood in the demesne as he requires for his per-

¹ The Prussian acre is about equal to two thirds of an English scre,⁴⁰ hundred English acres being equal to 158½ Prussian acres.

² Compare Rogers' "History of Agriculture and Prices in England," vol. i p. 31. sonal use. and farm-l ment in th services to vest) when however rework, and t ten days' impeasant.

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sonal use. For this right and for the acquisition of his house and farm-buildings as well as his garden-plot (his allotment in the mark of the township) he continues to render services to the lord of the manor at times (for example, harvest) when extra hands are wanted. These services are however restricted to a maximum of ten days of teamwork, and ten days of hand-labor for a team-peasant, and ten days' man's-work and ten days' woman's-work for a hand peasant.

Several paragraphs of the edict are taken up with provisions for so apportioning the burdens on the holdings that nothing shall prevent their dismemberment, and being sold or exchanged in single parcels. Among these provisions is one preventing the peasant from mortgaging his estate above one fourth of its value. Where corn-rents are not paid punctually the lord of the manor can exact services instead.

PART IL.

The class of holdings treated of in the second part are those held at will, or for a term of years or for life. In these cases the landlord gets an indemnity of one half of the holdings under much the same conditions as in the case of the hereditary holdings. When the conditions differ they do so in favor of the lord of the manor.

By the edict, of which the above are the main provisions, entirely new conditions of land occupation were inaugurated, and corresponding changes became necessary in the other branches of the agricultural system.

The "Edict for the better Cultivation of the Land," published on the same day, had these changes in view.

Fully to understand what these changes were, and what was the nature of the agricultural reforms to be introduced into Prussia, the picture of the peasant community as a microcosmic reproduction of the old community of the mark must be kept in mind. The peasant occupier's tenement is situated apart from his land in a village or township; his estate is made up of a number of single lots or parcels (Grundstücke) distributed over the three main divisions or

Fields (Fluren, Campi) into which the arable mark is divided. Often intermixed with these peasant parcels, and subject to the same obligatory cultivation, are parcels of demesne lands. In addition to his individual rights of possession in the arable mark, controlled by the common rights of pasturage on the stubbles, he has common rights in the common pasture, which common rights he shares with the lord of the manor. Besides these rights he has rights of pasture, etc., in the forest lands of the demesne proper. The sum total of these individual and common rights make up the peasant holding, correlative to which are the services to be rendered to the manor. As long as these services were calculated on the sum total of the rights enjoyed by the tenant, it was of paramount importance that no dismemberment should take place. Consequently, even in the case of freeholders, none but exceptional dismemberments were allowed.

Apart then from the relations between landlord and tenant, or rather inseparably implicated in those relations, and therefore requiring simultaneous regulation are the *common rights* of the peasants' themselves, and the impediments which these common rights throw in the way of individual cultivation, and the free use of the rights of property to be granted.

The ruling idea of the "Edict for the better Cultivation of the Land," as of its predecessor, and indeed of the whole legislation connected with the names of Stein and Hardenberg, is to enfranchise not the owner of land merely, but likewise the land owned by him, and to remove every impediment in the way of the soil finding its way out of hands less able to cultivate it into those better able to cultivate it. Conformably to these principles, the edict in question, in the first place, removes all restrictions still existing in the way of free exchange in land, in so far as private rights (namely, rights arising from entails, servitudes, etc.) are not affected. By this proviso the restrictions contained in paragraphs six and seven of the edict of 1807 were removed, the difference between tenant's lands and demesne land

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ceased, and the lord of the manor could freely acquire the former without the previous sanction of the State. On the other hand, by the perfect liberty granted for dismemberment (the maxim being laid down that it was better both for the cultivator and for the land cultivated that the former should administer a small unencumbered estate rather than a large encumbered one), the advocates of the "petite culture" were conciliated. The passage in the edict is worth quoting in extenso, as it contains very explicitly what we have described as the ruling idea of the legislation we are discussing; an idea, it is true, which only attained its full development forty years later, but which, nevertheless, in spite of the obstacles thrown in its way by the successors of Stein and Hardenberg, took sufficient root even at this early period to enable us to judge of its fruits. It is the idea of ownership versus tenancy, and of absolute freedom of exchange and disposal; and special importance attaches to it as representing principles opposed both to the French system of compulsory division and to the English system of tenancy, primogeniture, and strict settlement. The passage we refer to runs on as follows : --

"The proprietor shall henceforth (excepting always where the rights of third parties are concerned) be at liberty to increase his estate, or diminish it by buying or selling, as may seem good to him. He can leave the appurtenances thereof (the 'grundstücke,' or parcels distributed in the three *Fields*) to one heir or to many, as he pleases. He may exchange them or give them away, or dispose of them in any and every legal way, without requiring any authorization for such changes.

"This unlimited right of disposal has great and manifold advantages. It affords the safest and best means for preserving the proprietor from debt, and for keeping alive in him a lasting and lively interest in the improvement of his estate, and it raises the general standard of cultivation.

"The first of these results is obtained by the power it gives to the actual proprietor, or to an heir upon entering on his estate, to sell such portions as will enable him to provide for his heirs or coheirs, as the case may be, or for any other extraordinary emer-

gency, leaving what remains of the property unencumbered with mortgages or settlements.

"The interest in the estate is kept alive by the freedom left to parents to divide their estate among their children as they think fit, knowing that the benefit of every improvement will be reaped by them.

"Lastly the higher standard of cultivation will be secured by land — which in the hands of a proprietor without means would necessarily deteriorate — getting into the hands of a proprietor with means, and therefore able to make the best of it. Without this power of selling portions of his property, the proprietor is apt to sink deeper and deeper into debt, and in proportion as he does so the soil is deprived of its strength. By selling, on the other hand, he becomes free of debt and free of care, and obtains the means of properly cultivating what remains to him. By this unhindered movement in the possession of land, the whole of the soil remains in a good state of cultivation; and this point once attained, increased industry and exertion will make it possible to attain a yet higher point; whereas a backward movement, except as the result of extraordinary mischances from without, is not to be apprehended.

"But there is yet another advantage springing from this power of piecemeal alienation which is well worthy of attention, and which fills our paternal heart with especial gladness. It gives, namely, an opportunity to the so-called small folk (kleine Leute), cottiers, gardeners, boothmen, and day laborers, to acquire lauded property, and little by little to increase it. The prospect of such acquisition will render this numerous and useful class of our subjects industrious, orderly, and saving, inasmuch as thus only will they be enabled to obtain the means necessary to the purchase of land. Many of them will be able to work their way upwards, and to acquire property, and to make themselves remarkable for their industry. The State will acquire a new and valuable class of industrious proprietors; by the endeavor to become such, agricultur will obtain new hands, and by increased volunitary exertion, mor work out of the old ones."

The edict next exacts as a supplementary measure to the "Edict for the Regulation of the Relations between Lords of the Manor and their Peasants," that in the case of heredi-

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EDICTS OF STEIN AND HARDENBERG.

tary leaseholds (Erbpächte) the services and fines may be commuted into rent-charges, and these rent-charges redeemed by a capital payment calculated at four per cent.

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It next proceeds to deal with the common rights of the peasants and of the lords; and here it fairly owns its inability to carry out the principle of the free owner on the free soil. The great mass of the peasant holdings are dispersed in small, open, "commonable," intermixed fields over the area of the arable mark; and the common rights of pasturage over the arable mark necessarily chain down the individual cultivator to the modes of cultivation compatible with these com-To disentangle this complicated web must be mon rights. the work of time and of special legislation. The edict therefore announces a future law on the subject, and for the present confines itself to making provisions by which one third part of such "commonable" fields can be freed from the common rights of pasturage and placed at the absolute disposal of individual proprietors. The rights of pasturage in the forest lands of the manor are more easily disposed of. The advantageous terms on which full rights of property are obtainable by the peasants render it possible to make stringent regulations in regard to the exercise of those rights, in the interest of the landlord and for the preservation of the forests.

To guard against the possibility of a return to the double ownership system, the edict lays down the rule that though a landed proprietor may settle laborers on his estate, and pay for their services in land, such contracts are never to be made for more than twelve years.

The edict concludes by expressing it to be his Majesty's wish and will that agricultural societies should be formed in every part of the country for the purpose of collecting and diffusing knowledge. The expenses of these societies and the salaries of their secretaries will be paid out of the exchequer, and the societies themselves will be placed in communication with a central office in the capital, whose business it will also be to establish and maintain model farms in various parts of the country for the diffusion of

agricultural knowledge. Besides this more or less unofficial machinery, provision is made for official agricultural boards to be established in each district; but these arrangements, having been superseded by subsequent legislation need not be referred to.

The two edicts of the 14th of September, 1811, may be considered as the culminating point of the legislation which goes by the name of Stein and Hardenberg.

FROM LEVI'S HI

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THE ORDERS IN COUNCIL.

FROM LEVI'S HISTORY OF BRITISH COMMERCE¹ (2D ED.), PP. 101-113.

THE political horizon was ominously dark at the commencement of the nineteenth century. While grievously suffering from the high prices of corn and provisions and oppressed by the burden of a contest already sufficiently prolonged. England was threatened by the renewal of another armed neutrality on the part of the Northern powers, --a neutrality based on a new code of maritimo law then deemed utterly inconsistent with the rights of this country. The Northern powers wished to proclaim that free ships should make free goods; but England was determined that the trade of the enemy should not be carried on by neutrals. The Northern powers asserted that only contraband goods should be excluded from the trade of neutrals, and these of certain definite and known articles. England did not wish the enemy to obtain timber, hemp, and other articles, which, though not contraband of war, are still essential for warfare. The Northern powers declared that no blockade should be held valid unless real. England had already assumed the right to treat whole coasts as blockaded in order to prevent the enemy receiving supplies from any quarter. And when the Northern powers added that a merchant vessel accompanied and protected by a belligerent ship ought to be safe from the right of search, England was not prepared to recognize the authority of such ships, and would place no limit to the action of her cruisers. When, therefore, Russia, Denmark, and Sweden entered into a convention to enforce the princi-

¹ London: John Murray, 1880.

ples of the armed neutrality, and in pursuance of the same Russia caused an embargo to be laid on all British vessels in her ports, the British Government, ill-disposed to bear with such provocation, issued a proclamation on Jan. 14, 1801, authorizing reprisals, and laying an embargo on all Russian, Swedish, and Danish vessels in British ports. What followed is well known, and with the battle of Copenhagen the Northern confederacy was completely dissolved. By this time Mr. Pitt had given in his resignation, and a change of government took place, which led to a change of policy towards France, and to negotiations which ended with the conclusion of the treaty of Amiens.¹

But, alas! from whatever cause it was, that peace was of short duration, and more than ever the patriotic spirit of the people was evoked to defend British soil against Britain's inveterate enemies.² From class to class the national enthusiasm spread and increased, and even the merchants, setting aside their books and business, issued a declaration promising in a solemn manner to use every exertion to rouse the spirit and to assist the resources of the kingdom; to be ready with their services of every sort and on every occasion in its defence, and rather to perish altogether than live to see the honor of the British name tarnished, or that sublime inheritance of greatness, glory, and liberty destroyed, which descended to them from their forefathers, and which they were determined to transmit to their posterity. Again was Mr. Pitt called to be prime minister, as the only man who could really be trusted in times of so much anxiety and peril And then it was that that continental system was inaugurated which made of oceans and seas one vast battle-field d strife and bloodshed.

Fully to understand the policy of this country as regard

¹ Peace was ratified on October 10, 1801; and the treaty of Amiens we concluded March 25, 1802.

² On May 16, 1803, an order in council was made, issuing letters of marga and reprisals against France, and another laying an embargo on all shipt be longing to the French and Batavian republics. Reprisals against Spain we ordered December 10, 1805; against Prussia on May 14, 1806; and sgaint Russia on December 18, 1807.

these order examining Seven Year on all sides force from nies, adopted allowing ner to French o thus carried assumed tha the prize cou captured whi adopted, call to deliver a hostilities by way that was Scott said, " to carry on i utmost extent Very different never possesse in time of pea by no other tit against the oth under whose s American war action, because, opened the port neutral powers, were commence In accordance

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¹ The rule of 175 sions. See Note 1, 0 the Colonial trade o App.; and Considerat points de l'Amérique e 4 Rob. Rep., p. 4; a Law, p. 814. ame

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these orders in council, we must briefly retrace our steps by examining the measures taken in previous wars. During the Seven Years' War, which ended in 1763, France, hemmed in on all sides by England and hindered by the British naval force from carrying on any trade with her West India colonies, adopted the plan of relaxing her colonial monopoly, and allowing neutral ships to carry the produce of those islands to French or foreign ports in Europe. The produce being thus carried really or ostensibly on neutral account, it was assumed that no danger of capture could be incurred. But the prize courts of England condemned such vessels as were captured while engaged in the trade, and the rule was then adopted, called the rule of 1756,¹ that a neutral has no right to deliver a belligerent from the pressure of his enemy's hostilities by trading with his colonies in time of war in a way that was prohibited in time of peace. As Sir William Scott said, "The general rule is that the neutral has a right to carry on in time of war his accustomed trade to the utmost extent of which that accustomed trade is capable. Very different is the case of a trade which the neutral has never possessed; which he holds by no title of use and habit in time of peace; and which, in fact, he can obtain in war by no other title than by the success of the one belligerent against the other, and at the expense of that very belligerent under whose success he sets up his title." During the American war this principle did not come practically into action, because, although then also the French government opened the ports of her West India islands to the ships of neutral powers, it had the wisdom to do so before hostilities were commenced, and not after.

In accordance with these principles, when the war of the French Revolution commenced, instructions were given on

¹ The rule of 1756 had been acted upon even by France on previous occasions See Note 1, On the practice of the British Prize Courts with regar! to the Colonial trade of the Enemy during the American War, in 6 Rob Rep. App.; and Considerations sur l'Admission des Narires neutres aux Colonies frantouies de l'Amérique en Tems de Guerre, p. 13, 1779; and see the Wilhelmina, 4 Rob. Rep., p. 4; and the Immanuel Tudor — Leading Cases of Mercantile Law, p. 814.

Nov. 6, 1793, to the commanders of British ships of war and privateers, ordering them "to stop and detain for lawful adjudication all vessels laden with goods, the produce of any French colony, or carrying provisions or other supplies for the use of any such colony." And this order was the more necessary from the fact that American ships were crowding the ports of the French West Indies, where the flag of the United States was made to protect the property of the French planters. Great numbers of ships under American colors were thus taken in the West Indies and condemned, the fraudulent pretences of neutral property in the cargoes being too gross to be misunderstood. Complaints were, however, made of the hardships of this practice on the bona fide American trader, and in January, 1794, the instructions were so far amended that the direction was to seize "such vessels as were laden with goods the produce of the French West India Islands, and coming directly from any ports of the said islands to Europe." This rule continued in force till 1798, when again it was relaxed by ordering that vessels should be seized "laden with the produce of any island or settlement of France, Spain, or Holland, and coming directly from any port of the said island or settlement to any port in Europe, not being a port of this kingdom, or of the country to which the vessel, being neutral, should belong." European neutrals were thus permitted to bring the produce of the hostile colonies from thence to ports of their own countries; and European or American neutral ships might carry such produce direct to England. But when the war was resumed in 1803 the rule of 1798 was again put in force, and instructions were given "not to seize any neutral vessels which should be found carrying on trade directly between the colonies of the enemy and the neutral country to which the vessel belonged, and laden with property of the inhabitants of such neutral country, provided that such neutral vessel should not be supplying nor should have on the outward voyage supplied the enemy with any articles of contraband of war, and should not be trading with any blockaded ports."

By thus a from neutra for a neutri nation to m ent State, o and thence bottom to w they might the parent S method, was voyages, beca ish, or Danis plausible mas might make slipping into intermediate r Spaniards and duce, because 1 that would cor of a ship comi near the end o ports. The A. could scarcely ing our hostilit the latter. Su such was the eff homeward boun ports with very also the case, th coming from th Last Indies. T cially, rue, so ships bound from great Spanish po touch at certain any deviation. Indies the proper than would well

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By thus allowing, however, neutrals to trade safely to and from neutral ports, means were opened to them to clear out for a neutral port, and under cover of that pretended destination to make a direct voyage from the colony to the parent State, or really to proceed to some neutral country. and thence re-export the cargo in the same or a different bottom to whichever European market, neutral or hostile, they might prefer. The former, on an assumed voyage to the parent State, being the shortest and most convenient method, was chiefly adopted by the Dutch on their homeward voyages, because a pretended destination for Prussian, Swedish or Danish ports in the North Sea or the Baltic was a plausible mask, even in the very closest approach the ship might make to the Dutch coast down to the moment of her slipping into port. The latter method, or the stopping at an intermediate neutral country was commonly preferred by the Spaniards and French in bringing home their colonial produce, because no pretended neutral destination could be given that would consist with the geographical position and course of a ship coming directly from the West Indics, if met with near the end of her voyage in the latitude of their principal ports. The American flag in particular was a cover that could searcely ever be adapted to the former method of eluding our hostilitics, but it was found peculiarly convenient in the latter. Such is the position of the United States, and such was the effect of the trade-winds that European vessels, homeward bound from the West Indies, could touch at their ports with very little inconvenience or delay; and such was also the case, though in a less degree with regard to vessels coming from the remotest parts of South America or the Last Indies. The passage from the Gulf of Mexico, especially, ruy, so close along the North American shore that ships bound from the Havannah, from Vora Cruz, and other great Spanish ports bordering on that gulf to Europe could touch at certain ports in the United States with scarcely any deviation. On an outward voyage to the East and West Indies the proper course would be more to the southward than would well consist with touching on North America;

yet the deviation for that purpose was not a very formidable inconvenience. From these causes the protection given br the American flag to the intercourse between our European enemies and their colonies was chiefly in the way of a double voyage, in which America was the half-way house or central point of communication. The fabrics and commodities of France, Spain, and Holland were brought under American colors to ports in the United States, and from thence reexported under the same flag for the supply of the hostile Again, the produce of these colonies was brought colonies. in a like manner to the American ports and thence reshipped to Europe. But the Americans went still farther. The ports of this kingdom having been constituted by the royal instructions of 1798, legitimate places of destinction for neutrals coming with cargoes of produce directly from the hostile colonies, the American merchants made a pretended destination to British ports a convenient cover for a voyage from the hostile colonies to Europe, which their flag could not otherwise give, and thus rivalled the neutrals of the old world in this method of protecting the West India trade of the enemy, while they nearly engrossed the other. As the war advanced, after the Peace of Amiens, the neutrals became bolder and more aggressive. American ships were constantly arriving at Dutch and French ports with sugar, coffee, and other productions of the French and Spanish West Indies. And East India goods were imported by them into Spain, Holland, and France.

By these and other means Hamburgh, Altona, Emden, Gottenburgh, Copenhagen, Lisbon, and other neutral markets were glutted with the produce of the West Indies and the fabrics of the East, brought from the prosperous colonies of powers hostile to this country. By the rivers and canals of Germany and Flanders these were floated into the warehouses of the enemy or circulated for the supply of his customers in neutral countries. He rivalled the British planter and merchant throughout the continent of Europe, and in all ports of the Mediterranean, and even supplanted the manufacturers of Manchester, Birmingham, and Yorkshire,

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and by these means the hostile colonies derived benefit, and not inconvenience, from the enmity of Great Britain. What moreover, especially injured the commerce of this country was the increase in the cost of importation into this country from the British colonies, from freight, insurance, and other charges, which taken together were as much as, if not superior to, those to which the enemy was subjected in his covert and circuitous trade. It was a general complaint, therefore, that the enemy carried on colonial commerce under the neutral flag cheaply, as well as safely; that he was enabled not only to elude our hostilities, but to rival our merchants and planters in the European markets; that by the same means the hostile treasuries were filled with a copious stream of revenue; and that by this licentious use of the neutral flag, the enemy was enabled to employ his whole military marine for purposes of offensive war, without being obliged to maintain a squadron or a ship for the defence of his colonial ports. It was, moreover, contended that, since neutral States have no right, but through our own gratuitous concession, to carry on the colonial trade of the enemy, we might after a reasonable notice withdraw that ruinous indulgence; that the neutral did not require such principles; that the comparative cheapness of his navigation gives him in every open market a decisive advantage; that in the commerce of other neutral countries he could not fail to supplant the belligerent; and that he obtained an increase of trade by purchasing from one belligerent and selling to his enemies the merchandise for which, in time of peace, they depended on each other.

Such complaints made against neutral States found a powerful echo by the publication of a work entitled "War in Disguise and the Frauds of the Neutral Flag," supposed to have been written by Mr. James Stephen, the real author of the orders in council. The British government did not see its way at once to proceed in the direction of prohibiting to neutral ships the colonial trade, which they had enjoyed for a considerable time; but the first step was taken to paralyze the resources of the enemy, and to restrict the trade of neu-

trals by the issue of an order in council in May, 1806, declaring that all the coasts, ports, and rivers from the Elbe to Brest should be considered blockaded, though the only portion of those coasts rigorously blockaded was that included between Ostend and the mouth of the Seine, in the ports of which preparations were made for the invasion of England. The northern ports of Germany and Holland were left partly open, and the navigation of the Baltic altogether free.

Napoleon, then in the zenith of his power, saw in this order in council a fresh act of wantonness, and he met it by the issue of the Berlin decree of Nov. 21, 1806. In that document, remarkable for its boldness and vigor, Napoleon charged England with having set at naught the dietates of international law, with having made prisoners-of-war of private individuals, and with having taken the crews out of merchant ships. He charged this country with having captured private property at sea, extended to commercial ports the restrictions of blockade applicable only to fortified places, declared as blockaded places which were not invested by naval forces, and abused the right of blockade in order to benefit her own trade at the expense of the commerce of continental States. He asserted the right of combating the enemy with the same arms used against himself, especially when such enemy ignored all ideas of justice, and every liberal sentiment which eivilization imposes. He announced his resolution to apply to England the same usages which she had established in her maritime legislation. He laid down the principles which France was resolved to act upon until England should recognize that the rights of war are the same on land as on sea, that such rights should not be extended either against privote property or against persons not belonging to the military or maval forces, and that the right of blockade should be restricted to fortified places truly invested by sufficient And upon these premises the decree ordered: 1st, forces. that the British islands should be declared in a state of blockade; 2d, that all commerce and correspondence with the British islands should be prohibited, and that letters addressed to England or Englishmen written in the English

language s ish subject by those o 4th, that a subjects sh merce in H that all me and of Brit and 6th, that colonies be subject to Fr means of a fa should at on

The British France for sc in council wa issued by Fran to trade from to another of a sels; and order vateers to warn port, and destivoyage, and th should be found captured and con cil having read ordered the con lonial produce f Napoleon's com carried on trade was to prevent s Hamburg; that a Hamburghers for in forty-eight ho military punishn Britain in return eil, Nov. 11, 1807, and those of her al

language should be detained and taken; 3d, that every British subject found in a country occupied by French troops or by those of their allies should be made a prisoner-of-war; 4th, that all merchandise and property belonging to British subjects should be deemed a good prize; 5th, that all commerce in English merchandise should be prohibited, and that all merchandise belonging to England or her colonies, and of British manufacture, should be deemed a good prize; and 6th, that no vessel coming direct from England or her colonies be allowed to enter any French port or any port subject to French authority; and that every vessel which, by means of a false declaration, should evade such regulations should at once be captured.

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The British government lost no time in retaliating against France for so bold a course; and on Jan. 7, 1807, an order in council was issued, which, after reference to the orders issued by France, enjoined that no vessel should be allowed to trade from one enemy's port to another, or from one port to another of a French ally's coast shut against English vessels; and ordered the commanders of the ships of war and privateers to warn every neutral vessel coming from any such port, and destined to another such port, to discontinue her voyage, and that any vessel, after being so warned which should be found proceeding to another such port should be captured and considered as lawful prize. This order in council having reached Napoleon at Warsaw, he immediately ordered the confiscation of all English merchandise and colonial produce found in the Hanseatic Towns. Bourrienne, Napoleon's commissioner at Hamburg, declared that all who carried on trade with England supported England; that it was to prevent such trading that France took possession of Hamburg; that all English goods should be produced by the Hamburghers for the purpose of being confiscated; and that in forty-eight hours, domiciliary visits would be paid and military punishments inflicted on the disobedient. But Britain in return went a step further, and by order in council, Nov. 11, 1807, declared all the ports and places of France, and those of her allies and of all countries where the Euglish

flag was excluded, even though they were not at war with Britain, should be placed under the same restrictions for commerce and navigation as if they were blockaded; and consequently that ships destined to those ports should be liable to the visit of British cruisers at a British station, and there subjected to a tax to be imposed by the British Parliament.¹

Napoleon was at Milan when this order in council was issued, and forthwith, on December 17, the famous decree appeared by which he imposed on neutrals just the contrary of what was prescribed to them by England, and further declared that every vessel, of whatever nation, that submitted to the order in council of November 11 should by that very act become denationalized, considered as British property, and condemned as a good prize. The decree placed the British islands in a state of blockade, and ordered that every ship, of whatever nation, and with whatever cargo, proceeding from English ports or English colonies to countries occupied by English troops, or going to England, should be a good prize. This England answered by the order in council of April 26, 1809, which revoked the order of 1807 as regards America, but confirmed the blockade of all the ports of France and Holland, their colonics and dependencies. And then France, still further incensed against England, issued the tariff of Trianon, dated Aug 5, 1810, completed by the decree of St. Cloud of September 12 and of Fontainebleau of October 19, which went the length of ordering the seizure and burning of all British goods found in France, Germany,

¹ One of the fruits of the great blockade was the introduction of beet-root sugar. In 1810, the price of sugar being very high, experiments were made to make sugar from the beet-root, and the results were encouraging. In 1811 and 1812 the Government put at the disposal of the Minister of Agriculture 100,000 arpents of land and 1,000,000 f., as well as the exemption from all taxes on native sugar, and works for the purpose were constructed all over the country. But as soon as the blockade was removed native sugar could no longer compete with foreign sugar, and most of the works were abandoned. In 1812 Benjamin Delessert found the way of making the grains of beet-root sugar as fine as those of cane sugar. And Vilmorin was able to make a kind of while beet-root very nearly as rich as the beet-root of Silesia. In 1829 there were 100 sugar factories, which produced 5,000,000 kilos of sugar. In 1832 beef production was double. In 1837 there were 436 sugar works, and now the beef root enters largely in the sugar industry all over the Continent. Holland, Ita troops. St part in this Rhenish Co purpose of e out of hatre devotion tow from Cassel were made of French that v carrying out the order.

By means greatly derang fered more fro to be effectua ports, that we ports also ? W the principal p ate from us al to inflict so g force them to scarcely possib the world was Admiralty are American ship ica to Vigo, or was sold under o risk, and the ve when she was from her convoy lugger which can the storm moder The lugger cont times astern and hours. But a E

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Holland, Italy, Spain, and in every place occupied by French troops. Strange infatuation! and how many States took part in this mad act of vindictiveness! The princes of the Rhenish Confederation hastened to execute it, some for the purpose of enriching themselves by the wicked deed, some out of hatred towards the English, and some to snow their devotion towards their master. From Carlsruhe to Munich, from Cassel to Dresden and Hamburg, everywhere, bonfires were made of English goods. And so exacting were the French that when Frankfort exhibited the least hesitation in earrying out the decree French troops were sent to execute the order.

By means such as these the commerce of the world was greatly deranged, if not destroyed altogether; and none suffered more from it than England herself. Was it not enough to be effectually shut out from all commerce with French ports, that we should have provoked the closing of neutral ports also? Was it politic, at a time when our relations with the principal powers were in a condition so critical, to alienate from us all the neutral States of Europe? Was it wise to inflict so grievous an injury upon neutral States, as to force them to make common cause with the enemy? It is scarcely possible to describe at what peril the commerce of the world was carried on. The proceedings of the Court of Admiralty are full of the most romantic incidents. An American ship 1 with a cargo of tobacco was sent from America to Vigo, or to a market for sale. At Vigo the tobacco was sold under contract to deliver it at Seville at the master's risk, and the vessel was going to Seville to deliver the cargo when she was captured. A British vessel² was separated from her convoy during a storm and brought out by a French lugger which came up and told the master to stay by her till the storm moderated when they would send a boat on board. The lugger continued alongside sometimes ahead and sometimes astern and sometimes to windward for three or four hours. But a British frigate coming in sight gave chase to

¹ The "Atlas," 3 Rob. Rep., p. 299.

² The "Edward and Mary," 3 Rob. Rep., p. 305.

the lugger and captured her, during which time the ship made her escape, rejoined the convoy and came into Poole. Ships were taken because they were sailing to false destinations under false papers, false flags, false certificates of ownership, and false bills of sale. They were seized for running the blockade, and for escaping from blockaded ports. They were arrested for carrying despatches, military men, and contraband of war. In every way, at every point of the ocean, the pursuit was carried on, till the seas were cleared of merchant ships, and the highway of nations, the widest and freest arena for trade, was converted into an amplitheatre for the display of the wildest and worst excesses of human cupidity and passions.

But a greater evil than even this extreme derangement of maritime commerce was that which flowed from the system of licenses, 1 an evil which undermined the first principles of commercial morality. It was forcibly stated by the Marquis of Lansdowne that the commerce of the country was one mass of simulation and dissimulation; that our traders crept along the shores of the enemy in darkness and silence, waiting for an opportunity of carrying into effect the simulative means by which they sought to carry on their business; that such a system led to private violation of morality and honor of the most alarming description; and that instead of benefiting our commerce, manufactures, and resources, the orders in council diminished our commerce, distressed our manufactures, and lessened our resources. Yet all these warnings and expostulations were unheeded. The national mind was preoccupied by the one thought of compelling France and her military leader to a complete submission; and no consideration of a commercial or pecuniary character, no regard to the bearing of her measures upon other countries were sufficient to induce a reversal of this military and naval policy.

Upwards of fifteen years had elapsed since the first shot was fired between England and France after the great revolu-

tion, and y securing th learned by t she had fou way to the But the attit threatening, revising the Lord Temple. Nichols had a long discus opinion this from the Uni whole of thei such orders in the issuing of was an act of the nation was when Lord Gre 1809 he met w. United States, proceeded still hostilities, the subject; and fr ports petitions c tion of the obn represented that from the want o nent of Europe; wages of labor ve additional sufferi the evils then su war, it was all-ir toration of the bl dread of the ener a desire that no negotiations for t great error to sur

¹ The number of commercial licenses granted for imports and exports πII 68 in 1802, 836 in 1803, 1,141 in 1804, 791 in 1805, 1,620 in 1806, 2,606 in 1807. 4,910 in 1808, 15,226 in 1809, 18,356 in 1810, and 7,602 in 1811

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tion, and yet the two nations were as intent as ever on securing their mutual destruction. England had indeed learned by this time to make light of all such decrees, and she had found by experience that British goods found their way to the Continent in spite of all vindictive measures. But the attitude of the United States became more and more threatening, and the nations saw an absolute necessity for revising the policy of the orders in council. For years past Lord Temple, Lord Castlereagh, Mr. Perceval, and Sir John Nichols had brought the subject before the House, and many a long discussion had taken place on the subject. In their opinion this country had, without any alleged provocation from the United States of America, interrupted nearly the whole of their commerce with Europe, and they held that such orders in council were unjust and impolitic, and that the issuing of them at the time and under the circumstance's was an act of the utmost improvidence and rashness. Yet the nation was disposed to be guided by the government; and when Lord Grenville moved resolutions of similar import in 1809 he met with no better response. When, however, the United States, after having passed the Non-intercourse Act, proceeded still further in the way of preparation for open hostilities, the merchants began to speak their mind on the subject; and from London, Hull, Bristol, and all the chief ports petitions came to the legislature praying for the revocation of the obnoxious orders. The merchants of London represented that trade was in a miserable condition, chiefly from the want of the customary intercourse with the continent of Europe; that employment was very scarce, and the wages of labor very low; that the aspect of affairs threatened additional suffering to those then experienced; that since all the evils then suffered were owing to the continuance of the war, it was all-important to obtain if possible an early restoration of the blessings of peace; that it was not from any dread of the enemy that they made such a request, but from a desire that no opportunity might be lost of entering into negotiations for the purpose; that in their opinion it was a great error to suppose that the policy of the orders of the

council could in any way be beneficial to trade; but that, on the contrary, they regarded with extreme apprehension its effect on our relations with the United States of America. The merchants of Hull complained that the system of license sapped public morals; those of Bristol represented that they suffered intensely in their general trade; and riots occurred in Lancashire, Yorkshire, and Cheshire.

On April 28, 1812, the House of Commons agreed without a division to hear evidence in support of these petitions; and on June 16 Mr., afterwards Lord, Brougham moved "That an humble address be presented to his Royal Highness the Prince Regent, representing to his Royal Highness that this House has for some time past been engaged in an inquiry into the present depressed state of the manufactures and commerce of the country, and the effects of the orders in council issued by his Majesty in the years 1807 and 1809; assuring his Royal Highness that this House will at all times support his Royal Highness to the utmost of its powers, in maintaining those just maritime rights which have essentially contributed to the prosperity and honor of the realm; but beseeching his Royal Highness that he would be graciously pleased to recall or suspend the said orders, and to adopt such measures as may tend to conciliate neutral powers without sacrificing the right and dignity of his Majesty's crown." In the most graphic manner Lord Brougham depicted the distress of the country, showed how erroncous was the idea that what we lost in the European trade we gained in any other quarter, and warned the country of the certainty of a war with America if the orders were not at once rescinded. "I know," he said, "I shall be asked whether I would recommend any sacrifice for the mere purpose of conciliating America. I recommend no sacrifice of honor for that or for any purpose; but I will tell you that I think we can well and safely for our honor afford to conciliate America. Never did we stand so high since we were a nation in point of military character. This unhappy We have it in abundance and even to spare. and scemingly interminable war, lavish as it has been in treasure, still more profuse of blood and barren of real ad-

vantage, h have not 1 which would scarcely po covered our this glory, for the purp this and its reap from th us safely to graceful com acter but of on doubtful g ing thought a pacify our Ar a proud, a wa conquered wh nally fixed; i of it we may which we kno ousy of Ameri what it rests. Jealonsy of An ous of the tra the client who of America! w ing, since your proving) attemp not lay siege t which is necess it had all the a and all the navy conquest which well as navy to to be perfectly] for our honor's jealousy for the no such phanton

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vantage, has at least been equally lavish of glory. Its feats have not merely sustained the warlike fame of the nation, which would have been much; they have done what seemed scarcely possible, - they have greatly exalted it. They have covered our arms with immortal renown. Then, I say, use this glory, - use this proud height on which we now stand, for the purpose of peace and conciliation with America. Let this and its incalculable benefits be the advantage which we reap from the war in Europe, for the fame of that war enables us safely to take it. And who, I demand, give the most disgraceful counsels, - they who tell you we are in military character but of vesterday, we yet have a name to win, we stand on doubtful ground, we dare not do as we list for fear of being thought afraid, we cannot without loss of name stoop to pacify our American kinsmen? or I, who say we are a great, a proud, a warlike people; we have fought everywhere and conquered wherever we have fought; our character is eternally fixed; it stands too firm to be shaken, and on the faith of it we may do towards America safely for our honor that which we know our interests require? This perpetual jealousy of America! Good God! I cannot with temper ask on what it rests! It drives me to a passion to think of it! Jealousy of America! I should as soon think of being jealous of the tradesman who supplies me with necessaries, or the elient who entrusts his suits to my patronage. Jealousy of America! whose armies are as yet at the plough, or making, since your policy has willed it, so awkward (though improving) attempts at the loom; whose assembled navies could not lay siege to an English harbor! Jealousy of a power which is necessarily peaceful as well as weak, but which if it had all the ambition of France and her armies to back it, and all the navy of England to boot, - nay, had it the lust of conquest which marks your enemies, and your own army as well as navy to gratify it, - is placed at so vast a distance as to be perfectly harmless! And this is the nation of which for our honor's sake we are desired to cherish a perpetual jealousy for the ruin of our best interests! I trust, sir, that 10 such phantom of the brain will scare us from the path of

our duty. The advice which I tender is not the same which has at all times been offered to this country. There is one memorable era in our history when other uses were made of our triumphs from those which I recommend. By the treatr of Utrecht, which the reprobation of ages has left inade. quately censured, we were content to obtain, as the whole price of Ramillies and Blenheim, an additional share of the accursed slave trade. I give you other counsels. I should have you employ the glory which you have won at Talavera and Corunna in restoring your commerce to its lawful, open. honest course, and rescue it from the mean and hateful channels in which it has lately been confined. And if any thoughtless boaster in America or elsewhere should vaunt that you have yielded through fear, I would not bid him wait until some new achievement of our arms put him to silence, but I would counsel you in silence to disregard him."

The effect of such an appeal was fatal to the whole system. The government saw that resistance was no longer possible, and on April 21 the Prince Regent made a declaration that the orders in council would be revoked as soon as the Berlin and Milan decrees should be repealed. But it was too late. America had by this time ceased to maintain a neutral atti-And having made a secret treaty with Napoleon, she tude. issued an embargo on all British vessels in American ports, deelared war against England, and proceeded to make an ineffectual attack upon Canada. The political condition of Europe, however, at this stage happily assumed a brighter aspect. The long-desired peace began to dawn on the horizon, and in rapid succession the news came of the battle of Leipzig, the entry of the Allies into Paris, and the abdication of Bonaparte. Negotiations then commenced in earnest, and they issued in the treaty of peace and Congress of Vienna, which once more restored order and symmetry in the political organization of Europe.¹ On Dec. 24, 1814, a treaty of

¹ The total cost of the war with France, from 1798 to 1815 (the war expenditure continued till 1817), was £881,446,449. The national debt, which, is 1798, amounted to £247,874,434, rose in 1815 to £861,030,049.

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¹ The treat political condition came bound to the 1,135,000 m 15, France und tion, to pay all men for five y Hamburg, Ama losses and destr all these claims houses of Barin

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¹ The treaties of Vienna had to deal with the financial as well as with the political condition of States. By agreement dated August 10, 1815, France became bound to pay 185,840,130f. to the Allied Powers for the maintenance of the 1,135,000 men, the army of occupation. And by the treaty of November 15, France undertook to pay 700,000,000f. to the Allied Powers as war contribution, to pay all legitimate debts, and also the expense of occupation of 150,000 men for five years. Numerous claims were, moreover, made by the Banks of Hamburg, Amsterdam, Genoa, the Swiss bankers, and many merchants for iosses and destruction of their property, amounting in all to 2,700,000,000f., and all these claims were settled by means of loans contracted with the banking houses of Baring and Hope.'

VI.

THE FINANCES OF ENGLAND, 1793-1815.

FROM PORTER'S PROGRESS OF THE NATION,¹ SECTION IV.

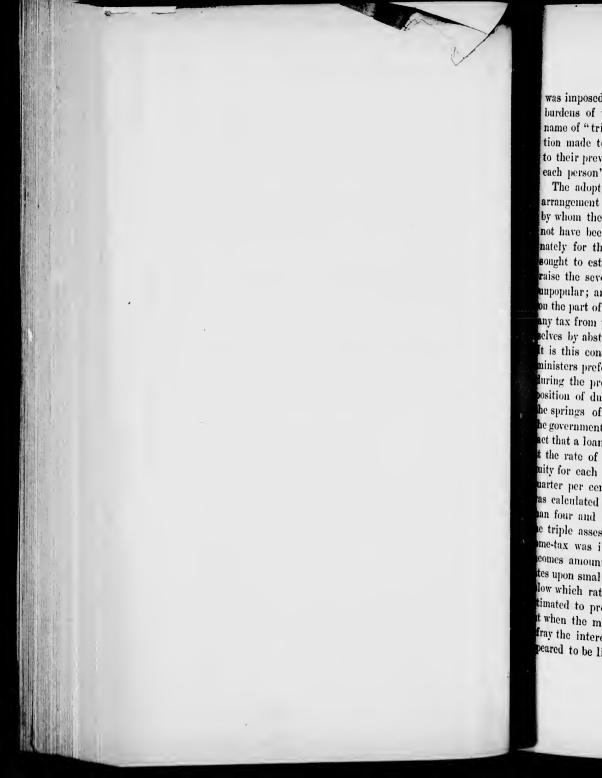
CHAPTER L

IN order to give an intelligible account of the financial state of the kingdom at the beginning of the present century, it is necessary to explain briefly the system which had been brought into operation by Mr. Pitt during the preceding three years.

In November, 1797, that minister had recourse to what he was pleased to call "a perfectly new and solid system of finance." The public expenditure of that year amounted to twenty-five and a half millions, of which sum only six and a half millions were provided for by existing unmortgaged taxes, leaving nineteen millions to be raised by extraordinary means. In the then condition of the money market it was felt to be impossible to borrow such an amount in the ordinary manner, that is, providing by new taxes for the payment of only the permanent annual burden occasioned by the increased debt; and a new impost, calculated to produce seven millions, was sanctioned by parliament, which impost was to be continued until it should in conjunction with the produce of the sinking-fund, repay the twelve millions that would be still deficient. This new system of finance might have been entitled to the character given of it by Mr. Pitt, if it had not been probable, - nay, certain, that in the following years an equal expenditure must be met by similar means. until the seven millions would prove inadequate even for the payment of the annual interest of the sums for which the tar

¹ London: John Murray, 1851.

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was imposed, when it would become part of the permanent burdens of the country. This new impost, to which the name of "triple assessment" was given, was in fact an addition made to the assessed taxes, "in a triplicate proportion to their previous amount,— limited, however, to the tenth of each person's income."

The adoption of this or some similar plan of financial arrangement was hardly a matter of choice with the minister by whom the funding system, as ordinarily practised, could not have been any further pursued at that time. Unfortunately for the success of the principle which it was thus sought to establish, the mode in which it was proposed to aise the seven millions of additional revenue was highly unpopular; and indeed it has always excited dissatisfaction on the part of the public to be called on for the payment of ny tax from which they have not the power to protect themelves by abstaining from the use of the taxed commodity. It is this consideration which has always made our finance ministers prefer indirect to direct taxation, and which led, luring the progress of a long and expensive war, to the imposition of duties that weighed with destructive force upon he springs of industry. The financial difficulties by which he government was then embarrassed may be known from the et that a loan of three millions was raised in April, 1798, t the rate of £200 three per cent stock, and 5s. long annity for each £100 borrowed, being at the rate of six and a uarter per cent, and that the "triple assessment," which as calculated to produce seven millions yielded no more an four and a half millions. In the following December e triple assessment was repealed, and in lieu of it an inme-tax was imposed at the rate of ten per cent upon all comes amounting to £200 and upwards, with diminishing tes upon smaller incomes, down to sixty pounds per annum, low which rate the tax was not to apply. This tax was timated to produce ten millions: it was called a war tax; t when the minister proceeded to mortgage its produce to ray the interest of loans to a large amount such a name peared to be little better than a delusion. Like the triple

assessment, the produce of the income-tax fell greatly short of its estimated amount and yielded no more than seven millions, a large part of which was quickly absorbed to defray the interest of loans for which it was successively pledged. In 1801, after deducting the sums thus chargeable on it, this tax produced only four millions towards the national expenditure. In proposing a loan of twenty-five and a half millions for the service of that year, it was considered inexpedient to morigage the income-tax any further, and new taxes were imposed estimated to yield £1,800,000 per annum. In March, 1802, peace was made with France, and in the same month notice was given by the Chancellor of the Exchequer, Mr. Addington, of his intention to repeal the income-tax, which was felt to be bi, my oppressive, and had become more and more odious to the people. In effecting this repeal, and at the same time to keep faith with the public creditors to whom its produce had been mortgaged to the extent of fifty-six and a half millions of three per cent stock, additional taxes were imposed upon beer, malt, and hops and a considerable increase was made to the assessed taxes; besides which an addition under the name of a modification was made to the tax on imports and exports previously know under the name of the convoy duty.

At this time the aggregate amount of permanent tare was thirty-eight and a half millions, exactly double what had been at the breaking out of the war in 1793. During those nine years taxes to the amount of £280,000,000 eclusive of the cost of collection had been levied from the peple; and a few words are necessary in order to account for the seeming contradiction implied in the fact that, notwithstanding this ruinous rate of expenditure, many of the great interests throughout the country wore the outward appearanced prosperity. A nation engaged in an expensive war, while calls for the systematic expenditure of large sums beyond its income may be likened to an individual spendthrift during his career of riot and extravagance; all about him wars the aspect of plenty and prosperity, and this appearance will continue until his means begin to fail, and those who have

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fattened upon his profusion are at length sent away empty. The enormous expenditure of the government joined to the state of the currency (as already explained) necessarily eaused a general and great rise of prices; as regarded agricultural produce, this effect was exaggerated by the ungenial nature of the seasons. Rents had risen throughout the country in a far greater degree than the necessary expenditure of the landowners, who thence found their situations improved, notwithstanding the additional load of taxation. The great number of contractors and other persons dealing with the government had derived a positive benefit from the public expenditure, and being chiefly resident at the seat of government, they were enabled greatly to influence the tone of public opinion. The greater command of money thus given to considerable classes occasioned an increased demand for luxuries of foreign and domestic production, from which the merchants and dealers derived advantage. There were besides other classes of persons who profited from the war expenditure. These were the producers of manufactured goods and those who dealt in them, and who found their dealings greatly increased by means of the foreign expenditure of the government in subsidies and expeditions, the means for which were furnished through those dealings; the manufacturers were at the same time beginning to reap the advantages that have since been experienced in a more considerable degree from the series of inventions begun by Hargreaves and Arkwright, and which acted in some degree as palliatives to the evil effects of the government profusion.

As in the case of the spendthrift, while all these causes were in operation there was an appearance of prosperity, and those who were profiting from this state of things were anxious to keep up the delusion. That it was no more than delusion will be at once apparent to all who examine below the surface, and who inquire as to the condition of poverty and wretchedness into which the great mass of the people were then plunged. In some few cases there had been an advance of wages; but this occurred only to skilled artisans, and even with them the rise was wholly incommensurate with the

increased cost of all the necessaries of life. The mere laborer - he who had nothing to bring to market but his limbs and sinews-did not participate in this partial compensation for high prices, but was in most cases an eager competitor for employment at the same or nearly the same wages as had been given before the war. Nor could it well be otherwise, since the demand for labor can only increase with the increase of the capital destined for the payment of wages; and we have seen that capital, so far from being suffered to accumulate, was dissipated by the government expenditure more rapidly than it could be accumulated by individuals. In London and its vicinity the rates of wages are necessarily higher because of the greater expense of living than in country districts; and it is asserted from personal knowledge of the fact that at the time in question there was a superabundant supply of laborers constantly competing for employment at the large government establishments, where the weekly wages did not exceed 15s., while the price of the quartern loaf was 1s. 10d., and the other necessary outgoings of a laborer's family were nearly as high in proportion. If we contrast the weekly wages at the two periods of 1790 and 1800, of husbandry laborers and of skilled artisans, measuring them both by the quantity of wheat which they could command, it will be seen that the former could in 1790 purchase eighty-two pints of wheat, and in 1800 could procure no more than fifty-three pints, while the skilled artisan, who in 1790 could buy one hundred and sixty-nine pints, could procure in 1800 only eighty-three pints. To talk of the prosperous state of the country under such a condition of things It would be more correct involves a palpable contradiction. to liken the situation of the community to that of the inhabitants of a town subjected to a general conflagration, in which some became suddenly enriched by carrying off the valuables, while the mass were involved in ruin and destitution.

It may be objected to the view here taken, but which is founded upon facts that hardly admit of controversy, that had the condition of the country been such as is represented, we must have sunk under the greater efforts we were so soon

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after ealled lieve that but improvement almost mag kingdom, it the combina upon to cont powerful agen over difficulti been shown in

THE public was begun in in 1801 and 1 1815, was cond In 1792, the las of the kingdon £9,767,333 int rent expenditur upon the debt t £106,832,260 p bursements of t outlay ever made million of the s

It is hardly po ture could have a nitude. The star was made to suft that followed, suf that followed, suf The financial effo several preceding that was continua above mentioned; the debt, during the averaged £84,067 after called on to sustain; and there is every reason to believe that but for the invention of the spinning-jenny and the improvements in the steam-engine, which have produced such almost magical effects upon the productive energies of this kingdom, it would have been impossible to have withstood the combination with which single-handed we were called upon to contend. The manner and degree in which these powerful agents have enabled us to withstand and to triumph over difficulties unparalleled in the history of the world have been shown in a preceding section of this inquiry.

CHAPTER II.

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THE public expenditure of England during the war which was begun in 1793 and continued (with short intermissions in 1801 and 1814) until the final overthrow of Napoleon in 1815, was conducted throughout upon a truly gigantic scale. In 1792, the last year of peace, the entire public expenditure of the kingdom was £19,859,123, which sum included £9,767,333 interest upon the public debt. In 1814 the current expenditure amounted to £76,780,895, and the interest upon the debt to £30,051,365 making an aggregate sum of £106,832,260 paid out of the public exchequer for the disbursements of that one year. This is the largest annual outlay ever made; that of the previous year was within one million of the same amount.

It is hardly possible to conceive that the public expenditure could have been long continued upon this scale of magnitude. The state of exhaustion under which the country was made to suffer, during the first few years of the peace that followed, sufficiently attests the truth of this opinion. The financial efforts of the government had been made for several preceding years with a degree of lavish profusion that was continually augmented until it reached the height above mentioned; the expenditure, including interest upon the debt, during the ten years from 1806 to 1815 inclusive, averaged £84,067,761 per annum, sums which, until the

years in which they were actually expended it would have been considered wholly chimerical to expect to raise. The experience of that period has shown how impossible a thing it is to judge correctly from the past as to the growing resources of our country, or it might be confidently affirmed that during the concluding years of this series we had assuredly reached the limit of possibility. Without that experience for their guidance, our ancestors, in former but not very remote times, gave way to gloomy forebodings as to their future prospects, at which we cannot but smile when thinking of the comparatively pygmy efforts which called them forth. Some of those forebodings have been recorded by Sir John Sinclair in his work on the public revenue of this kingdom. A few passages upon the subject taken from that work, and with the dates at which they were written, may not be without interest to the reader at the present moment.

1736. "The vast load of debt under which the nation still groans is the true source of all those calamities and gloomy prospects of which we have so much reason to complain. To this has been owing that multiplicity of burdensome taxes which have more than doubled the price of the common necessaries of life within a few years past, and thereby distressed the poor laborer and manufacturer, disabled the farmer to pay his rent, and put even gentlemen of plentiful estates under the greatest difficulties to make a tolerable provision for their families."¹

At the time this gloomy picture was drawn the public debt did not exceed £50,000,000, and the annual charge on that account was somewhat under £2,000,000, being considerably below the sums added to the public burdens in the single year 1814.

1749. "Our parliamentary aids, from the year 1740, exclusively, to the year 1748, inclusively, amount to $\pounds 55, 522, 159$ like. 3d., a sum that will appear incredible to future generations, and is so almost to the present. Till we have paid a good part of our debt, and restored our country in some measure to her former

¹ The Craftsman, No. 502, 14th February, 1736.

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The debt, tributed, wa est scarcely 1756. "I arithmeticians but they ackn becoming ban

In the few Hannay's lett so that it am charge on the 1761. "That tary security ocment of this per the more likely a opulence and cr apparent, and th

The public b possible limit amounted to ne to £4,800,000. that period and a succession of 1 up the accounts £268,000,000, a the 5th of Januar war of the Frence same as at the t funded and unfun

¹ Some Reflections Lord Bolingbroke.

¹ Letters by Samuel ⁴ Hume's History of e

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wealth and power, it will be difficult to maintain the dignity of Great Britain, to make her respected abroad, and secure from injuries or even affronts on the part of her neighbors."¹

The debt, to the effects of which so much evil is here attributed, was still under £80,000,000, and the annual interest scarcely more than £3,000,000.

1756. "It has been a generally received notion among political arithmeticians, that we may increase our debt to £100,000,000, but they acknowledge that it must then cease, by the debtor becoming bankrupt."²

In the few years that preceded the publication of Mr. Hannay's letters the debt had been somewhat diminished, so that it amounted to about £75,000,000, and the annual eharge on the country to £2,400,000.

1761. "The first instance of a debt contracted upon parliamentary security occurs in the reign of Henry VI. The commencement of this pernicious practice deserves to be noted, — a practice the more likely to become pernicious the more a nation advances in epulence and credit. The ruinous effects of it are now become apparent, and threaten the very existence of the nation.""

The public burdens had by this time so far exceeded the possible limit assigned by Mr. Hannay, that the debt amounted to nearly £150,000,000, and the annual interest to £4,800,000. The amount was somewhat reduced between that period and the breaking out of the American war, when a succession of loans again became necessary. On winding up the accounts of that contest, the debt amounted to £268,000,000, and the annual charge to £9,500,000. On the 5th of January, 1793, just before the beginning of the war of the French Revolution, the debt continued nearly the same as at the beginning of the peace (the exact amount of funded and unfunded debt, including the value of terminable

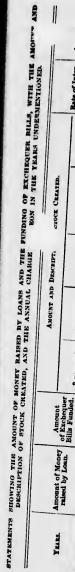
¹ Some Reflections on the Present State of the Nation, by Henry St. John, Lord Bolingbroke.

² Letters by Samuel Hannay, Esq.

¹ Hume's History of England, 8vo edition, 1778, vol. iii. p. 215.

		INCOME.		Expenditure						
¥ 8488.*	Amount of Revenue paid into the Ex- chequer, the pro- duce of taxation.	Amount received on account of Louns and Exchequer bills, beyond the amount redeemed in the year.	Total amount ruled for public uses.	Interest paid on pub- lic debt, funded and unfunded.	Burns applied to re- demption of public delst beyond the amount of loans, etc., in the year.	Current annual pub- lic expenditure.	Total amount paid and expended in the year.			
792	£19,258,814	£	£19.259,814	£9,767,333	£2,421,681	£7,670,109 14,759,208 17,851,213	£19,859,12			
798 1794	19,845,706	4,877,954	24,723,061	9,437,862		14,759,208	24,197,07 27,742.11			
796	19,883,520	30,464,831	50.318.351	10.810.728		37.003.449	48,4141			
796 796 797	21,454,728	22,244,982	43,699,710	11,841,204		80,334,087	48,414,1; 42,175,29 50,740,9; 51,127,24			
797	23,120.940) 91 (00K 000	30,356,873	63,483,813	14,270,616		86,469,993	60,740,00			
799	35,602,444	21.714 803	57,317,307	17.220,983		88,403,421	55.621.40			
800	34,145,584	23,030,529	57,176,118	17.881,561		89,439,706	56,821,35			
801	219,258,814 19,845,705 20,198,074 19,883,520 21,454,728 23,126,940 81,085,863 35,002,444 34,145,584 84,113,146 86,368,149	27,305,271	4219,253,814 27,723,001 27,101,448 50,318,851 43,600,710 53,483,813 47,808,806 57,174,513 61,418,417 51,1006,408 47,802,153	19,945,624		41,883,555	61,329,17 49,549,20			
802	86,368,149 88,609,392	4,877,954 6,196,849 30,464,331 22,244,982 30,354,473 16,855,508 21,714,913 22,030,529 27,916,271 14,638,254 8,752,701 14,538,254 14,570,703 16,849,801 13,035,344 10,432,034 12,296,379 7,792,444 19,143,455	51,006,403 47,802,153 60,747,255 67,747,255 67,747,255 67,747,255 75,003,2255 75,003,2255 76,017,770 74,935,086 84,817,408 89,828,547 106,808,106	20,099,804		15,003,409 90,384,087 80,409,908 83,641,727 89,403,421 89,403,421 89,403,421 89,403,421 89,403,421 89,403,421 89,403,421 89,403,421 89,403,421 41,833,556 88,649,430 44,833,562 44,259,857 45,2577 45,2577 45,2577 45,2577 45,2577	49,549,20			
804	46,176,492	14,570,768	60,747,255	20,726,772		88,649,436	69.376,20			
1905	50,897,706	16 849,801	67,717,507	22,141,426		45,027,892	67,169,31			
1806 1807	59,839,821	10,432,934	69,772,255	23,362,685		44 250,357	68,941,211 67,613.041			
	62,998,191	12,095,044	75,093,285	23,158,982		49,984,105	73,143,06			
1409 1810	63,719,400	12,299,379	76,017,779	24 213.867		52,352,146	76,566,01			
1811	65.178.545	19.143.953	84,817,498	24.977.915		58,757,308	76,865,54 83,735,22			
1812 1818	65,037,850	24,790,697	89,828,547	25,546,508		63,210,816	88,757,84 105,943,72			
1818 1814	68,748,363	39,649,282	108,397.645	28,030,239		77,913,488	105,943,721			
1815	72.210.512	20.241.807	92,452,819	31,576,074		60,704 106	92.280.19			
1816	62,264,546	514,059	108,397,445 105,608,106 92,452,319 62,778,605 52,055,413 53,747,795 52,648,847 54,282,958 55,834,192 55,603,660 57,672,069	31,576,074 32,938,751 31,436,245 30,880,244 30,807,249 31,157,846 31,955,804 20,921,403		32,231,020	92,280,140 65,169,771			
1817	52,055.913		52,055,913	31,436.245	1,826,814	22.018,179	55.281.23 53,348 5.3			
1918 1819	52.648.847		52 648 847	30,807,249	1,624,606 8,163,180 1,918,019 4,104,457	21,436,130	65,406,50			
1820	54,282,958		54,282,958	31,157,840	1,918,019	21,381,382	54,457,247 57,130,585			
1821	55,834,192		55,834,192	81,955,804	4,104,457	21,079,825	67,130,585			
1822 1823	57 672 999		$\begin{array}{c} 55,063,650\\ 57,672,099\\ 59,302,403\\ 57,273,869\\ 54,932,518\\ 55,187,142\\ 50,786,682\\ 50,056,016\\ 46,424,440\\ \end{array}$	29,921,493	5 2,002,004	20,820,007	53,710,624 56,223,740			
1824	59,802,403		59,302,403	29,066,350	6,456,559	23,708,252	59,231,161			
1825	57,273.869		57,273,869	28,060,287	9,900,725	23,559,741	61.520,75 55.081.073			
1826 1827	54 932 518		54 932 518	28,046.957	2 023 028	25,508,050	65,8:3,31			
1828	55,187,142		55,187,142	28,095,506	4,667,965	21,407,670	64,171.181			
1829	50,786,682		50,786.682	29,155,612	2,760,008	23,859,741 25,808,585 25,560,446 21,407,670 19,919,522 18,024,085 18,781,882	61,835,137 49,078,169			
1830 1831	46 424 440	••••••	46 424 440	29,118,858	2 673 858	18.024,080	49,797,156			
1832	46,988,755	333,989	47.322,744	28,323,751	5,696	18,050,245				
1833	46,271,826		46,271,326	28,522,507	1.023,784	16,235,735	45,782.03 46,678,979			
1834 1835	45,893,940	14 (38) 254 8, 752 741 14, 670, 733 14, 844, 901 13, 035, 344 10, 432, 034 12, 006, 444 12, 209, 377 7, 792, 444 19, 143, JA3 24, 700, 647 7, 792, 444 10, 143, JA3 24, 700, 647 7, 143, JA3 24, 700, 647 244, 563, 603 20, 244, 807 514, 659 333, 889 333, 889	46,424,440 47.322,744 46,271,326 46,425,263 45,893,369	81,965,804 20,921,493 29,215,900 29,066,387 28,076,957 28,076,957 28,076,957 28,076,957 29,118,55,612 29,118,55,612 29,118,55,612 29,118,55,612 29,118,55,612 29,118,55,612 29,514,610	$\begin{array}{c} 2,902,504\\ 5,241,725\\ 0,400,725\\ 1,195,531\\ 2,760,008\\ 1,925,445\\ 2,760,008\\ 1,925,445\\ 2,673,858\\ 5,696\\ 1,023,784\\ 1,776,878\\ 1,270,050\\ \end{array}$	15,894,600	45,669.39			
1838	48,591,180		48,591,180	28,514,610 29,243,598 29,489,571	1.590.727	17,258,871	48.(95.15			
1837	46,475,194		46,475,194	29,489.571	1.590.727 1,985,885 7,496	17,641,383	49 116,5% 47,6%,1%			
1838 1839	47,333,460	· ••••	47,333,460	29 260,238	7,496	10 903 6/9	49.851.691			
840	47,587,585	\$33,989 	45,803,819 48,591,180 46,475,194 47,333,460 47,844,819 47,844,819 47,567,565 48,937,397 48,580,026 52,582,817 54,003,754 53,060,854	29,489.571 29 260,238 29,454,062 29,381,718 29,450,145 29,428,120 29,269,160 20,405,450	8,016	18.781.882 18.050.245 16.235.735 16.397,605 16.884,649 17,258.871 17,641.383 18,418.449 19,903.629 19,770,818 20,735,584 21,517.049 21,870.353	49,169,55			
1841 1842	48,084,360	853,037	48,937,397	29,450,145		20,735,584	50,185,79			
1842 1843	46,965,631	1,614,359	48,580,026	29,428,120	8,741 1,563,361 4,143,591	21,517,049 21,870,853	50,945,19 51,148,24			
1844	11 54.003.754		54 003 754	30,495,450	1.563,361	20,152,189	52,211,09 59,386,98			
1845			53,060.354	28,253,872	4,143,891	20,988,840	59.386.98 50.943.99			
1 540	53,790,139	T 450 050	53,060.354 53,790,138 59,022,617	28,077,987		20,152,189 20,988,840 22,865,843 26,361,416	54,502.54			
1947 1948	53,388,717	7,476,353 1,593,945 874,568	59,022,617 54,982,642 63,326,817	28,563,517	1,563,361 4,143,591	25,621,619	64,185,13			
1849	52,951,749	874,568	53.326.817	28,323,961	21,074	25,621.619 22,529,661	60,874,99			

ABSTRACT OF PUBLIC INCOME AND EXPENDITURE IN THE UNITED KINGDOM IN EACH YEAR, FROM 1702 TO 1849.



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YEARS.

FINANCES OF ENGLAND.

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annuities was £261,735,059, and the annual charge was £9,471,675). From that time to the peace of Amiens hardly a year passed without witnessing some increase to the national burdens, so that at midsumme: 1802, the capital of the funded and unfunded debt amounted to £637,009,000. On the 5th of January, 1816, the capital was £885,186,922, and the annual charge was £32,457,141. The preceding statements exhibit the progressive state of the public income and expenditure from 1792 to 1849, including the annual charge on account of the public debt; and the amount of money raised by loans, and the funding of Exchequer Bills, with the amount and description of stock created, and the annual charge in respect of the same in each year from the beginning of the present century.

An extraordinary degree of delusion is observable in the proceedings of the different finance ministers by whom the support of the sinking-fund was advocated during the war. It has been pretended that the purchases made by means of that fund had the effect of keeping up the market value of the public debt, and thereby enabled the minister to contract loans upon more advantageous terms than, without this machinery, would have been possible. It may well be doubted, however, whether the repurchase in this manner, from time to time, of parts only of that surplus portion of the public debt which was created for the express purpose of such operations, had any real effect in raising the price of the remaining portion of the public securities; in other words, whether the price thus factitiously acted upon, of the larger amount of debt, was at any time greater than the price would have been of the smaller amount of debt that would have existed if the sinking-fund had not been created, the purchases of the commissioners never having in fact accomplished more than the repurchase of the so needlessly created part of the debt. It has been further urged in defence of the sinking-fund that the prospect which it enabled the minister to hold out of the speedy redemption of the whole debt had the effect of reconciling the people to the payment of a larger amount of taxes than they would otherwise have here stated that govern order to re when, as in expensive a nature.

The avera ated betwee £100 stock, was £61 178. the addition deemed durin to four and and the tern loans were co the average 1 per £100. 7 upon the sun £4,404,331, 1 lutely lost to reckoned at tl lent to a capi cent stock, wi dened through market more repaid when th be higher. T fully recognize future make a circumstances for that purpos Another erro this system ren ing money in or seriously adopte that might be

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wise have been willing to pay. Allowing that the effect here stated was produced, we may still doubt the wisdom of that government which is obliged to resort to a juggle in order to reconcile the people to its measures, and especially when, as in the case under examination, the delusion was so expensive and likely to prove so permanently injurious in its nature.

The average rate at which three per cent stock was created between 1793 and 1801 was £57 7s. 6d. of money for £100 stock, and the average market price during that period was £61 17s. 6d. for £100 stock. The loss to the public upon the additional sum borrowed in order that it might be redeemed during that period, which was £49,655,531, amounted to four and a half per cent, or £2,234,500. Between 1803 and the termination of the war the average price at which loans were contracted was £60 7s. 6d. per £100 stock, and the average market price during that time was £62 17s. 6d. per £100. The loss was, therefore, two and a half per cent upon the sum redeemed during that time, £176,173,240 or $\pounds4,404,331$, making together an amount of $\pounds6,638,831$ absolutely lost to the public by these operations. This amount, reckoned at the average price of the various loans, is equivalent to a capital of more than eleven millions of three per cent stock, with which the country is now additionally burdened through the measure of borrowing in a depressed market more money than was wanted in order to its being repaid when the market for public securities was certain to be higher. The fallacy attending this system is now so fully recognized that it is not likely any minister will in future make a show of redeeming debt at the moment when circumstances compel him actually to increase its amount for that purpose.

Another error, of a still more important nature, involved in this system remains to be noticed. The absurdity of borrowing money in order to extinguish debt could never have been seriously adopted but with the anticipation of the good effects that might be drawn from such a course after the necessity for further borrowing should cease, when it might be benefi-

cial to apply towards the redemption of the debt the high scale of taxation which that system rendered practicable. There never could have existed any doubt of the fact that whenever the necessity for borrowing should cease the market value of the public funds would advance greatly, and would therefore in an equal degree limit the redeeming power of the surplus income, however arising. The knowledge of this fact should have led the ministers by whom successive additions were made to the public debt to the adoption of a course which would have enabled them to turn this rise of prices to the advantage of the public, instead of its being, as it has proved, productive of loss; and this end would certainly have been accomplished if, at the expense of a small present sacrifice, the loans had been contracted at a high rate of interest, instead of their having been contracted, as for the most part they were, in three per cent annuities. It is presumable that if the borrowing had been restricted to the sums actually wanted from time to time, without thought of a sinking-fund, the public might possibly have had to pay at the outside a quarter per cent more of annual interest than they actually paid. At this rate the deficiency of income compared with expenditure between 1793 and 1815, which amounted, as will be shown in the next table, to £425,482,761 would have occasioned an addition to the capital of the debt to the amount of £455, 266, 554 of five per cent stock, the annual interest of which would have been £22,763,327, instead of a nominal capital of £547,292,764, with the annual additional charge of £20,690,871. At the close of the war the nominal capital of the debt would have then amounted to £724, 285, 729, and the annual charge to £32,530,660, instead of £816,311,939 of capital, and £30,458,204 of annual charge, which was the state of the unredeemed public debt on the 5th of January, 1816. The government would then have been in the most favorable position for taking advantage of the lowering of the rate of interest which was certain to follow, and many years before the present time the whole of the five per cent annuities might have been converted without any addition to the capital into

annuities o three and a ever, that three and a surplus rev demption o arv, 1849, v the funded have amount £23,747,734 and its actua loss entailed the debt in s £94,661,633 It is not po benefits that lions and a l practicable be probably much among their re diture would h debt would not lions, while th been twenty-on peace of Europ gress should on hope to arrive i

The charge ministers is full having for the other. These a called the dead sion of perpetua terms of years; relief at the exp creases the presterity. When the pensions was bro annuities of the same amount bearing interest at the rate of three and a half per cent or perhaps lower. Assuming, however, that the reduction would not have gone lower than three and a half per cent, and taking into consideration the surplus revenue which has been actually applied to the redemption of debt between 5th January, 1816, and 5th January, 1849, which, as will be seen, amounted to £45,779,046, the funded debt existing on 5th of January, 1837, would have amounted to $\pounds 678,505,683$, and the annual charge to £23,747,734, instead of its actual amount, £773,168,316, and its actual annual charge £27,686,458; showing that the loss entailed on the country by the plan pursued, of funding the debt in stock bearing a nominal low rate of interest, is £94,661,633 of capital, and £3,938,724 of annual charge. It is not possible to calculate with certainty the further benefits that must have resulted from the repeal of five millions and a half of annual taxes, which would have been practicable beyond the amount actually repealed; but it is probably much under-estimating those benefits to state that among their results the amount of public income over expenditure would have been so far augmented that the unredeemed debt would not at this time have exceeded six hundred millions, while the annual charge upon the same would have been twenty-one millions, a state of things at which, if the peace of Europe should continue undisturbed, and if our progress should only equal our past experience, we may possibly hope to arrive in about half a century.

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The charge of inconsistency on the part of our finance ministers is fully deserved by their adoption of two measures having for their objects results exactly opposed to each other. These measures are, first, the creation of what is called the dead-weight annuity; and, secondly, the conversion of perpetual annuities into annuities for lives or for terms of years; the effect of the first being to bring present relief at the expense of future years, while the second increases the present burden with the view of relieving posterity. When the measure for commuting the half-pay and pensions was brought forward in May, 1822, the charge upon

the country on that account was estimated at about five millions. This was necessarily a decreasing charge, and from year to year the public would have been relieved by the falling in of lives until at the end of forty-five years the whole, according to probability, would have been extinguished. In order to turn to present advantage this prospective diminution of burden, it was attempted to commute the whole of those annually diminishing payments into an unvarying annuity to last during the whole probable term of forty-five years; and it was computed that, by the sale of a fixed annuity of £2,800,000, funds might be obtained in order to meet the diminishing demands of the quarterly claimants. This scheme was only partially earried into execution by means of an arrangement made with the Bank of England, under which that corporation advanced to the government, in nearly equal payments, during the six years from 1823 to 1828, the sum of £13,089,419 as the purchase money of an annual annuity of £585,740 to be paid until 1867. The result of this operation has been to save the immediate payment, during the years in which it was in progress, of £9,574,979, and in return to fix upon the country the annual payment for thirty-nine years thereafter of £585.740.

In the prosecution of the opposite plan of converting perpetual annuities into annuities terminable at stated periods or upon the occurrence of certain natural contingencies, the amount of terminable annuities has advanced from £1,888,835, at which it stood at the end of the war, to £3,755,099 at the beginning of the year 1850. It would occupy considerable space to exhibit the progress of this conversion from year to year, and it will probably suffice to exemplify the result of the operation during one year (1834). In that year the perpetual annuities received in exchange amounted to £6,500,169 of capital, bearing an annual charge of £202,831, and there were granted in lieu of the same,— Annuitie " Deferred

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making a pre burdens in charge of £: It is not 1 modes of proc stances either quite impossil der the same dent; and the were proposed fied themselve is assuredly t whom it is ad in order to lig it would seem those by whom within their po

It is singular of scientific acc correct elucidat creation of terr which entailed was established operation annui 10s. per annum £23,251 per ann the calculation in a report to th had already sust transactions, besi still to pay for Finlaison he sta calculation in the

FINANCES OF ENGLAND.

Annuities f	or li	ves		•	•	•	•	•	•	•	•	•	•	£195,337
46 f	or te	rms	of	yea	ars	•	•	•	•	•	•	۰	•	313,138
Deferred an	nuit	ties	•	•	•	•	•	•	•	•	•	•	•	2,871
Togeth	er.		•	•	•	•	•	•	•	•	•	•		£511,346

making a present annual increase of £308,514 to the public burdens in order to ensure the earlier extinction of the charge of £202,831.

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It is not necessary here to inquire which of these two modes of proceeding is preferable. Under different circumstances either of them might be wise or prudent, but it is quite impossible that at the same time, and consequently under the same circumstances, both could be either wise or prudent; and the minister and legislators by whom the plans were proposed and sanctioned must be allowed to have stultified themselves by the operations. Of the two courses that is assuredly the most generous under which the parties by whom it is adopted subject themselves to additional burden in order to lighten the load for their successors; and indeed it would seem no more than an act of justice on the part of those by whom the debt was contracted to adopt every means within their power for its extinction.

It is singular that, with so much experience and so much of scientific acquirement that could have been brought to the correct elucidation of this subject, the tables adopted for the creation of terminable annuities were incorrect to a degree which entailed a heavy loss upon the public. The system was established in 1808, and during the first year of its operation annuities were granted to the amount of £58,506 10s. per annum. Of that amount there continued payable £23,251 per annum at the beginning of 1827, when, to adopt the calculation of the actuary of the national debt, as given in a report to the Chancellor of the Exchequer, the public had already sustained a loss of more than £10,000 by tho transactions, besides having the above annual sum of £23,251 still to pay for an indefinite term. In this report of Mr. Finlaison he states that the loss to the public through miscalculation in these tables was then (April, 1827) proceeding

at the rate of $\pounds 8,000$ per week, and during the three preceding months had exceeded $\pounds 95,000$. The discovery of this blunder had been made and pressed upon the attention of the finance minister as early as 1819, but no active steps were taken to remedy it until 1828, and even then the rates at which annuities were granted upon the lives of aged persons were, after a time, found to be so unduly profitable to the purchasers, that the government was again obliged to interfere and to limit the ages upon which life annuities could be obtained.

It is quite impossible that any similar series of blunders could have been committed by any private persons or association of individuals whose vigilance would have been sufficiently preserved by their private interest, and it is disgraceful that the government, which could at all times command the assistance of the most accomplished actuaries, should have fallen into them. It is yet more disgraceful that after the evil had been discovered and pressed upon its notice, so many years were suffered to elapse before any step was taken to put a stop to the waste of public money.

It would require a voluminous account to explain all the financial operations of the government during the period embraced in the foregoing statements. In the earlier years of that time, while on the one hand the minister was annually borrowing immense sums for the public service, an expensive machinery was, as we have seen, employed to keep up a show of diminishing the debt, and by this means the people were brought to view with some degree of complacency the most ruinous addition to their burdens under the expectation of the relief which, through the magical effect of the sinking-fund, was to be experienced by them in future The establishment and support of this sinking-fund years. was long considered as a master-stroke of human wisdom. Having since had sufficient opportunity for considering its effects, we have arrived at a different conclusion, and can no longer see any wisdom in the plan of borrowing larger sums than were wanted, and paying in consequence more dearly for the loan of what was actually required in order to lay

out the sur debt at a hi In the for Income and House of (C showing the bursements fourteen ye years ended given; and t two years en

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Expenditure . £

Expenditure more than income . . £18

Expenditure more than income . £236

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out the surplus to accumulate into a fund for buying up the debt at a higher price than that at which it was contracted.

In the fourth report of the Select Committee on Public Income and Expenditure, which was printed by order of the House of Commons in 1828, there are three statements showing the difference between the public receipts and disbursements in the ten years ended 5th January, 1802; the fourteen years ended 5th January, 1816; and the twelve years ended 5th January, 1828, an abstract of which is here given; and the statement is further continued for the twentytwo years ended 5th January, 1850:—

BALANCES OF INCOME AND EXPENDITURE.

Ten Years ended 5th January, 1802.

Expenditure . Income	£447,812,778 258,659,322	Raised by creation of debt	£180,846,440 4,600,000 2,416,497	£380,997,380
				187,862,937
		Balance 5th January,		£193,684,443
		1802	£9,027,021	
Expenditure more than		1792	4,546,029	4,480,992
	£189,153,451			£189,153,451

Fourteen Years ended 5th January, 1816.

Expenditure £1,059,683,370 Income . 823,354,060	Raised by creation of debt	,000
Expenditure more than income . £236,329,310	Balance 5th January, 1816 £15,465, Balance 5th January, 1802 9,027	

Twelve Years ended 5th January, 1828.

Income Expenditure .	£C70,198,286 640,966,521	Applied to redemption of debt Discount and charges of receipt		£580,454,422 544,588
		Raised by creation of debt		£580,999,040 540,530,450
Income more than expen- diture	£29,231,765	Balance 5th January, 1816 Balance 5th January, 1828	£15,465,578 4,228,753	

Twenty-two Years ended 5th January, 1850.

Income . £1,092.219,672 Expenditure. 1,075,645,391		£9,748,589	£11,054,495
Income more	1828	4,228,753	5,519,786
than expen- diture £16,574,281	1		£16,574,281

It appears from this statement that during the ten years from 5th Jan., 1792 to 5th Jan., 1802:---

The public expenditure exceeded the income . Between 1802 and 1816 the excess of expendi-	£189,153,451
ture was	236,329,310
Excess of expenditure during twenty-four years of war	£425,482,761
During thirty-four years of peace, between 1816 and 1850, the excess of income over expenditure has been	45,779,046

At this rate it would require three hundred and sixteen years of peace to cancel the debt incurred during twenty-four years of war, or thirteen years for one; but the comparison is even more unfavorable than this, because at the time of borrowing the rate of interest is high and the value of public securities lov of these circ favorable sup peace to repa penditure; at about the clos all that time selves relieve has been con period would of that part of and life annui

lt is necessa which have at proposed by the

At the break sary to meet as the country by was included th tax. The great a temporary cha the re-establish. however, that to sible, since the traction of loans except by the g another of the p cumstances it wa then Chancellor practice of confin rent year, and to the amount which one of a series of meeting the incre loans to be rais should be each £ £14,000,000, and amount was assur 2

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securities low, whereas at the time of liquidation the reverse of these circumstances is experienced; so that on the most favorable supposition it requires fifteen years of saving in peace to repair the evil consequences of one year of war expenditure; at which rate our successors who may be living about the close of the twenty-second century might, if during all that time the nation should remain at peace, find themselves relieved from that portion of the public debt which has been contracted since 1792. On the other hand, this period would be somewhat hastened through the extinction of that part of our public debt which consists of terminable and life annuities.

It is necessary here to explain briefly the financial plans which have at different times within the present century been proposed by the Government and sanctioned by Parliament.

At the breaking out of the war in 1803 it became necessarv to meet as far as possible the increased expenditure of the country by the imposition of new taxes, among which was included the income-tax under the name of a propertytax. The greater part of these taxes were declared to be of a temporary character, and were to cease in six months after the re-establishment of peace. It soon became apparent, however, that to adhere to this stipulation would be impossible, since the exigencies of the country required the contraction of loans, the interest of which could not be provided except by the gradual appropriation of one portion after another of the proceeds of the war taxes. Under these circumstances it was proposed in 1807 by Lord Henry Petty, then Chancellor of the Exchequer, to depart from the usual practice of confining the financial arrangements to the eurrent year, and to determine at once, as far as was possible, the amount which it would be necessary to raise during each one of a series of years, providing beforehand the means for meeting the increasing burden. It was assumed that the loans to be raised in 1807 and the two following years should be each £12,000,000; that for 1810 was stated at \$14,000,000, and during each of the ten ensuing years the amount was assumed at £16,000,000. It was calculated

that the interest upon those loans would be met, up to that for the year 1811, by the falling in of annuities, after which the war taxes were to be pledged at the rate of ten per cent upon each loan; five per cent to pay the interest, and five per cent to accumulate as a sinking-fund for discharging the principal. The deficiency that would be occasioned by this appropriation year by year of the war taxes was to be met br supplementary loans, for the interest on which, and to provide a sinking-fund for their redemption, it would be necessary to impose new taxes. By these means it was expected that the country would have been able to meet the charges of an expensive war during a series of years with only a moderate addition to the public burdens. The ministry, of which Lord Henry Petty formed a part, having gone out of office before the next annual finance arrangement was brought forward, his plan was abandoned, and no attempt has since been made by any minister to form financial arrangements embracing the circumstances of future years.

The explanations offered each year in the House of Commons by the Chancellor of the Exchequer concerning the financial condition of the country are not given in such a form as to be readily understood. In the accounts by which the statements are accompanied, the interest of the debt and other permanent charges are not included, and on the other hand nothing is stated regarding the produce of the permanent taxes, forming what is called the consolidated fund. except the amount of its surplus or deficiency, as the ease may be, after providing for the permanent charge upon it The Budget, as it is the practice to call this annual exposition, explains on the one hand the sums required for the public service during the year under the different heads of Navy, Army, Ordnance, and Miscellaneous Services, to gether with any incidental charges which may apply to the year; and on the other hand are given the ways and means for meeting the same. These ways and means consist of the surplus (if any) of the consolidated fund, the annual duties, and such incidental receipts as come in aid of the national resources.

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The detail of these *budgets* would consequently throw but little light upon the financial condition of the country, if even they had been preserved in an authentic form, which has not been done. Any statements of the kind that could be offered must be drawn from unauthorized publications, in which they have been given without regard to methodical arrangement, while, as respects some years of the series, we should seek in vain for any statement whatever.

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et par ton marchandis lution soud: le suere, p livre au mo taxe de 44 s les approvis était imposs donts les dé rappel. Peu d'Artois sign Cours prévôt merce mariti par un droit

Cette mesa L'administrat s'était habitué elle était en ge moins disposé les affaires co leur côté, les g jours, de privil Mais ils étaice époques, parce ancrés sur le fo ils étaient appe une ill.

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VII.

LA POLITIQUE COMMERCIALE DE LA RESTAURATION.

FROM LEVASSEUR'S HISTOIRE DES CLASSES OUVRIÈRES EN FRANCE DEPUIS 1789 JUSQU'À NOS JOURS.¹ — VOL I. PP. 405-428.

LES lois commerciales qui devraient être principalement fondées sur les besoins de la consommation, sont subordonnées en réalité à la politique. Faites par des hommes, il leur arrive trop souvent de porter l'empreinte des passions, et de représenter moins la nature des rapports économiques d'une nation, que les intérêts particuliers et les préjugés de ceux qui la gouvernent.

Il n'est pas de lois humaines qui soient à l'abri de ce défaut; mais il n'en est peut-être pas qui en soient plus ordinairement affectées que les lois relatives au commerce extérieur. La République et l'Empire s'étaient acharnés à la lutte contre les Anglais; la législation douanière fut alors armée en guerre et hérissée de prohibitions belliqueuses: le but était d'écarter l'ennemi de la place. La Restauration fut pacifique, mais obligée de se concilier les grands propriétaires et les grands manufacturiers qui formaient la majorité de la Chambre; la législation douanière se pliant à leurs exigences, continua à se hérisser de prohibitions mercantiles et égoïste le but, cette fois, était de réserver le marché à ceux qui fasaient la loi.

Le système continental était devenu odieux aux populations. Il était certain que le nouveau gouvernement commencerait par le renier. D'ailleurs la force des choses y poussait. À la suite des armées étrangères, étaient entrées, dans nos ports

¹ Paris: L. Hachette et Cie, 1867.

LA POLITIQUE DE LA RESTAURATION. 149

et par toutes nos frontières, les denrées coloniales et les marchandises anglaises. Les prix avaient éprouvé une révolution soudaine, et l'on voyait se produire cette bizarrerie, que le sucre, par exemple, se vendait communément 38 sous la livre au moment où la loi le frappait encore, en droit, d'une taxe de 44 sous, et empêchait ainsi les négociants de retirer les approvisionnements qu'ils avaient dans les entrepôts : il était impossible de maintenir la loi. Les Anglais d'ailleurs, donts les désirs étaient alors des ordres, en sollicitaient le rappel. Peu de jours après son entrée à Paris, le comte d'Artois signa deux ordonnances, l'une qui supprimait les Cours prévôtales,¹ l'autre, qui levait les obstacles mis au commerce maritime.² Les taxes prohibitives furent remplacées par un droit très modéré sur le sucre,³ et le café et par un simple droit de balance sur les cotons en laine.

Cette mesure se heurta contre une double opposition. L'administration impériale, formée à l'école de la prohibition, s'était habitnée depuis treize ans à en pratiquer les maximes; elle était en général imbue de l'esprit du système et d'autant moins disposée à y renoncer que l'ingérence de l'État dans les affaires commerciales lui donnait plus d'importance. De leur côté, les grands industriels étaient désireux, comme toujours, de priviléges et partisans des restrictions douanières. Mais ils étaient peut-être plus excusables qu'à d'autres époques, parce que leurs intérêts étaient plus que jamais ancrés sur le fond de la prohibition. Grâce à leurs richesses, ils étaient appelés à représenter l'industrie française, et, par une ⁱⁿ ez ordinaire, disposés à prendre leurs intérêts

lls allaient, avec les grands propriétaires, ars aditions aux ministres.

La stauration se trouva placée entre les deux pouvoirs de l'epoque, l'administration et la Chambre, qui voulaient la pr'ection, l'une par habitude, l'autre par calcul. La protection triompha; les tarif prirent un nouveau caractère non moins exclusif sur cert: rs points que celui de l'Empire, et

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- ² Ord. du 23 avril, 1 1. Voir le Moniteur de 1814, p. 451.
- ⁸ Le sucre fut taxé à 6 sous la livre.

d'ailleurs beaucoup plus dangereux; parce qu'on prétendit ériger en un système commercial régulier, ce qui n'avait été jusque-là qu'une conséquence regrettée de l'état de guerre.

La réforme du comte d'Artois souleva une tempête de réclamations. On aurait pu croire que les manufacturiers seraient satisfaits de se procurer la matière première à bon marché. Il n'en fut rien. L'intérêt du présent les aveuglait assez sur l'intérêt de l'avenir, pour que les cotonniers de l'ouest et du nord, se prétendissent ruinés, parce que l'abaissement des droits sur le coton allait diminuer d'autant la valeur des étoffes qu'ils avaient en magasin. Ils pétitionnèrent, écrivirent qu'une "immense population serait réduite au désespoir," que "la prohibition est de droit politique et social," et que, depuis le fabricant jusqu'à l'ouvrier, tous ont "le droit de fournir exclusivement à la consommation du pays qu'ils habitent."¹ Ils demandaient 30 millions d'indemnité, et la prohibition des fils et des tissus de coton : ils obtinrent la prohibition.

Les maîtres de forges élevaient d'autres prétentions. L'Empire n'avait imposé, il est vrai, qu'une taxe modique de 44 francs par tonne (1000 kilog.) sur les fers en barre. Mais la guerre formait une barrière plus difficile à franchir que les douanes et durant vingt ans les hauts fourneaux du continent n'avaient pas eu à redouter les fers anglais. Après la paix, ils se trouvèrent tout à coup surpris par une concurrence qui livrait ses produits à 30 ou 40 pour 100 au-dessons des prix ordinaires, et par une crise commerciale qui paralysait la vente. Vives réclamations. Les maîtres de forges voulaient sinon une indemnité, au moins le séquestre immédiat des fers qui étaient encore en entrepôt et la prohibition des fers étrangers; ils obtinrent le quadruplement du droit qui, décime compris, fut porté à 165 francs, taxe représentant environ 50 pour 100 de la valeur de la marchandise en entrepôt.²

Le baron Louis n'avait pu résister à l'orage. Cependant il ne dissimula pas que le gouvernement approuvait peu l'esprit

Voir aux Arch. de l'Emp., l'original d'une de ces pétitions (25 avril, 1814).
 Voir M. Amé, Tarifs des douanes, chap. xviii.

de monor détruisen "pouvoir, cessive du Il se faisa précipitère colons, qu et ce que prétendit un titre po les lois pr session en

Le gouve tarif. Il n' senter un p pavillon fra un taux en donnance d parce que 1 hasardait ti quait la con bre, qui vota "En princip douanes sont tures, pour i le commerce hibitions ou étrangère, l'a térieur ; elles moindre prix ment avec de accaparerait, deviendra réc férents règles

¹ M. A ² De 4

⁸ Loi d

LA POLITIQUE DE LA RESTAURATION.

de monopole des manufacturiers. "Les prohibitions absolucs détruisent l'émulation. Aussi espérons-nous," ajoutait-il. "pouvoir, aux sessions prochaines, demander la réduction successive du tarif que nous proposons aujourd'hui sur les fers." 1 Il se faisait illusion. Les intérêts sont plus tenaces. Ils se précipitèrent à la curée, réclamant à l'envi, qui pour les colons, qui pour les éleveurs, qui pour les manufacturiers : et ce que chacun d'eux obtint à titre de faveur passagère, il prétendit le conserver comme une propriété, il s'en fit même un titre pour obtenir de nouveaux avantages. C'est ainsi que les lois protectionistes se succedèrent et s'aggravèrent de session en session.

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1814).

Le gouvernement songeait à faire une refonte générale du tarif. Il n'en eut pas le loisir en 1814, et se contenta de présenter un projet par lequel il autorisait le transit, donnait au pavillon français la faveur d'une surtaxe, et relevait, mais à un taux encore tres modéré, certains droits abaissés par l'ordonnance du 23 avril.² Il s'excusait de ne pas faire plus, parce que les douanes venaient à peine d'être rétablies, et il hasardait timidement, que "d'ailleurs le bon marché provoquait la consommation." Tel n'était pas l'avis de la Chambre, qui vota la loi,³ mais en donnant une leçon aux ministres. "Eu principe d'économie politique," disait le rapporteur, "les douanes sont établics pour assurer la prospérité des manufactures, pour faire fleurir l'industrie nationale. Elles sauvent le commerce en donnant aux fabricants français, par des prohibitions ou des droits sur les productions de l'industrie étrangère, l'avantage de la concurrence dans le marché intérieur; elles sont utiles au consommateur en lui assurant à moindre prix les marchandises qui se fabriquent extérieurement avec des matières premières indigènes, que l'étranger accaparerait, sans la prohibition à la sortie. . . . L'institution deviendra réellement nationale, lorsque la combinaison des différents règlements sera parvenue au point d'activer dans les

1 M. Amé, Tarifs des douanes, p. 62.

² De 40 à 60 francs par quintal métrique sur le sucre brut,

" " 60 sur le café, 100 ** " sur le cacao.

⁸ Loi du 17 décembre, 1814.

mains d'un million d'ouvriers l'instrument qui les nourrit, lorsque cette combinaison repoussera par des prohibitions nécessaires les marchandises étrangères dont l'entrée porterait préjudice aux marchandises de même espèce qui se fabriquent, se vendent et se consomment dans l'intérieur."¹

Le ministère comprit la leçon, promit de rédiger ses lois de douane en vue de la protection,² et présenta, en 1816, un nouveau projet pour refondre le tarif de 1806, qui, jusquelà, n'avait subi que des modifications de détail. Il proposait des droits plus forts. La Chambre les renforça encore,³ acceptant, sans en peser la valeur, les arguments quelquefois singuliers que suggéraient les intérêts ou les préjugés. Un député déclarait la céruse de Clichy excellente pour la consommation, supérieure même, de l'avis de tout le monde, à celle de Hollande; mais, ajoutait-il, le vulgaire veut le cachet des manufactures étrangères ; " pour l'en dégoûter, il demandait, et il obtint un droit énorme sur la céruse étrangère."⁴ Un autre voulait qu'on imposât fortement le thé, parce que les Anglais le fournissent, et que " c'est autant de numéraire qui sort de France." 5 Sur la demande des agriculteurs, la prohibition des peaux, à la sortie, fut levée d'une part, et d'autre part, l'entrée des eaux-de-vie, autres que de vin, fut prohibée. On rétablit, en pleine paix, les rigueurs de la législation prévôtale, et l'on autorisa la recherche et la saisie à l'intérieur des étoffes prohibées.6

La Chambre introuvable fut dissoute. Mais le cabinet eut besoin, en 1817 comme en 1816, de s'appuyer sur une majorité qui, si elle ne professait pas les mêmes sentiments politiques, avait en agriculture et en industrie les mêmes intérêts

¹ Rapport de Magnié-Grandprez, Moniteur de 1814, p. 1253.

² Moniteur de 1815, p. 1253.

⁸ Le gouvernement, par exemple, proposait de créer un entrepôt à Lille. Les députés des ports de mer se récrièrent et firent, après un long débat, upprimer l'article.

⁴ Moniteur de 1816, p. 440.

⁵ Ibid., p. 439.

⁶ Loi du 28 avril, 1816. — Art. 59. À dater de la publication de la présente loi, les cotons filés, les tissus et tricots de coton et de laine et tous autres tissus de fabriques étrangères prohibés seront recherchés et saisis dans toute l'étendue du royaume.

et les mên donc peu ment. Lo de 1817, 1 glisser tim échanges,² atteinte an respecter au fondées à la

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Avant 1789, comprises dan librement avec avait gagné ci dises entre l'A tant la ligne d

¹ Cependant le des vœux pour l'en stances ne permetta la loi qui fut promul

² Sans doute il e révolution dans le s hardiesse de vous p. 146.

³ Le général Augi 100 kil. le droit impol les étrangers fabriqu p. 286.

⁴ Moniteur de 1817

LA POLITIQUE DE LA RESTAURATION. 153

et les mêmes exigences.¹ La législation commerciale se sentit donc peu du souffle libéral qui inspirait alors le gouvernement. Lorsque la question des tarifs se produisit à la session de 1817, le directeur général des douanes se contenta de glisser timidement un éloge platonique de la liberté des échanges,² tout en déclarant aussitôt ne vouloir porter aucune atteinte au système prohibitif, "qu'il est," ajoutait-il, " sage de respecter aussi longtemps que nos manufactures se croiront fondées à le considérer comme leur plus solide appui."

Les députés voulaient non-seulement le respecter, mais le fortifier. Les propriétaires, en faveur des maîtres de forges auxquels ils vendaient leur bois, cherchaient à écarter la concurrence des fers étrangers, et ne prenaient guère la peine de dissimuler le mobile qui les faisait agir.³ Les industriels, pensant que " la prospérité des manufactures peut seul proeurer des consommateurs utiles à l'agriculture," ⁴ voulaient qu'on supprimât tout droit d'entrée sur les matières premières, et le directeur général avait quelque peine à défendre les intérêts du fise. La loi du 27 mars, 1817, ajouta quelques restrictions nouvelles au commerce extérieur.

Celle du 21 avril 1818 fut le sujet d'un curieux débat. Avant 1789, les provinces d'étranger effectif n'étant pas comprises dans la circonférence des douanes, commerçaient librement avec les pays voisins; l'Alsace était du nombre, et avait gagné cinq millions par an au transport des marchandises entre l'Allemagne et la Suisse. La Révolution, en portant la ligne des douanes à la frontière, avait interrompu ces

¹ Cependant le rapporteur, Morgan de Belloy, parla avec modération et fit des vœux pour l'entier affranchissement des matières premières que les circonstances ne permettaient pas de dégréver. — *Moniteur* de 1816, p. 291; voir aussi la loi qui fut promulguée le 28 avril, 1816.

² Sans doute il est louable d'annoncer, hautement le désir de cette heureuse révolution dans le système commercial du monde; mais nous n'aurons pas la hardiesse de vous conseiller d'en devancer l'époque. — Moniteur de 1817, p. 146,

³ Le général Augier proposait un amendement pour porter de 20 à 30 fr. par 109 kil. le droit imposé par la loi du 21 décembre, 1814, sur les fers laminés, que les étrangers fabriquaient par des procédés économiques. — *Moniteur* de 1817, p. 286.

⁴ Moniteur de 1817, p. 278. Discours du comte Beugnot.

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relations; l'Empire, par ses prohibitions contre le commerce maritime, les avait en partie renouées; mais, depuis 1815, le bénéfice en avait passé au grand-duché de Bade. L'Alsace réclamait.¹ Le projet de loi donnait enfin satisfaction.² en autorisant par divers bureaux le transit de certaines marchandises et surtout des denrées coloniales. Aussitôt les ports de mer, défenseurs ordinaires de la liberté commerciale quand elle servait les intérêts particuliers de leurs armateurs. s'écrièrent qu'en permettant le passage des denrées coloniales. on facilitait les ventes des Hollandais en Suisse, au détriment de la marine française qui avait la prétention de fournir seule le sucre et le café à la République helvétique. En vain l'administration prouva-t-elle surabondamment qu'il s'agissait seulement de faire prendre aux marchandises la rive gauche du Rhin au lieu de la rive droite, et que les Hollandais n'en vendraient pas une caisse de plus à la Suisse, ni nos ports une caisse de moins.⁸ La commission rejeta l'article; et la Chambre, malgré les protestations des représentants de l'Alsace, vota sa commission. Ce fut seulement un an plus tard, à la suite d'une enquête, que le ministère, persistant Jans son dessein, parvint à faire voter le transit par l'Alsace, à la faible majorité de 17 voix sur 195 votants.⁴

C'est par le même ministère que fut présentée la première loi constituant en France, à l'image de l'Angleterre, le système de l'échelle mobile. "L'intérêt de la propriété et de l'industrie agricole" l'avait dictée. Pour la première fois, les restrictions douanières relatives au commerce des céréales furent dirigées, non plus contre l'exportation comme on l'avait fait par le passé, mais contre l'importation; ⁵ il fallait que les marchés

¹ Voir les vœux du Bas-Rhin, sessions des Consuits généraux de 1817 et de 1818. En 1819, le Conseil général se plaignit que les conditions faites au transit fussent trop oncreuses. Dans les années suivantes, ce fut le tour des départements de l'ancienne Lorraine qui réclamèrent de même bénéfice que l'Alsace.

² Article 84 du projet.

⁸ Voir M. Amé, *Etude économique sur le tarif des douanes*, p. 84, et le Moniter de 1818, p. 333. Le rapporteur Morgan de Belloy parle "des alarmes des négo clants des ports qui ont à se prévaloir de la possession et des lois solennelle."

4 Loi du 26 mai, 1819.

⁸ Cette loi du 16 juillet, 1819, établissait à l'importation un double droit: droit fixe de 25 centimes par quintal de grains pour les navires français, de l'fr restassent sa subsista

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La natu fut abonda exagérés, l entendre, d favorableme Villèle. Ou trouva que tation de 70 des arrivage

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¹ Par 282 voix commençait à être classe, à 20 dans 1 i8 francs. L'éche c'estàdire qu'elle portation, au contr 25 francs pour lim vaient exporter plu etrangère. restassent aux fermiers nationaux, dût le peuple payer cher sa subsistance.

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La nature déjoua les calculs des législateurs. La récolte fut abondante, et les prix, que la disette de 1816 avait fort exagérés, baissèrent. De nouvelles réclamations se firent entendre, d'autant plus vives qu'elles étaient plus sûres d'être favorablement écoutées sous l'administration du comte de Villèle. On accusait l'importation. Vérification faite, il se trouva que cette importation avait à peine excédé l'exportation de 700,000 hectolitres. On se rejeta sur l'effet moral des arrivages qui intimidaient, disait-on, la hausse.

Il fallut une nouvelle loi, qui donnât de nouvelles facilités à l'exportation et mît plus obstacles à l'importation. Présentée dans la session de 1821, par le ministère, remaniée et considérablement aggravée par la commission, elle fut votée par une nombreuse majorité.¹

On se félicitait de mettre ainsi les agriculteurs à l'abri de la concurrence. On n'oubliait qu'une chose; l'intérêt des masses dont le pain est le principal aliment. Il est vrai qu'un député était venu soutenir que la cherté du pain était un bien pour les ouvriers, parce qu'elle les obligeait à travailler avec plus d'ardeur pour vivre. Mais cette singulière théorie trouva peu d'écho; les propriétaires n'avaient aucune intention d'affamer la classe ouvrière : seulement ils songeaient à eux-mêmes. Benjamin Constant le leur fit sentir. "Je me bornerai," s'écriait-il, interrompu par les murmures de l'assemblée, " je me

25 pour les navires étrangers; droit variable de 1 franc par chaque franc de baisse dès qu'on descendait dans les trois régions de la France audessous des prix normaux de 23, 21, et 18 francs; à la limite de 20, 18, et 16 francs, toute importation était interdite. La loi fut votée à une majorité de 234 voix contre 28.

¹ l'ar 282 voix contre 54. Dans cette loi du 4 juillet 1821, la taxe variable commençait à être perçue quand les prix étaient à 26 francs dans la première classe, à 20 dans la dernière, et les importations cessaient au taux de 22 et de i8 francs. L'échelle mobile à l'importations fonctionnait entre 26 et 18 francs, c'estàdire qu'elle fut élevée de 2 francs au-dessus de la limite de 1819. L'exportation, au contraire, permise seulement jusqu'à 23 fr. par la loi de 1819, eut 25 francs pour limite en 1821 : double avantage pour les agriculteurs, qui pouvaient exporter plus longtemps, et qui étalent plus tôt à l'abri de la concurrence ettangère.

bornerai à vous dire qu'il est fâcheux de voir que vous faites rencherir les denrées que vos terres produisent et dont vos greniers sont remplis."¹

Cependant les effets ne répondirent pas à l'attente des propriétaires. Le blé baissa pour ainsi dire d'année en année: il tomba à 14 fr. 80 cent., en 1825. Les tarifs n'y faisaient rien. Pourtant ils étaient rigoureux; car durant les neuf années qui s'écoulèrent de la publication de la loi à la révolution de juillet, l'importation ne fut permise que pendant un seul mois, en février, 1828. On ne pouvait aggraver le tarif. Mais " pour calmer l'opinion," on porta, en 1825, une loi qui supprimait l'entrepôt fictif des grains.

L'événement qui avait précipité la chute du ministère, déla chancelant, dans lequel le comte Decazes avait tenté un rapprochement entre les convictions royalistes et les principes libéraux, n'était pas de nature adoucir le régime douanier. Les grands propriétaires prirent une influence plus décisive et le système protecteur se consolida : témoin la loi de 1821 sur les céréales. Les intéressés ne se lassaient pas de demander, et chaque concession faisait naître de nouvelles exigences qui se produisaient à la tribune, dans les pétitions, dans les vœux des conseils généraux. Tout argument leur était bon. L'industrie languissait-elle; ils déclaraient, comme les maîtres de forges de la Haute-Saône, qu'ils étaient menacés de ruine par l'introduction trop facile des fers étrangers et demandaient qu'on renforçât les barrières.² L'industrie prospéraitelle; ils déclaraient, comme les fabricants de Saint-Quentin, qu'il importait "au progrès de l'industrie manufacturière de la rassurer complètement sur le maintien des lois prohibitives." 3 Pour la vente à l'intérieur, les départements postulaient à l'envi les fournitures de l'État,⁴ et l'esprit d'exclusion était tel que quelques-uns eussent volontiers relevé les barrières du moyen âge au profit des manufactures provinciales: le Loir-et-Cher voulait qu'on fit exclusivement "habiller les

- 1 Moniteur du 30 avril. 1821.
- ² Haute Saône Vœux des Conseils généraux en 1819.
- ⁸ Aisne. Vœux des Conseils généraux en 1825.
- 4 Voir Hérault en 1818, Pyrénees-Orientales en 1821, Aveyron en 1825, etc.

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Dans un jamais tou que conséd compter le qui, dans l' L'administr tenr généra apporté aud de l'année j aimerions à stables." ³

Après les celle des fer teurs des un décembre, 1 espèce; mais avaient été même de leu leurs plainte c'était frappe travail, limes de la Chamh immédiat, exi à l'intérêt du parce qu'elle s

droit à l'entré firent une opp

¹ Session de 18

2 Loi du 7 juin,

⁸ Moniteur de 18

4 "Soumettre le

grès qu'une louabl p. 526, Rapport de

⁵ Le jury des grande majorité de l'encouragement de

soldats de la légion de Loir-et-Cher, avec des draps et autres étoffes de la fabrique de Romorantin.1

Dans une telle disposition des esprits, le tarif ne satisfaisait jamais toutes les cupidités. Il fut remanié par des lois presque consécutives rendues en 1820, en 1822, en 1826,² sans compter les projets, qui n'aboutirent pas et les ordonnances qui, dans l'intervalle des sessions, aggravèrent plusieurs taxes. L'administration elle-même se fatigua, et, en 1822, le direeteur général osa féliciter ironiquement les députés de n'avoir apporté aucun changement à la loi des douanes dans le cours de l'année précédente. "C'est, disait-il, un avantage que nous aimerions à voir se répéter. Les lois de douanes veulent être stables."³ Les députés pensaient autrement.⁴

Après les grains, la question principale à la Chambre était celle des fers, qui réunissait dans un même intérêt les directeurs des usines et les propriétaires des bois. La loi du 17 décembre, 1814, avait élevé les droits sur les fers de toute espèce; mais dans la répartition des faveurs du tarif, les aciers avaient été les moins favorisés. Ils réclamèrent, au nom même de leurs progrès,⁵ et la loi du 7 juin, 1820, fit droit à leurs plaintes en augmentant les taxes de 45 à 60 pour 100: c'était frapper directement les instruments indispensables au travail, limes, faux, outils. Mais il entrait dans le système de la Chambre de préférer l'intérêt du producteur, intérêt immédiat, exigeant, calculant son profit par grosses sommes, à l'intérêt du consommateur, dont la perte semblait légère parce qu'elle se répartissait sur un grand nombre de têtes.

La même loi facilita la sortie des laines indigènes et mit un droit à l'entrée des laines étrangères. Les fabricants de draps firent une opposition vive. Mais cette fois encore la cause de

⁴ "Soumettre les douanes à une règle invariable, c'est leur interdire les progrès qu'une louable émulation aspire sans cesse favoriser." - Moniteur de 1820, p. 526, Rapport de Morgan de Belloy.

⁶ Le jury des arts leur à rendu les plus honorables témoignages et la grande majorité de votre Commission à pensé qu'il convenait de leur accorder l'encouragement de nouveaux droits. - Moniteur de 1820, p. 58.

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¹ Session de 1819.

² Loi du 7 juin, 1820; loi du 27 juillet, 1822; loi du 17 mai, 1826.

⁸ Moniteur de 1822, p. 86.

la production, fortifiée de l'intérêt agricole, l'emporta sur l'intérêt des consommateurs;¹ et, lorsqu'après une longue discussion qui avait eu, comme toujours, pour résultat d'aggraver les taxes primitives, le vote d'ensemble eut lieu, il se trouva dans l'urne 185 boules blanches contre une seule boule noire.² Les députés ne purent s'empêcher de rire; il y avait alors sur la question du système protecteur une parfaite entente entre les partis.

L'accord était devenu moins unanime en 1822. Le prix des fers fabriqués au bois et au marteau avait baissé par un de ces accidents fréquents du marché, dont on doit s'applaudir quand ils ont pour cause une production plus économique.³ Nouvelles doléances des maîtres de forges qui s'en prirent à l'importation, et obtinrent une ordonnance augmentant les droits. Aussitôt des réclamations de tout genre assaillirent le ministère qui, bien que peu disposé à remanier les tarifs, dut céder, en déclarant que l'intérêt du fisc était cette fois tout à fait étranger à la mesure.⁴ Il présenta un projet qui, comme le disait le baron de Saint-Cricq, dans l'exposé des motifs, avait pour but "de protéger et pour cela d'encourager par de forts droits sur les produits du dehors, de défendre même par des prohibitions toutes les exploitations du sol, tous les efforts de l'industrie." Vouloir protéger tout, c'eût été ne rien protéger.

Néanmoins, la Chambre, trouvant le projet insuffisant, le refondit. Le rapporteur de la commission était Bourienne. Celui-ci professait comme principe économique que le peuple

¹ Le projet ministériel avait mis un droit de 20 pour 100, au lieu de la prohibition, pour les châles cachemires, parceque cette prohibition était tout à fait illusoire. L'assemblée rétablit la prohibition; cette fois les fabricants de lainage appuyèrent, et la Chambre vote à l'unanimité. — Moniteur de 1820, p. 567.

² Moniteur de 1820, p. 626.

³ Les fers au bois ou au marteau étalent tombés de 400 à 500 francs ls tonne par suite de la concurrence des fers à la houille ou la laminoir.

4 "Les autres," disait le baron de Saint-Cricq, "modifient quelques articles du tarif, non dans l'intérêt du Trésor; car plusieurs taxes subissent une rédución, et l'augmentation proposée sur quelques autres aura pour effet d'atténuerles recettes en restreignant l'importation des objets qui en seront grevés, mis dans la seule vue de satisfaire à des intérêts nouveaux ou mieux constatés." Moniteur de 1822, p. 79.

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importait des argum vés, si elle disait-il, " d'intérêts ; mais c'est qu'une mess Dans les so Le marchan profits. Fo peut-être me peuple cons nationales ; favorable ; t sommation,

Les vieille core vivaces l'intérêt gén de ceux que chérir le suer de producteu leur reproche essentielleme. France va pa risseurs de be

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"le plus riche était toujours celui qui exportait le plus et qui importait le moins." Il en développait les conséquences par des arguments que l'Assemblée eût sans doute moins approuvés, si elle eût été plus désintéressée. "Les lois de douancs." disait-il, "en favorisant et en satisfaisant un grand nombre d'intérêts généraux, blessent quelques intérêts particuliers ; mais c'est un mal inévitable, et lorsqu'il est bien démontré qu'une mesure est utile au grand nombre, il faut la prendre. Dans les sociétés humaines, tout se résout par des majorités. Le marchand en général repousse les droits qui diminuent ses profits. Forcé de s'adresser à l'industrie intérieure il gagnera peut-être moins, mais le pays y gagnera plus. Tout ce qu'un peuple consomme est un élément d'aisance et de prospérité nationales; tout ce qu'il consomme par échange est encore favorable; tout ce qu'il achère avec de l'argent pour sa consommation, l'appauvrit."

Les vieilles erreurs de la balance du commerce étaient encore vivaces. Mais il était au moins singulier d'invoquer l'intérêt général, quand les objets frappés de droits étaient de ceux que tout le monde consomme, quand on faisait enchérir le sucre, la viande, et le fer au profit de trois catégories de producteurs. Le comte de Laborde ne craignit pas de le leur reprocher. "La loi que vous allez rendre," dit-il, "est essentiellement privilégiaire; c'est une prime que toute la France va payer aux colons, aux maîtres de forges, aux nourrisseurs de bestiaux de la Normandie." En effet la loi du 27 juillet, 1822, portait principalement sur ces trois points.

La loi du 28 avril, 1816, avait mis sur les sucres étrangers une taxe supérieure de 33 pour 100 à celle des sucres de nos colonies: grande faveur, qui en peu d'années doubla le chiffre des importations coloniales et permit, en 1821, à nos planteurs de placer en France 50 millions de kilogrammes de sucre, tandis que les étrangers n'en vendaient que 2,600,000 kilogrammes. Cependant, les planteurs se trouvaient gênés par cette concurrence; ils obtinrent que la surtaxe fût élevée à 50 pour 100. Les intéressés auraient voulu plus encore. Ils tombèrent de Charybde en Scylla; car, si les sucres étrangers ne vinrent plus, le sucre de betterave, sollicité par les hauts

prix, les remplaça et disputa bientôt le marché aux produits des Antilles.

Les bœufs entraient en franchise sous l'Empire ; ils avaient été soumis au droit modéré de 3 francs à partir de 1816, et ils continuaient à entrer. Les éleveurs réclamèrent et le ministre dut proposer, dans son projet, de décupler la taxe sur les bœufs gras. C'était énorme surtout un pays où "la viande est un objet de luxe pour les classes inférieures," comme disait un député. La Chambre ne le jugeait pas ainsi ; elle demanda beaucoup plus, et finit par obtenir 50 francs. En même temps, malgré le ministère, elle augmenta les taxes d'entrée sur les laines, sur les suifs, sur les viandes fraiches et salées.

Les maîtres de forges déclaraient le droit de 165 fr. tout à fait insuffisant, et le directeur général, soutenant leurs prétentions, annonçait avec effroi que l'importation des fontes s'était élevée, en six ans, de 800,000 kilogrammes à 7,000,000. "C'était," ajoutait-il, "un avertissement pour l'administration."1 Le droit sur les fers à la houille fut porté à 275 fr., représentant 120 pour 100 de la valeur des marchandises anglaises qu'on voulait écarter. On réussit; car la production du gros fer doubla, et l'importation anglaise devint presque nulle. Mais le fer, qui sous Louis XVI. valait 350 fr., monta à 650 fr. la tonne. C'était un triste progrès. Encore les forges ne recueillirent-elles pas le profit de ce lourd impôt prélevé sur l'industrie nationale. "Nous faisions quelques bénéfices," disait en 1828 un propriétaire d'usine, "quand nous vendions à 450 fr., et nous perdons aujourd'hui en vendant à 500 fr.; la cause en est qu'en 1819 la banne de charbon revenait à 18 fr. 05 c., tandis qu'elle revient à 37 fr. 50 c." L'avantage restait aux propriétaires fonciers.

Les plus clairvoyants ou les moins engagés dans les intérêts prohibitionnistes commençaient à entrevoir le danger du système. Ternaux le signalait: "L'Espagne," disait-il, "a répondu par une prohibition de nos produits manufacturés à l'impôt mis sur les laines, et le ralentissement de la draperie a fait baisser les laines françaises."² Plusieurs s'etonnaient qu'une matière

¹ Voir le Moniteur de 1822, p. 940.

² Moniteur de 1822, p. 899.

première, le comte d qu'il eût fa Etienne un montraient gueurs, le ouvriers san able, en évo verselles po faveur des c

Même apı trouvait que ture et pour d'un comité eher si les o nécessité ind

Vivement ancien minist mencement de général des *Moniteur*, pro qu'il avait, di déclarant que la pousseur à l

¹ Entre autres,

² Moniteur de 18 ³ "Laissez entre fontes, les sucres, c riquer ou produire ruine de vos colon vriers, l'exportation encore de vos contr à Labbey de Pompié

⁴ Moniteur de 182 d'État, déclarant qu tributions de la puis murmura. C'est à co merce extérieur; l'at ⁵ Du Commerce de ⁶ "Il n'est pas de cais le plus de travail

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première, telle que la fonte, fût pour ainsi dire proscrite,¹ et le comte de Laborde s'indignait, au nom du progrès industriel, qu'il cût fallu payer 7,000 fr. de droit pour introduire à Saint-Etienne une machine à vapeur.² Mais les prohibitionnistes montraient en perspective, au moindre relâchement des rigueurs, le marché français envahi, nos ateliers fermés, nos ouvriers sans travail, et obtenaient sans peine un vote favorable, en évoquant le fantôme de la ruine et de la misère universelles pour rétorquer l'argument de leurs adversaires en faveur des consommateurs.³

Même après la loi de 1822, ils réclamaient encore. La droite trouvait que le ministère n'avait pas assez fait pour l'agriculture et pour le commerce. Elle provoqua, en 1823, la création d'un comité d'enquête qui devait "s'attacher surtout à rechercher si les objets étrangeis importés en France y sont d'une nécessité indispensable comme matière première."⁴

Vivement attaqué à ce sujet par le comte de Vaublanc, ancien ministre,⁵ le baron de Saint-Cricq, qui, depuis le commencement de la Restauration, occupait le poste de directeur général des douanes, se défendit par une lettre insérée au *Moniteur*, professant hautement la doctrine protectionniste,⁶ qu'il avait, disait-il défendue avant M. de Vaublanc, mais déclarant que pour la rendre pratique il fallait se garder de la pousseur à l'extrême, et rappelant les faveurs dont le gou-

¹ Entre autres, Duvergier de Hauranne et Laîné.

² Moniteur de 1822, pp. 939 et 940.

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³ "Laissez entrer les tissus de coton, les draps, les faïences, les fers, les fontes, les sucres, et une foule d'autres articles que vous ne pouvez encore fabriquer ou produire au prix de nos voisins, la conséquence immédiate sera la ruine de vos colonies, de vos manufactures, la misère de deux millions d'ouvriers, l'exportation rapide de votre numéraire et la diminution plus rapide encore de vos contributions." — Discours de Bourlenne, rapporteur, en réponse à Labbey de Pompières ; Moniteur de 1822, p. 902.

⁴ Moniteur de 1823, séance du 15 mars, p. 310. Le ministère posa la question d'État, déclarant qu'il serait dangereux que la Chambre empiétât sur les attributions de la puissance exécutive, et la proposition fut rejetée; la droite murmura. C'est à ce propos que furent publiés les premiers tableaux du commerce extérieur; l'attaque eut au moins de ce côté un bon résultat.

⁵ Du Commerce de la France en 1820 et 1821, brochure.

⁵ "Il n'est pas de bon tarif pour la France que celui qui réserve aux Frantais le plus de travnil possible."

vernement avait comblé les agriculteurs et les manufacturiers. trop oublieux des services passés. Cette lettre peut être regardée comme le manifeste de l'administration douanière du. rant cette période : "Depuis la Restauration," disait le baron de Saint-Cricq, "les lois de douanes se sont appliquées constamment à concilier, dans la vue d'une protection commune, les intérêts souvent opposés, toujours distincts, de l'agriculture, de l'industrie et du commerce. . . . Je demanderai à l'agriculture si ce n'est pas à ces lois qu'elle doit et les taxes d'importation qui la protégent contre un nombre infini de produits étrangers, tels que les blés, les bestiaux, les laines, les garances, les chanvres, les lins, les houblous, que le système constant des tarifs antérieurs était d'attirer par une entière immunité, et les franchises d'exportation qui ouvrent un facile écoulement à des produits que les lois anciennes ne s'étaient jamais appliquées qu'à retenir? Je de manderai à notre industrie manufacturière si ce n'est pas dans ces mêmes lois qu'elle a trouvé et le maintien des garanties que le travail national avait précédemment obtenues et les garantics nouvelles sans lesquelles nos forges, nos fabriques de faux, de limes, de céruse, de minium, de zinc, et de cuivre laminés, et beaucoup d'autres encore, seraient loin du haut degré de prospérité auquel elles sont parvenues? Je demanderai enfin au commerce maritime si ce n'est pas grâce à ces lois, et je ne craindrai pas d'ajouter, grâce à leur libérale ap plication, qu'il a pu donner l'essor à ses armements, protégés pour la première fois par des droits différentiels, gradués suivant le pavillon et la longueur de la course, entreprendre avec sécurité des spéculations lointaines, que les taxes postérieures à l'entreprise out constamment respectées, jouir, quaut aux entrepôts, au transit, au cabotage, et même au règlement des droits, de toutes les franchises; de toutes les facilités, de toutes les exceptions rigoureusement compatibles avec l'accomplissement des lois générales et de la sûreté des perceptions ?"1

Les intéressés ne se payèrent pas du souvenir de bienfaits

¹ Moniteur de 1823, p. 155.

qu'ils avai ils en ari puis, sous les droits portion co produits as qui pavaie imposées p loi de 1826 sorte exclu ruranx. gras, payere convertures à écrire et d furent quad taxes nomb. portées par accordées au

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ou'ils avaient pour la plupart escomptés. Ils en voulurent et ils en arrachèrent d'autres, d'abord par des ordonnances; puis, sous Charles X., par la loi du 17 mai, 1826, qui diminua les droits d'exportation, et aggrava encore dans une proportion considérable les droits d'entrée sur la plupart des produits agricoles. Les laines brutés étrangères, par exemple, qui payaient 10 fr. au tarif de la loi de 1820, avaient été imposées par ordonnance à 30 fr. en 1823, à 40 en 1824, et la loi de 1826, sanctionna cette dernière taxe : c'était en quelque sorte exclure entièrement les importateurs de nos marchés Autre aggravation sur les bœufs qui, maigres ou ruranx. gras, paydrent 50 fr.; même droit pour les chevaux. Sur les convertures de laine, l'acier fondu, les cordages, les plumes à écrire et d'autres articles, les taxes furent doublées. Elles furent quadruplées sur la plupart des tissus de fil. Des surtaxes nombreuses furent imposées sur les marchandises importées par navires étrangers; des primes d'exportation accordées aux manufacturiers.¹

La loi de 1826, compléta le système restrictif de le Restauration. Quelques-uns de ses plus habiles défenseurs, le comte de Villèle entre autres, le considéraient "comme un moyen temporaire, mais indispensable, offert à la production française, de se mettre autant que la nature des choses le permet, eu équilibre avec la production étrangère." Mais ces prohibitions temporaires, loin de tendre à disparaître, devaient fatalement se multiplier, s'aggraver, se consolider.

Le gouvernement était plus sage que les partis. Toutefois, s'il avait sur ces questions plus de lumières que la Chambre, parce qu'il était moins aveuglé par des intérêts particuliers, il n'avait ni des convictions assez fortes ni une puissance assez indépendante pour résister victorieusement: peu des ministres auraient consenti à jouer leur portefeuille sur une question de douanes, surtout avec tant de chances de perte. Le gouvernement se contentait donc de modérer les ardeurs inconsidérées des protectionnistes, tout en se proclamant ouvertement le défenseur du système. De temps à autre, il faisait entendre

¹ Voir le Moniteur de 1826, pp. 177 et 807.

à la tribune quelque avertissement, comme le baron Louis en 1814. Le baron de Saint-Cricq lui-même, dans l'exposé des motifs de la loi du 28 avril, 1816, s'était exprimé avec beaucoup de mesure : " Nous aurions moins de progrès à faire," disait-il, "si une trop longue interruption dans nos relations commerciales n'eût constitué une prohibition à l'abri de laquelle on a punégliger, sans danger, des moyens de perfectionnement qu'une heureuse rivalité n'aurait pas manqué de développer." ... Pour admettre cette rivalité, " nons avons dû," ajontait-il, "attendre que les temps et les progrès d'une opinion qui s'éclaire tous les jours davantage aient résolu cette grande question." Malheureusement, c'était hors du palais Bourbon que les lumières se faisaient peu à peu; dans l'Assemblée, l'événement prouva que d'ordinaire les intérêts s'obstinent et ne s'éclairent pas. Ainsi le veut la nature humaine. Ouvrez la porte du privilége, la foule s'y précipitera, et on s'y étouffera bien longtemps avant de comprendre que l'on cût été plus à l'aise en plein air que dans une enceinte réservée, mais où tout le monde a voulu entrer.

Cet encombrement finissait par devenir gênant pour les protectionnistes enx-mêmes, qui étaient obligés de rudoyer les trop nombreux prétendants, et d'invoquer contre eux la théorie du salut public. "Ne sait-on pas," disaient-ils, "que les sociétés ne subsistent et ne prospèrent que par les sacrifices individuels ?"¹ Ils vantaient, et avec raison, la prospérité industrielle de la France sous le governement des Bourbons;² mais c'était à tort qu'ils en rapportaient l'honneur aux taxes prohibitives. Ils ne comprenaient pas que, sous de bonnes comme sous de mauvaises lois, une société peut se développer, quand elle a en elle de puissantes causes de vitalité, et qu'en pareil cas, les details de l'administration qu'il ne faut pourtant jamais dédaigner, facilitent ou retardent le progrès, mais sans l'étouffer. Or la France du dix-neuvième siècle était animée par deux principes supérieurs qui la faisaient alors grandir, malgré les obtacles : la science et la liberté.

¹ Rapport de M. Fouquier-Long, Moniteur de 1816, p. 406.

² Sous ses rois légitimes, ce beau royaume jouit de tous les bienfaits de la paix; chaque jour ses richesses s'accroissent, la grande masse de la population les partage, le cercle des jouissances individuelles s'étend. — *Ibidem*.

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La France de poser ave économique rassemblait, trine métho pour la pren dans chacune sur les lois d

¹ "Art. 1. Lc en France sur 1: cédera pas 20 fr. mémes produits petés par navirr de France, impor additionnel qui m en sus des droits France, quand ils navigation et de c lv22

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A l'extérieur, le système prohibitif devait nécessairement amener, comme à l'époque de la lutte de Colbert contre les Hollandais, des mécontentements, et par suite des represailles et des capitulations. La Restauration céda d'abord devant les menaces des États-Unis, et signa la convention de 1822, qui établissait entre les deux marines le principe de la réciprocité;¹ puis elle céda devant l'Angleterre,² et bientôt elle traita sur pied d'égalité avec les États-Unis.³

Le spectacle de la richesse croissante, non-seulement en France, mais dans la plupart des États de l'Europe, où la paix favorisait l'essor des entreprises, avait pourtant stimulé les études d'économie politique. L'Angleterre commençait à fixer son attention sur le sort de classes laborieuses, et Huskisson venait de la faire résolûment entrer dans les voies de la liberté commerciale. L'Allemagne écoutait la voix de List proclamant les bienfaits d'une union douanière, et organisait le Zollverein.

La France, qui avait eu, au dix-huitième siècle, le mérite de poser avec Quesnay les premiers fondements de la science économique, la retrouvait transformée par Adam Smith, et en rassemblait, avec J. B. Say, les éléments en un corps de doetrine méthodique. Le *Traité d'Économie Politique*, publié pour la première fois sous le Consulat, remanié et amélioré dans chacune des éditions successives,⁴ répandait de justes idées sur les lois de la production et de la distribution des richesses,

¹ "Art. 1. Les produits naturels ou manufacturés des États-Unis importés en France sur bâtiments des États-Unis, payeront un droit additionel qui n'excédera pas 20 fr. par tonneau de marchandises, en sus des droits payés sur les mêmes produits naturels ou manufacturés des États-Unis, quand ils sont impeties par navires frunçais. — Art. 2. Les produits naturels ou manufacturés de France, importés aux États-Unis sur bâtiments français, payeront un droit additionel qui n'excédera pas 3 dollars 75 cents par tonneau de marchandise, en sus des droits payés sur les mêmes produits naturels ou manufacturés de France, quand ils sont importés par navires des États-Unis." — Convention de navigation et de commerce conclue entre la France et les Etats-Unis le 24 juin 1822.

² Traité de navig. avec l'Angleterre, du 8 février, 1826.

¹ Traité de comm. et de navig. du 7 juin, 1826.

⁴ La première édition est de 1803. Quatre autres éditions ont été publiées, à un grand nombre d'exemplaires, pendant la Restauration, en 1814, 1817, 1819, et 1896.

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et l'auteur les avait lui-même, depuis 1819, propagées au Conservatoire des arts et métiers dans l'enseignement dont l'avait chargé le comte Decazes.¹

Non-seulement il montrait, comme Adam Smith, la source des richesses dans le travail; mais le premier par une théorie neuve² autant que simple, il faisait apercevoir les liens de solidarité qui unissent les différentes industries et dans une même nation et entre des nations diverses. "De toute manière," disait-il avec la rectitude du bons sens, "l'achat d'un produit ne peut être fait qu'avec la valeur d'un autre.-La première conséquence qu'on peut tirer de cette importante vérité, c'est que, dans tout État, plus les producteurs sont nombreux et les produits multipliés, et plus les débouchés sont faciles, variés, et vastes. - Une seconde conséquence du même principe, c'est que chacun est intéressé à la prospérité de tous, et que la prospérité d'un genre d'industrie est favorable à la prospérité de tous les autres. - Une troisième conséquence de ce principe fécond, c'est que l'importation des produits étrangers est favorable à la vente des produits indigènes; car nous ne pouvons acheter les marchandises étrangères qu'avec des produits de notre industrie, de nos terres et de nos capitaux, auxquels ce commerce, par conséquent, procure un débouché." 3

Ces principes étaient bien différents de ceux qu'on professait à la Chambre des Députés. Ils constituaient un remarquable progrès dans la manière non-seulement de comprendre les questions commerciales, mais d'envisager la politique tout entière. L'opposition apparente des intérêts avait rendu nationale la haine de l'étranger et placé les peuples vis-à-vis les uns des autres dans un état permanent d'hostilité secrète ou avouée; les sages eux-mêmes le proclamaient. "Telle est la condition humaine," écrivait Voltaire, "que souhaiter la grandeur de son pays, c'est souhaiter du mal à ses voisins. . . Il est clair qu'un pays ne peut

¹ Publié sous le titre de Cours complet d'Économie politique pratique.

² Autant que peuvent être neuves les observations du bons sens. Un deze de Venise parlait au quinzième siècle comme J. B. Say au dix-neuvième. Voir la leçon d'ouverture de M. Bandrillart au Collége de France, année 1866.

³ Traite d'Économie politique, édition de 1841, pp. 141, 144, 145.

gagner san naturelleme prohibitif. horizon bier politique. de réserve. avoir l'agré ficilement lo Cependan de la bourge France; les retiré pour f les affaires s du commerc le moment cabinet, et, le premier liberté." U gouvernemen donner plein "dans l'état qui s'y trouv sonné de pro ment le trava pour chaque en préconse o excessive." 3 l'administrati il déclara à 1 ue fallait " ni qu'on admit le de son côté, la qu'il présenta

¹ Voltaire, Dic ² Il y eut des grandes industries ³ Moniteur de 1 Cependant deux e L'Enquéte sur les j

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gagner sans qu'un autre perde."¹ De cette opinion dérivait naturellement la balance du commerce et l'esprit du système prohibitif. La théorie des débouchés de J. B. Say ouvrait un horizon bien autrement large au commerce et à la philosophie politique. Mais, quoique produite à la tribune, avec beaucoup de réserve, par quelques orateurs de la gauche, elle ne pouvait avoir l'agrément de la majorité : les intérêts comprennent difficilement les théories qui les gênent.

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Cependant le ministère Villèle, devant l'hostilité manifeste de la bourgeoisie parisienne, avait fait appel à l'opinion de la France; les élections lui avaient été contraires, et il s'était retiré pour faire place au cabinet le plus libéral qui ait dirigé les affaires sous la Restauration. Martignac créa un ministère du commerce et y appela le baron de Saint-Cricq. C'était le moment de tenter une réforme ; la gauche appuyait le cabinet, et, dans son adresse, la Chambre proclama "que le premier besoin de l'industrie et du commerce était la liberté," Une commission d'enquête fut nommée par le gouvernement en 1828.² La conclusion, qui était loin de donner pleine satisfaction au vœu de l'adresse, fut que "dans l'état de l'industrie en France en présence des intérêts qui s'y trouvent engagés, on doit s'en tenir à un système raisonné de protection, c'est-à-dire, d'une part, protéger efficacement le travail du pays, et de l'autre, étudier soigneusement, pour chaque industrie, la quotité de la protection nécessaire en préconte des dommages que pouvait créer une protection excessive."³ Le baron de Saint-Cricq pouvait, comme tout l'administration, l'accepter sans renoncer à ses propres idées ; il déclara à la tribune avoir toujours pensé et professé qu'il ne fallait "ni tout permettre ni tout interdire," et que, pourvu qu'on admît le principe de la protection, il admettait très-bien, de son eôté, la controverse sur la limite à fixer. Or, le projet qu'il présenta, sans changer l'esprit des tarifs, adoucissait les

¹ Voltaire, Dict. philos., vo partie.

² Il y ent des commissaires dans la plupart des grandes villes et pour les grandes industries. Voir, *passim*, le *Monteur* de 1828.

⁸ Moniteur de 1829, p. 810. Exposé des motifs par le baron de Saint-Cricq. Cependant deux enquêtes seulement furent faites méthodiquement et publiées. *UEnquête sur les fers*, 1828, 1 vol. in-4, et *l'Enquête sur les sucres*, 1828, 1 vol. in-4.

taxes de certains produits exotiques, et anuonçait que, cinq ans après la publication de la loi, le droit sur les fers serait diminué d'un cinquième. C'était un commencement de réforme qui, par son extrême modération, avait l'avantage de ne pas froisser trop rudement les intérêts, et la chance d'être adopté. Il ne fut pas même discuté. Le ministère Martignac tomba, et son successeur se garda bien de reprendre un projet désagréable à la droite.

Le système prohibitif qui caractérise la législation donanière de la Restauration demeura intact. Constitué par les lois de 1819 et de 1821 pour les céréales, par les lois de 1816, de 1817, de 1818, de 1820, de 1822, et de 1826 pour les produits de l'agriculture et des grandes fabriques, il s'était proposé comme but de réserver aux seuls producteurs français le marché français. But bien difficile à atteindre dans un état de civilisation où les rapports des peuples sont si fréquents; impossible et illogique, dès qu'on avait en même temps la prétention de favoriser et d'étendre le commerce extérieur. Pour réussir, sans commettre de trop grandes injustices, il aurait fallu pouvoir isoler la France comme le Japon s'est longtemps isolé au milieu de l'Océan; le travail qu'on se plaisait à appeler national aurait seul pourvu, tant bien que mal, aux besoins des nationaux, et tous auraient subi la condition commune. Mais dès que la barrière ne s'élevait que pour quelques-uns, il y avait nécessairement un privilége en faveur de ceux, quels qu'ils fussent, qui avaient le droit, comme producteurs, d'imposer leurs marchandises à leurs concitoyens et le droit, comme consommateurs, de choisir entre les marchandises de leurs concitoyens et celles des étrangers. Il devait y avoir, par suite, une ardente compétition pour être admis à la jouissance de ce privilége.

Pour assurer à l'intérieur l'exécution des lois prohibitives, il fallut étendre encore à de nouveaux objets la surveillance administrative, — ordonner, par exemple, que les tissus « tricots de la nature de ceux qui étaient prohibés ne fussent unis en vente qu'avec une marque particulière,¹ prescrire le

¹ Ord. des 8-14 août, 1816.

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politique con vent était ale l'Empire, les ments avaien qui semblait s'était gardé l'avait, quelqu Partout on a culièrement 1 prix avait for La France, il & l'Allemagne de le suivre, e même était re qu'elle avait 1 fonciers.

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¹ Loi du 21 avril, dé: 1819; des 8-24 a ² Prenant en congrand nombre de man fiance, en ce qui les difficultés qui s'oppose chacun des objets pro-

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mode de dévidage et d'enveloppe de cotons filés en France,¹ faire de visites domiciliaires, saisir les marchandises suspectes, exciter des mécontentements et des reclamations.² Un mal conduisait à un autre mal.

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Il faut dire, pour mieux faire comprendre les causes de la politique commerciale en France, que dans toute l'Europe le rent était alors à la protection. Après les rudes secousses de l'Empire, les nationalités s'étant reconstituées, les gouvernements avaient favorisé dans une certaine limite cette tendance qui semblait assurer leur indépendance politique, et chacun s'était gardé d'autant plus de ses voisins que les événements l'avait, quelque temps auparavant, lié plus étroitement à eux. Partout on avait repoussé les produits étrangers, et particulièrement les produits anglais, dont l'introduction à bas prix avait fort déconcerté les manufacturiers du continent. La France, il est vrai, avait donné l'exemple aux Pays-Bas, à l'Allemagne, à l'Espagne; mais ceux-ci s'étaient empressés de le suivre, et parfois l'avaient dépassé. L'Angleterre ellemême était restée, jusqu'en 1824, hérissée de prohibitions, qu'elle avait même aggravées au profit de ses propriétaires fonciers.

La protection était au pouvoir en Europe. Toutefois l'économie politique, patronne de la liberté commerciale, lui livrait déjà de rudes combats dans le domaine de la science; elie triomphait dans le domaine des faits; elle donnait Huskisson à l'Angleterre et en France elle commençait à miner, avec le double argument de la consommation et des débouchés, la forteresse élevée par des intérêts privés et soutenue par des préjugés: mais la forteresse était énergiquement défendue.

¹ Loi du 21 avril, 1818; loi du 26 mai, 1819; ord. du 16 juin, 1819; des 1-15 des 1819; des 8-24 avril, 1829.

² Prenant en considération les représentations adressées de la part d'un rand nombre de manufacturiers et de marchands de bonneterie, soit sur l'insuffiance, en ce qui les concerne, des délais précédemment accordés, soit sur les dificultés qui s'opposent à ce que la marque puisse être séparément appliquée à étacun des objets provenant de leur jadustrie. — Ord. des 23-30 sept. 1818.

VIII.

THE ZOLLVEREIN.

FROM BOWRING'S REPORT ON THE PRUSSIAN COMMERCIAL UNION, PARL. DOC. 1840, VOL. XXI. PP. 1-17.

IN compliance with the instructions which I had the honor to receive from your lordship, dated Foreign Office, July 14, 1839, I proceed to report on the progress, present state, and future prospects of the Prussian Commercial League.

No doubt this great Union, which is known in Germany by the name of the Zollverein, or Zollverbande (Toll Association or Alliance), derived its first and strongest influence from a desire to get rid of those barriers to intercommunication which the separate fiscal legislation of the various States of Germany raise among a people whom natural and national feelings, as well as common interests, would otherwise have connected more intimately and permanently together.

The Zollverein represents, in Germany, the operation of the same opinions and tendencies which have already effected so many changes in the commercial legislation of other comtries. In the United Kingdom the custom-house laws which separated Scotland and Ireland from England have been superseded by a general system applicable to the whole. In France the local barriers and the local tariffs have given way to a general and uniform system of taxation. Even before the Commercial League associated so many States in a common union, several less extensive combinations had prepared the way for a more diffusive intercourse. Between the States which do not form part of the Prussian League — as, for example, between Hanover and Brunswick and Oldenburgh.the same tariffs have been adopted, and the payment of duties in one of in the oth The Co sentative Germany, breaking of a foundati common in

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The Commercial League is, in fact, the substantial representative of a sentiment widely, if not universally, spread in Germany, - that of national unity. It has done wonders in breaking down petty and local prejudices, and has become a foundation on which future legislation, representing the common interests of the German people, may undoubtedly be hereafter raised. If well directed in its future operation, the Zollverein will represent the fusion of German interests in one great alliance. The peril to its beneficial results will grow out of the efforts which will be made, and which are already made, to give by protections and prohibitions an undue weight to the smaller and sinister interests of the Verein. But if its tariffs be so moderate and so judicious as to allow full play to the interests of the consumers in the field of competition; if there should be no forcing of capital into regions of unproductiveness or of less productiveness; if the claims of manufacturers to sacrifices in their favor from the community at large be rejected; if the great agricultural interests of Germany recover that portion of attention from the commercial union to which they are justly entitled; if the importance of foreign trade and navigation be duly estimated, - the Zollverein will have the happiest influence on the general prosperity. And that the League has been much strengthened by the experience of its b nefits; that its popularity is extending; that its further spreading may be confidently anticipated, -appears to be indubitable. In fact, the Zollverein has brought the sentiment of German nationality out of the regions of hope and fancy into those of positive and material interests; and representing, as it does, the popular feeling of Germany, it may become, under enlightened guidance, an instrument not only for promoting the peace and prosperity of the States that compose it, but of extending their friendly relations through the world.

Considerations both of morality and economy were not wanting to recommend the Commercial Union to the German people. Not only were the numerous barriers and various

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legislation of the German "'tes great impediments to trade, but they created a considerable amount of contraband traffic, and caused the country to swarm with petty smugglers, who lived upon the profits which the varieties of the tariffs placed within their reach. The custom-house administration was costly, and generally inefficient, from the extent of frontier to be guarded; so that the establishment of one large, instead of a variety of small circles, has led at the same time to a great diminution of cost and a great increase of efficiency, while it has removed from all the interior of Germany that demoralizing influence which the presence of multitudes of illicit traders and smugglers always brings with it.

The Zollverein was not, as it has been often asserted to be, a union formed in hostility to the commercial interests of other States; it was not intended prematurely to create a manufacturing population in rivalry with or opposition to the manufacturing aptitudes of Great Britain; it was by no means the purpose of its founders to misdirect capital to unprofitable employment, to sacrifice agriculture to trade, or to encourage less the field than the factory. The Zollverein was the substantial expression and effect of a general desire among a great nation, split into many small States, but still of common origin, similar manners, speaking the same language, educated in the same spirit, to communicate, to trade, to travel, without the annoyance and impediments which the separate fiscal regulations of every one of their governments threw in the way. If, in the natural process of things, the tariffs of the Zollverein have become hostile to the importation of foreign, and especially of British produce, it is because our laws have prevented the greater extension of commercial relations with Germany. We have rejected the payments they have offered; we have forced them to manufacture what they were unable to buy; and we have put in their hands the means of manufacturing cheaply, by refusing to take the surplus of their agricultural produce, the non-esportation of which has kept their markets so low that small wages have been sufficient to give great comforts to their laborers.

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There can be no doubt that the hostile tariffs of other nations, and especially the corn and timber laws of Great Britain, served greatly to strengthen the arguments in favor of commercial union. It was felt necessary to extend the home market while foreign markets were closed, or only partially and irregularly opened, to the leading articles of German production.

"We should not have complained," says a distinguished German writer, in 1835, "that all our markets were overflowing with English manufactures, — that Germany received in British cotton goods alone more than the hundred millions of British subjects in the East Indies, — had not England, while she was inundating us with *her* productions, insisted on closing her markets to *ours*. Mr. Robinson's Resolutions in 1815 had, in fact, excluded our corn from the ports of Great British; she told us we were to buy, but not to sell. We were not willing to adopt reprisals; we vainly hoped that a sense of her own interest would lead to reciprocity. But we were disappointed, and we were compelled to take care of ourselves." 1

Thus, while on the one hand, the Zollverein was advocated as a measure of self-defence against the hostile legislation of foreign nations, it should not be forgotten that, as respects the confederated States, it represented the principles of unrestricted intercommunication.

As between more than twenty-six millions of Germans, it was the establishment of *free trade*; restrictions, duties, prohibitions, custom-houses, there are none, as far as regards the various States that comprise the Commercial Union. Whatever impediments the tariffs create to commercial communication with foreign lands, the League has thrown down every barrier which stood in the way of trading intercourse between the different branches of the great German family, which the League represents. And, as the conception of the League was popular and national, so it cannot be denied that its workings have been, on the whole, favorable to the prosperity and to the

¹ Kanke's "Historisch-politische Zeitschrift."

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happiness of the German community. Tariffs less hostile to the manufactures and foreign commerce of nations would, as I conceive, have greatly added to the beneficial effects of the Union. Its more extended communications with other comtries would have given greater energy, and opened a wider field to the increased activity of the home trade. There is no reason why foreign commerce should not have been benefited to the same or even a wider extent than internal industry, by the overthrow of that local legislation which impeded intercourse, and by the introduction of a uniform and liberal system of custom-house legislation.

The Zollverein now represents the interests (well or ill understood) of more than twenty-six millions of inhabitants of the most civilized and opulent parts of Europe, and has accomplished one important result, namely, of exciting the attention and of awakening the apprehensions of more than one neighboring nation. What the Zollverein is to become may depend as much upon others as upon themselves; and, should its course be guided by enlightened economy and sound commercial policy, it may become an instrument of incalculable and boundless good.

Long before the Zollverein came into operation, the same spirit which led to its formation had been exhibited in various parts of Germany, leading to sundry local and even national reforms in the commercial policy of the German States.

Some steps had been taken in Prussia, during the years 1816 and 1817, by sundry ordinances to introduce a general and simple system of custom-house legislation,¹ and on the 26th May, 1818, a new tariff was published, which is, in fact, the groundwork of the existing arrangements. Before this period a different fiscal system prevailed in different parts of the Prussian kingdom. The imp^sts in Brandenburg amounted to 69 groschen — 7s. 4d. per individual; in Silesia they were only 22 groschen — 2s. 3d. The new law allowed the unrestricted eirculation of all foreign products which had

¹ See especially the ordinance of 11th June, 1816 — "Zur Aufhebung der Wasser-Binnen und Provinzialzölle zunächst in den alten Provinzen der Monarchie." once passe ductions. 10 per cen intention o would have

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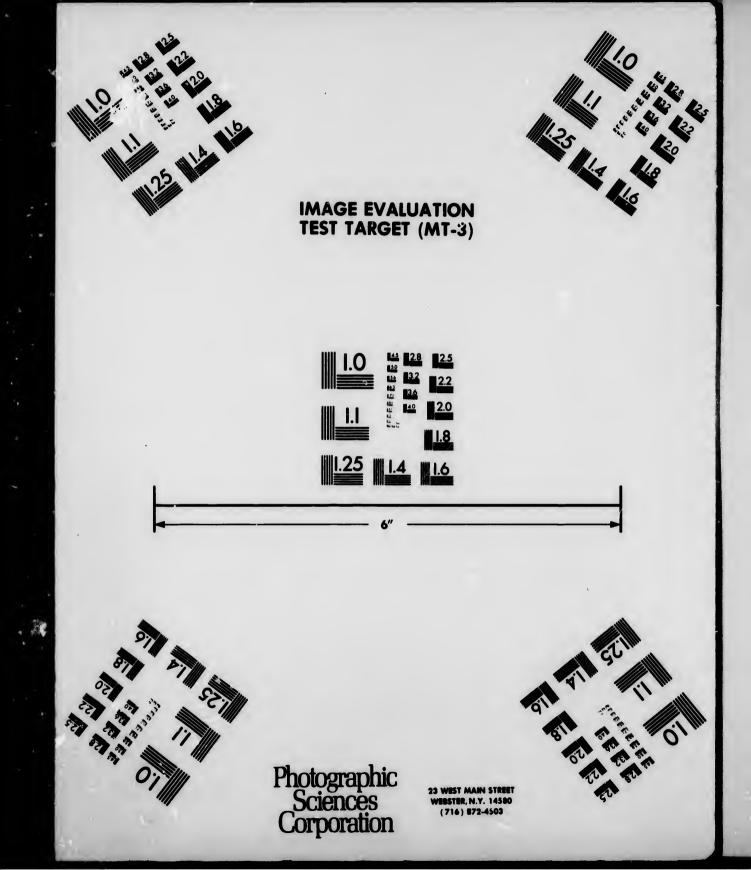
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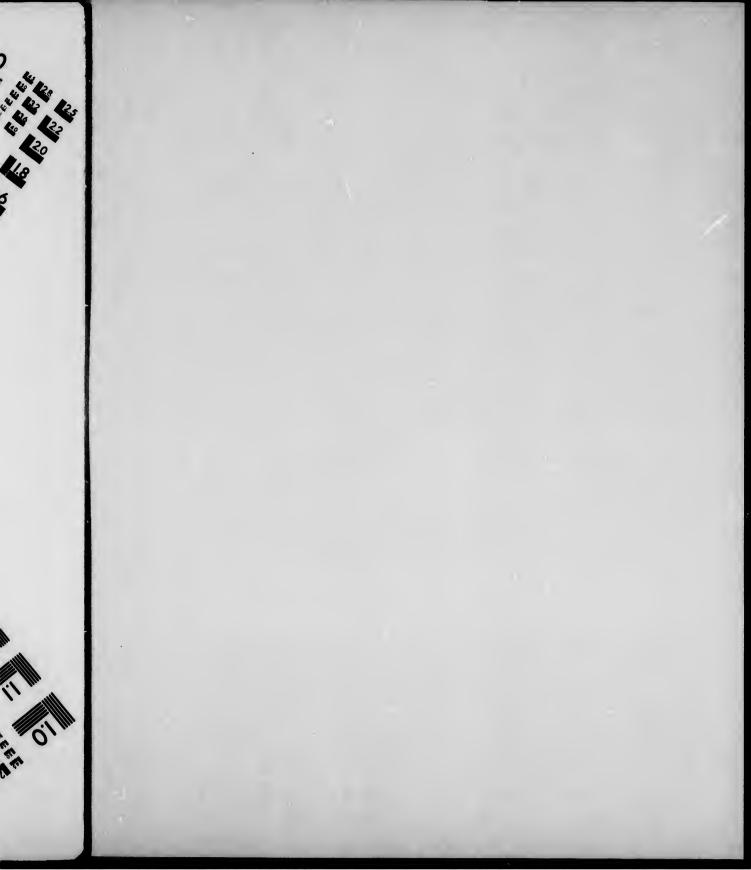
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once passed the frontier, and the free transit of all home productions. The intention of this tariff of 1818 was to establish 10 per cent as the maximum of protection; and, had the intention of the Prussians been carried into effect, there would have been no grounds for complaint.

In speaking of the Prussian tariff to the House of Commons, on the 7th May, 1827, Mr. Huskisson stated "that the duties on the internal consumption of British goods are what we should consider very low upon most articles, fluctuating from 5 to 10 per cent — upon no one article, I believe, exceeding 15 per cent;" but this was undoubtedly an incorrect view of things, for it will appear, on the investigation of the matter, that the duties on many articles of British manufacture vary from 20 to 100 per cent upon the value; and though no doubt the duty (being levied on the weight) has much increased in ad valorem amounts since 1827, it was, even then, from 20 to 60 per cent on various low-priced manufactures; nor was Mr. Huskisson warranted in saying that, "in the whole Prussian tariff, there is not a single prohibition," inasmuch as imports of salt and playing-cards are wholly prohibited, except for government account.

The most important step by which evidence was given of the tendency of the different States of Germany to amalgamate their interests and to establish, instead of many tariffs, one single system, was the union of Bavaria, Würtemberg, Hohenzollern-Sigmaringen, and Hohenzollern-Hechingen, in the commercial league of 28th July, 1824. Baden, the two Hesses, and Saxony were afterwards invited to join the League. The government of Prussia, alive to the state of public opinion, had entered by various treatics, from 1819 to 1830, into a commercial league with Grand Ducal Hesse, Lippe Detmold, and some smaller states, and in December, 1826, the enclaves (such portions of the territory as are surrounded by another State) of Mecklenburg-Schwerin, Ripen-Hesseland, Scheenberg, Anhalt-Kothen, Anhalt-Dessau, Hessellomburg, and other States, joined the Prusso-Hessian Union; while, in 1831, Saxony, Electoral Hesse, Saxe Weimar, Saxe Meiningen, Saxe Coburg, Saxe Altenburg, and other united





themselves to the Bavaro-Wurtemberg league. Each of these two great branches naturally sought to extend its influence, and each prepared the way for a fusion of the whole in one great association.

On the 22d March, 1833, a treaty was concluded between Prussia, Bavaria, Würtemberg, Electoral and Ducal Hesse; on the 30th March of the same year, Saxony joined the association; on the 11th of May, Anhalt and Ducal Saxony united themselves. The ratifications were exchanged on the 11th of May. This treaty is the basis of the Zollverein, or Commercial League. It will be found at length in the Appendix I. (Parl. Doc. pp. 73-78). In 1835 Baden united itself to the League, and Nassau and Frankfort-on-the-Maine have also become parties.

The first Prusso-Hessian Union, taking the name of the Preussisch-Hessischen Zoll Verbande, comprising many smaller States, such as Anhalt Dessau, Anhalt Neuberg, Saxe Coburg Gotha, Anhalt Kothen, Schwarzburg Sondershausen, Hesse Homburg, Schwarzburg Rudolstadt, etc., represented, according to the census of 1831, a population of 13,936,087 souls, and contained a territory of 5,278 square German miles. In 1833 it had, by the union of Electoral Hesse and the increase of population, augmented the number of souls to 14,827,418, and the territory to 5,460 square German miles. The States of Thuringia, containing about 900,000 inhabitants, had also their commercial and toll union before they joined the Prussian League in 1833, while Bavaria, Würtemberg, Saxony, and Baden, brought between 8 and 9 millions of population, and nearly 2,500 square German miles of territory into the confederation.

The following table exhibits the population of the States now comprising the German Custom-house Union, to serve as a basis for the Division of the Receipts at Triennial Periods:

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The Zolly its origin, no tion forced States that equally on a or foreigners. resisted by E denounced th and commerc tariffs of 181 existing legis tions and pro the question stadt was disc Darmstadt sh whether Pruss

¹ The population nues, as this town basis of a population

	Designation of the States which have given their assout in their own name.	Extent of ter- ritorial su- perficies in square miles.	Extent of the Custom- house fron- tier in miles.	Population according to the Census agreed upon on the 31st of December, in 1834. 1837.	
	Prussia, and the States which have come to an agreement with her	5,157 41 1,477 755 271 755 385 757 279 755 182 767 182 767 182 767 82 767 82 767	774 #8# 161 #8# 68 3 #8# 60 #8# 16 #8# 16 #8# 	13,692,889 4,251,118 1,695,668 1,027,122 1,237,657 640,074 769,691 008,478 873,601	14,318,250 4,819,887 1,052,114 1,067,901 1,264,614 652,761 701,736 031,340 383,730
)	Total for Division . Frankfort ¹		. . 	25,090,898 60,000	25,982,883 60,000
-	Total for Population.	8,252,71	1,064 49	25,150,898	26,042,888

The Zollverein had to contend with a strong opposition in its origin, not only from some of the States whose local position forced them into the union, but from other German States that continued independent, for the tariff pressed equally on all, not parties to the League, whether neighbors or foreigners. The Prussian tariffs of 1818 had been strongly resisted by Electoral Hesse, Cassel, and other States. Saxony denounced them as hostile, nay, fatal to her manufacturing and commercial interests. Yet it cannot be denied that the tariffs of 1818 were a great improvement upon the previously existing legislation, for they replaced multitudes of prohibitions and prohibitory duties by moderate imports. In 1826 the question of a union between Prussia and Hesse Darmstadt was discussed, and an inquiry was made, in case Hesse Darmstadt should unite with Bavaria and Würtemberg, whether Prussia would be willing to entertain the subject

¹ The population of Frankfort is not taken into the Division of the Revesue, as this town receives an inalienable and invariable sum calculated on the latis of a population of 60,000 souls (63,936).

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of a commercial treaty. The first answer of Prussia was unfavorable, but the difficulties were at last surmounted, and the League before referred to was formed between Prussia and Hesse Darmstadt, of which the Prussian tariff of 1818 was the basis, the custom-houses between the two countries being wholly removed, — each State, however, reserved the right to establish duties of consumption on sundry articles of food and drink; and Prussia was allowed to maintain the monopoly of salt and playing-cards.

The objects proposed by the Zollverein were the removal of all restrictions to communication and transit, the abolition of all internal custom-houses, the establishment of a common tariff and system of collection, and the repartition of the receipts on all imports and exports according to the population among all the members of the League. The States reserved to themselves the right of introducing any local arrangements which did not interfere with the general principles. - of nominating the functionaries of their own districts, and of examining the accountancy of any part of the League. The League is bound not to interfere with matters of local revenue, such as port-dues, turnpikes, tolls, etc. The Prussian tariff of 1818 was recognized as establishing the maximum of duties. It was determined that a common system of moneys, weights, and measures, should replace, as soon as possible, the various complicated and discordant usages of the different States of the union, and that the whole influence of the union should be directed towards the extension of its The intention of commercial relations with other States. the tariff is to admit raw materials without any, or on merely a nominal duty. The lightest duty levied is on silk goods, amounting to 110 dollars per cwt., or about 3 shillings sterling per lb.¹ The common rate of duty is half a dollar, or 1e. 6d. per cwt. on all articles not specially excepted. The tariff, as fixed by the Congress which has just closed its labors, will be found in the Appendix II. (Parl. Doc., p. 78). It would ill become me, in this report, to discuss - though

¹ The duty levied by the English tariff on silk goods is from 11s. to 27s. 64. per lb. The ger that it is *ization* of strongest 1 of interest pared the much local by a wider The Zoll

ence to ex in improvin the transpor pulse to inla of the seve and often h being given the means are taking p parts of the German por thing is tran

I cannot pass over in absolute silence - the probable political consequences of the establishment of the Zollverein. Thev certainly were not lost sight of by its founders. The intimate connection between commercial and political interests is obvious; and the advocates of the League did not fail to perceive that no political alliance would be so strong as that based upon a community of pecuniary and social interests. The jarring of differently constituted institutions, the local jealousies which still exert their influences, the clashing of personal and privileged interests with the public weal, have prevented, to a certain extent, the fusion which would otherwise have taken place, so that the political and the commercial policy are not always identified; but it cannot be denied that under a wise direction the machinery of the Zollverein would become a very mighty political engine, which would be brought to bear with great power upon the future concerns of Europe and the world at large.

The general feeling in Germany towards the Zollverein is, that it is the first step towards what is called the *Germanization* of the people. It has broken down some of the strongest holds of alienation and hostility. By a community of interests on commercial and trading questions it has prepared the way for a political nationality, — it has subdued much local feeling, prejudice, and habit, and replaced them by a wider and stronger element of German nationality.

The Zollverein, by directing capital to internal, in preference to external trade, has already had a great influence in improving the roads, the canals, the means of travelling, the transport of letters, — in a word, in giving additional impulse to inland communications of every sort. The isolation of the several German States, with separate fiscal interests, and often hostile legislation, prevented those facilities from being given to intercourse which are alike the evidence and the means of civilization. On every side beneficial changes are taking place. Railways are being constructed in many parts of the German territory, steamboats are crowding the German ports and coasting along the German shores; everything is transported with greater cheapness and rapidity.

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emoral olition ommon of the e popu-States y local princiistricts, League. of local Prussian mum of moneys, hossible, the difence of of its tion of merely goods, gs sterollar, or The 1. baed its b. 78). though 0 27s. 64

But whatever opinions may be formed as to the effect of the Commercial League upon British interests, it is now too late to discuss them beneficially. The League exists, and is not likely to be broken up; the separate interests of the different States are blended in the common interests of the Zollverein; all the topics of comparison between the general tariff and the tariffs which previously existed in the various independent States of the union are now removed; whatever existed of local fiscal influence is merged in the common alliance, and the League must now be accepted and treated with as a body more influential than were any of its members, capable of controlling the smaller influences of its component parts by the concentrated influence of the whole.

It is natural that a body so powerful as the Commercial League should seek to extend its influence. More coasts, more ports, and more shipping are the three desiderata which are put forward by its advocates and members. For the coasts and the ports of the Baltic belonging to the union are so much cramped and prejudiced by the Sound dues that they cannot meet, in any of the great emporiums of trade out of the Baltic, the competition of the ports and coast south of the Baltic; while the ports, such as Hamburg, Rotterdam, etc., which are the natural outlets of the great rivers which run through the provinces of the League, all belong to States not associated with it. The subject has been discussed of giving a flag to the Zollverein, as it has already a coinage; but to possess a marine, both warlike and commercial, in order to compete with the growing squadrons of Russia, and to be on a level with the Hanse Towns and with Holland, is an object much insisted on, but which does not seem to present any immediate prospects of realization.

On the 30th of July, 1838, an arrangement was made (Appendix III., Parl. Doc., p. 95) for introducing a unity of currency, to take effect from the 1st of January, 1841, the unity to consist of the mark, weighing $233\frac{1505}{1000}$ grammes.

The mark to be represented by fourteen dollars; the dollar by 13 florins; and the florin to be \$ of a dollar.

The accounts to be kept either in dollars (Prussian crowns) or florins (guilders). Two n before th been intr and has "Associa

The fn be determ ests it rep trading wi own comm be the poli men of G strument f of produce producers, of consume being more the balance tural interes is the most ductive, will interest, obta naturally be markets. F the sale of th consume, and create a dep duced. Hith strengthen th agricultural. has been unc have operated agricultural in price of food tages in his co the price of for Were foreig turist, there is Two millions of pieces of two dollars each are to be coined before the 1st of January, 1842. The coinage has already been introduced; it bears the effigies of the King of Prussia, and has on the reverse the inscription of Vereins Münze, or "Association's Money."

The future influences and direction of the Zollverein will be determined not alone by the growing strength of the interests it represents, but by the direction which foreign nations trading with Germany may be able or willing to give to their own commercial legislation; for, however enlightened may be the policy, and however sincere the purpose, of the statesmen of Germany to prevent the League becoming an instrument for advancing the minor interests of certain classes of producers, as opposed to the major interests of greater producers, and to the general interests of the whole body of consumers, all experience shows that the minor interest, being more youthful, vigorous, and concentrated, weighs in the balance for much more than its real value. The agricultural interest, for example, which in the States of the union is the most diffused, the most important, and the most productive, will not, in the contest with the rising manufacturing interest, obtain its full share of power, dependent as it must naturally be to a great extent on the demands of foreign markets. For it is to foreign markets alone it can look for the sale of that surplus produce which home demand does not consume, and which, as long as it remains without vent, must create a depression in the price of the whole quantity produced. Hitherto the operation of the Zollverein has been to strengthen the manufacturing interest at the expense of the agricultural. As the foreign demand for agricultural produce has been uncertain and capricious, the low average prices have operated, on the one hand, in forcing capital out of agricultural into manufacturing channels; while the cheap price of food has given to the German artisan great advantages in his competition with the labor of countries in which the price of food is relatively higher.

Were foreign markets accessible to the German agriculturist, there is no doubt the flow of capital towards manu-

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factures would be checked, first by the increased demand for agricultural labor, and, secondly, by the loss of the advantage which the German artisan now possesses in the comparative cheapness of food. For the prices of the countries which would be importers of German corn, for example, would determine the prices of corn in the German markets for the German consumer. In his own market he must give the same price as the foreign buyer who comes into that market.

One of the great difficulties with which sound commercial principles have had to contend, in Germany as clsewhere, is the too general adoption of a phraseology which has grown out of a vicious legislation, and has to a great extent popularized error. High duties on imported articles are justified by the plea that it is necessary to afford protection to the producer, while the substantial fact of the consequent sacrifice of the consumer is wholly kept out of view. For one case in which the loss to the many is put forward, there are a thousand in which the profits to the few are urged as sufficient sanction to perverse legislation.

Dicterici ¹ gives a very curious table (p. 127), showing the operation of the Zollverein during the years 1833 to 1835, on imported articles.

On foreign articles of consumption not coming into competition with German articles the increase in the three years is as fifty-four to forty-six; in foreign articles of consumption competing with German articles the decrease is as twentyfour to twenty-nine; in half-manufactured articles serving for further labor the increase is only from 9,161 to 9,520; while in wholly manufactured articles the decrease is from thirteen to ten. . . .

The facilities created for communication by the improvement of roads, canals, etc., have greatly aided the inland trade of Germany. At the close of the last war there were no

¹ I have had occasion constantly to consult Dieterici's "Statistische Uebersicht der wichtigsten Gegenstände des Verkehrs und Verbrauchs im Pressischen Staate und im Deutschen Zollverbande, von 1831 bis 1886, aus amllichen Quellen dargestellt," Berlin, 1838. The valuable facts he has collected will be found scattered over the whole of this report. roads proper Chause 4,889; greatly Of t returns nitz wil

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roads of the first class either in Pomerania, Posen, or Prussia proper. In 1816 the number of German miles laid down in Chausées was $523\frac{2}{3} = 2,408$ English; in 1828 it was $1,062\frac{7}{5} =$ 4,889; and in 1831, $1,228\frac{1}{5} = 5,610$; and this amount has been greatly increased at the present time.

Of the activity of communication, the following official returns of the quantities of goods which passed through Priegnitz will furnish remarkable evidence: —

Years.	Bohemia.	Barony Boleon Bertin. Bretina.	Berlin.	Cottbue.	Breelau.	Halle.	Warner.	Other places.	Total in Cwt.
			Cwt.	Cust.	Cwt.				
1890	246,934	683,020	446,557	48,822	188,818			158,814	1,716,968
1831	229,412	595,610	519,086	45,574	158,196	46,988		84,088	1,628,964
1832	246,145	720,289	540,246	53,297	147,617	57,218	18,489	94,899	1,878,199
1833	260,564	700,858	477,979	82,962	132,612	50,948	9,694	80,595	1,746,196
1834	307,087	927,764	755,038	26,575	221,623	70,728	11,067	906,112	8,225,996

It must not be forgotten that Great Britain had long enjoyed peculiar advantages in the facilities of communication; and to these facilities much of the activity and success of her manufacturing and commercial industry is attributable. For many years her progress in this respect created almost a monopoly of benefit; but the advantages she enjoyed are now participated in by other nations; and in Germany especially great advances have been made, and continue to be made, in all those improvements which facilitate intercourse.

It is obvious that England cannot long maintain exclusive possession of advantages which civilized man is everywhere successfully struggling to obtain. Railroads are now being introduced between the principal towns in the Zollverein, those between Dresden and Leipzig and between Berlin and Potsdam are completed, many others are begun, and a still greater number are projected; and in these enterprises the undertakers have all the advantages of our experience. The

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number of canals has considerably increased; steamers are giving great development to river navigation; and even in those branches of industry in which our superiority is the most marked, such as the manufacture of machinery, competition is marching after us with rapid strides.

But, independently of the progress of Germany towards a participation in the advantages which for a series of years have been almost exclusively possessed by Great Britain, she has aptitudes and facilities of her own which must greatly aid her in the development of her industry. The frugal and economical habits of the German people enable them to procure a far greater proportion of comforts for the same proportional rate of wages than are generally obtained by the English laborer; added to which a simpler mode of life, a smaller consumption of animal food, and a less costly class of garments, leave out of their smaller carnings a larger amount of savings. Their savings are, for the most part, invested in the purchase of the house in which they dwell, and the garden which they cultivate, - whose cultivation is alike a source of health, enjoyment, and profit, being in most cases a valuable auxiliary to manufacturing industry. Nor ought the general, the almost universal education of the population, be forgotten as immensely contributory to the public prosperity. Elementary instruction is provided for all, and special instruction for those who, in any department of art or industry, exhibit any particular aptitude. I have given in the Appendix (IV., Parl. Doc., pp. 96-97), a short account of the Gewerbe-Schule at Berlin, which under the admirable superintendence of M. Banth (whose services to his country are beyond all estimate, and above all praise), has first gathered from every part of the kingdom the youths best fitted for scientific training; and, after a thorough course of education, has again dispersed them over the country. The gradual diffusion of a knowledge and a taste for art over the whole field of German industry, its happy influence upon all manufactures, exhibited in a thousand evidences of improvement, are obvious to every observer. Manual skill and experience, more and more intimately associated with scientific instruction, have been long preparing

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the most important results; and when the rising generation of intelligent artisans bring their information and taste into the wide region of manufacturing and commercial competition, there can be no doubt of their contributing largely to the general wealth and weal.

The tariff of the Zollverein has no other prohibitions than those of salt and playing-cards, which are monopolies in Prussia; and the principle of the tariff is to admit raw material, and materials serving the ends of agriculture and manufactures, either on very low, or without any duties. Thus, raw cotton, wool, coals, pig-iron, ores, raw hides, and skins, hare and rabbit skins, potashes, common pottery, turpentine, common furniture, chalk, rags, raw refuse of sundry manufactures, trees for planting, manure, earths, fish, grass and hay, garden produce, birds, blacklead, worn clothes, precions metals, wood, turf, fresh fruit, milk, seeds, etc., pay no duties at all.

The objections to the tariff of the Zollverein are twofold; they refer to the amount of duties levied, and to the manner in which they are levied.

The duties are far higher than the Prussian government professed its intention to levy. They were intended to represent the tariffs of Prussia. Now, in the communication of Baron Maltzahn to Mr. Canning, dated Dec. 25, 1825, and laid before Parliament, by order of Her Majesty, in answer to the address of the House of Commons of 1st July, 1839, the words of the Prussian minister are as follows: —

"No one of the duties on imports is sufficiently high to prevent the importation of foreign products, as is proved by their extensive sale in all parts of the monarchy. The duties levied on the products of foreign fabrics or manufactures are generally only ten per cent on their value; on some they amount to fifteen per cent, but there are many which are more moderate."

But these representations are certainly not borne out by facts; for, not only do the duties levied on manufactures vary from twenty to eighty per cent (instead of from ten to fifteen per cent), but there are great varieties of goods which are

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wholly excluded from the Prussian markets in consequence of the elevation of the tariff.

The manner in which the duties are levied is such as to press most severely, with reference to their cost, on coarse. inferior and heavy articles; those least able to bear a high rate of duty are most imposed, the same amount of duty being taken on all species of goods made of the same raw material. - the finest qualities pay the least, and the lowest qualities the highest amount. The ad valorem principle, which is in its nature the fairest, because it distributes taxation by the measure of wealth and expenditure, is wholly lest sight of, and the goods employed by the poor are visited by a much heavier rate of taxation than those by the opulent. The richest muslin and the coarsest calico, the cloth of Sedan and the sorge of Devon pay the same amount per cwt. Hence articles of low quality - such as are used by the many, such as would have the largest sale - are wholly excluded from the markets of the League.

It cannot be disputed that the ad valorem system, as applied to manufactures, has many inconveniences and difficulties. It is not easy always to ascertain even the approximative value; and with the number of custom-houses by which goods are allowed to be imported through a frontier, both of sea and land, so various and extensive as that of the Commercial League, it would be out of the question to seek for a sufficiency of custom-house functionaries, with knowledge and experience competent to the protection of the revenue against fraud. There is no system so simple as that of weight; it is intelligible to everybody; it is, too, a generally popular system, as it affords no latitude for the caprice of the officer, and opens no door to the frauds of the importer. It might probably be associated with some classification of articles, if not too detailed or complicated, into a few great divisions; but the desirableness of a thorough change in the system itself may well be doubted, and such a proposal is not likely to be entertained.

The Americans have strongly objected to the system of levying duties by weight, instead of on value. They have

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The orig been much was put for not only di spondence, exceeding f League itse of the legis to be establ ten per cent "The duty of tured goods less, wheneve to the nation cotton manuf on hardware, £3 6s.; and

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represented that the duty of 5} dollars on their tobacco, being the same as that levied on the tobaccos of the Havana and the Spanish colonies, is, in fact, a discriminating duty on their produce, even to the extent of two hundred to three hundred dollars per cent. They complain that while the duties in the United States on the articles imported from Germany do not upon the whole amount pay more than an average of 54 per cent, the imports from the United States into the Zollverein pay forty-six per cent duty. They represent that Prussia levies on American produce a gross revenue of 776,606 dollars; and while the United States receive only 159,663 dollars from imports of the Zollverein. Of about four millions of dollars exported from the Commuteial League to the United States three millions (one and one-half millions of linens, one million of silk, and half a million merino and other similar articles) pay no duty at all. The remaining million is principally composed of glass, hardware, hosiery, etc., paying from twenty to twenty-five per cent.

The original intention of the Prussian tariff has certainly been much departed from, and the general principle which was put forward has not been carried out in its details. For not only did the Prussian government, in its official correspondence, declare that it was its purpose not to lay duties exceeding from ten to fifteen per cent, but the Commercial League itself professed to make the Prussian tariff the basis of the legislation of the union; and the maximum intended to be established by the Prussian tariff was an ad valorem ten per cent on manufactures; for that tariff provides that "The duty on consumption in foreign fabrics and manufactured goods shall not exceed ten per cent; and it shall be less, whenever a smaller duty can be imposed without injury to the national industry."¹ But the duties levied being, on cotton manufactures, £7 10s. per cwt.; on woollens, £4 10s.; on hardware, £8 5s.; on common linens, 33s.; on fine linens, £3 6s.; and on silks, £16 10s., per cwt., - do, on the whole,

¹ "Allgemeine Zeitung," 2d December, 1834.

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greatly exceed the proposed ten per cent. The system of imposing the duty by weight has the advantage of great simplicity, but it acts in complete hostility to the *ad valorem* principle, as the duty increases, instead of diminishing, with the lowness and coarseness of the article; so that the operation of the tariff is as complete an exclusion of every lowpriced manufacture as if it were absolutely prohibited. Under the influence of this state of things, the duty on cotton goods varies from three and one half to one hundred and twenty per cent.

It has been remarked that this system fails in the very ends proposed, namely, to distribute the amount of protection in proportion to the backwardness of the manufacture. On certain articles the amount of duty is so heavy as completely to exclude foreign competition, where the home production requires no such encouragement as that afforded by the tariff; and on others, where a protecting duty is required by the condition of the home production, the duty on the foreign article is small, and insufficient to check its introduction. But the general result of the tariff is to exclude the foreign articles of low quality and general consumption, and thus to keep the large demand exclusively for the home manufacturers. One baneful effect is, however, that the increased price is levied on those who are least able to pay, and levied on articles of the lowest value, for the piece goods which are consumed by the opulent are precisely those upon which the smallest amount of duty is collected.

It has, indeed, been argued that the levying heavy duties upon manufactures of ordinary quality, so as to exclude them from the markets of the league, is, in fact, to create a demand for superior articles, and so confer a benefit upon the German consumer; but to the immense multitude of consumers, cost is the all-important consideration; and to deny access to lowpriced articles — or by prohibitory duties on foreign fabrics, considerably to elevate the price of the home-made articleis, in all cases, to levy an unfair and unequal contribution on the poor, and in many cases wholly to exclude them from the enjoyment of what would otherwise be accessible to them. In fact, is to manu the le it may the m it is p ablest tion the factures well to

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¹ See Osiand gart, 1837, pp. 8 ² See Osiande

fact, to exclude the ordinary manufactures of foreign countries is to give a special premium to the production of ordinary manufactures at home, is to create for the least advanced, the least intelligent industry, a field of peculiar favor; and it may be well doubted if the monopoly thus established for the manufacture of low articles is beneficial to them. That it is prejudicial to the consumers is obvious, but some of the ablest writers on the Zollverein have expressed their conviction that the uncontrolled power given to the German manufacturer of low articles in the German market is baneful as well to his own as to the public interest.¹

The tendency of opinion in Germany is towards free trade. Almost every author of reputation represents the existing system as an instrument for obtaining changes in favor of commercial liberty. One of the most distinguished writers on the Commercial League, in cautioning the capitalist from embarking his wealth in the protected branches of industry, says, "You are building ships which are not prepared for the storm. You are creating interests which cannot make their way through a crisis; you are erecting edifices upon sand."²

It should be borne in mind, however, that the tariffs of the Zollverein are far more liberal than the old tariffs of Prussia, which were intended wholly to exclude foreign manufactures. But diminished duties have not injured her own manufactures. No man is found to deny that they have made a much greater progress under a less protection than they made when the home market was, by a greater protection, closed against foreign competition.

The Prussian tariff of 1818 was a great improvement on preceding legislation, but it contained many incongruities, which were changed by the tariff of 1822. On many articles the duties varied between the eastern and western provinces. Common cloths, which paid 26 rix-d. 22½ gr., and fine cloths paying 47 rix-d. 10§ gr. in the eastern provinces, paid only 2^2 rix-d. 18§ gr., and 48 rix-d. 7½ gr. in the western; cotton

¹ See Osiander, "Betrachtungen über den Zoll Preussischen Tarif." Stutsur, 1837, pp. 89, 90.

² See Osiander, " Betrachtungen," p. 97.

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> y duties de them dcmand German ners, cost s to lowfabrics, rticleution on irom the em. In

twist paid 2 rix-d. 10 gr. in the eastern, and only half that amount in the western provinces; while dyed twist paid 6 rix-d. 171 gr. in the former, and 5 rix-d. 171 gr. in the latter. White and colored woven cottons and cottons mixed with thread paid the same dutics as fine woollens, namely, 47 rix-d. 10g gr. and 43 rix-d. 71 gr.; and printed and fine cottons, 61 rix-d. 31 gr. in eastern, and 57 rix-d. in western districts; gray linens 2 rix-d. and 1 rix-d. 221 gr., and bleached, 12 rix-d. 63 and 8 rix-d. 81 gr.; silks, 171 rix-d. 31 gr. in the castern, and 167 rix-d. in the western department; half silks, 79 rix-d. 181 gr., and 75 rix-d. 10 gr. Common iron goods paid 6 rix-d. 171 gr. in the cast, and 5 rix-d. 21 gr. in the west; fine iron goods, 24 rix-d. 121 gr. and 20 rix-d. 10 gr.; and cutlery and fine hardware, 79 rix-d. 131 gr., and 75 rix-d. 10 gr. The tariff of 1822 left the distinction only existing on cotton twist; introduced a uniform duty of 30 rix-d, on woollens, and 6 rix-d. on dved twist; 50 rix-d. on cottons generally, but reduced the duty on cottons mixed with thread to 10 rix-d., which it also levied on bleached linens; lowered the duties on silks to 100 rixd., and on half-silks to 50 rix-d.; on common iron goods levied 6 rix-d.; on fine, 10 rix-d.; and on cutlery and hardware, 50 rix-d.

Thus the tariff of 1822 was in every respect an improvement on that of 1818. In 1825 the duties on woollen warps were reduced from 30 rix-d. to 10 rix-d.; and those on carpets of wool and thread from 30 rix-d. to 20 rix-d.; those on fine linens and cottons mixed with flax were raised from 10 rix-d. to 20 rix-d. In 1828 the duties on flannels, moltons, etc., were reduced from 30 rix-d. to 10 rix-d., and on woollen carpets from 30 to 20 rix-d.

Up to this period half the duty was payable in *friedericht d'or*, which was an augmentation of about six per ceut upon the tariff. In 1832 the duty on woollen yarn was lowered from 6 rix-d. to 15 silver gr.; on carpets in general it was lowered from 30 rix-d. to 22 rix-d.; on woollens it was raised from 80 rix-d. to 38 rix-d.; on cotton yarns 2 rix-d. were established as a general duty; 55 rix-d. on cottons and cutlery, in and fla from 10 in 183-20 rix-30 rix-d on linen and on 1840 ha 55 rix-d.

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lery, instead of 50, which 50 continued to be levied on cotton and flax manufacturers; and the duties on silk were raised from 100 rix-d. to 110 rix-d. The tariff of the Zollverein, in 1834, reduced the duty on carpets from 32 rix-d. to 20 rix-d.; and on woollens generally from 33 rix-d. to 30 rix-d.; on cottons from 55 rix-d. to 50 rix-d. The duty on linen thread was raised, in 1837, from 6 rix-d. to 8 rix-d.; and on twisted cotton to the same amount. The tariff of 1840 has lowered the duties on cutlery and hardware from 55 rix-d. to 50 rix-d.

The changes introduced by the Congress of 1839 into the tariffs of 1837-39, are not very considerable. The adoption of the unity of 50 kil. as the cwt. of the tariff, operates as an elevation of 29 per cent, in all cases, when it applies to articles, the duty on which is charged by weight, as is the case with the major part of the goods mentioned in the tariff. The system of tarification has been simplified throughout by the cutting off all fractions of lbs. The most important change is the reduction of the sugar, rice, and hardware dutics.... The standard of the florin is altered from 24 gold standard to 241 gold standard; so that, under the new tariff, the rix dollar is now represented by 13 fl., instead of 13, as in the former tariff. Thus, the general rate of import duty (when there is no special exception) was, in 1837-39, onchalf Prussian dollar, or 15 silver gr., represented by 50 kreutzers; but at present the general import duty of one-half Prussian dollar is represented by 521 krs.

Attached to the custom-house tariff will be found the various regulations ander which the transit dutics are levicd in the States of the Prussian Union.

The legislature of Prussia has generally made the transit of goods through her provinces a source of revenue; and it has not been wholly unproductive, as a large portion of Poland and southern Russia import and export through the Prussian ports in the Baltic. The difficultics which Russian legislation has always thrown in the way of transit may, perhaps, have had some influence on the councils of Prussia; in fact, the heavy transit-duty imposed on goods imported through

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the ports of the Baltic could hardly be maintained were the Prussian transit-system a wise and liberal one. The Southern States of the union have, for the most part, endeavored to secure through their territories a cheap transit for commodities intended for other countries. The general principles of the transit law are, that, —

1. All articles admitted without duty shall transit without duty through the Zollverein.

2. All articles upon which the export and import duties, separate or together, do not amount to $\frac{1}{2}$ dol. or $52\frac{1}{2}$ kr. per cwt., are to pay the amount of the said duties.

3. All articles upon which the export and import duties exceed $\frac{1}{2}$ dol., or 52 $\frac{1}{2}$ kr. per cwt., shall pay on transit $\frac{1}{2}$ dol. per cwt.

But there are many exceptions. The exceptional transit duties levied by the tariffs of the Zollverein are: On cotton and other goods, coming or going through Baltic ports, 4 dol. (12s.) per cwt.; through other roads, 2 dol. (6s.) per cwt.; on cotton twist and dyed woollen yarn, 2 dol.; on copper, coffee, etc., 1 dol. per cwt.; on raw sugar, 20s. gr. (2s.).

But goods going from the Oder mouth on the left bank of the Oder, westward, towards the Rhine, and through the frontier between Neu-Benin, in Silesia, to Thorn, in Bavaria; or, entering the right bank of the Rhine again, to traverse the Rhine for export, cottons, woollens, and many other articles, 1 dol. (3s.) per cwt.

Goods conveyed by the left bank, or on the Rhine, or on the Moselle, and over the southern frontier between Hamburg and Freilassing, or over the northern frontier between the Rhine and the Elbe, 10 sq. (1s.) per cwt.

Goods conveyed over the southern frontier, or from the Rhine to the Danube, $4\frac{1}{2}$ sq. (5 $\frac{1}{2}d$.) per cwt.

The details will be found in the Appendix (III. Parl. Doc. p. 95) attached to the Tariff.

The transit system of the Zollverein is somewhat complicated, and inconsistent with the general and simple character of the legislation. The tables in the Appendix (V. Parl. Doc. pp. 99-112) will exhibit the amount of goods passing through the va duty, o carryin vious w conveya should through principle geograph give adv situated.

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compliaracter rl. Doc. hrough the various provinces of the League. One general transit duty, of low amount, would certainly be very favorable to the carrying trade of the union; nor are the reasons quite obvious why, in the recognition of a principle of equality, the conveyance of goods through certain States of the union should be loaded with much heavier fiscal charges than through others. It would seem more accordant with sound principles to encourage transit through the districts which geographically present the greatest facilities, rather than to give advantages, by lower duties, to districts less conveniently situated.

Perhaps the wisest course, in the common interest of the Zollverein, would be to completely disassociate all fiscal considerations from the question of transit, and to levy no other duty than is necessary for paying the expenses of collection and control. The prohibitory tariffs of Russia, Poland, and Austria, certainly require no new charge or impediment to be added by a heavy transit duty to the cost of the articles imported through the States of the League. And, even with the high rate of duty levied (or perhaps rather on account of the high rate of duty levied), the pecuniary interest to preserve the present system is small, — far too small to counterbalance the disadvantages and detriments which the system creates.

Another obvious inconvenience and loss accrues to the Zollverein from the motives which the lower transit dues of France, Holland, and Belgium create for transporting goods through the ports of those countries instead of the ports of Germany; added to which, a habit of forwarding articles by a particular line creates new interests and motives, which make it difficult to revert to a former state of things. When business has been forced out of its natural channel into a novel course it does not promptly resume its old direction, and the ground lost is often not again to be won.

The lowest transit duty levied in the Zollverein, with the exception of the road from Mayence to the southern frontier, is $4\frac{1}{2}$ silver gr. ($5\frac{1}{2}d$.) per cwt.; but on the main roads of Austria transit is free from charge, while in France the charge is less than half the amount of the *minimum* Prussian duty.

At the same time, the advantages which the railroads of Belgium offer, and the free navigation of the principal rivers of Germany, as established by the Vienna Congress, would all seem to co-operate in showing how much it is for the interest of the League to facilitate *transit* by every possible means.¹ The attention which has been of late years so successfully given in Germany to the improvement of the roads, and all other means of communication, cannot receive a greater recompense than by encouragement given to the transit trade by a low rate of duty levied. The profits deposited by the transport of merchandise, are, from their diffusion, apt to escape attention; but perhaps there are none which give a greater activity to agricultural industry, nor which are more intimately connected with the public prosperity and the 3eneral progress of improvement and civilization.

There is considerable difficulty in estimating the amount of the imports from Great Britain into the States of the Zollverein, as they penetrate through so many channels, - not only through German ports, but from the ports of Holland and Belgium and the Hanse Towns. From Hamburg and the Elbe especially a large part of the wants of the Verein are supplied; there are also large importations through Rotterdam and the Rhine, as well as through Bremen and the Weser. But, by a comparison of the returns of our imports from and exports to the various circumjacent countries, which have been prepared with his accustomed accuracy and diligence by Mr. Young (Appendix VI. to IX. Parl. Doc. pp. 113-139), with the very detailed statements given me by the Prussian government, all of which documents will be found in the Appendix (XI. to XVII., Parl. Doc. pp. 143-226), an approximate estimate of the general amount, and of the special details of our commercial intercourse will be obtained.

Though the strong and irresistible tendency of an organization like that of the Commercial League is to blend the separate interests of its component parts into the common

¹ Osiander, pp. 115-117.

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and paramount interests of the whole, and to give to the Union, as a body, an influence sufficiently powerful to predominate over the local and partial influences of the various elements of which that Union is composed, still much time and much judicious legislation will be required, in order that the Union may fairly represent the various interests which are comprehended in its action. Happily the greater interests are and must long continue intimately connected with the foreign trade of Germany, - for though the manufacturing tendencies of a portion of the States of the Union, associated as such tendencies are with a restless activity, - a spirit of association, a unity of purpose, a combined action, which give them more than their fair and full importance in the struggle for what is called "protective legislation," yet it cannot be denied that there is in Germany such a general diffusion of intelligence as will check the sinister interests in their demand for prohibitory duties on foreign manufacture. And at the present moment the agricultural interests, taking in the whole of the confederated States, represent a vastly greater amount of capital and labor than the manufacturing. The agricultural interest exists everywhere and in many extensive provinces of the Union without any counterbalancing manufacturing interest, while the manufacturing interest is to a great extent of modern growth, and confined to a limited portion of the field of production. And even that manufacturing interest can only safely rest upon a system of moderate dutics; for as soon as it is able to supply the markets of Germany, it must, for its surplus produce be thrown into competition with the manufacturers of other lands, and can only compete successfully by *cheap* production, to which a protective and prohibitory system is in its very nature opposed; for its object and its essence are to promise and to secure high prices to the home manufacturer. And if the interest of Prussia for example be considered, - Prussia, whose populalation comprises two thirds of the whole population of the. Commercial Union, — it is certain that not only arc her true interests hostile to any system which prohibits the introduction of foreign manufactures, her capital engaged in manufac-

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tures being inconsiderable; but the general conviction of the heads of departments in Prussia is opposed to a protecting legislation.

The financial necessities of Prussia have frequently been put forward as the reason for the high rate of duties established by the tariff of the Zollverein;¹ but it is clear that many of the rates are far too high to be productive; some of them are wholly prohibitory; and the revenue would certainly be benefited by a considerable reduction. The Zollverein, however, has never been regarded by the contracting States with a view solely to the financial question; its social and political consequences would reconcile many of its members even to considerable pecuniary sacrifices. . . .

LE ZOLLVEREIN.

(Résumé Statistique.)

FROM LEGOYT'S LA FRANCE ET L'ÉTRANGER,² VOL. I. PP. 250-5.

LE ZOLLVEREIN (des deux mots allemands Zoll, douane, et Verein, association) est le nom donné à l'association douanière qui existe aujourd'hui entre tous les membres de la Confédération germanique, moins l'Autriche, les trois villes Anséatiques (Brême, Hambourg, et Lübeck), le Mecklembourg, les duchés de Holstein et du Lauenbourg, et la principanté de Lichtenstein. La Prusse y figure même pour ses provinces placées en dehors de la Confédération.

Le principe de cette association se trouve dans l'article 19 du traité qui a fondé la Confédération germanique et qui est ainsi conçu : "Ses membres se réservent, à la première réunion de leurs plénipotentiaires à Francfort, de délibérer sur un projet

> ¹ Osiander. ² Paris: Veuve Berger-Levrault et fils, 1865.

de doi elle tr toriale presqu ses bar venir d soit de les mar anes à tenant De là, c grevant la cons

La Pr reste de Hesse-C ment de devaient d'abord a de ses en vit succes Hesse-Dan Anhalt-Be pour la to certain no Bavière et dans leque ence politi de leurs ef importance La Saxe si et entraîna Ernestine d hésitations, Nassau, le janvier 183 le Brunswie de Schaumb

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n. 9 du de douanes et de navigation pour toute l'Allemagne." Mais elle trouvait surtout sa raison d'être dans l'organisation territoriale et politique de l'Allemagne, composée de quarante États presque tous enclavés les uns dans les autres, ayant chacun ses barrières fiscales et son tarif. On a comté que, pour parvenir de la frontière au centre du pays, soit du nord au sud, soit de l'ouest à l'est, sur un espace de 370 à 445 kilomètres, les marchandises n'avaient pas moins de seize lignes de douancs à traverser, non compris les lignes intérieures appartenant à l'État, aux communes et même aux particuliers! De là, des frais et des pertes de temps énormes, qui, en les grevant outre mesure, arrêtaient à la fois la production et la consommation.

La Prusse, dont les provinces orientales étaient séparées du reste de la monarchie par le Hanovre, le Brunswick, et la Hesse-Cassel, et qui souffrait le plus, peut-être, de ce morcellement de son territoire, prit l'initiative des négociations qui devaient conduire au Zollverein actuel. Ses ouvertures furent d'abord accueillics par le Schwarzbourg-Sondershausen, l'une de ses enclaves; puis, de 1819 à 1828, l'association naissante vit successivement venir à elle les principautés ou duchés de Hesse-Darmstadt, Schwarzbourg-Rudolstadt, Saxe-Weimar, Anhalt-Bernbourg, Anhalt-Dessau, et Anhalt-Coethen, soit pour la totalité, soit pour une partie de leur territoire. Un certain nombre d'États du second ordre, ayant à leur tête la Bavière et le Würtemberg, tentèrent d'enrayer ce mouvement dans lequel ils voyaient un agrandissement indirect de l'influence politique de la Prusse; mais, convaincus de l'inutilité de leurs efforts pour constituer une ligne douanière de quelque importance, ils se réunirent au Zollverein, le 23 mars 1833. La Saxe suivit leur exemple, le 30 mars de la même année, et entraîna à sa suite les États de la Thuringe, la branche Ernestine de Saxe, Schwarzbourg et Reuss. Après de longues hésitations, Bade se déclara pour le Zollverein le 12 mai 1835; Nassau, le 10 décembre 1835; Francfort-sur-le-Mein, le 25 janvier 1836; la principauté de Lippe-Detmold, le 18 octobre; le Brunswick, le 19 octobre; la Hesse-Électorale et le comté de Schaumbourg, le 13 novembre ; le comté de Waldeck, le 11

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décembre 1841; le duché de Luxembourg, le 8 février 1842; enfin, le 1^{er} janvier 1854, les derniers États restés fidèles à l'association du *Steuerverein*, c'est-à-dire le Hanovre et le duché d'Oldenbourg.

D'après le recensement de décembre 1861, la population de chaque État associé s'élevait aux nombres ci-après : ---

Prusse		Würtemberg . 1,720,708	Oldenbourg	238,562
Luxembourg	197,781	Bade 1,365,782	Nassau .	. 454.326
Bavière	4,695,424		Francfort	
Saxe royale .	2,225,244	Hesse-Darm-		
Thuringe .	1,069,821	stadt 874,231		
Hanovre	1,908,631	Brunswick . 257,624	Total .	. 84,670,277

Ces 34.6 millions d'habitants occupent une superficie de 502,260 kilomètres carrés.

Le Zollverein n'est pas resté commercialement isolé. Dès sa formation, il s'est efforcé d'agrandir ses débouchés par des traités avec les principaux États de l'ancien et du nouveau monde.

Ces traités de commerce se sont succédé dans l'ordre ciaprès: avec la Hollande, les 21 janvier 1839 et 31 décembre 1851; avec la Porte, le 19/22 octobre 1840; avec l'Angleterre, les 2 mars 1841 et 11 novembre 1857; avec la Belgique, les 1^{er} septembre 1844, 2 janvier 1851, et 18 février 1852; avec la Sardaigne, les 23 juin 1845, 20 mai 1851, et 28 octobre 1859; avec l'Autriche, le 19 février 1853 (d'abord avec la Prusse seulement, puis avec le Zollverein, et plus tard, avec les duchés de Parme et de Modène); avec le Mexique, le 30 juillet 1855; avec Brême, le 26 janvier 1856; avec la Sicile, le 10 août 1856; avec le Danemark, le 14 mars 1857; avec l'Autriche et la principauté de Lichtenstein (convention monétaire), le 24 janvier 1857; avec la Perse, le 25 juin 1857; avec la confédération Argentine, le 19 septembre 1857.

L'influence de ces traités sur le commerce du Zollverein est clairement indiquée par le tableau suivant, qui en fait connaître, de 1834 à 1860, la valeur moyenne annuelle absolue et par tête d'habitant. Pour la période 1834–1846, cette valeur a été calculée par M. O. Hübner (*Jahrbuch* pour 1860 et 1861¹) d'après francs.

Périodes

1834-1838 1839-1843 1844-1846 1850-1852 1853 . 1855 . 1855 . 1856 . 1857 . 1858 .

D'aprè eu trois période seconde e sième, co en est le sensible, n'a pas e isée. — Lo diquent la entre ces assez long les égaler o la preuve d tion. Par voies ferré la réductio son territoi

¹ On sait q publications o l'association.

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LE ZOLLVEREIN.

1861¹), d'après des prix invariables; pour les autres années, d'après les prix réels. Les sommes sont en millions de francs.

Périodes et années.	Importations.	Expertations.	Truck	Importations et exportations réunies.	Population noyenne en milikons.	Valour par this.
1834-1838	477.0	591.0 662.6	219.0 207.4	1,068.0 1.339.9	24.6 26.7	48.4
1839-1843 1844-1846	677.2 813.4	655.1	260.6	1,468.5	20.1	50.2
1850-1852	704.6	670.5	814.6	1.875.1	30.2	45.0
1853	764.6	942.7	895.6	1.707.8	32.5	52.0
1854	1,009.1	1,252.9	457.5	2,262.0	32.6	69.2
1855	1,184.2	1,157.2	626.2	2,841.4	32.7	71.6
1856	1,312.9	1,195.5	550.9	2,508.4	38.0	76.0
1857	1,827.5	1,324.1	541.5	2,051.6	33.2	79.9
1858	1,205.6	1,315.5	419.2	2,521.1	88.5	75.2

D'après ce tableau, l'histoire commerciale du Zollverein a eu trois phases très-distinctes. La première comprend la période 1834-1846; c'est peut-être la plus brillante. La seconde embrasse les années de crise 1847 à 1852. La troisième, commencée en 1853, se continue en ce moment; 1857 en est le point culminant. Vient ensuite une réaction assez sensible, qui, quoique perdant chaque jour de son intensité, n'a pas encore fait place à une recrudescence bien caractérisée. - Les deux colonnes, importations et exportations, indiquent la corrélation intime qui existe toujours et partout entre ces deux éléments du commerce. Inférieures pendant assez longtemps aux premières, les secondes ne tardent pas à les égaler et même à les dépasser dans certaines années. C'est la preuve du rapide développement manufacturier de l'association. Par suite de l'extension graduelle de son réseau de voies ferrées, de l'amélioration de ses voies navigables et de la réduction des droits de transit (aujourd'hui supprimés), son territoire est, en outre, emprunté par une valeur (calculée)

¹ On sait que les droits de douane du Zollverein sont établis au polds. Les publications officielles ne font donc pas connaître la valeur du commerce de l'association.

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sans cesse croissante de marchandises. Ne perdons pas de vue toutefois que la valeur, surtout la valeur actuelle, ne saurait donner, particulièrement dans ces dernières années où les prix ont été l'objet d'une hausse si soudaine et si rapide, la mesure exacte du mouvement des échanges et du transit du Zollverein. L'indication des quantités serait un document plus précis; mais elle exigerait des développements qui ne sauraient trouver place ici.

	h	POBTATIO	KS.	Ea	PORTATIO	NS.
DÉSIGNATION DES ARTICLES.	1834.	1844.	1857.	1834.	1844.	1857
	88.9	61.5	78.4	44.2	46.5	100.
Toiles de fil	34.1	8.6	16.9	88.1	57.0	55
Soleries pures	12.4	14.6	33.0	27.4	40.1	85.
Soleries mélangées	2.6	8.2	7.1	7.9	13.5	18.
Lainages	4.9	18.1	22.5	67.1	96.0	158.
Fourrures et pelleteries	0.2	0.1	0.4	0.4	0.7	1.
Habits d'enfants	0.1	0.3	0.2	0.7	1.5	1.1
Objets en fer	2.2	5.2	10.9	12.7	13.9	18.0
Objets en cuivre et laiton	0.7	2.2	8.0	3.4	8.0	6.
Objets en plomb	0.04	0.04	0.03	-	-	0.4
Objets en zinc	_	_	0.1	0.04	0.1	6.0
Objets en étain	0.1	0.1	0.1	0.1	0.1	0.4
Quincaillerie	1.9	8.7	1.4	18.4	45.4	52.0
Objets en pierre, marbre, et						
autres minéraux	0.4	0.4	0.08	0.8	1.1	0.3
Vaisseile et porcelaine	1.5	1.5	0.1	8.7	7.5	20.2
Verre et verrerie	2.6	5.6	7.1	6.0	3.7	18.0
Objets en bois	1.1	2.6	4.5	7.9	9.4	22.9
Objets en cuir	0.7	1.5	8.0	8.7	1.9	7.1
Brosserie et boissellerie	0.1	_	0.04	0.04	0.1	0.2
Objets en paille, en écorce, etc.	0.4	0.7	1.9	0.04	0.1	0.3
Papiers, jeux de cartes, papier						
de tenture, cartons	0.4	0.4	1.1	4.5	1.5	7.5
Produits chimiques	1.9	2.6	6.0	3.4	4.9	16.9
Poudre à tirer	_	-	_	0.1	0.1	0.4
Savons	0.1	0.2	0.1	0.1	0.04	0.2
Bougies et chandelles	0.1	0.1	0.1	0.1	0.1	1.9
Farines et produits farineux	0.1	0.1	4.9	1.5	1.1	13.5
Sucre raffiné	0.3	0.2	0.1	1.1	1.9	7.1
Eau-de-vie	0.8	30.4	2.2	1.1	1.9	\$5.2
Tabac	1.5	13.1	9.0	5.2	56	18.7
Livres	4.9	7.1	8.6	4.5	6.0	16.9
Instruments	0.4	0.4	1.1	1.5	6.7	5.7
Valeur totale	164.9	184.5	228.9	315.2	365.4	698.9

Le tableau précédent fait connaître la valeur des produits fabriqués que le Zollverein a importés et exportés en 1834, 1844, et produits riqués da sairement il fournit monvemen ne se son exportatio disons plu de l'indust

La signa tion entre à l'examen particulier merciales a ments frande francs).

Années 1847 1848 1849 1850 1851 1852

Les import palement sur bestiaux, houi ries et los lain élevé.

Les exporta contraire, pou comme les soit les cotonnades les outils et in dans le Zollver assez considéra

LE ZOLLVEREIN.

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100.9 55 5 85.1 18.0

158.6 1.9 1.9

18.0 6.7 0.4 6.0 0.4 52.5

> 0.3 20.2 18.0 22.9 7.1 0.2 0.3

> > 7.5 16.9 0.4 0.2 1.9

13.5 7.1 \$5.2 18.7

16.9 5.7

698.9

duits

1834,

1844, et 1857. Il n'a d'autre but que d'indiquer ceux de ces produits qui sont le plus habituellement consommés ou fabriqués dans les États de l'Union, les quantités ayant dû nécessairement s'élever avec le chiffre de la population. Cependant il fournit ce renseignement important et indépendant du mouvement de la population, que, tandis que les importations ne se sont accrues, de 1834 à 1857, que de 36 p. 100, les exportations ont plus que doublé. C'est, comme nous le disons plus haut, le signe certain des progrès remarquables de l'industrie manufacturière dans l'association.

La signature récente d'un traité de commerce et de navigation entre la France et la Prusse, traité en ce moment soumis à l'examen des autres États de l'association, donne un intérêt particulier au tableau ci-après, relatif à nos relations commerciales avec le Zollverein. Il a été dressé d'après les documents français, et indique les valeurs actuelles (en millions de francs). Il se rapporte au commerce spécial.

Anne	ice,		Importa- tions en France.	Exporta- tions de France.	Années.	Importa- tions en France.	Exporta- tions de France.
847			52.7	46.2	1853	69.9	49.0
848			23.0	29.6	1854	75.7	54.6
849			32.3	88.0	1855	108.1	65.5
350			36.2	44.7	1856	110.3	89.7
851			38.1	44.1	1857	120.7	117.7
852			48.8	42.8	1858	106 8	147.7

Les importations du Zollverein en France portent principalement sur des matières premières de l'industrie (laines, bestiaux, houille, coke, bois, peaux brutes, poils). Les soieries et les lainages y figurent cependant pour un chiffre assez élevé.

Les exportations de la France pour le Zollverein ont, au contraire, pour objets principaux des produits fabriqués, comme les soieries, les lainages, les vêtements et lingeries, les cotonnades imprimées, les peaux ouvrées, les fils de laine, les outils et instruments, etc. La France expédie en outre dans le Zollverein, quand la récolte est bonne, des quantités assez considérables de vins ordinaires.

S'il fallait juger, d'après le mouvement de la navigation dans les ports prussiens, de l'importance relative du commerce du Zollverein avec les divers États européens, c'est avec l'Angleterre qu'il entretiendrait le mouvement d'affaires le plus considérable. Viendraient ensuite, par ordre décroissant de trafic, les trois royaumes scandinaves, la Hollande, les portes anséatiques, la France, la Russie, etc. Mais il ne faut pas perdre de vue qu'en ce qui concerne la France, la plus grande partie de son commerce avec le Zollverein se fait par la voie de terre.

Les recettes des douanes du Zollverein ont oscillé ainsi qu'il suit de 1834 à 1859 (nombres en millions de francs).

Années.	Importa- tion.	Exporta- tion.	Transit.	Années.	Importa- tion.	Exporta- tion.	Transi
834	52.1	1.5	1.9	1847	100.9	3.0	1.5
835	59.6	1.9	1.9	1848	85.5	1.5	1.1
836	65.6	1.9	1.9	1849	88.9	1.5	1.9
837	63.7	1.5	2.2	1850	86.2	1.1	1.9
838	72.4	1.9	1.9	1851	87.0	1.1	1.5
839	73.9	1.9	2.6	1852	91.1	1.1	1.5
840	76.9	1.9	2.6	1853	82.5	1.1	1.9
841	80.2	1.5	2.2	1854	86.2	0.7	1.5
842	85.5	1.5	2.2	1855	97.5	0.7	2.2
843	92.6	1.5	2.2	1856	98.6	0.7	1.5
844	96.0	1.9	2.6	1857	99.0	0.7	1.5
845	101.6	1.5	1.5	1858	106.1	0.7	1.5
846	99.5	1.9	1.1	1859	88.1	0.7	1.5

Les faibles oscillations du produit des douanes depuis 1844 constituent le trait saillant de ce tableau. Toutefois, cet état à peu près stationnaire des recettes ne saurait être interprété, en présence des documents qui précèdent, comme le signe d'un mouvement d'affaires peu progressif. Il ne faut pas perdre de vuc, d'ailleurs, que les plus grand nombre des matières premières ont été, en 1851 et depuis, ou complètement affranchics ou considérablement dégrevés. Les droits de transit ont également été l'objet d'importantes réductions jusqu'au moment de leur suppression en 1861....

En 1858 et 1859, les recettes à l'importation (seulement), ramenées à 100,000, se sont réparties ainsi qu'il suit entre les États qui précèdent (Francfort-sur-le-Mein non compris):- Prusse Bavière Hanovre Saxe Würtemb Bade Thuringe Hesse (Gr Hesse (Ék Oldenbour Nassau Brunswick Luxembou

Totau

Voici o les divers francs):-

Prusse Bavière Hanovre Saxe Würtemberg Bale États de Thur Hesse (Flecton Oldenbourg Nassau Francfort-sur-I Brunswick Luxembourg

Totaux .

La colonn qui précède indiquant les Ainsi, par e: recettes tota

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LE ZOLLVEREIN.

													1858.	1859.
Prusse													50,920	54,021
Bavière			÷			÷							13,188	13,022
Hanovre				÷	÷	÷	÷				÷		10.062	10,321
	•					:							5,194	5,980
Saxe	•	•	•			Ţ		÷	÷				4,843	4,769
Bade	•	•			:			÷			Ţ	11	3,808	4,759
Thuringe	•	•	1										2,975	2,941
Hesse (Grand-d	'no	٠ ۱ď			÷				÷	÷			2,460	2,431
Hesse (Electora	le)		•		:								2,058	1,972
Oldenbourg .	•								÷	÷			1,268	1.810
Nassau		:	•			÷			Ţ		÷	1	1,242	1,228
Brunswick .	•	•	•	•	•	•	•				•	1	718	704
Luxembourg .	:	•	•	•	Ţ		Ţ	Ţ	Ţ	÷	Ţ		549	542
raremoon's .	•	•	•	·	•	•	•	•	•	•	·	·	010	014
Totaux .													100,000	100,000

Voici quelle a été la répartition de la recette nette entre les divers États, de 1857 à 1859 (valeurs en millions de francs):--

	1857.	1858.	1859.	Pour 100.
Prusse	45,330,221	49,468,492	39,776,546	50.77
Bavière	11.635.260	12,689,373	10.055.831	12.84
lanovre	9,156,903	9,704,025	7,969,578	10.18
Saxe	5,282,801	5,762,655	4,677,101	5.97
Würtemberg.	4,273,155	4,667,726	3,679,368	4.70
Bade	3,359,430	3.070.278	2,902,875	3.71
États de Thuringe	2.657.085	2,898,435	2.300.415	2.94
Hesse (Grand-duché) .	2,147,583	2,370,881	1.877.872	2.40
Hesse (Electorale)	1,815,843	1,983,858	1,522,751	1.94
Oldenbourg	1,154,006	1,223,058	1,011,798	1.29
Nassau	1.096.125	1,197,142	948,247	1.21
Francfort-sur-le-Mein	717,188	781,402	667,983	0.85
Brunswick	633,926	691,882	548,051	0.70
Luxembourg	484,833	529,695	418,218	0.50
Totaux	89,744,869	97,938,902	78,356,634	100.00

La colonne des rapports centésimaux des deux tableaux qui précèdent, appelle tout particulièrement l'attention en indiquant les États qui gagnent ou perdent à l'association. Ainsi, par exemple, la Prusse, qui encaisse 58.82 p. 100 des recettes totales, ne figure que pour 50.77 dans la répartition,

vigation u comis, c'est 'affaires décroisfollande, ais il ne cance, la cerein se

illé ainsi incs).

orta- on.	Tranit.
3.0 1.5 1.1 1.1 1.1 1.1 0.7 0.7 0.7	$1.5 \\ 1.1 \\ 1.9 \\ 1.9 \\ 1.5 $
0.7 0.7 0.7 0.7	1.5

epuis 1844 is, cet état Interprété, e le signe faut pas e des maplètement droits de réductions

> ulement), t entre les pris) :—

tandis que, pour la Bavière, ces rapports sont respectivement de 5.15 à la recette et de 12.84 à la répartition. En résumé, les États gagnants sont les suivants: Bavière, Hanovre, Würtemberg, les deux Hesses, la Thuringe, Oldenbourg, et Nassau. La Prusse, le Luxembourg, la Saxe, Bade, Brunswick, et Francfort-sur-le-Mein composent la série des perdants. Les parts du Zollverein sont ceux de la Prusse, du duché d'Oldenbourg et du Hanovre. Les documents qui suivent indiquent le mouvement de la navigation de ces ports de 1856 à 1859 (grand et petit cabotage non compris).

TOUTO TRODOLINO	PORTS	PRUSSIENS
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			Bâtin	IENTS.	TONN	AUX.1		LEST. ³	TONN	AUX.
AN	n k	18 .	Entrés.	Sortis.	Entrés.	Sortis.	Entrés.	Sortis,	Entrés.	Sortis.
1859			9,116	9,197	1.471,522	1,414,602	2,668	1,743	452,846	319.45
1858			8,922	9,032	1,401,560	1,469,582	2,599	1,939	433,785	401,61
1857			8 633	8,441	1,584,622	1,564,384	8,052	1,229	561,130	254,43
1856	•		7,582	7,634	1,337,746	1,874,416	1,994	2,111	381,850	380,31

Dans le duché d'Oldenbourg, la navigation a été en 1859: à l'entrée, de 933 navires chargés, jaugeant 78,484 lasts et de 11 sur lest, jaugeant 879 lasts; à la sortie, de 311 navires chargés, jaugeant 38,295 lasts et de 502 sur lest avec 37,821 lasts.

		TURIS HAT	OVRIENS.		
		NAVIRES	CHARGÉS,	NAVIRES	SUB LEST.
		Nombre.	Lasts.	Nombre.	Lasts
1859	{ Entrée · · · { Sortie · ·	1,141 1,092	86,850 · 29,270	782 899	21,664 32,964
1050	(Entrée	3,016	112,931	593	21,858

PORTS HANOVRIENS

Les avantages purement matériels du Zollverein pour les États intéressées peuvent se résumer ainsi qu'il suit: 1º re-

1,194

¹ Le tonneau de mer prussien = 968^k.80.

86,459

² Compris dans les totaux précédents.

duction d de la sup ciés; 2º plication des recett sommation sion de tr disposé à bouché con gratuit ou de commu istaient au eux; 6º ra quelles la lions d'hab premières f autrefois fr duire plus marchande.

L'institut ants pour le 40 lignes de compliqués, ministration: face d'un pay relativement consommateu strict nécessa publique dan un grand pay tion, mais enc Le Zollver

et ses résulta heure du p compliqué de s

100,281

2,470

¹ D'aprés le de en ce moment, de ² On sait que

1858

Sortie

LE ZOLLVEREIN.

duction des frais de perception et d'administration, par suite de la suppression des rayons de douanes entre les États associés: 2º rapide développement industriel, par suite de l'apulication d'un tarif modéré; 3º élevation du chiffre primitif des recettes de douane, par suite de l'accroissement de consommation résultant de l'application de ce tarif; 4º conclusion de traités de commerce avantageux avec l'étranger, plus disposé à faire des concessions à un État qui lui offre un débouché considérable qu'à des pays sans importance; 5° usage gratuit on à des conditions tres modérées des grandes voies de communication, terrestres, fluviales, ou maritimes, qui n'existaient auparavant qu'au profit d'un ou de quelques-uns d'entre eux: 6º rapide essor de certaines industries indigènes, auxquelles la libre ouverture d'un marché intérieur de 33 millions d'habitants,¹ ainsi que l'usage en franchise de matières premières fournies par l'un ou l'autre des États associés et autrefois frappées de droits de douane, permettent de produire plus économiquement; 7° création d'une forte marine marchande.

L'institution du Zollverein a eu des avantages correspondants pour le commerce étranger. Au lieu d'avoir à traverser 40 lignes douanières, défendues par des droits plus ou moins compliqués, plus on moins élevés, et appliqués par des administrations plus ou moins tracassières, il s'est trouvé en face d'un pays unique, recevant ses produits à des conditions relativement modérées. Au lieu d'avoir à traiter avec des consommateurs peu aisés, restreignant leurs dépenses au plus striet nécessaire, il a profité du développement de la richesse publique dans le Zollverein devenu, après quelques années, un grand pays, non-seulement par le territoire et la population, mais encore par le bien-être croissant de sa population.

Le Zollverein n'est cependant pas, dans son organisation et ses résultats actuels, la formule la plus complète, la plus heuree du principe de l'association commerciale. Le mode compliqué de ses délibérations;² la difficulté, pour ses membres,

nent imé, Vürssau. k, et Les Idenquent 1859

Sortis. 319.458 401,614 254,432 380,310 1 1859: asts et

navires 37,821

AUX.

LEST. Laste 21,664 32,964 21,858 100,281

> our les : 1º re-

¹ D'aprés le dénombrement de 1861 dont les résultats officiels nous arrivent en ce moment, de 34,705,694 habitants.

² On sait que toutes les délibérations du Zollverein, pour être valables,

d'arriver, sur les questions les plus graves, à une solution farerable aux intérêts souvent très opposés qu'ils représentent: les influences politiques qui s'agitent dans son sein et l'em. pêchent de discerner toujours clairement la voie à suivre pour tirer de l'union les résultats économiques les plus con. sidérables, telles sont les justes critiques dont il a sourent On peut encore lui reprocher de maintenir. été l'objet. malgré l'exemple de l'Angleterre et de la France, des droits qui, pour certains produits fabriqués, dépassent très-sensible ment, par le fait de la diminution considérable, depuis la formation du Zollverein, du prix des produits grevés, cette moyenne de 10 p. 100 de la valeur, destinée, d'après le programme de l'association à son début, à devenir la base de son tarif. Cette protection exagérée est une double faute, d'abord parce que les consommateurs de l'association, moins aisés que ceux des deux pays que nous venons de citer, sont moins en état de payer des prix élevés; puis, parce que le Zollverein, par les perfectionnements introduits dans ses procédés de fabrication et le bas prix de la main-d'œuvre, est aujourd'hui tout à fait en mesure de lutter efficacement contre la concurrence étrangère. 1862.

doivent être prises à l'unanimité. Ainsi, dans ces délibérations, la Pruse ne pèse pas d'un plus grand poids que Francfort-sur-le-Mein avec ses 80,000 habitants!...

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clung to attacked lower cla was neces tion, and possible i Let the c shall be d people's fe with imm supplies n result of . cording to gained by their tenar the corn ruined, mi the workin will ensue ture to say In 1801 a quarter.

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IX.

THE CORN LAWS, 1801-1849.

FROM LEVI'S HISTORY OF BRITISH COMMERCE,1 2D ED.

PART III. - CHAP. 7.

THE corn laws had long been a bone of contention in England. Maintained for the interest of a class who clung to them as their anchor of safety, they had always been attacked as an obstacle to the well-being of the middle and lower classes. In the opinion of their advocates, protection was necessary in order to keep certain poor lands in cultivation, and to encourage the cultivation of as much land as possible in order to provide for the wants of the country. Let the cultivation of such lands cease, they said, and we shall be dependent on foreigners for a large portion of the people's food. Such dependence, moreover, may be fraught with immense danger, inasmuch as, in the event of war, the supplies may be stopped or our ports may be blockaded, the result of which may be famine, disease, or civil war. According to the defenders of protection it was the advantage gained by the corn laws that enabled landed proprietors and their tenants to encourage manufactures and trade. Abolish the corn laws and half the country shopkeepers will be ruined, mills and factories will be stopped, large numbers of the working-classes will be thrown out of work, disturbances will ensue, capital will be withdrawn, and no one dare venture to say what may be the fatal consequences.

In 1801 the price of wheat reached the high limit of 155s. a quarter, and we may well imagine what sufferings that price entailed among the people, at a time especially when

¹ London: John Murray, 1880.

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trade and manufacture were so much paralyzed by the Continental war. Happily, for two or three years afterwards, a succession of good harvests changed the condition of things, and in March, 1804, the price of wheat fell to 49s. 6d. per imperial quarter. But what was anxiously desired by the people was regarded a great disaster by the agricultural in-They complained that with the high cost of produeterest. tion, in consequence of high wages, high rate of interest. and the heavy cost of implements of husbandry, they could Meetings were held not afford to sell at such prices. throughout the country to consider the case of the farmers. Mr. Western brought the state of agriculture before the House of Commons, and a committee was appointed on the subject. The farmers contended that at a time when all foreign supplies were shut out from our markets, and when we were more than ever depending on home production, it was the bounden duty of the legislature to pass laws which would encourage the production of grain at home, so that the nation might be as much as possible independent as regards the first necessaries of life. Unfortunately all the measures hitherto taken for the protection of the farmers resulted only in the aggravation of the sufferings of the people. It was easy by means of prohibitions and bounties to raise the price of corn and to give an artificial stimulus to agricultural prosperity, but the people were not able to buy bread at famine prices, especially at a time when taxes were The report of the committee of the House of so heavy. Commons, presented the same session in 1804, was to the effect that the price of corn from 1791 to the harvest of 1803 had been very irregular, but that upon an average it had increased in a great degree in consequence of the years of scarcity, and had in general yielded a fair profit to the grouter. It appeared to the committee, moreover, that high jadies had the effect of stimulating agricultural industry in oringing into cultivation large tracts of waste lands, and that this fact combined with the abundance of the two last productive seasons, and other causes, occasioned such a depression in the value of grain as would tend to the discour-

agemen Parlia the leg soon a passed, wheat a under 6 above th the pric however agricult same ye in quali too chear deed, wa Britain, of the pe But such one class acting of was song disappoin

At the same stat the ports, suddenly f a cry of d mons was affecting t engaged in prohibiting under 80s, serious mi restrictive and in the in bold def

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THE CORN LAWS.

agement of agriculture, unless maintained by the support of Parliament. Nor was there much difficulty in persuading the legislature to give heed to such recommendations. Very soon after the presentation of the report a corn law was passed,1 which imposed a duty of 24s. 3d. per quarter on wheat so long as the price of the home market should be under 63s.; of 2s. 6d. so long as the price should be at or above that rate, and under 66s.; and of 6d. a quarter when the price should be above that rate. It does not appear, however, that the fear entertained by the farmers and the agricultural interest had been very substantial, for in the same year the harvest was deficient in quantity and inferior in quality, and all apprehensions that bread might become too cheap were entirely out of the question. A proposal, indeed, was made to encourage the growth of corn in Great Britain, and yet to diminish the price thereof for the benefit of the people by exempting farmers from all direct taxes. But such a plan would have only transferred the burden from one class to another. The time had not yet arrived for acting on the "laissez-faire" principle. Artificial aid was sought for on all sides, and that always ended in disappointment.

At the conclusion of the French war, in 1815, precisely the same state of matters arose as in 1804. By the opening of the ports, wheat which hitherto averaged £5 10s. a quarter suddenly fell to £3 5s., and immediately the farmers raised a cry of distress. Again a committee of the House of Commons was appointed to inquire into the state of the law affecting the corn trade, and once more the legislature was engaged in framing a corn law,² which resulted in an act prohibiting the importation of wheat when the price was under 80s., and rendering it free when above 80s. Yet serious misgivings existed as to the ultimate effect of the restrictive legislation respecting corn in the minds of many, and in the very House of Lords, which traditionally stood in bold defence of a protective policy, protests were lodged,

> ¹ 44 Geo. III. c. 109. ² 55 Geo. III. c. 28. 14

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which indicated the existence of a more enlightened opinion on the real bearings of the whole question. Lord Grenville and his compeers protested against this new corn law, because they were adverse in principle to all new restraints in commerce, deeming it most advantageous to public prosper. ity to leave uncontrolled the free current of national industry. In their opinion "the great practical rule of leaving all commerce unfettered applied more peculiarly, and on still stronger grounds of justice as well as of policy, to the corn trade than to any other. Irresistible, indeed, must be that necessity which could, in their judgment, authorize the legislature to tamper with the sustenance of the people, and to impede the free purchase and sale of that article on which depends the existence of so large a portion of the community. They thought that expectations of ultimate benefit from any corn law were founded on a delusive theory. They could not persuade themselves that such a law would ever contribute to produce plenty, cheapness. or steadiness of price. So long as it operated at all, its effects must be the opposite of these. Monopoly is the parent of scarcity, dearness, and uncertainty. To cut off any of the sources of supply can only tend to lessen its abundance. To close against ourselves the cheapest market for any commodity must enhance the price at which we purchase it. And to confine the consumer of corn to the produce of his own country is to refuse ourselves the benefit of that provision which Providence itself has made for equalizing to man the variations of climate and of seasons. But whatever might be the future consequences of that law at some distant and uncertain period, they were convinced that these hopes must be purchased at the expense of a great and present evil. To compel the consumer to purchase corn dearer at home than it might be imported from abroad was the immediate practical effect of the law just passed. In this way alone could it operate. Its present protection, its promised extension of agriculture must result (if at all) from the profits which it created by keeping up the price of corn to an artifical level. These future benefits were the consequences expected, though they con-

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For | of the distress of Lord perience bad tra corn law laws," s jury upor was proc ranged in flow in n occupied. ruinous f of a system your supp ness of pr the more : are subjec in the con country to existed a p called fore were immo times and entertainin showed wh to agricult said, "to as cal econom interests o

fidently believed erroneously expected, from giving a bounty to the grower of corn by a tax levied on its consumers." Such were the reasons urged against the corn law of 1815, and certainly they do honor to those who recorded them in the journal of the House. But many a year was to pass ere the protests of the few did become the deliberate conviction of the entire community.

For twelve years nothing further occurred on the subject of the corn laws except the emission of repeated cries of distress by the agricultural classes, especially in the House of Lords. The country was indeed learning by bitter experience how direct is the relation between dear bread and bad trade, and the time arrived when the working of the corn law was to be laid before the legislature. "The corn laws," said Mr. Whitmore, "have inflicted the greatest injury upon the general trade of the world that ever perhaps was produced by injudicious legislation. They have deranged its course, stagnated its current, and caused it to flow in new and far less beneficial channels than it formerly occupied." To the corn laws he attributed the great and ruinous fluctuation of prices, which is the inevitable result of a system of restriction. "The more the basis from whence your supplies are drawn is widened, the greater the steadiness of prices; the more it is narrowed the more constant and the more fatal is their effect on the fluctuations to which you are subject. In the early times, when there was a difficulty in the conveyance of bulky commodities from one part of the country to another, arising from want of roads, when there existed a prejudice as well as a legal penalty against what was called forestalling and regrating, the fluctuations in prices were immense. And the same holds good as regards other times and other countries." Lord Lauderdale himself, while entertaining considerable fear of foreign competition, clearly showed what are the solid and what are the fictitious ways to agricultural prosperity. "I will take upon myself," he said, "to assert that if there is any one proposition in political economy which may be affirmed, it is this, that the interests of landlords properly understood are absolutely

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identified with the general interests of the country. Land. lords have no interest in high prices; high prices raise rents nominally and in appearance; and now and then some tem. porary advantage may be obtained from them, for which landlords will always pay afterwards with more than com. pound interest; but rents can only be raised largely, permanently, and beneficially to landlords by one of two causes. both of which are equally conducive to the prosperity of all other classes; first, by improvements in agriculture, which leave a larger surplus produce after the expenses of cultivation are defrayed; and secondly, by improved and extended markets. Now all improvements of agriculture which increase the surplus produce of the country are obviously a direct addition to the public wealth. And how are markets improved and extended? By new communication, - roads. railways, canals, - but principally by the continual rise and increase of large towns within our own empire, rendered rich and prosperous by thriving manufactures, and by all the improvements in skill and machinery connected with such establishments. The best job for the landlord is the prosperity of trade in all its branches, as the best job for trade is a prosperous state of agriculture. There is nothing to make the inhabitant of the town and the cultivator of the soil jealous of each other; quite the contrary, for the more each produces, the more he will have to exchange for the other; and this is the foundation of the great internal trade which is worth one hundred times more than all the foreign commerce of the country put together."

Yet notwithstanding the enunciation of these truths the farmers clung tenaciously to protection; and it was not without a great struggle that they allowed the corn laws to be relaxed to a small extent. In the session of 1827 resolutions were passed in the House of Commons to the effect that corn should be allowed to be imported free of duty, in order to be warehoused, and that it should be admissible for home consumption at a shilling per quarter duty when the price of wheat should be 70s., and at two shillings more for every shilling that the price fell below 70s. per quarter. These quence the Ho of imp price of should should bases a sors, di

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These resolutions, however, made no progress in consequence of the change of government. The following session the House of Commons passed other resolutions to the effect of imposing a sliding scale from 23s. per quarter when the price of wheat should be 64s., and 16s. 8d. when the price should be 69s., to one shilling per quarter when the price should be at and above 73s. per quarter. And upon these bases a new corn law was passed,¹ which, like its predecessors, did not long remain in force.

It was ten years after the passing of this first sliding scale, or on March 15, 1838, that Mr. Villiers, seconded by Sir William Molesworth, first commenced his attack on the policy of the corn laws in the House of Commons, though with little effect. In those days political economists were simply allowed to speak and complain. Their opinions were received as mere speculative theories, their recommendations were deemed as far beyond the reach of practical statesmanship. There was only one minister present when Mr. Villiers' motion was made, and as might have been expeeted, it was lost by an overwhelming majority. But about that time a lecture was advertised to be delivered at Bolton, the birthplace of Arkwright and Crompton, on the corn laws, by a person quite a stranger to the town. It was a new subject for a lecture, and as the public mind was directed to the question, the lecture drew a fair number of hearers. The lecturer, however, found only when it was too. late that it was not easy to deal with economic questions before a mixed audience, and he completely broke down. The audience, not prepared for the disappointment, became impatient and vociferous, and a riot was impending, when a youth, a medical student, rushed to the platform, and on the spur of the moment addressed the people on the subject in a vigorous and manly manner. The people were delighted at this turn, and Mr. Paulton won for himself enthusiastic admiration. On the news of such an event travelling to the neighboring towns, the volunteer lecturer was overwhelmed

¹ 9 Geo. IV. c. 88.

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with invitations to redeliver his address, and everywhere he captivated the audience with his eloquent attacks on monopoly and monopolists.

As the interest in the question of the corn laws grew and extended, it became evident that a special and more popular agency was wanted for the purpose, and thus in October of 1888 eight¹ men first united themselves with a view to establish an Anti-Corn Law Association. The list of the provisional committee was afterwards increased to thirty-seven. conspicuous among them being John Bright, George Wilson. and Richard Cobden. And the object of the association was declared to be to for.n a fund in order to diffuse information by lectures or pamphlets on the bearing of the corn laws, to defray the expense of petitioning, and above all to create an organization to bring numbers together in such force and with such energy of purpose as to secure the great object. namely, the complete freedom of trade and the destruction not only of the corn monopoly, but of all the other monopolies bolstered up by this monster grievance. Small was the support at first obtained by this new association. Very few then appreciated its great moral importance. "For the first two or three years of our agitation," said Mr. Cobden, "it was a very hopeless matter, and there was no eclat nor applause. . . . We sat in a small room, and we had a dingy red curtain drawn across the room that we might not be chilled by the paucity of our numbers. Two or three were all that were here (Newall's Buildings) on one occasion, and I recollect saying to my friend Prentice, 'What a lucky thing it is the monopolists cannot draw aside that curtain and see how many of us there are, for if they could they would not be It was not long, however, ere the much frightened."" small association began to manifest its power and influence, and when, aided by the powerful support of some at least of the leading journals, its voice resounded through the length

¹ The original founders of the League were John Benjamin Smith, Archibald Prentice, Richard Cobden, Thomas Bazley, William Rawson, W. R. Callender, Henry and Edmund Ashworth. (See "Cobden and the League," by Henry Ashworth, Esq.) and br ceeded movem purpose to appe agitato

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and breadth of the land. Meetings and conferences then succeeded each other. From the manufacturing districts the movement spread to the metropolis, and with a clearly defined purpose in view, and with the highest economic authorities to appeal to in support of their principles, the Anti-Corn Law agitators made everywhere a profound and lasting impression.

On March 12, 1889, Mr Villiers again brought the subject of the corn laws before the House of Commons, now, however, backed by a strong party both inside and outside the House. His motion was, "That this House resolve itself into a committee of the whole House, to take into consideration the act 9 George IV., regulating the importation of foreign grain." Mr. Villiers showed that the corn laws were not beneficial to the agricultural interest, and that neither the agricultural laborer nor the farmer reaped from them any benefit. He asserted that the community at large suffered a loss through the corn laws, equal to a poll tax of 8s. a head, or a tax of $\pounds 2$ on each family in the kingdom, and he demonstrated that commerce and shipping were greatly injured by them. Mr. Villiers' motion was seconded by Sir George Strickland, and on his side spoke Mr. Poulett Thomson, Sir William Molesworth, Mr. Grote, Mr. Clay, Lord Howick, Sir Henry Parnell, Mr. Ward, Lord John Russell, Mr. Hume, Mr. Fielden, and Mr. O'Connell; while against him were Sir James Graham, Sir Robert Peel, and a host of Conservatives. The discussion was animated and well sustained, and after five whole nights' debate the votes were taken and the motion was lost by 195 to 342. In the House of Lords too a discussion was commenced on the subject. On March 14 the Earl of Fitzwilliam moved, "That the act 9 George IV. c. 60, entitled 'An Act to amend the law relating to the importation of corn,' has failed to secure that steadiness in the price of grain which is essential to the best interests of the country;" but the motion was lost by 24 against 224. A day after Lord Brougham moved, "That this House do immediately resolve itself into a committee of the whole House, to take into consideration the importation of foreign corn." But the motion met a similar

fate, only 7 having voted for it, and 61 against it. Slow is the progress of any measure in the House of Commons when any substantial reform is contemplated, but slower still is its advance in the House of Lords. Coming less in contact with the mass of the people, comparatively strangers to their feelings and wants, conservative by interest and hereditary policy, the peers of the realm are necessarily the last to ad. mit the need of change, and the last to make concessions to the altered exigencies of the times. Nevertheless, there have never been wanting enlightened members in the Upper House who sought the maintenance and preservation of their order from that same law of progress on which all the institutions of the realm depend, and who, far from regarding their interests as antagonistic to those of other classes of society, had the wisdom to discern that we are all subject to the same laws, influenced by the same circumstances, and alike bound to obey those laws of nature which, more than any human contrivance, determine the progress and prosperity of States.

The result of Mr. Villiers' motion in the House of Commons was not likely to discourage the Anti-Corn Law Association. On the contrary, it imparted to it a new life and a fresh impulse. Determined to persevere till the end, the agitators saw in the strength of their opponents only an additional cause for more energetic labors. A meeting was accordingly organized in London, and the same voice which first gave strength and vivacity to the Manchester gathering was now heard exclaiming, "We are the representatives of three millions of people, - a far greater number of constituents than the House ever could boast of. We well know that no great principle was ever indebted to Parliament for success; the victory must be gained out of doors. The great towns of Britain have extended the right hand of fellowship to each other, and their alliance will be a Hanseatic league against The Anti-Corn Law the feudal corn-law plunderers." League was never a political organization. For years its members went on lecturing, distributing tracts, and acting as a peripatetic university in instructing the people on the evil of commercial monopoly. Never did they allow themselva did furth of ma it be ing t title Law abolit foster-— the trouble

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selves to be tempted to other political topics. The League did not even wish to interfere with the system of taxation further than extinguishing at once and forever the principle of maintaining taxes for the benefit of a particular class. "If it be asked," said Mr. Cobden, "why it is that we, professing to be free-traders in everything, should restrict the title of our association to that of the 'National Anti-Corn Law League,' I will explain the reason. We advocate the abolition of the corn law because we believe that to be the foster-parent of all other monopolies; and if we destroy that, —the parent, the monster monopoly, — it will save us the trouble of destroying all the rest."

PART IV. - CHAP. 1.

The day arrived when the government of the country had to be confided to the great Conservative party in the House. For some time past the administration of Lord Melbourne had shown unmistakable signs of inherent weakness, and its opponents, counting among them such men as Sir Robert Peel, Lord Stanley, Mr. Gladstone, and Mr. Disraeli, were decidedly gaining strength and influence. The Conservative party has been charged with thwarting and opposing the liberal tendencies of the nation, and they certainly resisted the passing of the Reform Bill, the repeal of the Test and Corporation Acts, and the Emancipation of Roman Catholies. Yet a memorable Conservative administration is before us, which inaugurated an era of great prosperity, and one which, under the presiding genius of Sir Robert Peel, has ever since been held in grateful remembrance for the practical wisdom which it displayed, and the bold and vigorous commercial and financial policy it carried into effect. Sir Robert Peel had already gained for himself a high reputation as a statesman.¹ As a member of the Bullion Committee

¹ Sir Robert Peel's first administration was a short one. He formed his Cabinet on December 9, 1834, and forthwith dissolved Parliament. A new Parliament was summoned to meet on February 19, 1835, but an amendment to the address was carried in the House of Commons on February 26, by a ma-

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of 1810, as under-secretary for the colonies during the most trying years of the Continental War, as Secretary for Ireland, in all these capacities he proved himself an ale - dinister and an economist of much practical wisdom; the it was a good omen for the country when, in September, 1841, at a time of much financial anxiety, Sir Robert Peel was once more called to take the helm of the State.

There was something novel and encouraging in the speech from the throne which opened the labors of the new administration. "Her Majesty is anxious that this object, namely, the increase of the public revenue, should be effected in the manner least burdensome to her people; and it has appeared to Her Majesty, after full deliberation, that you may, at this juncture, properly direct your attention to the revision of duties affecting the productions of foreign countries. It will be for you to consider whether some of the duties are not so triffing in amount as to be unproductive to the revenue, while they are vexatious to commerce. You may further examine whether the principle of prohibition in which others of these duties are founded, be not carried to an extent injurious alike to the income of the State and the interest of the people. Her Majesty is desirous that you should consider the laws which regulate the trade in corn. It will be for you to determine whether those laws do not aggravate the natural fluctuation of supply, whether they do not embarrass trade, derange eurrency, and by their operation diminish the comfort and increase the privations of the great body of the community." Surely this was a programme more liberal than could have been expected from a Conservative ministry; but the temper of the people and the exigencies of the time demanded that and a great deal more. Gloom and discontent prevailed extensively throughout the manufacturing districts. The Anti-Corn-Law League had by this time become formidable. The demand was loud and imperious for cheap food, and the total repeal of the corn laws. And on the day fixed for the an-

jority of 309 to 302. Other adverse divisions immediately thereafter took place, and Sir Robert Peel announced his resignation of the ministry on April 8.

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nouncement of the ministerial measure some five hundred deputies from the Anti-Corn-Law Associations in the metropolis and provinces went in procession to the House of Commons, but were refused admittance. Yet with all this the government was not disconcerted, and with imperturbable gravity on February 9, 1842, Sir Robert Peel exposed the policy of the cabinet on the corn laws.

At first Sir Robert Peel did not attach much weight to the influence of these laws. In his speech in the House he said that to his mind the question was not so much what was the price of food as what was the command which the laboring classes of the population had of all that constituted the enjoyments of life. His belief and the belief of his colleagues was that it was important for the country to take care that the main source of the supply of corn should be derived from And he contended that a certain domestie agriculture. amount of protection was absolutely required for that industry. But he made a most important avowal, one which no Protectionist ministry had ever made, that protection should not be retained for the special benefit of any particular class, but only for the advantage of the nation at large, and in so far only as was consistent with the general welfare of all classes of society. Sir Robert Peel then entered on the extent of such protection, and having taken 54s. to 58s. per quarter as the price at which corn should range for a fair remuneration to the agriculturist, he asked, Shall the corn laws be based on a sliding scale, or on a fixed duty? Much might be said for the one and for the other. A sliding scale was introduced in France in 1819, one had been adopted in Belgium, the Netherlands, and other countries, and it seemed to have the advantage of adapting itself to every circumstance. But experience did not confirm the hopes entertained of its working. It did not hinder prices rising higher than was desirable in years of scarcity; and it had the same prejudicial effect as every corn law of causing the cultivation of land to be regulated, not by its inherent capacity, but by the amount of forced stimulus given to it by the Legislature. Besides these radical defects the objections

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urged against the sliding scale were, that the reduction of duty was so rapid as to hold out temptation to fraud; that it operated as an inducement to retain corn, or combine for the purpose of influencing the averages; that the rapid decline of the duty was injurious to the consumer, the producer, the revenue, and the commerce of the country; that it was injurious to the consumer because when corn was at a high price, say between 66s. and 70s. and just when it would be for the public advantage that corn should be liberated for the purpose of consumption, the joint operation of increased price and diminished duty induced the holders to keep it back in the hope of realizing the price of upwards of 70s. and so paying only 1s. duty; that it operated injuriously to the agricultural interest, because it held out a temptation to keep back corn until it could be suddenly entered for consumption at the lowest amount of duty, when agriculture lost the protection which the law intended it should possess; that it was injurious to the revenue because instead of corn being entered for home consumption when it arrived, it was retained until it could be introduced at 1s. the revenue losing the difference between 1s. and the amount of duty which would otherwise have been levied; that it was injurious to commerce because when corn was grown at a distance, in America, for instance, the grower was subject to the disadvantage that before his cargo arrived in this country the sudden entries of wheat at 1s. duty from countries nearer England might have so diminished the price and increased the duty as to cause his speculation to prove not only a fail-These were formidable objections to any ure but ruinous. sliding scale, but between a gradual and a fixed rate of duty there was not a material difference. On the other hand, a fixed duty of 8s. per quarter was too low as a protection in time of abundance, and was in effect a prohibitory duty in time of scarcity. Nor was it possible to maintain more than a nominal duty when prices began to rise. It was indeed difficult to strike the balance of advantage and inconvenience between the sliding scale and the fixed duty. So, on the whole, Sir Robert Peel favored the principle of the sliding

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law accep Robert P. porary and financial which he and impar recognize cal knowle past the fin order. An scale, that is, of making the duty upon corn vary inversely with the price in the home market, taking the average of the market prices from returns collected by excise officers. Having, therefore, decided on charging 20s. duty when the average price of wheat was 50s. and 51s. per quarter, he proposed to make that duty fall by a reduction of 1s. a quarter as the average price rose 1s., with some slight modifications, so that the duty should be only 1s. per quarter when the price of wheat rose to 73s. a quarter and upwards, and a bill so framed he presented to the House of Commons. The House was not prepared at the time for a very liberal measure. Lord John Russell made a motion in favor of a fixed duty, but it was not popular; and notwithstanding a few expressions of dissatisfaction, the Government proposal was well received. Lord John Russell's amendment was lost by 226 to 349, and Sir Robert Peel's bill passed into law.¹ But the country was not satisfied. Meetings continued to be held in the manufacturing districts, and Mr. Villiers, stimulated by the representations and efforts of the Anti-Corn-Law League, again brought forward his motion for the total repeal of the corn laws, which was again lost by the enormous majority of 90 to 393. The battle of the corn laws had by this time become violent both in and out of Parliament, and Mr. Villiers was not likely to be dispirited by the result of this division.

It is not, however, by the vain attempt to render a corn law acceptable that the commercial administration of Sir Robert Peel will be remembered. That was at best a temporary and transitory measure. It is when we consider his financial policy as a whole, and more especially the plan which he devised for improving the state of the finances and imparting new life to commerce and industry, that we recognize the breadth of view, the sound wisdom, and practical knowledge which Sir Robert Peel possessed. For years past the finances of the country had fallen into complete disorder. An annual deficiency of one or two millions had

¹ 5 & 6 Vict. c. 14. [Table omitted.]

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become a chronic evil, and no means of escape presented itself.¹ With a disaffected people and frequent riots in the manufacturing districts, with a paralyzed trade and wages reduced to a very low seale, any idea of imposing new taxes or making those buisting heavier was out of the question. A temporary and casual deficiency might have been met by an issue of exchequer bills; but what would have been the use of resorting to such expedient when there was no ground whatever for expecting any immediate improvement? On the other hand, to have recourse to loans in times of peace in order to balance the revenue and expenditure was equally inadmissible. Sir Robert Peel knew that a timely and moderate reduction of target is favorable rather than injurious to the revenue. He thew that though for the moment such a reduction might show a loss, nevertheless, by the stimulus it affords to increasing consumption, the revenue would soon recover itself, and probably exceed the amount previously produced. Yet, unfortunately, the few precedents he had for such an operation, attempted in times not very prosperous, were not encouraging. In 1825 the revenue from wine amounted to £2,153,000. The duty was then reduced from 9s. $1\frac{1}{4}d$. to 4s. $2\frac{3}{4}d$. per gallon; and what was the result? The year after the revenue was $\pounds 1,400,000$; it afterwards increased to $\pounds 1,700,000$, but it fell again to £1,400,000. The duty on tobaceo had been reduced from 4s. to 3s. per pound. Before the reduction the revenue was £3,378,000, immediately after it fell to £2,600,000; and though it rose somewhat from that point, it did not reach the previous amount. Of course the consumption of articles of luxury, such as wine and tobacco, is not so affected by a reduction of duty as that of tea, sugar, and other nccessaries Moreover, the resources of the country were at that of life. time comparatively undeveloped, to admit of any large increase of consumption. Still, such experience did not warrant the expectation that a reduction of taxes would have the effect of filling the exchequer.

¹ The deficiency in the year ended April 5, 1841, was £1,157,601; in the year ended April 6, 1842, £117,627; and 1848, £2,704,510.

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But the circumstances of trade required instant relief, and the tariff needed a thorough reform and simplification. Two years before, in 1840, on the motion of Mr. Hume, a committee of the House of Commons was appointed to inquire into the duties levied on imports, and to determine how far they were imposed for purposes of revenue; and in their report the committee said: "The tariff of the United Kingdom presents neither congruity nor unity of purpose; no general principles seem to have been applied. The tariff often aims at incompatible ends; the duties are sometimes meant to be both productive of revenue and for protection, objects which are frequently inconsistent with each other. Hence they sometimes operate to the complete exclusion of foreign produce, and in so far no revenue can of course be received; and sometimes when the duty is inordinately high the amount of revenue is in consequence trifling. They do not make the receipt of revenue the main consideration, but allow that primary object of fiscal regulations to be thwarted by the attempt to protect a great variety of particular interests at the expense of revenue, and of the commercial in-While the tariff has been tercourse with other countries. made subordinate to many small producing interests at home by the sacrifice of revenue in order to support their interest. the same principle of interference is largely applied by the various discriminating duties to the produce of our colonies, by which exclusive advantages are given to the colonial interests at the expense of the mother country." Such were the general features of the tariff, the result of years of careless legislation on the subject. The fact was indeed too evident that it was necessary to prune the over-burdened tariff, and to liberate a large variety of articles from the needless trammels of legislation.

But how to accomplish this without a handsome surplus revenue? Fortunately Sir Robert Peel, undeterred by the state of the revenue, determined to do what was necessary for trade. And he acted wisely. Untrammel industry from the bonds of legal restrictions, open the avenue to wealth and prosperity, — that is the right policy. Pur-

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sue this course and there is no fear but the revenue will set itself speedily right. Some slight reductions he made in 1841, but on March 11, 1842, in his famous financial statement, he proposed to reduce considerably all the duties on the raw materials of manufacture, all duties on goods partially or wholly manufactured, as well as the duties on timber, and all export duties, together producing £1,500,000; and to make up this loss, and to provide for the original deficit in the revenue, amounting to £2,570,000, by an income and property tax of 7d. in the pound, which he expected would produce £3,700,000;1 by the equalization of the stamp and spirit duties, which would give £400,000; and by a small tax on the exportation of coals, which would give £200,000,-making in all £4,310,000. It was a very simple plan; vet there was profound wisdom in Sir Robert Peel's budget. The value of the reductions proposed far exceeded the amount of relief in taxation they each and collectively afforded. The removal of the taxes on raw materials was a great boon, inasmuch as they had the effect of putting our manufactures in a disadvantageous position in the markets of the world, and restricting the field for the employment of capital and labor. As was said in the discussion on the budget, suppose 50,000 head of cattle were to be annually imported in consequence of such remissions, such importation would produce but a small effect on the price of meat, but it would create an import trade to the amount of half a million of money, a trade which, in its nature, would tend to produce an export trade in return of an equal amount. Our export trade is measured and limited by our import trade. If an individual merchant cannot afford to send his goods to other countries without obtaining any return, neither can all merchants collectively, and the country as a whole afford to export commodities to foreign countries, if

¹ The amount of duty assessed, in 1843, was £5,608,348. The amount of property assessed was: Schedule A, £95,284,497; Schedule B, £46,760,915; Schedule C, £27,909,798; Schedule D, £71,330,344; Schedule E, £9,718,454. Total, £251,018,003. [Additional note omitted.]

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¹ The surp £3,027,615; 1: ² [Foot-note

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in some shape or other imports are not received from those countries in return. Reduce the duties on imports, and you thereby promote the export of our produce and manufactures. Remove those taxes which burden our manufactures and you promote the importation of those articles which are necessary to the comfort and welfare of the nation. The income tax might be odious, "inquisitorial, intolerable," yet it was at that time the only means by which the necessary reforms in the tariff could be attempted. And the nation, having balanced the evil and the good of the proposal, and having found that the advantages preponderated, cheerfully accepted the government proposal, and gave to the proposal its hearty consent.

The commercial policy thus inaugurated by Sir Robert Peel, being in perfect accord with sound economic principles, could not fail to be successful. From 1841 to 1843, as we have seen, there was a yearly deficit in the budget. In the year ending April 5, 1844, Sir Robert Peel found himself in possession of a handsome surplus of $\pounds 2,600,000$, which was exceeded in the following year, and continued at a high point for four consecutive years.¹ The exports of British produce, which in 1842 had fallen to £47,000,000 increased to £52,000,000 in 1843; to £58,000,000 in 1844; and £60,000,000 in 1845. The shipping entered and cleared increased from 9,000,000 tons in 1842 to 12,000,000 tons in 1845. In every way, financially and commercially, the results fully realized the anticipations formed, and Sir Robert was encouraged to advance still further in the same direction. Nothing important was attempted in the budget of 1843,² but in 1844 the duty on wool was abolished, the duties on currants and coffee were reduced, and a great change was made on the duties on marine insurance. And then, as we have seen in the previous chapter, the differential duties against foreign-grown sugar were relaxed by permitting the importation of sugar, the growth of China, Java, or

¹ The surplus in the year ended April 5, 1844, was £2,085,125; 1845, £3,027,615; 1846, £1,647,324; and in 1847, £2,823,762.

² [Foot-note on " Taxes Reduced or Repealed," omitted.]

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Manilla, or of any other countries which Her Majesty in council shall have declared to be admissible at moderate rates. In 1845 another still more important series of reforms was introduced. The duty on cotton wool, which. however slight and inappreciable on the coarser material. pressed rather heavily on the finer muslin, was abolished. The export duty on coals, which had been found vexatious and injurious was removed. The timber duties were further reduced. The duty on glass was removed from the tariff. and also the duties on four hundred and thirty articles. which produced little or no revenue, including fibrous materials such as silk, hemp, and flax, furniture, woods, cabinetmakers' materials, animal and vegetable oil, ores and minerals, etc. In 1846 the liberal policy was further extended. Hitherto our manufacturers had been benefited by the free access granted to the raw materials. It was right to ask of them to relinquish some, at least, of the protecting duties still in existence. And the duties on linen, woollen, and cotton manufactures were reduced from 20 to 10 per cent. The silk duties then at 30 per cent were also reduced to 15 per cent. A reduction was made on the duties on stained paper, on manufactures of metals, earthenware, on carriages, and on manufactures of leather; and the duties on butter, cheese, and hops were further reduced.¹

But was it right to effect all these reforms without asking for reciprocity on the part of foreign countries? For years past it was known that Her Majesty's government had used every effort to enter into treaties with several States, such as Brazil, Portugal, Spain, and France, with a view to the adoption of mutual concessions. In 1843 and 1844 Mr. Ricardo brought the subject before the House of Commons, and moved for an address to Her Majesty, praying that Her Majesty be pleased to give directions to her servants not to enter into any negotiations with foreign powers

¹ In 1842 there were 1,090 articles and subdivisions of articles charged with distinct rates of import duty in the customs tariff. In 1846 the number was reduced to 424.

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which would make any contemplated alterations of the tariff of the United Kingdom contingent on the alterations of the tariff of other countries; and expressing to Her Majesty the opinion of the House, that the great object of relieving the commercial intercourse between this country and foreign nations from all injurious restrictions would be best promoted by regulating our own customs duties, as might be most suitable to the financial and commercial interests of this country, without reference to the amount of duties which foreign powers might think it expedient for their own interest to levy on British goods. But the government opposed the motion, and Mr. Ricardo was defeated. Mr. Gladstone especially defended the policy of endeavoring to obtain such treaties. He did not wish, he said, "to be trammelled by an abstract proposition, and unless Mr. Ricardo could show that there were no possible circumstances in which a commercial treaty could be aught other than evil, he had no right to call upon the House to affirm his resolution." The government, however, now practically acted on the policy advocated by Mr. Ricardo, and Sir Robert Peel avowed it frankly.

"I have no guarantee," he said,¹ "to give you that other countries will immediately follow our example. I give you that advantage in the argument. Wearied with our long and unavailing efforts to enter into satisfactory commercial treaties with other nations, we have resolved at length to consult our interests, and not to punish other countries for the wrong they do us in continuing their high duties upon the importation of our products and manufactures, by continuing high dutics ourselves, encouraging unlawful trade. We have had no communication with any foreign government upon the subject of these reductions. We cannot promise that France will immediately make a corresponding reduction in her tariff. I cannot promise that Russia will prove her gratitude to us for our reduction of duty on her tallow by any diminution of her duties. You may, therefore, say in

¹ Hansard's Debates, Jan. 27, 1846.

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opposition to the present plan, 'What is this superfluous liberality, that you are going to do away with all these duties, and yet you expect nothing in return ?' I may perhaps be told that many foreign countries since the former relaxation of duties on our part, - and that would be perfectly consistent with the fact, - foreign countries which have been benefited by our relaxations, have not followed our example; nay, have not only not followed our example, but have actually applied to the importation of British goods higher rates of duties than formerly. I quite admit it. I give you all the benefit of that argument. I rely upon that fact as conclusive proof of the policy of the course we are pursuing. It is a fact that other countries have not followed our example, and have levied higher duties in some cases upon our goods. But what has been the result upon the amount of your exports? You have defied the regulations of these countries. Your export trade is greatly increased. Now, why is that so? Partly because of your acting without wishing to avail yourselves of their assistance, partly because of the smuggler, not engaged by you, in so many continental countries, whom the strict regulations and the triple duties which are to prevent the ingress of foreign goods have raised up, and partly perhaps because these very precautions against the ingress of your commodities are a burden, and the taxation increasing the cost of production disqualify the foreigner from competing with you. But your exports, whatever be the tariff of other countries, or however apparent the ingratitude with which they have treated you, your export trade has been constantly increasing. By the remission of your duties upon the raw material, by inciting your skill and industry, by competition with foreign goods you have defied your competitors in foreign markets, and you have been enabled to exclude them. Notwithstanding their hostile tariffs the declared value of British exports has increased above £10,000,000 during the period which has elapsed since the relaxation of duties on your part. I say, therefore, to you that these hostile tariffs, so far from being an objection to continuing your policy, are an argument in its favor. But,

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The A which, with the strength popular exelusiv known th and that den. A: ples proj more and and Her no longe passivene rists had ings were amidst Co ened and espoused pected so when a de pled the prices, the influence. Now thou depend upon it, your example will ultimately prevail. When your example could be quoted in favor of restriction, it was quoted largely. When your example can be quoted in favor of relaxies is conducive to your interest, it may, perhaps, excite at urst in foreign governments, in foreign boards of trade but little interest or feeling; but the sense of the people of the great body of consumers will prevail, and in spite of the desire of government and boards of trade to raise revenue by restrictive duties, reason and common sense will induce relaxation of high duties. That is my firm belief."

PART IV. - CHAP. 4.

The Anti-Corn-Law agitation was one of those movements which being founded on right principles, and in harmony with the interest of the masses, was sure to gather fresh strength h y event affecting the supply of food. It was npt to reverse a policy which aimed almost popular t exclusively to benefit one class of society. It was well known that the League wanted to outset an economic fallacy, and that they wished to relieve the people from a great burden. And as time elapsed and the soundness of the principles propounded by the League at their public meetings was more and more appreciated, their triumph became certain, and Her Majesty's government itself began to see that it was no longer possible to treat the agitation either by a silent passiveness or by expressed contempt. The economic theorists had the mass of the people with them. Their gatherings were becoming more and more enthusiastic. And even amidst Conservative landowners there were not a few enlightened and liberal minds who had already, silently at least, espoused the new ideas. No change certainly could be expected so long as bread was cheap and labor abundant. But when a deficient harvest and a blight in the potato-crop crippled the resources of the people and raised grain to famine prices, the voice of the League acquired greater power and influence. Hitherto they had received hundreds of pounds. Now thousands were sent in to support the agitation.

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quarter of a million was readily contributed. Nor were the contributors Lancashire mill-owners exclusively. Among them were merchants and bankers, men of heart and men of mind, the poor laborer and the peer of the realm. The fervid oratory of Bright, the demonstrative and argumentative reasoning of Cobden, the more popular appeals of Fox, Rawlins, and other platform speakers, filled the newspaper press and were eagerly read. And when Parliament dissolved in August, 1845, even Sir Robert Peel showed some slight symptoms of a conviction that the days of the corn laws were numbered. Every day in truth brought home to his mind a stronger need for action, and as the ravages of the potato disease progressed he saw that all further resistance would be absolutely dangerous.

A cabinet council was held on October 31 of that year to consult as to what was to be done, and at an adjourned meeting on November 5 Sir Robert Peel intimated his intention to issue an order in council remitting the duty on grain in bond to one shilling, and opening the ports for the admission of all species of grain at a smaller rate of duty until a day to be named in the order; to call Parliament together on the 27th inst., in order to ask for an indemnity and a sanction of the order by law; and to submit to Parliament, immediately after the recess, a modification of the existing law, including the admission, at a nominal duty, of Indian corn and of British colonial corn. A serious difference of opinion, however, was found to exist in the cabinet on the question brought before them, - the only ministers supporting such measures being the Earl of Aberdeen, Sir James Graham, and Mr. Sidney Herbert. Nor was it easy to induce the other members to listen to reason. And though, at a subsequent meeting held on November 28, Sir Robert Peel so far secured a majority in his favor, it was evident that the cabinet was too divided to justify him in bringing forward his measures, and he decided upon resigning office.

His resolution to that effect having been communicated to the Queen, Her Majesty summoned Lord John Russell to form a cabinet; and to smooth his path, Sir Robert Peel,

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with characteristic frankness, sent a memorandum to Her Majesty embodying a promise to give him his support. But Lord John Russell failed in his efforts, and the Queen had no alternative but to recall Sir Robert Peel and give him full power to carry out his measures. It was under such circumstances that Parliament was called for January 22, 1846, and on January 27 the government plan was propounded before a crowded House. It was not an immediate repeal of the corn laws that Sir Robert Peel recommended. He proposed a temporary protection for three years till Februrary 1, 1849, imposing a scale during that time ranging from 4s, when the price of wheat should be 50s. per quarter and upward, and 10s. when the price should be under 48s. per quarter, and that after that period all grain should be admitted at the uniform duty of 1s. per quarter. The measure, as might have been expected, was received in a very different manner by the political parties in both Houses of Parliament. There was treason in the Conservative camp, it was said, and keen and bitter was the opposition offered to the chief of the party. For twelve nights speaker after speaker indulged in personal recriminations. They recalled to Sir Robert Peel's memory the speeches he had made in defence of the corn laws. And as to his assertion that he had changed his mind, they denied his right to do so. Mr. Colquhoun "wondered that Sir Robert could say, 'I have changed my opinion, and there is an end of it.' But there was not an end of it. His right honorable friend must not forget the laws by which the words of men of genius, whether orators or poets, are bound up with them. His right honorable friend's words could not thus pass away. They were winged shafts that pierced many minds. They remained after the occasion which produced them passed away. His right honorable friend must remember that the words which he had used adhered to the memory, moulded men's sentiments, guided public opinion. He must recollect that the armor of proof which he had laid aside, and the lance which he had wielded, and with which he had pierced many an encumbered opponent, remained weighty and entire. Greatly

did he wish that his right honorable friend were again on this side to wield them, that he were here to lead their ranks and guide them by his prowess. But if not, they retained at least his arms; these lay at their feet, strewed all around them, an arsenal of power." Petulant remonstrances like these were of course of little avail. Sir Robert Peel and Mr. Cobden were ready to meet every challenge, and to refute every argument with their unanswerable logic of facts. And when the opposition endeavored to throw all the responsibility of a measure of such a character on the prime minister, Mr. Cobden besought them to turn from the will of one individual to those laws economic and divine which seemed to impose the duty of laying wide open the door for the importation of food. "Oh, then divest the future prime minister of this country of that odious task of having to reconcile rival interests; divest the office, if ever you would have a sagacious man in power as prime minister, divest it of the responsibility of having to find food for the people! May you never find a prime minister again to undertake that awful responsibility! That responsibility belongs to the law of nature. As Burke said, 'it belongs to God alone to regulate the supply of the food of nations.' . . . We have set an example to the world in all ages; we have given them the representa-The very rules and regulations of this House tive system. have been taken as the model for every representative assembly throughout the whole civilized world; and having besides given them the example of a free press, and civil and religious freedom, and every institution that belongs to freedom and civilization, we are now about giving a still greater example; we are going to set the example of making industry free, to set the example of giving the whole world every advantage of clime and latitude and situation, relying ourselves on the freedom of our industry. Yes, we are going to teach the world that other lesson. Don't think there is anything selfish in this, or anything at all discordant with Christian principles. I can prove that we advocate nothing but what is agreeable to the highest behests of Christianity. To buy in the cheapest market and sell in the dearest. What is the

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Ireland has often grievously suffered from social and political wrongs, from absentceism and repeal cries, from Protestant and Roman Catholic bigotry, from Orangeism and Ribbonism, from threatening notices and mid-day assassinations, but seldom has her cup of adversity been so brimful as in 1845 and 1846, from the failure of the potato crop. Though comparatively of recent introduction, the first potato root having been imported by Sir Walter Raleigh in 1610, potatoes had for years constituted a large proportion of the food of the people of Ireland. A considerable acreage of land was devoted to that culture, and an acre of potatoes would feed more than double the number of individuals that ean be fed from an acre of wheat. Such cultivation was. moreover, very attractive to small holders of land. It cost little labor. It entailed scarcely any expense, and little or no care was bestowed on it, since the people were quite satisfied with the coarsest and most prolific kind, called impers or horse potatoes. Nor was it the food of the people only in Ireland. Pigs and poultry shared the potatoes with the peasant's family, and often became the inmates of his

¹ 9 and 10 Vict. c. 22, suspended by 10 and 11 Vict. c. 1.

cabin also. One great evil connected with potato culture is that, while the crop is precarious and uncertain, it cannot be stored up. The surplus of one abundant year is quite unfit to use in the next, and owing to its great bulk it cannot even be transported from place to place. Moreover, once used to a description of food so extremely cheap, no retrenchment is possible, and when blight comes and the crop is destroyed the people seem doomed to absolute starvation. This, unfortunately, was the case in 1822 and 1831. In those years public subscriptions were got up, king's letters issued, balls and bazaars held, and public money granted. But in 1845 and 1846 the calamity was greater than any previously experienced.

The potato disease first manifested itself in 1845. The early crop, dug in September and October, which consists of one sixth of the whole, nearly escaped; but the whole of the late crop, the people's crop, dug in December and January, was tainted before arriving at maturity. In that year there was a full average crop of wheat. Oats and barley were abundant, and turnips, carrots, and greens, including hay, were sufficient. Yet on the continent the rye crop failed, and the potato disease appeared in Belgium, Holland, France, and the west of Germany. On the whole the supply of grain was fair during the year 1845, and prices ruled moderately high. In 1846, however, the blight attacked the potatoes with even greater fury and suddenness in the month of July, and it attacked both the early crop and the people's crop at the same time that the wheat crop proved under an average. Barley and oats were also deficient, and the rye crop again failed on the Continent. In the previous year some counties in Ireland escaped the potato disease, but this year the whole country suffered alike. The loss was indeed very great. Probably £13,000,000 was a low estimate, and from 4,000,000 to 5,000,000 quarters of grain at least would be required to replace it. As might be expected the news of such a disaster had a fearful effect throughout the country, and the utter helplessness of many millions of our fellow-subjects became a subject of the greatest anxiety.

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As soon as the potato disease appeared in 1845, government took the step of appointing professors Kane, Lindley, and Playfair to inquire into the nature of the disease, and to suggest means for preserving the stock, but this was of little avail. Urged by necessity, the government even stepped out of its province and sent orders to the United States for the purchase of £100,000 worth of Indian corn, established depots in different parts, and formed relief committees. But this was nothing compared with what became necessary to be done in 1846. Public works were then commenced on a large scale, giving employment to some five hundred thousand persons. The poor law was put in action with unparalleled vigor, so that in July, 1847, as many as three millions of persons were actually receiving separate rations. A loan of £8,000,000 was contracted by the government, expressly to supply such wants, and every step was taken by two successive administrations - Sir Robert Peel's and Lord John Russell's — to alleviate the sufferings of the people. Nor was private benevolence lacking. The Society of Friends, always ready in acts of charity and love, was foremost in the good work. A British Association was formed for the relief of Ireland, including Jones Loyd (Lord Overstone), Thomas Baring, and Baron Rothschild. A Queen's letter was issued. A day of general fast and humiliation was held, and subscriptions were received from almost every quarter of the world. The Queen's letter alone produced £171,533. The British Association collected .3263,000; the Society of Friends, £43,000; and £168,000 more were intrusted to the Dublin Society of Friends. The Sultan of Turkey sent £1,000. The Queen gave £2,000 and £500 more to the British Ladies' clothing fund. Prince Albert gave £500. The National Club collected £17,930. America sent two ships of war, the "Jamestown" and "Macedonian" full of provisions; and the Irish residents in the United States sent upwards of £200,000 to their relatives to allow them to emigrate. But with all this, the people passed through a most eventful catastrophe. One third of the people at least was reduced to destitution. A large number died by fever and

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pestilence. Such as could raise the requisite funds emigrated to America. Crowds of emaciated and famished people flocked by every available means to English ports. The rest were kept alive by employment on public works, by private local charity, by local subscriptions, by contributions from all parts of the world, and by the most extensive system of gratuitous distribution of food which history affords any record of.

The price of wheat and other grain did not rise much at first. Indeed for a lengthened time but faint conception was entertained of any want of foreign grain. The potato failure was comparatively a new thing, and few imagined that it would act powerfully on the consumption of grain. In 1845 the average price of wheat was no more than 50s. 11d. per imperial quarter, it having risen from a minimum of 458. 3d. in March to 58s 10d. in November; while the average price of barley was 31s. 8d. and of oats 22s. 6d. In 1846. also the average price of wheat was 54s. 8d., the price having ruled first 55s. 6d., falling to 46s. 3d. in August, and rising to 60s. 7d. in November, while the average price of barley was 32s. 8d. and of oats 22s. 8d. But in 1847 a sudden great rise took place. The price of wheat rose from an average of 69s. 11d. in January to an average of 92s. 10d. in June; the price of barley was 50s. 2d. in January, 53s. 5d. in February, and 52s. 11d. in May and June; and oats, commencing at 29s. 6d. in January, rose to 34s. 2d. in June. In July, however, a sudden change took place by the concurrent action of large importations and excellent prospects of the approaching harvest. From June to December wheat fell from 92s. 10d. to 52s. 3d.; barley from 52s. 11d. to 30s. 9d.; and oats from 34s. 2d. to 21s. 10d. per imperial The importation of grain had never been so large quarter. as in this year. In former years 1,000,000 or 2,000,000 quarters was the maximum, but in 1846 the imports amounted to 4,752,174 quarters of grain and meal, and in 1847 to as much as 11,912,864 quarters, the greatest increase having taken place from Russia and America. Then, indeed, the nation realized that the corn law could not be

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maintained any longer. Our dependence on foreign grain became very great, and thankful indeed we were that by the wisdom and foresight of our legislators, the last corn law and the navigation law were alike suspended, and our ports were opened to the supply of food from any quarter of the globe.

Another important consequence of the potato disease was an enormous stimulus to emigration. Great is the change in the state of public opinion and law as respects emigration. In olden, yet not very remote times, an absolute prohibition existed against the departure of artisans from this country, and we would have regarded as a dire misfortune the departure of hundreds and thousands of families from our shores in quest of happier homes and more fruitful sources of industry. Now we see whole flects of emigrant ships carrying away many of the ablest and most industrious of our working population, without a murmur of complaint or a feeling of sorrow. And why? because we feel that they only obey the law of nature, which is always foreseeing and beneficent. Even savages are impelled by their economical condition to be always moving in quest of food; and when civilization created new wants, a still greater impulse was given to migrations from place to place. Sometimes religious and political dissensions have been the causes of great emigration. But motion is a law of human society, and endless processions are always moving, now from south to north, and anon from north to south; at one time from west to east, and at another from east to west. As for this country the constant alternation of times of prosperity and distress in commerce and manufactures renders it the more necessary for our working people to have other outlets for their industries than are afforded within these circumscribed islands, and it is fortunate that the colonies are ever open for the employment of any number of laborers. As early as 1826 and 1827 the subject of emigration engaged the attention of the House of Commons, and their recommendation was that the emigrants should be settled upon land granted by the State, and that whatever fund be advanced for their benefit should be subject to repayment. In 1831 a royal commis-

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sion inquired into the subject, and while it did not approve of any direct grant of money for emigration to Canada and other North American colonies, it recommended that as respects New South Wales and Van Diemen's Land the proceeds of public land sold should be devoted as loans of £20 and upwards towards the passage money of families of me. chanics and agricultural laborers, and as bounties of, and towards the conveyance of, young unmarried females. This recommendation was subsequently adopted and carried out by the colonial office, and then a loan for the Australian emigrants was converted into a free gift and increased to \pounds 30, the bounty to single females being also increased to £30. But notwithstanding these encouragements, the emigration from the United Kingdom continued very limited for a long time. For sixteen years, from 1815 to 1830, the average number of emigrants was only 23,000 per annum, most of whom went to the North American colonies and the United States of America. From 1831 to 1840 the average number of emigrants increased to 70,000 per annum, Australia then commencing to attract great attention; and from 1841 to 1846 the average still further increased to 100,000. But in 1847 and subsequent years the stream of emigration flowed in a most rapid manner. Ireland sent forth the greater part of her laboring population, and in the decennium from 1847 to 1856 the number of emigrants actually increased to 280,000 per annum. It was a pitiful sight to see those crowds of worn-out Irish embarking in rags and penniless for a foreign shore. But they went away from a place of sorrow and suffering to a country which seemed to open a boundless field for the exercise of honest industry. Nor was the benefit of emigration limited to the emigrants themselves. The advantage was quite as great to the mother Here they added nothing to national wealth. country. They constituted the mortified part of the social system which needed amputation. There, not only they ccased to trench upon the labor of others, but, after providing food for themselves they became large customers for our produce and manufactures.

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Ere we pass from the repeal of the corn law and its conseouences, reference must be made to an achievement certainly not less important in relation to the economic policy of the country, the repeal of the navigation law. In 1845 these laws were consolidated, and it seemed as if they were to continue for many a year in existence, but the necessity for suspending their operation in 1846 and 1847, and the progress of public opinion in matters of free trade suggested an inquiry into the operation and policy of such laws in 1847. Of that committee Mr. Milner Gibson was chairman, and during the year they published five reports on the subject containing valuable evidence, tending to show the objections to such laws and the injury which they caused, notwithstanding their restricted operation, - a large portion of the trade being no longer protected by them. Evidence was given to the effect that, looking to the geographical position of this country, and to the peculiar energy of her people, the extent of her trade, her great capital, and her success in maritime enterprise, there need be no limit to the prosperity of her shipping were it not for the restrictions and unnecessary charges imposed on it by the Navigation Act, the Registry Act, and several other acts. It was urged that if we could reduce the cost of ships and consequently of freights, we should increase trade to an enormous extent; that the immense traffic which railways occasioned in this country was the strongest proof that cheap conveyance on the sea would be attended with similar results, and that we should not only obtain a much larger quantity of goods than have hitherto come to market, but that we should find new exchangeable commodities which did not then come here; that we should bring the timber of India or Australia at half its present cost; and that we should carry on the fisheries to a much greater extent, and be enabled to increase every branch of industry in this and other countries to a very large extent. Shipowners certainly prognosticated all manner of evil likely to arise from the repeal of the navigation laws. Thev warned the nation that such laws had raised it to the station it held, and that without them it would as rapidly go down

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as it had risen. They were certain that the repeal of such laws would reduce shipping property fully 30 per cent in value, and introduce the cheap navigation of other countries in competition with the costly navigation of this country, and that, despairing of success, the British shipowner must retire from the contest. Really, however, the advocates of the navigation laws had little to say in their favor based on substantial facts. The committee male no report in 1847, but the general impression was that the repeal of such laws would benefit trade, and that the necessity for action had become imminent.

Accordingly, in 1848, as soon as public attention could be given to the subject, Mr. Labouchere, in committee of the whole house, moved a resolution to the effect, "That it is expedient to remove the restrictions which prevent the carriage of goods by sea to and from the United Kingdom and the British possessions abroad, and to amend the laws regulating the coasting trade of the United Kingdom, subject, nevertheless, to such control as may be necessary, and also to amend the laws for the registration of ships and seamen." But a concerted opposition was made to such proposition, and Mr. Herries moved a counter resolution, "That it is essential to the national interest of the country to maintain the fundamental principles of the navigation laws, subject to such modifications as may be best calculated to obviate any proved inconvenience to the commerce of the United Kingdom and its dependencics, and without danger to our national strength." The discussion was long and animated, and the two opposing views were fully enforced and illustrated; but it ended, as might have been expected, in the defeat of Mr. Herries' amendment by a majority of 294 against 177. But the session was lost, and the subject had to be deferred to another year. Again, however, in 1849 Mr. Labouchere proposed the same resolution, only adding that provision should be made giving power to the Queen in council to re-enact these laws, wholly or in part, with regard to any countries as to which the government might think fit that they should be preserved. Power was given to him to bring in a bill, and

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it was read a second time by a majority of 266 to 210. As originally proposed the bill was intended to throw open the coasting trade as well as the foreign trade, but the government of the United States having notified their refusal to reciprocate this concession, and some objection having been raised by the department of customs because of the difficulty of enforcing effectual regulations to guard the revenue from danger, the clauses relating to the coasting trade were withdrawn, and the bill passed into law.¹ But even the restriction of the coasting trade was ultimately relinquished, and both the navigation on the coast of the United Kingdom and the manning of British ships were left entirely free.²

¹ 12 and 18 Vict. c. 29.

² 16 and 17 Vict. c. 107, and 17 and 18 Vict. c. 120.

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X.

THE NEW GOLD.

FROM CAIRNES' ESSAYS IN POLITICAL ECONOMY.1

ESSAY II. - THE COURSE OF DEPRECIATION.

TO one, I think, who has attended to the discussions occasioned by the recent gold discoveries, can have failed to observe, on the part of a large number of those who engage in them, a strange unwillingness to recognize, among the inevitable consequences of those events, a fall in the value of money. I say, a strange unwillingness, because we do not find similar doubts to exist in any corresponding case. With respect to all other commodities, it is not denied that whatever facilitates production promotes cheapness; that less will be given for objects when they can be attained with less trouble and sacrifice. It is not denied, for example, that the steam-engine, the spinning-jenny, and the mule have lowered the value of our manufactures; that railways and steamships have lessened the expense of travelling, or that the superior agricultural resources of foreign countries, made available through free trade, keep down the price of our agricultural products. It is only in the case of the precious metals that it is supposed that a diminution of cost has no tendency to lower value, and that, however rapidly supply may be increased, a given quantity will continue to command the same quantity of other things as before.

Among persons unacquainted with economic science, the prevalence of this opinion is doubtless principally due to those ambiguities of language, and consequent confusion of ideas, with which our monetary phraseology, unfortunately,

¹ London: McMillan and Co., 1873.

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abounds, many of which tend to encourage the notion of some peculiar and constant stability in the value of the precious metals. Thus, the expression "a fixed price of gold" has led some people to imagine that the possibility of a depreciation of this metal is precluded by our mint regulations. The double sense, again, of the phrase, "value of money," has countenanced the same error; for people, perceiving the rate of interest (which is the measure of the value of money, in one sense of the phrase) remaining high, while the supply of gold was rapidly increasing, - perceiving money still scarce according to this criterion, notwithstanding the increase in its production, - have asked whether this did not afford a presumption that its value would be permanently preserved from depreciation, a bank rate of discount at 6, 8, or 10 per cent, as they remarked, affording small indication of money becoming too abundant.

It appears to me, however, that misconceptions respecting the influence of an increased supply of gold upon its value, and upon general prices, are by no means confined to the class who could be misled by such fallacies, but that even among economists (at least among economists in this country) we may observe the same indisposition to believe in an actual and progressive depreciation of this metal. It is not, indeed, denied -at least, I presume it is not denied - by any one pretending to economic knowledge, that the enlarged production of gold now taking place has a tendency to lower its value; but it seems to be very generally supposed that the same cause --the increased gold production - has the effect, through its influer , of calling into operation so many tendending nature that, on the whole, the depreciation

d w a extreme slowness, the results being dispersed ov a period so great as to take from them any practical importance, and that, at all events, up to the present time n sensible effect upon prices proceeding from this cause has become perceptible.

The existence of this opin a among economists is, I apprehend, to be attributed in a compare to the circumstance that so few have taken the pairs to compare the actual prices of

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discussions , can have er of those recognize, ents, a fall ingness, beany corremodities, it on promotes en they can not denied, -jenny, and ctures; that se of travelof foreign p down the the case of minution of at, however ty will congs as before. science, the ally due to onfusion of fortunately,

the present time with those of the period previous to the gold discoveries, but much more to the fact that the character of the new agency and the mode of its operation are not, in general, correctly conceived. I believe the most general opinion with reference to the action of an increased supply of money upon its value is, that it is uniform, takes place, that is to say, in the same degree in relation to all commodities and services, and that therefore prices, so far as they are influenced by an increase of money, must exhibit a uniform advance;¹ and, no such uniformity being observed in the actual movement of prices, the inference has not unnaturally been drawn that such enhancement as has taken place is not due to this cause; that it is not money which has fallen, but commodities which have risen in value.

Now I am quite prepared to admit that an increase of money tends ultimately, where the conditions of production remain in other respects the same, to affect the prices of all commodities and services in an equal degree; but before this result is attained a period of time, longer or shorter according to the amount of the augmentation and the general circumstances of commerce, must elapse. In the present instance the additions which are being made to the monetary systems of the world are upon an enormous scale, and the disturbance effected in the relation of prices is proportionally great. Under such circumstances it is very possible that the inequalities resulting may not find their correction throughout the whole period of progressive depreciation, - a period which, even with our present facilities of production and distribution, may easily extend over some thirty or forty years. During this transitionary term the action of the new gold will not be uniform, but partial. Certain classes of commodities and services will be affected much more powerfully than others. Prices generally will rise, but with unequal steps. Neverthe-

¹ "In relation to the influence of the gold discoveries on the prices of sgricultural produce, it is plain that it could be only the same upon them as upon those of any other class of commodities. If it has caused a rise of 20 per cent in their favor, it must have caused a rise of 20 per cent in everything else." ("Times," City article, August 6, 1852.) And the same assumption, either expressed or implied, runs through most of the reasoning which I have seen on this question.

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less there will be in these apparent irregularities nothing either capricious or abnormal. The movement will be governed throughout its course by economic laws; and it is the purpose of the present inquiry to ascertain the nature of these laws and the mode of their operation.

The process by which an increased production of gold operates in depreciating the value of the metal and raising general prices appears to be twofold: it acts, first, *directly* through the medium of an enlarged money demand, and secondly, *indirectly* through a contraction of supply.¹

When an increased amount of money comes into existence, there is, of course, an increased expenditure on the part of those into whose possession it comes, the immediate effect of which is to raise the prices of all commodities which fall under its influence. It is obvious, however, that the advance in price which thus occurs will be, in its full extent, temporary only; since it is immediately followed by an extension of production to meet the increased demand, and this must again lead to a fall in price. Some writers who have treated this question, observing this effect, have somewhat hastily concluded that under the operation of this principle the level of prices would never permanently be altered, since, as they have urged, each addition to the circulating medium forming the basis of a corresponding increase of demand, gives a corresponding impetus to production; every increase of money thus calls into existence an equivalent augmentation in the quantity of things to be circulated; and the proportion between the two not being ultimately disturbed, prices, it may be presumed, will return to their original level.² The least

¹ According to Mr. Newmarch ("History of Prices," vol. iv., pp. 224–225), the depreciation of money may occur by a process which is neither of these, when money operates upon prices neither through demand nor yet through supply, but "by reason of augmented quantity." I must confess myself wholly unable to conceive the process here indicated.

² [It may be worth while to preserve a specimen of the sort of Political Economy that was talked and written on this subject some fifteen years ago. A leading article in the *Examiner* (December 13, 1856) contains the following: "The additional supply of the precious metals has stimulated the industry of the world, and in fact produced an amount of wealth in representing which they have been themselves, as it were, absorbed. . . . But the produce of

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reflection, however, will show that this doctrine has been suggested by a very superficial view of the phenomena.

For — not to press the obvious reductio ad absurdum to which this argument is liable — how is this extension of production to be carried out? In the last resort it is only possible through a more extended employment of labor. But, when once all the hands in a community are employed, the effect of a further competition for labor can only be to raise wages; and, wages once being generally raised, it is plain (supposing all other things to remain the same) that profits can only be maintained by a corresponding elevation of prices. When, therefore, the influence of the new money has once reached wages, it is evident that there will be no motive to continue production to that point which would bring prices to their former level, and that consequently an elevation of price must, at this stage of the proceeding, be permanently established.

So far as regards articles which fall *directly* under the action of the new money. With respect to those which do not happen to come within the range of the new demand, price is, I conceive, in their case raised by an indirect action of the new money in curtailing supply.

We have seen that the effect of the efforts to extend production in the directions indicated by the new expenditure must be to raise wages; but it is plainly impossible that wages should continue to advance in any of the principal departments of industry without affecting their rates in the rest; whence it will happen that, under the operation of the new monetary influence, some departments of industry will experience a rise of wages before any advance takes place in the prices of the new commodities produced by the laborers whose wages have risen. It is evident that in all departments of industry which may be thus affected — in which prices will not have shared the advance which has affected wages—

the Australian and Californian gold, as well as that of silver which has accompanied it, is likely to go on; and it may be asked if this must not in course of time produce depreciation. We think it certainly is not likely to do so;... on the contrary, it will surely be absorbed by increasing wealth and population as fast as it is produced."] profit must the s raised same An

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profits will fall below the general average; the effect of which must be to discourage production until, by a contraction in the supply of the articles thus furnished, the price shall be raised up to that point which will place the producers on the same footing of advantage as those in other walks of industry.

An increased supply of money thus tends, by one mode of its operation, to raise prices in advance of wages, and thus to stimulate production; by another, to raise wages in advance of prices, and thus to check it; in both, however, to raise wages, and thus ultimately to render necessary, in order to the maintenance of profits, a general and permanent elevation of price.¹

This being the process by which increased supplies of money operate in raising prices, in order to ascertain the laws of their advance, we must attend, first, to the direction of the new expenditure; secondly, to the facilities for extending the supply of different kinds of commodities; and, thirdly, to the facilities for contracting it.

With regard to the first point, — the direction of the new expenditure, — this will naturally be determined by the habits and tastes of the persons into whose possession the new money comes. These persons are the inhabitants of the gold countries, and, after them, those in other countries who can best supply their wants. Speaking broadly, we may say that the persons who will chiefly benefit by the gold discoveries belong to the middle and lower ranks of society; in a large degree to the lowest rank, the class of unskilled laborers. The direction of the new expenditure will consequently be that indicated by the habits and tastes of these classes, and the commodities

¹ It must not be supposed that this is inconsistent with the fundamental doctrine maintained by Ricardo, that "high wages do not make high prices." That doctrine assumes the value of money to be constant. Ricardo was quite aware of the exception to the general principle, and points it out in the following passage :—

"Money, being a variable commodity, the rise of money wages will be frequently occasioned by a fail in the value of money. A rise of wages from this cause will, indeed, be invariably accompanied by a rise in the price of commodliles; but in such cases it will be found that labor and all commodities have not varied in regard to each other, and that the variation has been confined to money." (Ricardo's Works, second edition, p. 31.)

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which will be most affected by it will be those which fall most largely within their consumption.

With respect, secondly, to facilities for extending supply. these will be found to depend principally upon two eircumstances : first, on the extent to which machinery is employed in production; and, secondly, on the degree in which the process of production is independent of natural agencies which require time for accomplishing their ends. The distinction marked by these two conditions, it will be found, corresponds pretty accurately with two other distinctions, -- with the distinction, namely, between raw and manufactured products: and, among raw products, with that between those derived from the animal and those derived from the vegetable kingdom. An article of finished manufacture, in the production of which machinery bears a principal part, and which is independent, or nearly so, of natural processes, may after a short notice be rapidly multiplied to meet any probable extension of demand. An article of raw produce, being in a less degree under the dominion of machinery, and depending more upon natural processes which require time for their accomplishment, cannot be increased with the same facility; and production will consequently, in this case, be comparatively slow in overtaking an extension of demand. But of raw products, those derived from the animal are still less under the dominion of machinery than those derived from the vegetable kingdom, and still more dependent on the slow processes of nature, and, consequently, production must, in their case, be still more tardy in overtaking demand. Supposing, then, the extension of demand to be in all three cases the same, the immediate rise of price will, cæteris paribus, be in all the same; but in the case of articles of finished manufacture, this rise will be quickly corrected by the facilities available for increased production, while in raw vegetable products the correction will take place more slowly, and in raw animal products more slowly still.¹

¹ The following passage occurs in the "History of Prices," vol. vi., p. 170: "The groups of commodities which exhibit the most important instances of a rise of price are the raw materials most extensively used in manufactures, and the production of which does not admit of rapid extension; and, second, the

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But, thirdly, I said that the progress of prices under the influence of the gold supplies would be governed by the facility with which supply can be contracted. Every one who has practical experience of manufacturing operations is aware that, when capital has once been embarked in any branch of production, it cannot at once be removed to a different one the moment the needs of society may require a change; whence it happens that, on any sudden change taking place in the direction of a nation's expenditure, or when from miscalculation production has been extended beyond existing wants, producers frequently choose to continue their business at diminished profits or even at a positive loss, rather than incur still greater damage by suffering their capital to lie idle, or by attempting to transfer it suddenly into some new branch of production. The supply of a commodity is not therefore always, or generally, at once contracted on the demand for it falling off, or on its production becoming less profitable, and, where this is so, it is evident that prices must at times continue depressed below the normal level; the duration of the depression depending on the length of time required to effect a transference of the unproductive capital to some more lucrative investment. Now, the difficulty of accomplishing this will generally be in direct proportion to the amount of

groups of commodities in which there is little, if any, rise of price in 1857, as compared with 1851, are articles of colonial and tropical produce, the supply of which, drawn from a variety of sources, does admit of being considerably and expeditiously enlarged." The fact of the rise of price in raw materials is here admitted, though, in ascribing that rise, as by implication the passage does, to the paucity of the sources of supply, the explanation is, as I conceive, erroncous. The sources, for example, from which tea and sugar are drawn are not more various than, nor indeed so various as, those from which beef and mutton, butter and provisions, timber, tallow, and leather are drawn; yet all these latter articles have very considerably advanced in price. Again, among colonial and tropical produce Mr. Newmarch includes rum and tobacco, and he might also have included cotton; yet these articles, though falling within the class which he says admits of being expeditiously enlarged, and which, therefore, according to his theory, should not have risen in price, have in fact risen in a very marked manner. It appears to me that these phenomena can only be understood by reference to the principle which I have endeavored to explain further on - namely, the efficacy of the currency of different countries in determining local prices.

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fixed capital employed; and the principal form in which fixed capital exists is that of machinery. It is, therefore, in articles in the production of which machinery is extensively employed — that is to say, in the more highly finished manufactures that the contraction of supply will be most difficult; and this, it will be observed, is also the kind of commodities for extending the supply of which the facilities are greatest. While, therefore, manufactured articles can never be very long in advance of the general movement of prices, they may, of all commodities, be the longest in arrear of it.

The operation of this principle will be shown chiefly in that class of articles which feels the effect of the new gold only through its indirect action — that is to say, through its action upon wages. With respect to such article there is no extension of demand, and the price consequently can only be raised through a contraction of supply. It is evident that of all commodities this is the class in which the rise of price must proceed most slowly.

From the foregoing considerations, then, I arrive at the following general conclusions : ---

First. — That the commodities the price of which may be expected first to rise under the influence of the new money are those which fall most extensively within the consumption of the productive classes, but more particularly within the consumption of the laboring and artisan section of these.

Secondly. — That of such commodities, that portion which consists of finished manufactures, though their price may in the first instance be rapidly raised, cannot continue long in advance of the general movement, owing to the facilities available for rapidly extending the supply; whereas, should the production, from over-estimation of the increasing requirements, be once carried to excess, their prices, in consequence of the difficulty of contracting supply, may be kept for some considerable time below the normal level.

Thirdly. — That such raw products as fall within the consumption of the classes indicated, not being susceptible of the same rapid extension as manufactures, may continue for some time in advance of the general movement, and that, among raw prod the a *Fo*

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products, the effects will be more marked in those derived from the animal than in those derived from the vegetable kingdom.

Fourthly. — That the commodities last to feel the effects of the new money, and which may be expected to rise most slowly under its influence, are those articles of finished manufacture which do not happen to fall within the range of the new expenditure; such articles being affected only by its indirect action, and this action being in their case obstructed by impediments to the contraction of supply.

This is one class of laws by which I conceive the ascending movement in prices will be governed; and up to this point I have the satisfaction of finding my conclusions very fully corroborated by the independent investigations of a French economist, M. Levasseur, who, in some articles lately contributed by him to the *Journal des Économistes*, has, by an entirely different line of investigation from that which I have followed, — namely, by generalizing on the statistics of prices in France during the period of 1847 to 1856, — arrived at conclusions in the main points identical with those which I have now advanced.¹

There is, however, another principle to which I venture to call attention, which has not, so far as I know, been noticed by any of the economists who have treated this question, but which, it appears to me, must exercise a powerful influence on the course of the movement. The principle to which I refer is that efficacy which resides in the currency of each country, into which any portion of the new money may be received, for determining the effect of this infusion on the range of local prices.

It is evident that the quantity of metallic money necessary to support any required advance of prices throughout a given range of business will vary with the character of the currency into which it is received; that the quantity required will be greater in proportion as the metallic element of the currency is greater; and, on the other hand, less in proportion as the credit element prevails. If the currency of a country be

¹ See Cairnes, Appendix, p. 360, for a summary of M. Levasseur's conclusions.

purely metallic, a given addition of coin will increase the aggregate medium of exchange in that country only by the same amount; if, on the other hand, the currency consists largely of credit contrivances, each addition to its coin becomes the basis of a new superstructure of credit in the form of banknotes and credits, bills of exchange, checks, etc., and the aggregate circulation is increased, not simply by the amount of the added coin, but by the extent of the new fabric of credit of which this coin is made the foundation. Applying this principle to the different countries of the world, it follows that a given addition to the metallic stock of Great Britain or the United States, in whose monetary systems credit is very efficacious, will cause a greater expansion of the total circulation, and therefore will support a greater advance in general prices, than the same addition to the currency of countries like France, in which credit is less active; and that, again, the effect in countries like France will be greater than in countries like India or China, in which the currencies are almost purely inetallic, and where credit is comparatively little used.

Now, this being so; if we consider further that the countries which receive in the first instance the largest share of the new money — namely, England and the United States are also those in which, from the character of their currencies, a given amount of coin will produce the greatest effect; and, on the other hand, that Asiatic communities, in which, from the weakness of the credit element, the currencies are least expansible, receive but a small portion of their share of the new money direct from the gold countries;¹ being com-

¹ [From statistics recently furnished by the *Economist*, I learn that the faels have not been as I here assumed, at least since 1858 (the date from which fall returns of specie imports have been published by the Board of Trade); and ith probable I was mistaken in my supposition with regard to what had occurred before that time. Since 1858, of £90,000,000 of gold received and retained by India and the East some £49,000,000, more than a half of the whole, appear to have gone there *directly* from Australia, the remainder only having come through Europe. This error as to matter of fact will, no doubt, affect to some extent the conclusion contended for. The causes tending to a divergence of European from Asiatic prices have not been, it seems, as powerful as I had supposed, and, in point of fact, this feature in the movement has been less marked than I sketched it, but for this, other causes besides that noticed here have been responsible (1872). See Introductory Chapter, p. 12] pelle prine its t with recog of ea which of the

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pelled to wait for the remainder till it has flowed through the principal markets of Europe and America, affecting prices in its transit, — if, I say, we consider these facts in connection with the principle to which I have adverted, I think we must recognize in that principle — in the influence of the currency of each country on the range of its local prices — an agency which must modify in no small degree the general character of the movement which is now in progress.

In speaking of the influence of the currency of a country on the range of its local prices, I should explain that I use the words "local prices" in a somewhat restricted sense; namely, with reference to the locality in which commodities are *produced*, not to that in which they are sold, their price in the latter place being always determined by their price in the former. Thus, when I speak c^f Australian, Euglish, or Indian prices, I shall be understood to mean the prices of their several products in Australia, England, or India.

Understanding the words, then, in this sense, let us see how far local prices are likely to be affected by the cause to which I have adverted.

In the first place, then, let it be observed that a very remarkable divergence of local prices from the range previously obtaining in the international scale has already taken place.¹ The prices of all articles produced in Australia and California are at present on an average from two to three times higher than those which prevailed previous to the gold discoveries; these rates have now been maintained for several years, and are likely to continue; but, while this advance has taken place in the gold countries, in no part of the world external to those regions have prices advanced by so much as one third. The possibility of a divergence of local prices is thus, as a matter of fact, established; and the explanation of the phenomenon I take to be this. The sudden cheapening of gold in Australia and California quickly led, through the action of competition among the different departments of industry, to a corresponding advance in the prices of everything produced in those countries; this advance being in their case possible, be-

¹ See Cairnes, pp. 24, 25.

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cause, from the limited extent of the transactions, the local circulation was quickly raised to the point sufficient to sustain a double or triple elevation; but it was impossible that the currencies of all countries should be expanded in the same proportions in the same time; and, consequently, prices in other countries have not risen with the same rapidity. The cause, therefore, of this divergence of local prices - the circumstance which keeps general prices in arrear of that elevation which they have attained in Australia and Californiais the difficulty of expanding the currencies of the world to those dimensions which such an advance would require. This expansion, however, is being gradually effected by the process we are now witnessing, - the increased production of the precious metals, and their diffusion throughout the world. But, as I have said, the diffusion is not uniform over the various currencies, nor are the currencies receiving the new supplies of uniform susceptibility; and the inequalities are such as to aggravate cach other; the currencies which are the most sensitive to an increase of the precious metals receiving in the first instance nearly the whole of the new gold; while the least sensitive currencies are the last to receive their share. And these, it appears to me, are grounds for expecting among other countries further examples of that phenomenon of local divergence, of which one has already been afforded by the gold countries.

To judge, however, of the extent to which such local variations of price can be carried, we must advert to the corrective influences which the play of international dealings calls into action; and these appear to me to resolve themselves into the two following: namely, first, the corrective, which is supplied by the competition of different nations, producers of the same commodities, in neutral markets; and secondly, that which exists in the reciprocal demand of the different commercial countries for each other's productions.

The first form of the corrective is obviously the most powerful, and must, so far as its operation extends, at once impose a check upon any serious divergence. Thus it is evident that prices in England and the United States could not pro-

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ceed very much in advance of prices on the continent of Europe. since the certain effect of such an occurrence would be to send consumers from the dearer to the cheaper markets, and thus to divert the tide of gold from the currencies of England and America to the currencies of France, Germany, and other continental States, - a process which would be continued until prices were restored to nearly the same relative level as before. But it is only among nations which are competitors in the same description of commodities that this equalizing process comes into operation. As between countries like England and America on the one hand, and India and China on the other, - in which the climate, soil, and general physical conditions differ widely, in which, consequently, the staple industries are different, and whose productions do not, therefore, come into competition in the markets of the world, --- this corrective influence would be felt slightly or not at all. The only check which could be counted on in this case would be that far weaker one which is furnished by the action of reciprocal demand in international dealings. Thus, supposing prices to rise more rapidly in England than in India, this must lead, on the one hand, to an increased expenditure in England on Indian commoditics, and, on the other, to a diminished expenditure in India on English commodities, with this result, - a steady efflux of the precious metals from the former to the latter country. Such an efflux, as commercial men are well aware, has long been a normal phenomenon in our Eastern trade, but it has lately assumed dimensions which constitute it a new fact needing a special explanation. I believe that explanation is to be found in the circumstances to which I am calling attention.

English and American prices, and with them money incomes in England and America, have, under the action of the new gold, been advancing more rapidly than prices and incomes in Oriental countries; and the result has been a change in the relative indebtedness of those two parts of the world, leading to a transfer to the creditor country of corresponding amounts of that material which forms the universal equivalent of commerce. It is true, indeed, that other causes have also contrib-

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uted to this result, and in particular I may mention the failure of the silk crop in Europe, which has largely thrown us upon China, as a means of supplementing our deficient supplies. But the main cause of the phenomenon in its present proportions is, I conceive, to be found, not in any such mere temporary disturbances, but in the natural overflowing (consequent upon the increase of the precious metals) of the redundant currencies of Europe and America into the more absorbent and impassive systems of Asia.¹ This, then, I say, is the only substantial corrective afforded to the advance of prices in Europe and America beyond their former and normal level in relation to prices in the East; and the question is, will this corrective be sufficient to neutralize the tendency to a divergence? Will the flow of the precious metals from West to East suffice to keep prices in England and America within the range prescribed by the inelastic metallic systems of Asia? I do not conceive that the corrective will be adequate to this end, and I rest this conclusion upon the facts and principles which I have stated, - the vast proportion of the whole gold production which finds its way in the first instance into the markets of England and America, the comparatively small portion which goes direct to the markets of Asia,² the highly elastic and expansible currencies of the former countries, and the extremely impassive and inexpansible currencies of the latter.

We find, therefore, two sets of laws by which the progress of prices, or (which comes to the same thing) the deprecia-

¹ Accordingly we find that the drain which, during the revulsion of trade following on the commercial crisis of 1857, had for a while ceased, has with the revival of trade, recommenced. As a proof how little mere practical sagacity is to be trusted in a question of this kind, it may be worth while to mention that, only three months since, mercantile writers were confidently predicting the taming of the tide of silver from the East to England. The following is from a circular of Messrs. Ellisen & Co., quoted in the Times City article, July 28, 1858, apparently with the editor's approval: "The time is rapidly approaching when silver will also be shipped from here [China] to England." So far from this being the case, the drain to the East has again set in, and gives every indition of assuming its former dimensions. Every mail to India during the present month (November, 1858) has taken out large amounts of silver.

⁹ See ante, p. 252, note.

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tion of gold under the action of an increased supply, is regulated: first, those which I explained in the earlier portion of this paper, which depend chiefly on the facility with which the supply of commodities can be adjusted to such changes in demand as the new money expenditure may occasion; and, secondly, those which result from the action of the new money on the currencies into which it is received. According to the former principle, the rise in price follows the nature of the commodity affected; thus it will in general be greater in animal than in vegetable productions - in raw produce than in finished manufactures. According to the latter principle, the advance follows the economic conditions of the locality in which the commodity is produced. Thus the rise in price has been most rapid in commodities produced in the gold countrics; having in these at a single bound reached its utmost limit, - the limit set by the cost of procuring gold. After commodities produced in the gold regions, the advance I conceive will proceed most rapidly in the productions of England and the United States; after these, at no great interval, in the productions of the continent of Europe; while the commodifies the last to feel the effects of the new money, and which will advance most slowly under its influence, are the productions of India and China, and, I may add, of tropical countries generally, so far as these share, as regards their economic conditions, the general character of the former countries.

Such appear to be the general principles according to which a depreciation of the precious metals, under the action of an increased supply, tends to establish itself. With a view to ascertain how far, in the progress of prices up to the present time (1858), any trace of their operation can be discerned, I have drawn up some statistical tables;¹ and although, from the imperfect nature of the materials which I have been able to collect, I cannot claim for the result a complete verification of the theoretic conclusions which I have ventured to advance, I think they are such as to justify me in placing some confidence in the general soundness of those views. Before,

> ¹ See Cairnes, Appendix. 17

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on of trade d, has with cal sagacity ention that, ing *the turn*om a circuly 28, 1858, ching when r from this rery indicaog the preshowever, stating the results of the tables, two or three remarks must be premised.

First, I would crave attention to this fact, that the present time [1858] is one singularly free from disturbing induences. and that such as do exist are of a kind rather to conceal than exaggerate the effects of depreciation. Thus, we have had three harvests in succession of, I believe, more than average productiveness (the last year of deficiency being 1855); and this cause of abundance has been assisted by free-trade, which has opened our ports to the produce of all quarters of the world. Again, although in the period under review we have passed through a European war, yet we have now enjoyed two years and a half of peace, during which, I think, the economic influences of the war may be taken to have exhausted themselves. It is true, indeed, that we have an Indian revolt still on our hands, besides having but just concluded some hostile operations in China. But these disturbances have not been of a kind to interfere seriously with the general course of trade, except in some few Oriental commodities in which their effects are slightly apparent.

But what renders the present time peculiarly important as a point of comparison with former periods, is its being in immediate sequence to a severe commercial crisis. The effect of the crisis of last winter has been effectually to eliminate one great disturbing element from those causes to which a rise of price might be attributed, — the element of credit. Trade is now suffering depression in almost all its branches; and prices, after a period of undue inflation, have, through an ordeal of bankruptcy, been brought to the test of real value. In the fluctuations of commerce we have reached the lowest point of the wave; whatever, therefore, be the range of prices at the present time, we may at least be sure that no commercial convulsion is likely to lower it.

We have further to remember that in an age like the present, in which science and its applications to the arts are in all civilized countries making rapid strides, there exists in most articles of general consumption (but more particularly in the more finished manufactures) a constant tendency to a decline

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of price, through the employment of more efficient machinery and improved processes of production. Now, taking all these circumstances together, - the propitiousness of the seasons, the action of free-trade, the absence of war, the contraction of credit, and the general tendency to a reduction of cost proceeding from the progress of knowledge, - it appears to me that, were there no other cause in operation, we should have reason to look for a very considerable fall of prices at the present time, as compared with, say, eight or ten years ago. Prices, however, as the following tables 1 will show, have not fallen; they have, on the contrary, very decidedly risen, and the advance has, moreover, as the same tables will also show, on the whole proceeded in conformity with the principles which I have in this paper endcavored to establish. And this is my ground for asserting that the depreciation of our standard money is already, under the action of the new gold, an accomplished fact.

ESSAY III. - INTERNATIONAL RESULTS.²

In a former essay³ it was attempted, from a review of the industrial history of Australia since the late discovery of gold, to make some general deductions respecting the character of that event, and of its influence upon national interests. Among other conclusions it was maintained that the tendency of the gold discoveries, or, to speak with more precision, the tendency of the increased production of gold, was rather to alter the distribution of real wealth in the world than to increase its amount; the benefit derived by some countries aud classes from the event being for the most part obtained at the expense of others. It was shown, for example, that the gain to Australia and California from their gold-fields accrued to them exclusively through their foreign trade, — their cheap gold enabling them to command on easier terms than formerly all foreign productions; while, on the other hand, the only result to foreign nations of the traffic thence arising was

¹ See Cairnes, Appendices.
 ² Fraser's Magazine, January, 1860.
 ³ Essay I. of this series.

an increase in their stock of money, — a result rendered necessary indeed by the new conditions of raising gold introduced by the gold discoveries, but in itself destitute of any real utility. It was shown, in short, that, as regards commercial nations, the effect of the gold discoveries was to place them under the necessity of enlarging their currencies, compelling them to pay for the requisite increase by an increased export of their productions.

To this conclusion I was led by direct inference from the facts presented in the gold countries. In the present paper it is proposed to follow up the inquiry, with a view to a more particular ascertainment of the consequences formerly described; the object being to discover in what manner the loss arising from the gold movement is likely to be distributed among commercial nations, and how far this loss may in particular cases be neutralized or compensated by other influences which the same movement may develop.

In the discussions which have hitherto taken place upon this question, the inquiry into the consequences of the gold discoveries has been confined almost exclusively to that aspect of the event in which it is regarded as affecting fixed contracts through a depreciation of the monetary standard.¹ As soon as the probability of depreciation is settled, and the effects of this upon the different classes of society, according as they happen to be debtors or creditors under fixed contracts, explained, the subject for the most part is considered as exhausted. I venture, however, to think that this mode of treatment is very far from exhausting the question. It seems to me that, independently altogether of the existence of fixed contracts, independently even of gold being a standard of value, the increased production of this metal which is now taking place will be attended, indeed has already been

¹ See Stirling's "Gold Discoveries and their probable Consequences;" Chevalier "On the Probable Fall in the Value of Gold;" Levasseur's contributions to the "Journal des Économistes," 1858; M'Culloch's article "Precius Metals," in the "Encyclopædia Britannica." In all these, and in many other minor productions on the same subject, almost the only consequences of the gold discoveries which are taken account of are those which occur in fixed contracts through a depreciation of the standard.

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attended, with very important results. Let us observe for a moment the movement which is now in progress. Australia and California have, during the last eight or ten years, sent into general circulation some two hundred millions sterling of gold. Of this vast sum portions have penetrated to the most remote quarters of the world; but the bulk of it has been received into the currencies of Europe and the United States from which it has largely displaced the silver formerly circulating; the latter metal, as it has become free, flowing off into Asia, where it is permanently absorbed. Viewing the effect as it occurs in the mass of the two metals combined, it may be said that the stream which rises in the gold regions of Australia and California flows through the currencies of the United States and Europe, and after saturating the trade of these countries, finally loses itself in the hoards of China and Hindostan. The tide which comes to light in the sands and rocks of the auriferous regions disappears in the accumulations of the East. In conjunction, however, with this movement, there has been a counter one. With every advance in the metallic tide a stream of commoditics has set in in the opposite direction along the same course, -a stream which, issuing from the ports of Europe, America, and Asia, and depositing as it proceeds a portion of the wealth with which it is charged, finds its termination in the markets of the gold countries. Here, then, we find a vast disturbance in the conditions of national wealth, -a dist 'anec originating in the gold discoveries, and resulting in a transfer, on an enormous scale of consumable goods - the means of well-being - from one side of the globe to the other. This disturbance, it is evident, is entirely independent of the accident that gold happens to be in some countries a standard of value, as well as of the existence of fixed moneycontracts; for it includes within the range of its influence countries in which gold is not, no less than those in which it is, the monetary standard; and it affects alike persons whose bargains are made from day to day, and those who engage in contracts extending over centuries. The fact is, the movement in question is the result, not of gold's being a

standard of value, but of its being a source of purchasing power; and the influence of the gold discoveries having been hitherto regarded almost exclusively with reference to the former function, the vast effects which they are producing through the action of the latter, — that is to say, by altering the distribution of purchasing power in the world, -have been almost wholly overlooked. It has indeed been perceived that a great influx of the precious metals is taking place, accompanied with certain consequences on the trade of the world; but so far as I know, beyond some general phrases respecting the stimulus given to production by an increase of money, and the great development of commerce which it is causing, no attempt has yet been made to state the principles by which the movement is governed, or the effects which may flow from it. It is to these questions, then, that I would now solicit the reader's attention, and towards their solution the following remarks are offered as a contribution.

Those who have followed the course of this controversy are aware that, by most persons who have taken part in it, it has been assumed, almost as an axiom, that no depreciation of gold in consequence of the gold discoveries has, up to the present time, taken place.¹ As a matter of fact, however, we know that the gold prices of all commodities produced in Australia and California have risen in at least a twofold proportion;² while we have seen that (so long as the conditions of producing gold remain as at present) this rise must be permanent. To express the same thing differently: in the purchase of every commodity raised in the gold countries two sovereigns are now required, and (the above conditions being fulfilled) will continue to be required, where one was formerly

¹ The principal exceptions to this statement are M. Levasseur (who, in anatticle in the "Journal des Économistes," March, 1858, estimates the rise of prices in France since 1847 at 20 per cent on all commodities), and Dr. Soetbeer, of Hamburg, who, in his table of prices given in his "Contributions to the Statitics of Prices in Hamburg," arrives at a similar result (see Appendix). Many other writers, indeed, acknowledge that prices have risen, but the rise is always attributed to causes distinct from the increased production of gold.

² See Cairnes, p. 24.

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¹ See "Works," chaps. xix

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who, in an arrise of prices Soetbeen of to the Statisdix). Many ise is always sufficient; and if this does not amount to a fall in the value of gold, I must confess myself unable to understand the meaning of that expression. It is not to be supposed that so remarkable a fact as this should have escaped the attention of those who have written on this question; it seems to me rather that the ignoring of it in the discussion is to be attributed to a want of definite ideas respecting value in the precious metals, as well as respecting the mode in which changes in their value are accomplished. The language which is commonly used on the subject would seem to imply that gold and silver possess throughout the world a uniform value, and that all changes therein proceed in a uniform manner, showing themselves at the same time in all countries, and in respect to all commodities. But nothing can be further from the truth than such a notion. Gold and silver, like all other things which are the subjects of international exchange, possess local values;¹ and it is by a succession of operations on the local values of gold of an unequal and fluctuating character that its depreciation is being effected, and that (the conditions of production remaining as at present) its value will continue to decline. The twofold rise of prices in the gold countries forms the first step in this progress; and it will be through a series of similar partial advances in other countries, and not by any general movement, that the depreciation of the metal throughout the world will be accomplished, if that consummation is indeed to take place. With the question of depreciation, however, I am at present no further concerned than may be necessary to show the bearing of these changes in the local values of gold upon the movements of trade, and through these upon national interests.

There is no need here to resort to argument to prove that a general rise or a general fall of prices, provided it be simultaneous and uniform, can be attended, always excluding the case of fixed incomes and contracts already entered

¹ See on the subject of the local values of the precious metals, Ricardo's "Works," pp. 77-86, and Mill's "Principles of Political Economy," Book iii., chaps. xix. and xxi.

into, with no important consequences either to nations or to individuals. It is evident that such a change would merely alter the terms in which transactions are carried on, not the transactions themselves. But when the rise or fall of prices is not general, in other words, when the change in the values of the precious metals is merely local, it will be seen that important consequences must result. Supposing, for example, the prices of all commodities produced in England to be doubled, while prices throughout the rest of the world remained unchanged, it is evident that half the commodities exported from England would, under these circumstances. be sufficient to discharge our foreign debts. With half the capital and labor now employed in producing goods for the foreign markets, we should attain the same result as at present, - the procuring of our imports; while the remaining half would be set free to be applied to other purposes, -to the further augmentation of our wealth and well-being. England would, therefore, in the case we have supposed, be benefited in all her foreign dealings to the full extent of the rise in price. On the other hand, foreign countries would, in exchange for the commodities which they send us, receive in return of our commodities but half their present supply. Their labor and capital would go but half as far as at present in commanding our productions, and they would be losers in proportion. It is evident, therefore, that while nations have not, any more than individuals, any interest in the positive height which prices may attain, every nation, as well as every individual trader, is interested in raising, in relation to others, the price of its own productions. The lower the local value, therefore, of the precious metals in any country, the greater will be the advantage to that country in foreign markets.

This being the manner in which nations are interested in changes in the value of gold, let us now observe the effect which the gold discoveries are producing in this respect. As has been already stated, the local value of gold in Australia and California has fallen to one-half, the prices of

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their productions having risen in a twofold proportion; 1 and prices in other parts of the world having undergone no corresponding change, these countries realize the position which we have just been considering in our hypothetical case. A given quantity of their capital and labor goes twice as far as formerly in commanding foreign productions, while a given quantity of foreign labor and capital goes only one-half as far in commanding theirs. The world has thus, through the gold discoveries, been placed in its dealings with California and Australia at a commercial disadvantage; and from this disadvantage it can only escape (always supposing the present conditions of producing gold to continue) by raising the prices of its productions in a corresponding degree. Every country, therefore, is interested in raising as rapidly as possible the prices of its productions, - in other words, in the most rapid possible depreciation in the local value of its gold.² The sooner this is effected, the sooner will the country be restored to its natural commercial footing in relation to Australia and California; while in relation to countries where prices do not rise with the same rapidity, it will possess the same kind of advantage which is now enjoyed by the gold countries.

This conclusion, I find, is directly at variance with the opinion of some economists of eminence. Mr. M'Culloch, for example, in his recent contribution to the "Encyclopædia Britannica," ³ praintains "that the mischievous influence resulting from a fall in the value of the precious metals depends in a great measure on the rapidity with which it is brought about." But I apprehend the difference between

¹ This statement is not given as strictly accurate. On the whole, the advance of local prices in the gold countries is at present (1859) considerably more than this, — some leading articles, as house-rent, meat, etc., having risen in a fourfold proportion and upwards. I adopt the proportion of two to one, because money wages have risen in about this ratio, and money wages, under a depreciation of the precious metals, ultimately govern money prices.

² For the general ground of this assertion the reader is referred to Mr. Mill's chapters on International Values, and on Money as an Imported Commodity, in his "Principles of Political Economy;" also to Mr. Senior's essay "On the Cost of Obtaining Money."

⁸ Article " Precious Metals."

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Mr. M'Culloch and myself arises from his attending exclusively to a single class of sequences, - those, namely, which result in the case of fixed contracts, from a depreciation of the standard. With respect to this class of effects, it is quite true that the evils which they involve will be increased by the rapidity of the depreciation; but as I have shown, the new gold is producing effects quite independently of its operation upon fixed contracts; and it is to those other effects that the statement I have just made is intended to The distinction which I have in view will be best apply. exemplified by recurring to the experience of the gold countries. In these the value of gold fell by more than 50 per cent in a single year, the depreciation involving a proportional loss to creditors with a corresponding gain to debtors and entailing in addition those numerous incidental evils which always result from a sudden disturbance of social No one, however, on this account, will say that relations. the sudden depreciation of gold in Australia and California was not for these countries a great gain. The nature and extent of that gain I endeavored on a former occasion to estimate.¹ It consisted, as I showed, in the increased command conferred by the cheapness of their gold over markets in which gold prices had not proportionally risen. With every rise in the price of Australian and Californian products, or, what comes to the same thing, with every fall in the local value of their gold, their power of purchase in foreign markets increased, — an increase of purchasing power which, as we know, was immediately followed by a sudden and extraordinary influx of foreign goods. Now, precisely the same principle applies in the case of other countries. A fall in the value of gold will, where gold is the standard, lead to a disturbance in fixed contracts, with the concomitant evils; but it will at the same time, as in the case just considered, place the countries in which it occurs in a better position commercially in the markets of the world. Supposing, for example, a rise in prices to take place in all commercial countries equivalent to that which has occurred in

¹ See Cairnes, p. 39.

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California and Australia, the consequence would be what I endeavored to explain in the paper just referred to; the export of gold from California and Australia, at least on its present scale, would at once cease, and the world would receive instead an increased supply of agricultural and pastoral products, and of other commodities which those countries are fitted to produce, - a result which, I ventured to think, would be a gain for the world. On the other hand, supposing the rise in price to be confined to a single country, - say to England, - then England would at once be placed on a footing of commercial equality with California and Australia, while as regards other countries she would occupy the same vantage-ground which California and Australia now possess. She would, in short, obtain her gold at half its present cost (for she would receive twice as much as at present in return for the same expenditure of labor and capital), while the gold thus obtained would be expended on foreign commodities, of which, according to the hypothesis, the prices had not risen. Notwithstanding, therefore, the evils which undoubtedly attend variations in the standard of value, more especially in an old and highly artificial community like ours, it is neverthcless, I maintain, for the interest of every country, that, a fall in the cost of gold having been effected, the progress of depreciation should in it be as rapid as possible. Until by a depreciation of gold corresponding to that which has occurred in California and Australia, the value of that metal is brought into harmony with its cost, we must continue to receive from those countries little more than a barren addition to our stock of money. But with each successive step in the progress of depreciation, there will be for the nation in which it occurs, a nearer approach to the footing of commercial equality with the gold countries from which it has been temporarily displaced, while in its dealings with other places where the decline has been less rapid, the nation so circumstanced will, during the period of transition, enjoy a commercial superiority. As a general conclusion, therefore, we may say that in proportion as in any country the local depreciation of gold

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is more or less rapid than the average rate elsewhere, the effect of the monetary disturbance will be for that country beneficial or injurious.

This conclusion, I may in passing remark, throws light upon a practical question of some interest at the present time, - I mean the question of introducing a gold currency into India. The measure has been advocated by Mr. M'Culloch, on the ground that, by providing a new market for the increased supplies of gold, its effect would be "to counteract that fall in its value which is so generally apprehended."¹ There can be no doubt that the effect of the measure would be what Mr. M'Culloch describes; but, if the above reasoning be sound, this circumstance, instead of being a reason for introducing gold into the currency of India, affords (so far as the interests of India are concerned) a strong reason against the adoption of this course. Mr. M'Culloch does not state whether the effect which he anticipates upon the value of gold would be general or local; whether extending over the whole commercial world or confined to the markets of India, - a point of vital importance in determining the character of the result. If the effect were general, - if while counteracting depreciation in India, it influenced the value of gold proportionately in other parts of the world, --- then it must be conceded that the result would be entirely beneficial. The evils incident to a disturbance of fixed contracts would be avoided, and no others would be incurred. But this is just the point which I venture to deny. The adoption of gold as the monetary standard of India would certainly not affect the local value of gold in Australia and California; for, as I proved on a former occasion, the value of gold in these countries is determined by its cost, and its cost depends on the productiveness of the gold-fields. Nor, for reasons which will be hereafter stard, would it influence more than in a slight degree the range of gold prices in England and the United States. The operation, therefore, of the measure would be to depress

¹ "Encyclopædia Britannica," article "Precious Metals," p. 473.

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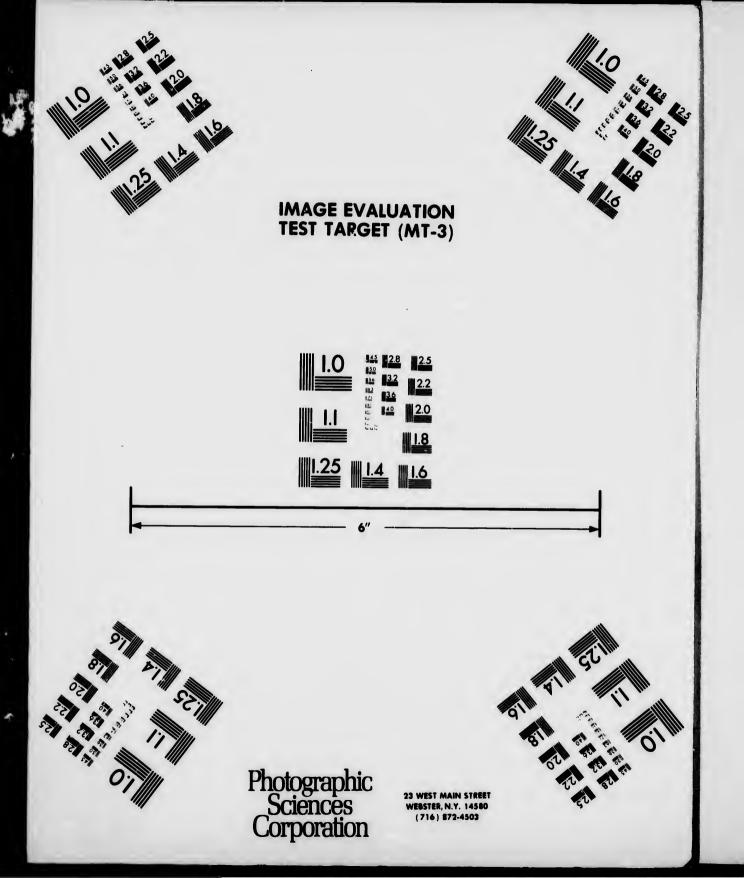
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gold prices in India, or at least to prevent them from rising in that quarter as rapidly as they otherwise would; while in California and Australia, in England and the United States, it left their course substantially unaffected. Now this result would tend undoubtedly to the advantage of California and Australia, of England and the United States, but, as it seems to me, would as clearly be injurious to India. The purchasing power of the former countries over the markets of India would, through the relative superiority of their prices, be increased, but the purchasing power of India over their markets would, for the opposite reason, be diminished. An English or American merchant, instead of discharging his debts, as at present, through the medium of silver which he has to purchase with gold at 62d. per ounce (and may soon have to purchase at a higher rate), might discharge the same debts with gold directly; and gold being by hypothesis more valuable in India than before, the same amount would of course go farther. But an Indian purchaser of English or American commodities would have the same sum in gold to pay as if no change had taken place in the currency of India; while the gold prices of his native productions being lower, his ability to pay would of course be less. It seems to me, therefore (and the considerations here adduced are entirely independent of the reasons which exist on the score of good faith, --- the Indian debt having been contracted in a silver currency), that, viewing the matter from the side of Indian interests, the introduction of a gold currency into India must be regarded as a measure decidedly detrimental.¹

¹ Referring to the adoption of a silver standard by 'Holland in 1851, Mr. M'Culloch characterizes it as a measure "in opposition to all sound principles." I confess I am at a loss to conjecture what sound principle was violated in preferring as the standard of value that metal the value of which there was every teason to believe would be the stendier of the two. [I may say now (1872) that I am disposed to assign much less importance to this question of a change in the monetary standard of India than I did when the above passage was written. The reasoning assumes the possibility of a serious divergence in the relative values of gold and silver; but I now believe that such a divergence is practically out of the question, the grounds for which opinion will be found farther on [Coirnes, p. 141]. This circumstance, however, does not affect the theoretic point argued with Mr. M'Culloch. If the exchange of the existing silver





Returning once more to the general question we may consider the following conclusions as established: 1st, that the effect of the cheapening of gold upon commercial countries being to compel them to enlarge their metallic currencies. for which enlargement they must pay by an export of their productions, each country will endure a loss upon this head to the extent of the additional sum which may be requisite for each; and 2dly, that while there will be a general loss from this cause, yet the progress of depreciation over the world not being uniform or simultaneous, the primary loss may, through the disturbance in international values thence arising in particular cases, be compensated or even converted into a positive gain; the loss or gain upon the disturbance being determined according as the rise of prices ia any country is in advance or in arrear of the general average. To ascertain, therefore, the effect of the movement upon any particular nation, we must consider the manner in which, in its case, these two principles will operate.

With respect to the first, I am aware that, in speaking of the loss imposed on a country by the necessity of enlarging its currency, — by the necessity of receiving and keeping increased supplies of gold and silver, — I am using language which, notwithstanding what was said on a former occasion in its justification, and notwithstanding that it is merely in strict conformity with the most elementary principles of economic science, will still appear paradoxical to many. I would, therefore, before proceeding farther with this branch of the argument, ask the reader to consider the case of a private merchant who is compelled to increase the stock of cash with which he carries on his business. The metallic circulation of a country performs in relation to the community functions precisely analogous to those which are dis-

for a gold standard in India were calculated to produce the effects Mr. M'Culloch expected from it, the measure, it still seems to me, would be open to the objections I have urged against it. But I do not believe that the effects in question would result; and I can well conceive that, having regard to the general convenience of commerce, "the change might, on the whole, be advantageous.]

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ts Mr. M'Cule open to the the effects in regard to the e whole, be charged for a merchant by his cash reserve. If a merchant can safely dispense with a portion of his ready cash, he is enabled, with the money thus liberated, either to add to his productive capital or to increase his private expenditure. On the other hand, if he finds it necessary to increase his reserve of cash, his productive capital must be proportionally encroached upon, or his private expenditure proportionally curtailed. And precisely the same may be said of the currency of a nation. Where a country does not itself yield gold or silver,¹ every increase of its metallic circulation must be obtained — can only be obtained — by parting with certain elements of real wealth, - elements which, but for this necessity, might be made conducive to its well-being. It is in enabling a nation to reduce within the narrowest limits this unproductive portion of its stock that the chief advantage of a good banking system consists; and if the augmentation of the metallic currency of a country be not an evil, then it is difficult to see in what way the institution of banks is a good. In regarding, therefore, the necessity imposed upon commercial countries of enlarging their metallic currencies as injurious to their interests, I make no assumption which is not in perfect keeping with the best known and most generally recognized facts of commercial experience.

An increase in the metallic currency of a country, then, being an evil, let us consider what the circumstances are by which the augmentation rendered necessary by the gold discoveries will be determined. This, it is evident, will principally depend — the amount of business to be carried on being given — on the extent to which substitutes for metallic money are in use; in other words, on the degree of perfection which the banking system of each country has attained. To illustrate this, let us suppose a given sum of metallic money, say a million sterling, to be introduced

¹ Even where it does yield these metals, the necessity of augmenting the currency is not the less an evil, since the operation will occupy, with no result but that of avoiding an inconvenience, a portion of the labor and capital of the country, which, but for this, might have contributed to its positive welfare.

into two countries in which the currencies are differently constituted, — for example, into England and India. In India coin is the principal medium of circulation¹—in many parts the only one, and consequently a million sterling introduced into the currency of India would represent enly an equal, or little more than an equal, addition to its total medium of circulation, — to the whole monetary machinery by which the exchange of commodities is effected and prices maintained. But in England, where the currency is differently constituted, the result would be different. The great bulk of the eirculating medium of this country consists of

¹ [The reader will bear in mind that this was written in 1859. The state of the Indian currency at that time may be gathered from the following extracta from a paper on "The Trade and Commerce of India," read before the British Association in 1859.] "Intimately connected with Indian trade and commerce is a sound system of banking. At present there are only three banks of importance in India, - the banks of Bengal, Bombay, and Madras. These have no branches, the absence of which constitutes one of the main defects of the system. The few other banks in India do not issue notes, and employ their capital in making advances on bills of lading, in exchange operations, and in some instances in loans to members of the Service, at high rates of interest; but afford no banking facilities for conducting the internal trade of the country." The writer then refers to a table, showing the state of the three leading banks (Bengal, Bombay, and Madras) in the preceding June, from which it appears that the bullion at that time in the coffers of the banks was in ercess of the notes in circulation, the amount of these latter being, for the whole of India, £2,241,471, or about one-tenth of the amount issued by the Bank of England alone; while the total amount of "accounts current" was only £1,855,000,about one-sixth of those held by some of the private banks of London, and not one-fifteenth of those of the Bank of England. The total amount of commercial bills discounted in these three leading banks of India is set down at £278,-906! "And this," it is observed, " in a country where the gross annual revenue is £34,000,000; the export trade, on an average of the last five years, £24,000. 000; the import trade, on the same average, £23,000,000, with an internal trade to an extent aimost impossible to estimate." ("The Trade and Commerce of India," by J. T. Mackenzie, read before the British Association, 1859, pp. 15. 16.) In the evidence taken before the late Committee "On Colonization and Settlement in India," Mr. Alexander Forbes, when questioned with reference to the large absorption of silver in India, expressed his opinion that the silver was all required for current coin. "It has often been said that the natives hoard silver. Now my experience is that they do not hoard silver; they hoard gold; and that the silver is actually required for the commerce of the country." And this he traces (Answers 2,222, 2,223, 2,372-80) to the want of banking scommodation and the imperfect means of communication generally in the country. See also the evidence of Mr. Mangles (Answers 1,625-1,633).

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he state of ng extracts the British commerce s of imporese have no of the systheir capiand in some nterest; but ie country." ading banks h it appears ercess of the ole of India, of England 1.855,000, ion, and not of commerwn at £278,ual revenue ars, £24,000ternai trade ommerce of 1850, pp. 15, nization and reference to e ailver was atives hoard hoard gold; ntry." And king accomhe country. certain forms of credit; and the amount of these credit media standing in a certain large proportion to the coin in the country, the effect of introducing a million sterling into our currency would be to increase the medium of circulation by an amount very much greater than that of the added coin. Let us consider for a moment what becomes of a sum of coin or bullion received into England. I do not now speak of that moving mass of metal which passes (so to speak) through the currency of the country, - which, received to-day into the vaults of the Bank of England, is withdrawn to-morrow for foreign remittance, - but of gold which is permanently retained to meet our genuine monetary requirements. Of such gold a portion, greater or less, according to circumstances, will always find its way into the channels of retail trade; and so far as it follows this course, its effect in augmenting the circulation will be, as in India, only to the extent of its actual amount. But a portion will also be received into the banks of the country, where, either in the form of coin, or of notes issued against coin, it will constitute an addition to their cash reserves. The disposable cash of the banks being thus increased, an increase of credit operations throughout the country would in duc time follow. The new coin would become the foundation of new credit advances, against which new checks would be drawn, and new bills of exchange put in circulation, and the result would be an expansion of the whole circulating medium greatly in excess of the sum of coin by which the new media were supported. Now, credit, whatever be the form which it assumes, so long as it is credit, will operate in purchases, and affect prices in precisely the same way as if it were actually the coin which it represents. So far forth, therefore, as the new money enables the country to support an increase of such credit media, - to support them, I mean, by cash payments, - so far it extends the means of sustaining gold prices in the country; and this extension of the circulating medium being much greater than in proportion to the amount of added coin, the means of sustaining gold prices will be in the same degree increased. Thus, suppos-

ing the ratio of the credit to the coin circulation of the country to be as four to one (and the proportion is greatly in excess of this), the addition of one million sterling of coin would be equivalent to an increase in the aggregate circulation of four millions sterling,¹ and one million sterling of gold would consequently, in England, for a given extent of business, support the same advance in gold prices as four times that amount in India. It follows from these considerations, that in order to raise prices throughout a given range of transactions to any required level, the quantity of metallic money which will be necessary will vary in different countries, according to the constitution of their currencies; the requirements of each increasing generally in an inverse ratio with the efficiency of its banking institutions.

We may thus see how very unequal will be the operation of the gold discoveries with respect to commercial communities. The reduction in the cost of gold to which they have led has, as we have seen, produced in the gold countries a twofold rise of gold prices; and supposing the present conditions of raising gold to continue, the same cause must ultimately lead to the same result throughout the world, imposing upon each country the n cessity of so enlarging its currency as to admit of this advance. But we have seen that the quantity requisite for this purpose varies according to the monetary status of the country for which it is required; and inasmuch as the new money must be paid for by commodities, the abstraction of commodities, and therefore the loss of the means of well-being, to which each country must submit, will vary with the same circumstance. On

¹ Strictly speaking, this conclusion would not follow on the above suppoition, the efficiency of different forms of credit in performing the work of circulation being (as pointed out by Mr. Mill, "Principles of Political Economy," vol. ii., pp. 58-61) different, and only some of them being in this respect equal to coin. But such distinctions do not affect the general truth of the principle contended for in the text, that the necessity for coin varies inversely with the use of credit. Besides, as I intimated, the proportion of credit to coin n our circulation is much greater than I have assumed; and a million of coin taken into our currency would really be equivalent to more than four millions added to a purely metallic one. comp Great the su whole which compa ure h of sil ¹ It who, sti few even nevertheit is inco

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the supposition, therefore, on which we are arguing, the quantity of new money which England would require would be, when compared with the extent of her business, extremely small, and her loss of real wealth small proportionally. The same would be true of the United States, where credit institutions have also attained a high degree of efficiency, and whose paper consequently forms a large proportion of the whole circulation. In France, the use of credit being more restricted, the requirements for coin would be greater, and consequently also the loss of consumable commodities; while in India and China, and indeed in Asiatic communities generally, the circulating medium being almost purely metallic, the requirements for coin would, in proportion to the business in which it was employed, attain their maximum, with a corresponding maximum of loss in the elements of well-being.¹

The operation of this principle is indeed, in the actual circumstances of the world, in some degree concealed by the complex conditions under which it comes into play. Thus Great Britain and the United States, instead of obtaining the smallest shares, receive in the first instance nearly the whole of the new gold. On the other hand, the quantity which goes to India and China from the gold countries is comparatively trifling;² and although a large drain of treasure has set in thither from Europe, yet this consists chiefly of silver. If, however, passing by the accidents of the

¹ It is curious to observe the contradictions in which persons are involved who, still under the influence of the mercantile theory of wealth (and there are few even among professed economists who are free from its influence), are nevertheless sensible from experience of the advantages of a system with which its incompatible. Thus several witnesses before the late Committee on Indian Colonization refer to the large influx of silver into India in recent years as a sure indication of the increasing prosperity of that country ; yet, almost in the same breath, they speak of the deficiency of banking accommodation as among its most pressing wants. Now, it is certain that, just in proportion as banking accommodation is extended, the absorption of silver by India will decline; whence it would follow, if the reasoning of the witnesses be sound, that the effect of the extension of banks would be to check the growing prosperity of the country. See "Minutes of Evidence," Questions 1,625-1,633; 2,221-2,223.

² This order in the diffusion of the new gold has not been sustained. See ante, p. 252, note.

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movement, we attend to its essentials we shall find that the results are entirely conformable to the principle I have en. deavored to describe. For though the bulk of the new gold comes in the first instance to England and the United States. - determined thither by the course of international demand. -yet England and the United States do not form its ultimate destination. The monetary requirements of these countries being easily satisfied, the mass of the metal on reaching these markets becomes immediately disposable for foreign purchases, by which means the United States and England are enabled to transfer to other countries this unprofitable stock. the commodities with which in the first instance they parted being replaced by others which they more require. So also, although the metallic drain to the East is composed principally of silver, the efflux, at least in its present proportions, is not the less certainly the consequence of the increased production of gold, for the silver of which it consists has been displaced from the currencies of Europe and America by the gold of Australia and California; and the drain to the East is only not a golden one, because silver alone is in that region the recognized standard. As the final result of the whole movement, we find that, while the metallic systems of England and the United States are receiving but small permanent accessions, those of India and China are absorbing enormous supplies. The former countries, though the first recipients of the treasure, yet, not requiring it for domestic purposes, are enabled to shift the burden to others, whose real wealth they command in exchange, while the latter, requiring what they receive, are compelled to retain it. Having parted with their commodities for the new money, they are unable afterwards to replace them. As their stock of coin increases, their means of well-being decline, and they become the permanent victims of the monetary disturbance.

But, secondly, we conclude that the loss of real wealth resulting from the augmentation of their currencies would in particular countries be compensated, and might in some be even converted into positive gain, by the disturbance

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which, during the period of transition, would take place in international values. As has been already remarked, a general rise of prices in all countries, if simultaneous and uniform, since it leaves the proportions in which commodities are exchanged undisturbed, leads to no change in international values, and produces no effect upon national interests. But where prices rise unequally, international values, and through these, national interests are affected. We have therefore to consider how far, in the actual circumstances of the world, a rise of prices in particular countries, unaccompanied by a corresponding advance in others, is possible, and, in so far as it is possible, in what order the several changes may be expected to occur.

As regards the question of possibility, this is placed beyond controversy by the example of California and Australia. It is a matter of fact that prices in those regions have advanced in a twofold proportion, while no corresponding rise of prices has occurred throughout the world. The circumstances, however, of the gold countries will probably be thought of too exceptional a character to form the basis of any general conclusion; and it will therefore be desirable to advert for a moment to the causes which produced in California and Australia that local elevation of price, with a view to consider how far the same conditions are capable of being realized elsewhere.

These causes, as was formerly shown,¹ were the special facilities for producing gold enjoyed by California and Australia, combined with the limited range of their domestic transactions. The sudden cheapening of gold, involving a corresponding increase in money earnings, placed an extraordinary premium on the production of the metal, while the limited range of their domestic trade rendered the necessary enlargement of their monetary systems an easy task. On the other hand, the immense extent of the aggregate commerce of the world required, in order to secure a similar advance, a proportional increase in its aggregate stock of

¹ See Cairnes, pp. 25, 26.

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money, an augmentation which could only be accomplished after the lapse of a considerable time. Prices therefore rose rapidly in the gold countries, while over the area of general commerce the rise had been but slow.

Such being the circumstances which produced the local divergence of prices to which I have called attention, it will at once be seen that of the two conditions which I have stated, the latter - the uccessary enlargement of the local currency - may in most countries, though not in all at the same time, be fulfilled, if not with the same rapidity as in Australia and California, still after no very long delay. It has been computed,¹ for example, that the total quantity of gold coin circulating in Great Britain amounts to £75,000,000 sterling. Assuming this to be correct, it would follow (all other conditions being supposed identical) that an addition of £75,000,000 would be sufficient to effect an elevation of our local prices equivalent to that which has occurred in Australia. Now at the present rate of production, the quantity of gold which arrives annually in Great Britain cannot fall much short of £30,000,000 sterling;² so that were we merely to retain all that we receive, we should at the end of two years and a half be in a position, so far as the augmentation of our currency is concerned, to maintain the same advance in price as has occurred in the gold countries. If, then, prices in Great Britain have not risen in the same degree, the result, it is evident, cannot be due to the difficulty of procuring the supply of gold necessary for the enlargement of our currency. It remains, therefore, to be considered how far those special facilities for procuring gold which have operated in the gold countries may come into play in other parts of the world.

The extraordinary facilities for procuring gold enjoyed

¹ "History of Prices," vol. vl., App. xxii. This also is Mr. M'Culloch's et timate : "Encyclopædia Britannica," article "Precious Metals," p. 465. [li will be borne in mind that these estimates apply to the period immediately preceding the first publication of these Essays (1859-60).]

² [£20,000,000 would have been nearer the mark, but at the time this paper was written no trustworthy statistics of gold imports existed. Either smouth however, answers equally well the purpose of the argument (1872).]

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'Culloch's esp. 465. [It immediately

nc this paper ither amount, .] by Australia and California depend, of course, on the possession of their gold mines; and this being so, it might seem as if all countries, not being like them auriferous, were by the nature of the case precluded from fulfilling this condition of the problem; but this by no means necessarily follows, as will be evident if we reflect that there are other modes of obtaining gold than by direct production, of which modes the efficiency enjoyed by different countries differs almost as much as the degrees of fertility in different gold mines. Where countries do not themselves produce gold, the mode by which they obtain it is through their foreign trade. Now, it is a fact well known to economists 1 that, with reference to the cost of commodities the terms on which foreign trade is carried on differ greatly in different countries, the labor of some going much farther in commanding foreign productions than that of others. According, however, to the conditions on which foreign productions generally are obtainable, will be those on which gold may be obtained. If a country possess special facilities for supplying markets where gold can be given in exchange, it will obtain its gold more cheaply, at a less sacrifice of labor and capital, than countries which do not share these facilities; and among such countries it will therefore occupy precisely the same position as an auriferous country whose mines are of more than the usual richness among the countries which yield gold. It is thus possible for a non-auriferous, no less than for an auriferous country, to possess exceptional facilities in the means of procuring gold, and therefore to fulfil the seeond of the conditions by which a divergence of local prices from the ordinary level of the world may be effected.

Now it appears to me there are two countries which possess in an eminent degree the qualifications requisite for attaining this result, I mean Great Britain and the United States, the former, as being *par excellence* the great manufacturer among civilized nations, — the manufacturer more

¹ See Ricardo's "Works," chap. vii., on Foreign Trade. Mill's "Principles of Political Economy," chaps. xvil., xix. Also, Senior's Essay, "On the Cost of Obtaining Money."

particularly of descriptions of goods, - as cotton, woollen. linen, and iron, which enter largely into the consumption of the classes by whom chiefly the gold countries are peopled; and the latter, as the principal producer of raw material, as well as of certain commodities, -as grain, tobacco, sugar, and rice, - which are also largely consumed by the same classes. In these circumstances Great Britain and the United States enjoy peculiar advantages in the markets of the gold countries, and these advantages are extended and confirmed by other important incidents of their position. Thus they possess the greatest mercantile marine in the world, by which they are enabled to give the fullest scope to their manufacturing and agricultural superiority, while by race, language, and religion they are intimately connected with the producers of the new gold, - a connection from which spring ties, moral, social, and political, to strengthen and secure those which commerce creates. Great Britain and the United States thus possess in their foreign trade a rich mine,¹ worked by their manufacturers, planters, and farmers, tended by their mercantile marine, and protected by their naval power, - a mine by means of which they are enabled to obtain their gold on terms more favorable than other nations. The effect of this in ordinary times is shown by a scale of money rates, wages, salaries, and incomes, permanently higher than that which elsewhere prevails; but in times of monetary disturbance like the present, when the cost of gold having been reduced its value is falling, these advantages, it seems to me, must tell, as analogous advantages have told in the gold countries, in a more rapid realization of the results which are in store, - in a quicker ascent towards that higher level of prices and income which the cheapened cost of gold is destined ultimately to produce.

There is reason, therefore, on considerations of theory, to expect a repetition in England and America of that phe-

¹ The mine worked by England is the general market of the world; the miners are those who produce those commodities by the exportation of which the precious metals are obtained. — SENIOR'S Essay "On the Cost of Obtaining Money," p. 15.

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nomenon which has been already exhibited in Australia and. California, — a divergence of local money-rates from the average level of surrounding countries. On a future occasion I shall endeavor to ascertain how far, in the case of Great Britain, these *a priori* conclusions are supported by facts, — how far prices and incomes have here, under the influence of the gold discoveries, outstripped the corresponding movement in other countries.¹ Having settled this point, we shall be in a position to form a general estimate of the benefit which may thence accrue to us. Meanwhile, however, I may in conclusion point out the mode in which the advantages incident to the monetary position we shall occupy are likely to be realized.

And here it may be well to call the reader's attention to the distinction, sometimes overlooked, between a fall in the value of gold and a rise in the price of commodities. A rise in the price of commodities if general, implies commonly a fall in the value of money; but, according to the ordinary use of language, alike by economists and common speech, money would, I apprehend, in certain circumstances, be said to have fallen in value, even though the prices of large classes of commodities remain unaffected. For example, supposing improvements to have been effected in some branch of production resulting in a diminished cost of the commodity, the value of money remaining the same, prices would fall; if under such circumstances prices did not fall, that could only be because money had not remained the same, but had fallen in value. The continuance of prices unaltered would, therefore, under such circumstances, amount to proof of a fall in the value of gold. Now, when in connection with this consideration, we take account of the fact

¹ [Some evidence on the point will be found in the Appendix (see Cairnes); but the inquiry here contemplated was never carried into effect. A very intereting and carefully prepared paper on the subject, however, was read some years later by my friend Professor Jevons, before the London Statistical Society, when I had the satisfaction to find that the results of his entirely independent investigations to a very large extent corroborated the conclusions at which I had arrived, mainly by way of deduction from the general principles of the telence.]

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that over the greater portion of the field of British industry improvement is constantly taking place, it is obvious that the mere movements of prices here, taken without reference to the conditions of production, are no sure criteron of changes in the value of gold.

The truth is, in a large class of commodities, in all those to which mechanical or chemical inventions are extensively applicable, even on the supposition of a very great depreciation of gold, no considerable advance in price is probable. Gold, for example, might have fallen since the beginning of the present century to the extent of 75 per cent, that is to say, four sovereigns now might be equal to no more than one sovereign at the commencement of the period, and yet in a large class of manufactured goods no advance in price would be apparent, the reduction in the cost of production being in more than an equal proportion. In ordinary times agricultural operations escape in a great degree the influence of industrial progress; but within the last ten years, that is to say, since the repeal of the Corn Laws, which nearly synchronized with the gold discoveries, - the spirit of improvement has been as busy in agriculture as in any other department of industry, and in conjunction with importations from foreign countries has acted, and must for some time at least continue to act powerfully upon the price of raw products in this country.

The depreciation of gold, therefore, may be realized either in a corresponding advance of prices, or in the neutralization of a fall which, in the absence of depreciation, would have occurred; but in whatever form it may come to us, our gain or loss as a nation will be the same, and will depend upon the condition I have stated, — the more or less rapid depreciation of our currency as compared with the currencies (convertible, like ours, into gold) of other countries. Whether, the conditions of production remaining unaltered, the depreciation be indicated by a corresponding advance of prices, or, those conditions undergoing improvement, the fall in the value of gold merely operates in neutralizing, as regards price, the effects of the cheapened cost of commodi-

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ed either eutralizaon, would to us, our 11 depend less rapid e currencountries. naltered, dvance of nent, the lizing, as commodities .- in either case the gold price of the products of English labor and abstinence will rise. A given exertion of English industry will reap a larger gold reward than before; and foreign commodities not rising in price in the same degree, the larger gold reward will indicate, over so much of our expenditure as is directed to foreign productions, a real augmentation of well-being. As regards that portion of our expenditure which falls upon the products of our own industry, individuals and classes will, according to circumstances,1 be benefited or injured by the change; but as a nation, we shall neither gain nor lose, since here the increased chcapness of gold will be exactly neutralized, either by a corresponding advance in price, or by the prevention in the same degree of a fall which would otherwise have taken place. It is in this way, by the increased command which she obtains over foreign markets by her cheap gold, - and not, as is commonly supposed, by finding an outlet for her wares in California and Australia, that England will benefit by the gold discoveries. That outlet for her productions, --were the movement to stop here, - however it might benefit individuals, would for the country at large be an injury and not a boon; it would deprive her of that which might conduce to her comfort and happiness, and would give her a "breed of barren metal" in exchange. But the movement does not stop here. The money which she obtains from the gold countries, instead of absorbing, like India or China, she employs in purchasing the goods of other nations. It is in the enlarged command which she acquires over such goods that her gain consists, and it is thus that she indemnifies herself, though at the expense of the nations who ultimately retain the new gold for the loss, the indubitable loss, which she is called on in the first instance to sustain.

¹ On this point see Cairnes, p. 147, et seq.

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FRANCE SOUS LE SECOND EMPIRE.

FROM LEVASSEUR'S HISTOIRE DES CLASSES OUVRIERES EN FRANCE DEPUIS 1789, JUSQU'À NOS JOURS.¹ Vol. 11. PP. 307-321.

D^{EPUIS} quinze ans, trois grand faits économiques ont exercé en France une influence considérable sur la production manufacturière; le développement du crédit, la multiplication des chemins de fer et la réforme douanière.

Il entrait dans les vues du gouvernement de provoquer l'esprit d'entreprise. L'année 1852 vit se former deux établissements d'une nature très-diverse, mais qui tous deux devaient concourir au même but, celui de fournir des capitaux au travail : le Crédit foncier, et le Crédit mobilier.

Le premier, depuis longtemps réclamé par M. Wolowski, se proposait de venir en aide à l'agriculture en avançant sur première hypothèque à la propriété foncière des sommes remboursables par annuités; en réalité, les prêts agricoles, qui augmentent aujourd'hui, ont été les plus lents à se développer, et la nature de sa clientèle l'a fait servir plus à la construction des maisons et aux travaux publics dans les communes qu'à la culture proprement dite: à ce titre, il appartient à l'histoire de l'industrie. Le second, créé et dirigé par M. E. Péreire, est une puissante banque de commandite et de spéculation, non sans analogie avec celles que recommendait le saint-simonisme. Il était destiné par ses statuts à fonder ou à soutenir de grandes entreprises, et il a, en effet, donné naissance aux chemins de fer du Midi, à la compagnie immobilière de Paris, au gaz de Marseille, aux paquebots transatlantiques; il devait être, en raison même de son caractère, très-vivement

¹ Paris : Libraire de L. Hachette et Cie, 1867.

FRANCE SOUS LE SECOND EMPIRE.

affecté par toutes les influences de hausse et de baisse, et sa fortune dépendait entièrement de l'habileté de ses directeurs.

La Banque de France, dont le gouvernement avait le droit de suspendre le privilége en 1855, fut affranchie de cette erainte et autorisée à faire des avances sur dépôt d'actions et d'obligations de chemin de fer:¹ la spéculation en usa largement. Quelques années après, la Banque obtenait par une loi la prorogation de son privilége jusqu'en 1897, aux prix de 100 millions prêtés à l'État et fournis par une émission de nouvelles actions; la Banque pouvait élever le taux de son escompte au-dessus de 6 pour 100, et le gouvernement pouvait exiger, dix ans après la promulgation de la loi, qu'elle eût au moins une succursale par département.²

"Les opérations de la Banque se sont considérablement améliorées," disait le gouverneur, en parlant de la situation en 1852; "le commerce et l'industrie ont repris leur essor." En effet, le montant des opérations s'était élevé d'un milliard et demi, chiffre de 1851, à deux milliards et demi. Le produit des impôts indirects s'était notablement accru; la rente avait dépassé le pair; toutes les valeurs de bourse avaient été emportées dans le même mouvement, et les marchandises, sous la triple impulsion de l'abondance de l'or, d'une consommation plus active, et d'une spéculation audacieuse, enchérissaient chaque jour.

Ce fut l'âge d'or de la Bourse. Londres, qui avait été depuis le commencement du siècle le principal marché des capitaux et des grandes entreprises en Europe, céda le pas à Paris. L'élau était tel qu'il permit au commerce de franchir le choléra, la disette, la guerre d'Orient, et à l'État d'emprunter un milliard et demi sans briser le ressort du crédit. Les capitaux, à peine formés, étaient absorbés; les travaux publics, les emprunts, la disette elle-même, tout y contribuait; on spéculait à la hausse, et les cours s'élevaient.

Cependant les affaires étaient devenues plus difficiles en 1856: le gouvernement crut utile d'enrayer lui-même la spéculation³ et de faire une loi restrictive sur les sociétés en com-

¹ Décret du 28 mars, 1852.

² Loi du 9 juin, 1857.

⁸ Voir au Mon., la note du 9 mars, 1856.

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lolowski, cant sur mes remoles, qui velopper, construcmmunes artient à ar M. E. de spécendait le onder ou né naisnobilière ntiques; ivement mandite par actions.¹ La langueur continua cependant ea 1857, et l'abondance de la récolte rendait inévitable la baisse des denrécs, lorsque, vers le mois d'août, la crise éclata avec violence aux Etats-Unis. Elle se communiqua rapidement à Londres, à Hambourg, à Paris. Quoique moins rudement éprouvée que ses voisines, la France vit, comme elles, les sources du crédit tarir; la spéculation dut liquider, et l'année 1858 fut marquée par une baisse générale des marchandises² et par un ralentissement des transactions.

La guerre d'Italie qui survint l'année suivante, et ses conséquences qui se firent sentir jusqu'en 1862, empêchèrent les affaires de reprendre leur essor jusqu'au jour où le combat d'Aspromonte fit croire à la consolidation du trône de Victor-Emmanuel. Les cours se relevèrent alors, et l'esprit d'entreprise se ranima. Mais une autre cause de malaise pesait déjà sur le marché: la guerre d'Amérique privait l'Europe de coton et réduisait à la misère les districts manufacturiers de l'Angleterre et de la France. Une crise monétaire s'ensuivit; en 1864, l'escompte de la Banque de France monta à 8 pour 100,8 et le gouvernement, sollicité par une pétition de trois cents négociants et par une contrepétition de la Banque, ordonna une enquête sur le régime du crédit. Cette crise s'apaisait à son tour, lorsque éclata la guerre du Danemark, puis la guerre d'Allemagne. Les agitations de la politique, dans le vieux et dans le nouveau monde, contrarient fréquemment, depuis dix ans, le déploiement pacifique des forces du travail marchant à la conquête de la matière.

Une ville a particulièrement souffert, ct souffre aujourd'hui plus que les autres, de la langueur des affaires dont se plaint le commerce. C'est Lyon, dont la nombreuse population ouvrière, dépendant presque tout entière, pour sa subsistance, d'une seule industrie de luxe, est toujours la première à s'affaisser sous le coup des crises et la dernière à se relever.

² Voir, sur cette crise, la Question de l'or, par E. Levasseur.

* Au mols de mai.

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¹ Loi du 17 juillet, 1856. Il s'était formé, en 1852, 21 sociétés de ce gent ; en 1853, 25; en 1854, 36; en 1855, 18; en 1856, 17. Il s'en forma, en 1857, ⁶; 13 en 1858, et 12 en 1859.

FRANCE SOUS LE SECOND EMPIRE.

Elle avait développé ses relations extérieures; la guerre d'Amérique lui a été funeste; de 84 millions en 1858, l'exportation de la soierie est tombée à 11 millions en 1865.¹ Le meilleur remède pour elle serait, à côté de son industrie de luxe, soumise aux caprices de la mode et aux variations de la fortune, la création d'une industrie commune ayant un large débouché.

Néanmoins, malgré les obstacles, le travail a brillamment déplové ses forces.² La Banque de France, dont les escomptes. à Paris, avaient une seule fois atteint 1,829 millions, sous le règne de Louis-Philippe, atteignit de nouveau et dépassa ce chiffre en 1856; en 1865, elle faisait 2,458 millions. Elle était alors devenue la seule banque d'émission et la régulatrice souveraine du crédit en France; les opérations de ses succursales, jointes au chiffre des affaires de Paris, formaient, à la même époque, un total de 7,422 millions, tandis qu'en 1847 les banques départementales et la Banque de France n'atteignaient que 2,075 millions. Dans le même temps, sans que le commerce des banques privées parût diminuer,³ se fondaient d'autres grands établissements, comme la Société générale de crédit industriel et commercial,⁴ la Société de dépôts et de comptes courants,⁵ la Société générale pour favoriser le commerce et l'industrie en France.⁶ L'usage des chèques, autrement dit l'habitude de déposer en banque ses fonds de caisse et de faire ses paiements en mandats, commence, quoique trop lentement, à se naturaliser en France et à mettre une plus grande masse de capitanx à la disposition du crédit.

Parmi les entreprises qui devaient obtenir la faveur, les chemins de fer étaient au premier rang. On avait souvent reproché à la France de s'être laissé devancer par ses voisins, et l'activité imprimée aux constructions durant la seconde moitié du règne de Louis-Philippe par la loi de 1842, s'était

¹ Lettre de M. Arlès Dufour à l'Opinion nationale du 18 octobre, 1866.

² Le progrès des impôts indirects, qui a continué en 1866, est, avec le progrès du commerce extérieur, une preuve que la situation, considérée dans son ensembie, n'a pas empiré depuis un an, malgré la langueur des affaires dans diverses industries.

On prétend toutefois qu'il n'augmente pas.
6 juillet, 1863.

7 mai, 1859.
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et ses conchèrent les le combat de Victorrit d'entreaise pesait it l'Europe ufacturiers Staire s'ennce monta ne pétition tion de la dit. Cette e du Danes de la pocontrarient cifique des natière. ujourd'hui t se plaint population ubsistance, remière à se relever.

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amortie sous la République. Le nouveau gouvernement la ranima.¹ Les capitaux étaient confiants. On en profita pour inaugurer un autre mode de concession. À la construction de la voie par l'État, on substitua la construction par les compagnies que l'on encouragea par une longue jouissance; les baux, avec les nouvelles compagnies et même avec les anciennes, furent la plupart passés ou revisés pour quatrevingt-dix-neuf ans.² On engageait sans doute un plus lointain avenir; mais on faisait immédiatement peser toute la charge sur les capitaux appelés à recueillir les bénéfices les plus directs de l'entreprise; la combinaison était évidemment préférable. Elle n'eût pas été possible dix ans plus tôt.

Les concessions multiples, créant des intérêts divers et parfois hostiles sur un même parcours, étaient un obstacle à la circulation. On les réunit, de manière à former de vastes compagnies qui se partagèrent le domaine du réseau français: ce ne fut pas sans quelques tâtonnements qui fournirent des armes à la spéculation.³ Mais dans l'espace de la première année, 3,000 kilomètres trouvaient des concessionnaires; et, à la fin de la quatrième année, sur une longueur d'environ 5,000 kilomètres, les trains circulaient.

Les grandes artères étaient dessinées et allaient se terminer en peu d'années. Le gouvernement résolut hardiment d'aborder la construction des lignes secondaires et de faire pénétrer la vie commerciale dans tout le corps de la nation, comme les petits vaisseaux font pénétrer le sang jusque dans les chairs de l'homme. Cette fois, le profit ne semblait pas pouvoir de longtemps rémunérer la dépense et d'ailleurs la crise de 1857 avait rendu plus timides les entreprises. Le gouvernement intervint, et, par deux lois successives,⁴ donna des subventions

¹ Le chemin de ceinture avait été écrété dès le 11 décembre 1851. Dans la seule année 1852, 46 décrets furent rendus relativement aux chemins de fer, et 267 kilom. furent livrés à la circulation.

² Les concessions étaient faites pour 99 ans, avec garantie, pour le capital engagé par les Compagnies, d'un minimum d'intérêt de 4% pendant la moitié de ce temps. Queiques concessions furent même faites sans garantie. Cette garantie fut d'ailleurs supprimée pour le premier réseau, lorsque la loi du 11 juin, 1859, accorda une garantie particuiière au second réseau.

² Décrets du 17 janvier, 19 février, 20, 27 mars, 1852.

4 Lois du 11 juin, 1859, et du 11 juin, 1863.

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ou garantit aux capitaux du second réscau, lesquels devaient être fournis par des obligations, un intérêt de 4 pour 100 et l'amortissement en cinquante ans.

C'est ainsi qu'à la fin de l'année 1866, la longueur totale des concessions définitives atteignait 21,050 kilom., et celle des lignes exploitées, 14,506; la dépense faite s'élevait à près de 7 milliards.¹

Les canaux, quoique relégués au second plan, ont été terminés sur plusieurs points, entrepris sur quelques autres,² et sont rentrés, pour la plupart, dans le domaine de l'État,³ qui s'est empressé d'abaisser presque parte at les droits au niveau des frais d'entretien. La navigation des rivières a été améliorée.⁴ Les grandes routes, parallèles aux voies de fer, se trouvaient délaissées ; mais les routes transversales, emportant ou apportant voyageurs et marchandises, que les trains recueillent ou sèment sur leur route, s'animaient.⁵ On a en conséquence redoublé de zèle dans l'application de la loi de 1836 sur les chemins vicinaux,⁶ et une loi nouvelle a encouragé les conseils généraux à construire, aux mêmes conditions, des chemins de fer, qui, à l'exemple de ceux de l'Alsace, formeront un troisième réseau.⁷

La télégraphie électrique, qui était à ses débuts en 1851, a commencé à envelopper de son réseau la France, à la suite du

² La France possédait 4,200 kilom. de canaux en 1848, et, en 1866, 4,500; de plus, 6,900 kil. de rivières navigables. De grands travaux ont été poursuivis. Voir Exp. de la sit. de l'Emp., 1867, Mon., p. 450 et 451.

⁴ Décret du janvier, 1852, et loi du 28 juillet, 1860.

Voir, entre autres, la loi du 14 juillet, 1861.

⁸ De 1848 à 1866 exclusivement, l'État a dépensé pour routes, canaux, ponts, phares, etc., 627 millions.

⁶ Relativement aux chemins de fer, routes, canaux. etc. M. P. Boiteau. Voir Fortune publique et finances de la France, t. I. Le chemins vicinaux ont coûté en 1866, 120 millions, dont un tiers en prestations, en nature.

⁷ C'est en 1850 et 1860 que le conseil général du Bas-Rhin, M. Migneret étant préfet, classa les premiers chemlns de ce genre. — La lol rendue sur la matière est du 12 juillet, 1865. Deux départements (Eure, Saône et Loire), indépendamment du Haut et du Bas-Rhin ont déjà entrepris des chemins de ce genre. 29 autres départements ont décidé en principe des créations du même genre.

¹ On se rappelle qu'à la fin du règne de Louis-Philippe, la dépense effectuée était d'environ 1 milliard 1, et le nombre de kilomètres exploités de 1830.

décret du 6 janvier, 1852; elle couvre aujourd'hui l'Europe;¹ elle fait communiquer les deux mondes et transmet, en France seulement, près de trois millions de dépêches pour le compte des particuliers.² La poste, dont le service a reçu à diverses reprises de notables améliorations, transportait trois fois plus de lettres ou d'imprimés, en 1865 qu'en 1847;³ de nombreuses conventions postales et des conventions monétaires out été signées avec les pays voisins.⁴ Les régions lointaines de l'Asie et de l'Amérique ont été mises en relations régulières avec nos ports par la Compagnie des messageries impériales, qui s'est habilement transformée devant la concurrence des chemins de fer, et par la Compagnie des paquebots transatlantiques dont, vingt ans auparavant, un ministre aurait déjà voulu doter la France.⁵

Les hommes, leurs pensées et leurs produits circulent aujourd'hui en beaucoup plus grande nombre,⁶ avec plus de rapidité et à moins de frais : cette mobilité qui a sensiblement modifié l'économie de la vie privée, et qui modifie les rapports des nations, restera un des caractères distinctifs de la seconde moitié du dix-neuvième siècle.

Avec de pareilles conditions, le commerce extérieur ne pouvait manquer de s'accroître. En 1850, époque à laquelle

¹ Grâce à la convention télégraphique du 17 mai, 1865, "le réseau télégraphique du continent européen est adjourd'hui, dans toutes ses parties sans exception, soumis à des principes et à des règles uniformes." *Exp. de la sit. de l'Emp.*, 1867.

² 2,367,991 dépêches dans les 10 premiers mois de 1866, ce qui suppose environ 2,480,000 pour l'année. Au 1^{er} déc., 1866, il y avait 2,091 bureaux télégraphiques. Des lignes souterraines ont été établies dans quelques grandes villes et des fils d'un diamètre supérieur sur les principales lignes pour prévenir les interruptions de service.

⁸ En 1847, 216 millions; en 1865, 590 millions.

⁴ La convention monétaire du 23 déc., 1865, a établi une monnaie uniforme (mais critiquable à certain égard) entre la France, la Belgique, la Suisse, l'Italie, et commence à constituer ce que M. de Parleu nomme le Münzverein latin.

⁵ Plusieurs autres services ont été établis, Exp. de la sit. de l'Emp., 1867.

⁸ Le nombre des voyageurs des chemins de fer était de 37 millions en 1857, de 84 millions en 1866. Dans cette dernière année, les 84 millions de voyageurs ont fait 3,861 millions de kilomètres, et 34 millions de tonnes ont fait 5,171 millions de kil. Le produit brut a été de 184 millions de francs pour les voyageurs et de 314 millions pour les marchandises. Depuis 1855, le prix moyen kilométrique du transport de la tonne a baissé de 0 fr. à 1,117.

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il avait à peu près retrouvé le niveau de l'année la plus prospère du règne de Louis-Philippe, il était de 2,555 millions. En 1864, il s'élevait à 7,829 millions, c'est-à-dire qu'il a presque triplé dans l'espace de quinze ans.

Si l'on prend la moyenne de chacun des trois lustres qui composent cette période, on constate, non-seulement un progrès, mais une progression constante, à n'envisager que les marchandises importées ou exportées au commerce spécial. La moyenne de 1850-1854 est de 2,294 millions; celle de 1855-1859, de 3,626 millions, et celle de 1860-1864, période pendant laquelle l'abaissement des tarifs français a provoqué la concurrence étrangère, de 4,701 millions et le progrès continué.¹

Il a été plus rapide qu'aux deux époques précédentes de notre histoire contemporaine. Durant les quinze années de la Restauration, notre commerce extérieur avait à peu près doublé; durant les dix-sept années du règne de Louis-Philippe, il avait fait un peu plus que doubler.²

Ce progrès tient à des causes générales et n'est pas un privilége particulier à la France. Dans les établissements de crédit c'est elle qui a donné des exemples à une partie de l'Europe, mais elle n'a fait que suivre à distance l'Angleterre; dans la construction des chemins de fer, elle avait été devancée par plusieurs États. Cependant aucune nation, la Belgique exceptée,³ n'a, depuis quinze ans, plus largement que la France, étendu ses relations extérieurcs. Pendant qu'elle

¹ Ces chiffres, il est vral, sont ceux des valeurs actuelles, c'est-à-dire des prix du marché, et, comme la valeur de l'argent a diminué, ils ne représentent pas une quantité triple de marchandises. L'année 1865, dont on ne connait encore que le c...amerce spécial, a produit 5,981 millions, l'année 1866 produira environ 6,860 millions (a produit 5,308 millions pour les 10 premiers mois); le commerce spécial de 1864 était de 5,452 millions. La navigation s'est accrue comme le reste; 12, 531,504 tonnes en 1854; 17,638,900 tonnes en 1866. La principale augmentation a été pour les ports de Marseille, du Havre, et de Bordeaux.

² En 1815 (très-mauvaise année d'ailleurs), 621 millions; en 1830, 1,211 millions; en 1847, 2,437 millions.

⁸ Belgique, en 1835, 858 millions de francs, et, en 1847, 584; en 1850, 618 millions, et, en 1864, 2,432 millions; ce qui fait environ 500 fr. par habitant. En France, la proportion n'est pas tout à fait de 200 fr. par habitant. Elle est en Angleterre de 366 fr.

Europe ;¹ a France b compte diverses fois plus nbreuses ont été de l'Asie eres avec iales, qui des cheansatlanrait déjà

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e uniforme sse, l'Italie, latin. , 1867. ns en 1857. voyageure 5,171 milvoyageure en kiloméen triplait le chiffre, la plupart des pays commerçants, et l'Angleterre en particulier, doublaient seulement le leur; il est juste de noter toutefois que ce doublement, en Angleterre, portait son chiffre à 11 milliards.¹

Il reste à dire quelles lois ont favorisé cette extension du commerce et régissent aujourd'hui le travail.

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LES TRAITÉS DE COMMERCE.

Quelques jours après la proclamation de l'Empire, le séna tus-consulte du 25 décembre 1852 interprétait et étendait les prérogatives du souverain en matière de traités de commerce, en déclarant qu'ils auraient "force de loi pour les modifications de tarif qui y sont stipulées," c'est-à-dire que le Corps législatif n'aurait plus le droit de les ratifier ou de les annuler par son vote. Ce pouvoir, remis au chef de l'État, pouvait, en dehors des considérations politiques, inquiéter certains intérêts; le président du Sénat, dans son rapport, s'appliqua à les rassurer en se prononçant contre les théories de la liberté commerciale.

Cependant la récolte de 1853 fut mauvaise. L'importation seule pouvait combler le déficit. Le gouvernement, pour l'encourager, n'hésita pas à abaisser toutes les barrières de la douane; il décréta la suspension de l'échelle mobile,² l'exemption du droit de tounage et de la surtaxe de pavillon pour les navires chargés de substances alimentaires,³ l'abaissement du droit sur les bestiaux.⁴ Ce n'étaient que des mesures temporaires; mais elles semblaient indiquer un esprit nouveau.

¹ En 1854 (première année où la statistique ait donné les valeurs), 268 millions de livres sterling, et, en 1864, 435 millions (soit environ 10 milliards, 000 millions). En 1830, une statistique anglaise (voir les Annales du commerce extérieur) donnait 120 millions: il y aurait donc eu à peu près doublement de 1830 à 1850. Pays-Bas, en 1832, 471 millions de francs; en 1860, 1,079; en 1864, 1,904. Russie, en 1850, 192 millions de roubles; en 1863, 306 millions. États-Unis, en 1831, environ 184 millions de dollars; en 1861, 412 millions en 1860, 762 millions.

² Décret du 18 août, 1853. Cette réforme était alors demandée par le conseil municipal de Marseille et par le conseil général de l'Hérault que présidsil M. Michel Chevalier.

⁸ Déc. du 8 août, 1853.

⁴ Déc. du 14 septembre, 1853. — Les droits sur bœufs et taureaux étaient réduits de 50 fr. à 3 fr.

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> 8 millions , 900 mil *extérieur*) 30 à 1850. (54, 1,904. -Unis, en 1860, 762

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Dans les deux camps opposés on s'émut. M. Jean Dollfus entreprit une campagne contre la prohibition des fils de coton. Le débat fut porté successivement devant la Société industrielle de Mulhouse, devant le Conseil supérieur du commerce, et dans le cabinet de l'Empereur : M. Dollfus attaqua, M.M. Feray d'Essonne et Seillière défendirent le système protecteur. Le tarif des cotons ne subit qu'une modification légère ;¹ mais déjà un décret, plus significatif, changeait les zones d'entrée nour la houille et diminuait, de moitié environ, le droit sur les fers.² Deux ans après, nouvelle réduction, et, comme conséquence, abaissement du droit sur le fer-blanc, le fil de fer, la vieille ferraille, et les machines.⁸ L'année 1855 était marquée, en outre, par le retranchement de près de 200 articles sans importance, tels que les yeux d'écrevisse ou le gui de chêne, qui allongeaient le tarif sans profit pour le Trésor,4 et par une diminution importante du droit sur les laines et les peaux brutes.⁵ La tendance du gouvernement s'accusait avec plus de netteté.

L'Exposition universelle de Paris venait d'avoir lieu et l'industrie française y avait brillé au premier rang parmi les nations. Dans le but d'épargner aux exposants étrangers là la coûteuse nécessité de remporter leurs produits, et peut-être aussi de tenter une expérience, le prince Napoléon, président de la Commission, avait fait décider que tous les objets exposés, qu'ils fussent prohibés ou non, pourraient étre vendus et admis exceptionnellement en France en payant un droit de $22 p. 100.^6$ Or, sur un total d'environ 22 millions de richesses étrangères, qui avaient été, pendant plusieurs mois, étalées sous les yeux d'un public si nombreux, 2 millions $\frac{1}{2}$ seulement avaient trouvé des acheteurs français.⁷ L'industrie française n'était donc pas aussi incapable de lutter contre la concurrence du dehors que le proclamaient les parties intéressées.

¹ Voir le décret du 28 décembre, 1853.

² Déc. du 22 novembre, 1853. — La diminution sur l'acier fondu était même beaucoup plus forte. de 132 fr. à 3 fr.

¹ Déc. du septembre, 1855. ⁴ Déc. du 16 juillet, 1855.

⁵ Déc. du 17 janvier et du 10 décembre, 1855.

6 Déc. du 6 avril, 1854.

1 Voir Journ. des Econ., 2º série, t. xi. p. 471.

"L'observation qui m'a frappé tout d'abord," disait le prince Napoléon dans son rapport, "c'est que de ces grands concours jaillit une fois de plus la preuve que les sociétés modernes marchent vers la liberté." Déjà le gouvernement, désireux de développer "les relations internationales qui préparent le progrès de la civilisation," avait présenté au Corps législatif "un projet levant toutes les prohibitions." Pour la première fois peut-être, il avait rencontré une résistance qui l'avait d'autant plus étonné qu'elle était plus rare et qu'elle cherchait à prendre son point d'appui, hors de l'assemblée, dans l'agitation des villes manufacturières. Il retira le projet, en annoncant qu'une nouvelle loi était mise à l'étude, et que la levée des prohibitions n'aurait lieu qu'à partir du 1er juillet, 1861. "L'industrie française, prévenue des intentions bien arrêtées du gouvernement, ajoutait le Moniteur, aura tout le temps nécessaire pour se préparer à un nouveau régime commercial.¹

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Durant trois ans, le silence se fit sur cette grave question.² D'ailleurs vers la fin de 1857, une crise terrible avait désarçonné la spéculation et fait momentanément refluer en baisse le prix, sans cesse montant depuis 1852, des denrées, des matières premières, et, par suite, des objets manufacturés ; la reprise des travaux avait été suspendue en 1859 par la guerre d'Italie.

Le commerce commençait à peine à retrouver son équilibre, lorsque, le 15 janvier 1860, le *Moniteur* publia la lettre que l'Empereur avait, quelques jours auparavant, écrite à son ministre des finances.³ C'était un vaste programme économique dont le but était "d'imprimer un grand essor aux diverses branches de la richesse nationale," et que son auteur résumait en ces termes : —

"Suppression des droits sur la laine et les cotons;

"Réduction successive sur les sucres et les cafés;

"Amélioration énergiquement poursuivie des voies de comnunication.

"Réduction des droits sur les canaux, et, par suite, abaissement général des frais de transport;

- ¹ Moniteur du 17 octobre, 1858.
- ² Cependant plusieurs décrets importants furent rendus.
- Lettre du 5 janvier, 1860.

"Prêts à l'agriculture et à l'industrie;

"Suppression des prohibitions;

"Traité de commerce avec les puissances étrangères."

"Par ces mesures," ajoutait l'Empereur, "l'agriculture trouvera l'écoulement de ses produits; l'industrie, affranchie d'entraves extérieures, aidée par le gouvernement, stimulée par la concurrence, luttera avantageusement avec les produits étrangers, et notre commerce, au lieu de languir, prendra un nouvel essor."

La pensée du gouvernement, sur ce point, se relevait tout entière. Il était impossible qu'issu du suffrage universel et dégagé des liens qui avaient arrêté ses prédécesseurs, il consentit à meintenir dans son intégrité le système prohibitif que les gouvernements précédents eux-mêmes n'avaient créé ou conservé aussi rigoureux que par la nécessité de compter avec de puissantes influences; mais il cût pu se faire qu'un autre souverain embrassât moins résolûment un moins vaste ensemble. Quoi qu'il en soit, depuis le décret de Berlin, aucun fait aussi considérable ne s'était produit dans l'histoire de notre législation douanière.

Déjà étaient arrêtés les articles du plus important traité de commerce que pût signer la France, de celui qui devait la lier à sa rivale la plus redoutée. Le héros de la ligue anglaise, Richard Cobden, et M. Michel Chevalier, qui, depuis 1852, faisait à chaque session du Conseil général de l'Hérault, voter un manifeste en faveur de la liberté commerciale, en avaient eu les premiers la pensée, et avaient trouvé des dispositions favorables dans le ministère anglais et à la cour des Tuileries. Au lendemain de la paix de Villafranca et à la veille du traité de Turin, l'Empereur, désireux de serrer les nœuds pacifiques de la France et de l'Angleterre, approuva un projet qui répondait aux besoins de sa politique extérieure comme à ses vues de réformes économiques, et dès la fin de novembre, 1859, les négociations préliminaires, conduites avec le plus grand secret par M. Rouher, ministre du commerce, et par les deux économistes, étaient terminées. Ce fut par la lettre du 5 janvier que la France apprit qu'elle entrait dans une nouvelle ère industrielle. Le 23 du même mois, le traité était signé.

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Les prohibitions étaient supprimées. Les marchandises anglaises entreraient en France en payant un droit *ad valorem*, qui serait bientôt converti en droit spécifique, et qui n'excéderait pas 30 pour 100 au début, 25 pour 100 à partir de l'aunée 1864. La Grande-Bretagne, de son côté, admettait en pleine franchise nos produits, qui payaient encore pour la plupart un droit de 10 pour 100, et ne prélevait plus qu'une taxe variable de 1 à 2 schellings sur nos vins, et de 8 schellings 5 pence sur nos eaux-de-vie.¹

Le traité du 23 janvier était un type sur lequel on se proposait de réformer toute notre législation douanière, et de régler les rapports commerciaux de la France avec ses voisins. Des négociations furent presque aussitôt entamées; elles ont amené la conclusion de plusieurs traités, d'abord, avec la Belgique,² puis avec la Prusse et le Zollverein,³ puis avec l'Italie et la Suisse,⁴ enfin, en 1865 et 1866, avec les Pays-Bas, les villes hanséatiques, le Mecklembourg, la Suède, l'Espagne, le Portugal, le Pérou, l'Autriche.⁵

Le Corps législatif ne fut saisi de ces réformes qu'après le fait accompli.⁶ Cet usage des droits conférés au souverain par le sénatus-consulte du 25-30 décembre, 1852, eut le regrettable effet de donner à une transformation libérale l'apparence d'un coup d'État commercial, et prêta aux partisans de la protection leur plus solide argument. Le gouvernement tint bon. Dans les discussions successives qu'ont amenées les traités, il s'est appliqué constamment à établir des droits de plus en plus modérés, afin de rendre toujours plus faciles les relations internationales,⁷ et quoique la politique ait rendu

¹ Le traité portait 8 sch. 2 pence; mais le taux fut trouvé insuffisant en Angleterre et porté à 8 sch. 5 p. par un art. addit. du 20 février.

² 10 mai, 1861.

⁸ 24 mars et 2 août, 1862, 10 mai, 1865.

4 17 janvier, 1864, et 30 juin, 1864.

⁵ 7 juin, 1865, 11 mars, 1865, 9 juin, 1865, 4 et 30 juin, 18 juin, 1865, 11 juillet, 1866; 2 déc., 11 déc., 1866. Voir M. Boiteau, Les Traités de commerce et Exposé de la sit. de l'Empire. (Mon. de janv., 1866 et de fév. 1867.)

⁶ La discussion sur les modifications de tarif du traité du 23 janvier ne recommença au Corps législatif que le 28 avril.

⁷ Ainsi, par exemple, les modérations de droits portées dans le traité avec l'Italie, ont été, par décret du 20 janvier, 1864, appliquées à la Belgique et à l'Angleterre.

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vaine darant plusicurs années la Convention avec le Zollverein, la France communique aujourd'hui avec toutes les nations limitrophes de son territoire, sans rencontrer l'obstacle insurmontable de la prohibition, et sans avoir, dans la majorité des cas, à payer autre chose qu'un simple droit de consommation, assez léger en fait, et légitime en principe.

Ces traités avaient fait disparaître les prohibitions. Le système protecteur qu'elles étayaient, et dans lequel de si larges brèches étaient ouvertes, devait nécessairement crouler. Il ne restait au Corps législatif qu'à déblayer le terrain et à rétablir l'harmonie dans les diverses parties de notre Code douanier, en votant les projets que lui présentait le gouvernement. . . .

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XII.

RECENT CHANGES IN TRANSPORTATION AND PRODUCTION.

FROM WELLS' RECENT ECONOMIC CHANGES, PP. 27-65.

7 HEN the historian of the future writes the history of the nineteenth century he will doubtless assign to the period embraced by the life of the generation terminating in 1885 a place of importance, considered in its relations to the interests of humanity, second to but very few, and perhaps to none, of the many similar epochs of time in any of the centuries that have preceded it; inasmuch as all economists who have specially studied this matter are substantially agreed that, within the period named, man in general has attained to such a greater control over the forces of Nature, and has so compassed their use, that he has been able to do far more work in a given time, produce far more product measured by quantity in ratio to a given amount of labor, and reduce the effort necessary to insure a comfortable subsistence in a far greater measure than it was possible for him to accomplish in any previous generation. In the absence of sufficiently complete data, it is not easy, and perhaps not possible, to estimate accurately, and specifically state the average saving in time and labor in the world's work of production and distribution that has been thus achieved. In a few departments of industrial effort the saving in both of these factors has certainly amounted to seventy or eighty per cent; in not a few to more than fifty per cent.¹ Mr. Edward Atkinson, who has made

¹ According to the United States Bureau of Labor (report for 1886), the gain in the power of production in some of the leading industries of the United States "during the past fifteen or twenty years," as measured by the displacement of the muscular labor formerly employed to effect a given result (i.e.

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CHANGES IN TRANSPORTATION.

this matter a special study, considers one third as the minimum average that can be accepted for the period above specified.¹ Other authorities are inclined to assign a considerably higher average. The deductions of Mr. William Fowler, Fellow of University College, London, are to the effect that the saving of labor since 1850 in the production of any given article amounts to forty per cent;² and the British Royal Commission (minority report, 1886) characterizes the amount of labor required to accomplish a given amount of production and transport at the present time as *incomparably* less than was requisite forty years ago, and as "being constantly reduced."

But be this as it may, out of such results as are definitely known and accepted have come tremendous industrial and social disturbances, the extent and effect of which — and more especially of the disturbances which have culminated,

amount of product) has been as follows: In the manufacture of agricultural implements, from fifty to seventy per cent; in the manufacture of shoes, eighty per cent; in the manufacture of carriages, sixty-five per cent; in the manufacture of machines and machinery, forty per cent; in the silk-manufacture, fifty per cent; and so on.

¹ In a print-cloth factory in New England, in which the conditions of production were analyzed by Mr. Atkinson, the product per hand was found by him to have advanced from 20,531 yards, representing 3,362 hours' work in 1871, to 32,391 yards, representing 2,095 hours' work, in 1884, — an increase of twenty-two per cent in product, and a decrease of twenty per cent in hours of labor. Converted into cloth of their own product, the wages of the operatives in this same mill would have yielded them 6,205 yards in 1871, as compared with 9,737 yards in 1884, — an increase of 56_{100}^{+00} per cent. During the same period of years the prices of beef, pork, flour, oats, butter, lard, cheese, and wool in the United States declined more than twenty-five per cent.

A like investigation by the same authority of an iron-furnace in Pennsylvania showed that, comparing the results of the five years from 1860 to 1864 with the five years from 1875 to 1879, the product per hand advanced from 776 tons to 1,219 tons; that the gross value of the product remained about the same; that the number of hands was reduced from seventy-six to seventy-one; and that consumers gained a benefit of reduction in price from \$27.95 per ton to \$19.98.

² Wages have greatly increased, but the cost of doing a given amount of work has greatly decreased, so that five men can now do the work which would have demanded the labor of eight men in 1850. If this be correct, the saving of labor is forty per cent in producing any given article. — Appreciation of Gold, WILLIAM FOWLER, Fellow of University College, London, 1886.

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as it were, in later years — it is not easy to appreciate without the presentation and consideration of certain typical and specific examples. To a selection of such examples, out of a large number that are available, attention is accordingly next invited.

Let us go back, in the first instance, to the year 1869, when an event occurred which was probably productive of more immediate and scrious economic changes - industrial, commercial, and financial - than any other event of this century, a period of extensive war excepted. That was the opening of the Sucz Canal. Before that time, and since the discovery by Vasco da Gama, in 1498, of the route to India by the Cape of Good Hope, all the trade of the Western hemispheres with the Indies and the East toiled slowly and uncertainly around the Cape, at an expenditure in time of from six to eight months for the round voyage. The contingencies attendant upon such lengthened voyages and service, as the possible interruption of commerce by war, or failure of crops in remote countries, which could not easily be anticipated, required that vast stores of Indian and Chinese products should be always kept on hand at the one spot in Europe where the consumers of such commodifies could speedily supply themselves with any article they required; and that spot, by reason of geographical position and commercial advantage, was England. Out of this condition of affairs came naturally a vast system of warehousing in and distribution from England, and of British banking and exchange. Then came the opening of the canal. What were the results? The old transportation had been performed by ships, mainly sailing-vessels, fitted to go round the Cape, and, as such ships were not adapted to the Suez Canal, an amount of tonnage, estimated by some authorities as high as two million tons, and representing an immense amount of wealth, was virtually destroyed.¹ The voyage, in place of occupying

"The canal may therefore be said to have given a death-blow to sailing vessels, except for a few special purposes." — From a paper by Charles Msgniac, indorsed by the "London Economist" as a merchant of eminence and experience, entitled to speak with authority, read before the Indian Section of the London Society of Arts, February, 1876.

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from six to eight months, has been so greatly reduced that steamers adapted to the canal now make the voyage from London to Calcutta, or vice versa, in less than thirty days. The notable destruction or great impairment in the value of ships consequent upon the construction of the canal did not. furthermore, terminate with its immediate opening and use; for improvements in marine engines, diminishing the consumption of coal, and so enabling vessels to be not only sailed at less cost, but to carry also more cargo, were, in consequence of demand for quick and cheap service, so rapidly effected that the numerous and expensive steamer constructions of 1870-73, being unable to compete with the constructions of the next two years, were nearly all displaced in 1875-76, and sold for half, or less than half, of their original cost. And within another decade these same improved steamers of 1875-76 have, in turn, been discarded and sold at small prices, as unfit for the service of lines having an established trade, and replaced with vessels fitted with the triple-expansion engines, and saving nearly fifty per cent in the consumption of fuel. And now "quadruple-expansion" engines are beginning to be introduced, and their tendency to supplant the "triple expansion" is "unmistakable."

In all commercial history, probably no more striking illustration can be found of the economic principle that nothing marks more clearly the rate of material progress than the rapidity with which that which is old and has been considered wealth is destroyed by the results of new inventions and discoveries.¹

Again, with the reduction of the time of the voyage to the East by the Suez Canal to thirty days or less, and with telegraphic communication between India and China and the markets of the Western world, permitting the dealers and consumers of the latter to adjust to a nicety their supplies

¹ In the last analysis it will appear that there is no such thing as fixed capital; there is nothing useful that is very old except the preclous metals, and all life consists in the conversion of forces. The only capital which is of permanent value is immaterial, — the experience of generations and the development of science. — EDWARD ATKINSON.

of commodities to varying demands, there was no longer any necessity of laying up great stores of Eastern commodities in Europe ; and with the termination of this necessity, the India warehouse and distribution system of England, with all the labor and all the capital and banking incident to it, substantially passed away. Europe, and to some extent the United States, ceased to go to England for its supplies. If Austria wants anything of Indian product, it stops en route, by the Suez Canal, at Trieste; if Italy, at Venice or Genoa; if France, at Marscilles; if Spain, at Cadiz. How great has been the disturbance thus occasioned in British trade is shown by the following figures: In 1871 the total exports of India were £57,556,000, of which £30,737,000 went to the United Kingdom; but in 1885, on a total Indian export of £85,087,000. the United Kingdom received only £31,882,000. During the same time the relative loss on British exports to India was less than a million and a half sterling.

As à rule, also, stocks of Indian produce are now kept, not only in the countries, but at the very localities of their production, and are there drawn upon as they are wanted for immediate consumption, with a greatly reduced employment of the former numerous and expensive intermediate agencies.¹ Thus a Calcutta merchant or commission agent at any of the world's great centres of commerce contracts through a clerk and the telegraph with a manufacturer in any country—it may be half round the globe removed — to sell him jute, cotton, hides, spices, cutch, linseed, or other like Indian produce. An inevitable steamer is sure to be in an Eastern port, ready

¹ In illustration of this curious point, attention is asked to the following extract from a review of the trade of British India, for the year 1886, from the "Times," of India, published at Bombay: "What the mercantile community"—I. e., of Bombay—" has suffered and is suffering from, is the very narrow margin which now exists between the producer and consumer. Twenty years ago the large importing houses held stocks, but nowadays nearly everything is sold to arrive, or bought in execution of native orders, and the bazar dealers, instead of European importers, have become the holders of stocks. The cable and canal have to answer for the transformation; while the esse with which funds can be secured at home by individuals absolutely destinue of all knowledge of the trade, and minus the capital to work it, has resulted in the diminution of profits both to importers and to bazaar dealers."

CHANGES IN TRANSPORTATION.

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o the following 1886, from the cantile commuis the very nermer. Twenty a nearly everyand the bezaar ders of stock. while the ease intely destitute has resulted in to sail upon short notice; the merchandise wanted is bought by telegraph, hurried on board the ship, and the agent draws for the price agreed upon, through some bank, with the shipping documents. In four weeks, in the case of England, and a lesser time for countries intermediate, the shipment arrives; the manufacturer pays the bill, either with his own money or his banker's; and, before another week is out, the cotton and the jute are going through the factory; the linseed has been converted into oil, and the hides in the tannery are being transformed into leather.

Importations of East Indian produce are also no longer confined in England and other countries to a special class of merchants; and so generally has this former large and special department of trade been broken up and dispersed that extensive retail grocers in the larger cities of Europe and the United States are now reported as drawing their supplies direct from native dealers in both China and India.

Another curious and recent result of the Suez Canal construction, operating in a quarter and upon an industry that could not well have been anticipated, has been its effect on an important department of Italian agriculture, - namely, the culture of rice. This cereal has for many years been a staple crop of Italy, and a leading article of Italian export, - the total export for the year 1881 having amounted to 83,598 tons, or 167,196,000 pounds. Since the year 1878, however, rice grown in Burmah, and other parts of the far East, has been imported into Italy and other countries of Southern Europe in such enormous and continually increasing quantities, and at such rates, as to excite great apprehensions among the growers of Italian rice, and largely diminish its exportation, - the imports of Eastern rice into Italy alone having increased from 11,957 tons in 1878 to 58,095 tons in 1887. For France, Italy, and other Mediterranean ports east, the importation of rice from Southern Asia (mainly from Burmah) was 152,147 tons in 1887, as compared with about 20,000 tons in 1878.

That the same causes are also exerting a like influence upon the marketing of the cereal crops of the United States is shown by the circumstance that the freight rates on the transport of grain from Bombay to England, by way of the Suez Canal, declined from 32.5 cents per bushel in 1880, to 16.2 cents in 1885; and, to the extent of this decline, the ability of the Indian ryot to compete with the American grain-grower, in the markets of Europe, was increased.

How great was the disturbance occasioned in the general prices of the commodities that make up Eastern commerce by the opening of the Sucz Canal, and how quickly prices responded to the introduction of improvements in distribution. is illustrated by the following experience: The value of the total trade of India with foreign countries, exclusive of its coasting-trade, was estimated, at the time of the opening of the canal in 1869, at £105,500,000 (\$527,500,000). In 1874, however, the value was estimated at only £95,500,000, or at a reduction of ten per cent; and the inference might naturally have been that such a large reduction as ten millions sterling (\$50,000,000) in five years, with a concurrent increase in the world's population, could only indicate a reduction of quanti-But that such was not the case was shown by the fact ties. that 250,000 tons more shipping (mainly steam, and therefore equivalent to at least 500,000 more tons of sail) was cmployed in transporting commodities between India and foreign countries in 1874 than in 1869; or, that while the value of the trade, through a reduction of prices had notably declined during this period, the quantities entering into trade had so greatly increased during the same time that 250,000 tons more shipping were required to convey it.

In short, the construction of the Suez Canal completely revolutionized one of the greatest departments of the world's commerce and business; absolutely destroying an immense amount of what had previously been wealth, and displacing or changing the employment of millions of capital and thousands of men; or, as the London "Economist" has expressed it, "so altered and so twisted many of the existing modes and channels of business as to create mischief and confusion" to an extent sufficient to constitute one great general cause for a universal commercial and industrial depression and disturbance.

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The deductions from the most recent tonnage statistics of Great Britain come properly next in order for consideration. During the ten years from 1870 to 1880, inclusive, the British mcrcantile marine increased its movement, in the matter of foreign entries and clearances alone, to the extent of 22,000,-000 tons; or, to put it more simply, the British mercantile marine exclusively engaged in foreign trade did so much more work within the period named; and yet the number of men who were employed ir effecting this great movement had decreased in 1880, as compared with 1870, to the extent of about three thousand (2,990 exactly). What did it? The introduction of steam-hoisting machines and grain-elevators upon the wharves and docks, and the employment of steam-power upon the vessels for steering, raising the sails and anchors, pumping, and discharging the cargo; or, in other words, the ability, through the increased use of steam and improved machinery, to carry larger cargoes in a shorter time, with no increase - or, rather, an actual decrease - of the number of men employed in sailing or managing the vessels.

Statistical investigations of a later date furnish even more striking illustrations to the same effect from this industrial specialty. Thus, for 1870, the number of hands (exclusive of masters) employed to every one thousand tons capacity, entered or cleared of the British steam mercantile marine, is reported to have been forty-seven, but in 1885 it was only 27.7; or seventy per cent more manual labor was required in 1870 than in 1885 to do the same work. In sailing-vessels the change, owing to a lesser degree of improvement in the details of navigation, has been naturally smaller, but nevertheless considerable; twenty-seven hands being required in 1885 as against thirty-five in 1870 for the same tonnage entered or cleared.¹ Another fact of interest is, that the recent increase in the proportion of large vessels constructed has so

¹ The official statistics do not show in the British mercantile marine whether the economy of labor which was effected prior to 1886 has continued to be progressive; inasmuch as the totals for 1886-88 include Lascars and Asiatics under Asiatic articles of agreement; allowing for this, however, the proportion of men employed to every one thousand tons of shipping was considerably smaller in the years 1886-87 than in 1884-85.

greatly increased the efficiency of shipping, and so cheapened the cost of sea-carriage, to the advantage of both producers and consumers, that much business that was before impossible has become quite possible. Of the total British tonnage constructed in 1870, only six per cent was of vessels in excess of two thousand tons burden; but in 1884 fully seventeen per cent was of vessels of that size, or larger. Meanwhile, the cost of new iron (or steel) ships has been greatly reduced; from \$90 per ton in 1872-74 to \$65 in 1877, \$57 in 1880, while in 1887 first-class freighting screw-steamers, constructed of steel, fitted with triple compound engines, with largely increased carrying capacity (in comparison with former iron construction) and consequent earning power, and capable of being worked at less expense, could have been furnished for \$33.95 per ton.¹

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¹ The following is a copy of a circular issued in October, 1887, by the representatives in New York of a well-known iron-ship-building firm at Newcastleon-Tyne, England : —

"Inviting your attention to the inclosed particulars of two steel screw freight steamers building to our order, by the well-known builders, Messrs. —, of Newcastle-on-Tyne, we beg to give you some additional details:

"The contract price is £84,250 each, which is just about £6 17s. (six pounds seventeen shillings sterling) a ton dead-weight capacity, and including all expenses up to time of delivery, will not exceed £7 a ton dead-weight, or at present rate of exchange, \$38.95 American money.

"Thus it will be seen that as regards the cost of these vessels, while of large carrying capacity and consequent earning power, and fitted as they will be with engines of the newest type and with all modern appliances which have been tried and found conducive to quick and economical working (while avoiding all innovations of an experimental character), the present price of not over \pounds per ton, dead-weight capacity, as against \pounds 12 to \pounds 18 a few years ago, renders the difference in values relatively even greater than appears at first sight."

A brief examination of what is embraced in the construction of these vessels is not a little interesting and instructive, especially to those who recall what was deemed but a comparatively few years ago the very best conditions for ocean steam navigation: Triple-expansion engines — three cylinders — of the latest and most approved type. Horse-power, 1,700. Propeller shifting blades and spare set; each part of engines interchangeable. Two donble-ended steel boilers, in the corrugated furnaces, to work at one hundred and fifty pounds pressure. Four steam winches of most approved pattern and large power. Steam steering-gear forward, and powerful inand-gear aft. Patent stockless anchors, working direct into hawser pipes, effecting great saving in time, labor, and gear. Water-ballast in double bottom. Lighthouses on forecastle. Decks of steel throughout; height, seven feet, nine inches, being the suitable height

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Prior to about the year 1875 ocean stcamships had not been formidable as freight-carriers. The marine engine was too heavy, occupied too much space, consumed too much coal. For transportation of passengers, and of freight having large value in small space, they were satisfactory; but for performing a general carrying-trade of the heavy and bulky articles of commerce they were not satisfactory. A steamer of the old kind, capable of carrying three thousand tons, might sail on a voyage so long that she would be compelled to carry twenty-two hundred tons of coal, leaving room for only eight hundred tons of freight; whereas, at the present time, a steamer with the compound engines and all other modern improvements can make the same voyage and practically reverse the figures, - that is, carry twenty-two hundred tons of freight with a consumption of only eight hundred tons of coal. The result of the construction and use of compound engines in economizing coal has been illustrated by Sir Lyon Playfair by the statement that "a small cake of coal, which would pass through a ring the size of a shilling when burned in the compound engine of a modern steamboat would drive a ton of food and its proportion of the ship two miles on its way from a foreign port." Another calculator, says the London "Engineer," has computed that half a sheet of note-paper will develop sufficient power, when burned in connection with the triple-expansion engine, to carry a ton a mile in an Atlantic steamer. How, under such circumstances, the charge for seafreights on articles of comparatively high value has been reduced, is shown by the fact that the ocean transport of fresh meats from New York to Liverpool does not exceed one cent $(\frac{1}{2}d)$ per pound; and including commissions, insurance, and all other items of charge, does not exceed two cents (1d.) per

for passengers, horses and cattle. Ventilation of holds specially provided through automatic exhaustion by means of the funnel. Hatches of large dimensions capable of taking in locomotives or other large pieces of machinery. Six steel bulkheads, with longitudinal bulkheads throughout holds and between decks. Coal consumption twenty-two tons per day. Coal-bunkers sufficient for forty days' steaming; outfit in sails, steel hawsers, oil and water tanks, loading and discharging gear, cutlery, plate, china, and glass, and optician's stores all of the best makers and full supply.

Boxed meats have also been carried from Chicago to pound. London as a regular business for fifty cents per 100 pounds. In 1860 6d. (twelve cents) per bushel was about the lowest rate charged for any length of time for the transportation of bulk grain from New York to Liverpool, and for a part of that year the rate ran up as high at 131d. (twenty-seven cents) per bushel. But for the year 1886 the average rate for the same service was 21d. (five cents) per bushel ; while in April, 1888. the rate on grain from New York to Liverpool by steam declined to as low a figure as $\frac{1}{2}d$. per bushel of sixty pounds: ad. to Antwerp, and 1d. to Glasgow. It seems almost needless to add that these rates were much below the actual cost of carriage. In like manner, the cost of the ocean transportation of tea from China and Japan, or sugar from Cuba, or coffee from Brazil, has been greatly reduced by the same causes.

The above are examples on a large scale of the disturbing influence of the recent application of steam to maritime industries. The following is an example drawn from comparatively one of the smallest of the world's industries, prosecuted in one of the most out-of-the-way places : The seal-fishery is a most important industrial occupation and source of subsistence to the poor and scant population of Newfoundland. Originally it was prosecuted in small sailing-vessels, and upward of a hundred of such craft, employing a large number of men, annually left the port of St. John's for the seal-hunt. Now few or no sailing-vessels engage in the business; steamers have been substituted, and the same number of scals are taken with half the number of men that were formerly needed. The consequence is, a diminished opportunity for a population of few resources, and to obtain "a berth for the ice," as it is termed, is considered as a favor.

Is it, therefore, to be wondered at that the sailing-vessel is fast disappearing from the occan;¹ that good authoritics esti-

¹ The statistics of the world's shipping show that in 1885 there were 25,769 sailing-vessels, of 11.216,618 tons; in 1886 there were 25,155, of 10,411,807 tons; and in 1887 there were 23,310, of 9,820,492. The decrease in two years was therefore, 1,896,123, or 12.4 per cent.

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mated in 1886 that the tonnage then afloat was about twentyfive per cent in excess of all that was needed to do the then carrying-trade of the world; and that ship-owners everywhere were unanimously of the opinion that the depression of industry was universal?

[During the year 1888, from causes that must be regarded as exceptional (and which will be hereafter noticed), an increased demand for shipping accommodation suddenly sprang up, and which, not being readily supplied, was followed by an almost continued advance in freight rates, until in many directions — i. o., in the Russian grain and Eastern trade — the rise was equal to one hundred per cent advance upon the rates current in 1887 and the early months of 1888. This condition of affairs in turn gave a great impulse to ship-building, especially in Great Britain, where the construction for 1888 amounted to 903,687 tons, as against 637,000 in 1887; an extent of annual increase that, except in two instances, has never been exceeded. The additional tonnage thus supplied proving in excess of the world's demand, the advance in freights' in 1888 was in a great measure lost in the first six months of 1889.]

Great, however, as has been the revolution in respect to economy and efficiency in the carrying-trade upon the ocean, the revolution in the carrying-trade upon land during the same period has been even greater and more remarkable. Taking the American railroads in general as representative of the railroad system of the world, the average charge for moving one ton of freight per mile has been reduced from about 2.5 cents in 1869 to 1.06 in 1887; or, taking the results on one of the standard roads of the United States (the New York Central), from 1.95 in 1869 to 0.68 in 1885.¹ To grasp fully the meaning and significance of these figures, their method of presentation may be varied by saying that two thousand pounds of ceal, iron, wheat, cotton, or other commodities, can now be

Phicago to O pounds. he lowest rtation of urt of that cents) per the same pril, 1888, steam dey pounds; nost neednetual cost n transporrom Cuba, the same

disturbing aritime inn comparaprosecuted fishery is a of subsisfoundland. Is, and upnumber of seal-hunt. ss; steamscals are ly needed. population ," as it is

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were 25,766 \$11,807 tons; vo years was

¹ On certain of the railroads of the United States an even lower average rate of freight has been reported. Thus, for the year 1886 the Michigan Central Railroad reported 0.56 cent as their average rate per ton per mile for that year, and the Lake Shore and Michigan Southern Railroad 0.55 cent for like service.

carried on the best managed railways for a distance of one mile for a sum so small that outside of China it would be difficult to find a coin of equivalent value to give to a boy as a reward for carrying an ounce package across a street, even if a man or boy could be found in Europe or the United States willing to give or accept so small a compensation for such a service.

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The following ingenious method of illustrating the same results has been also suggested : The number of miles of railroad in operation in various parts of the world in 1885 was probably about 300,000.¹ Reckoning their capacity for transportation at a rate not greater than the results actually achieved in that same year in the United States, it would appear that the aggregate railroad system of the world could easily have performed work in 1885 equivalent to transporting 120,000,000,000 tons one mile. "But if it is next considered that it is a fair day's work for an ordinary horse to haul a ton 6.7 miles, year in and year out, it further appears that the railways have added to the power of the human race, for the satis faction of its desires by the cheapening of products, a force somewhat greater than that of a horse working twelve days yearly for every inhabitant of the globe."

In the year 1887 the freight-transportation by the railroads of the United States (according to Poor's "Manual") was equivalent to 60,061,069,996 tons carried one mile ; while the population for that year was somewhat in excess of 60,000,000. The railroad freight service of the United States for 1887 was therefore equivalent to carrying a thousand tons one mile for every person, or every ton a thousand miles. The average cost of this service was about \$10 per annum for every person. But if it had been entirely performed by horse-power, even under the most favorable of old-time conditions, its cost would have been about \$200 to each inhabitant, which in turn would represent an expenditure greater than the entire value of the then annual product of the country; or, in other words, all

¹ The world's railway mileage for January, 1889, was probably in excess of 370,000 miles. At the same date the telegraph system of the world comprised at least 1,000,000 miles of length of line.

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that the people of the United States earned in 1887 would not pay the cost of transportation alone of the amount of such service rendered in that year, had it been performed by horsepower exclusively.¹

Less than half a century ago, the railroad was practically unknown.² It is, therefore, within that short period that this enormous power has been placed at the disposal of every inhabitant of the globe for the cheapening of transportation to him of the products of other people and countries, and for enabling him to market or exchange to better advantage the results of his own labor or services. As the extension of the railway system has, however, not been equal in all parts of the world - less than thirty thousand miles existing, at the close of 1887, in Asia, Africa, and Australia combined its accruing benefits have not, of course, been equal. And while all the inhabitants of the globe have undoubtedly been profited in a degree, by far the greater part of the enormous additions that have been made to the world's working force through the railroad since 1840, have accrued to the benefit of the people of the United States, and of Europe, — exclusive of Russia, Turkey, and the former Turkish provinces of southeastern Europe, --- a number not much exceeding two hundred millions, or not a quarter part of the entire population of the globe. The result of this economic change has therefore been to broaden and deepen rather than diminish the line of separation between the civilized and the semi-civilized and barbarous nations.

Now, while a multiplicity of inventions and of experiences have contributed to the attainment of such results under this railroad system of transportation, the discovery of a method

¹ One further interesting corollary of this exhibit is that the average return, in the form of interest and dividends, on the enormous amount of capital which has been actually expended in order that the present railway service in the United States may be performed, cannot be estimated as in excess of four per cent per annum as a maximum.

² As late as 1840 there were in operation only about 2,860 miles of railway in America, and 2,130 in Europe, or a total of 4,900 miles. For practical purposes, it may therefore be said that the world's railway system did not then exist; while its organization and correspondence for doing full and efficient work must be referred to a much later period.

of making steel cheap was the one thing which was absolutely essential to make them finally possible ; inasmuch as the cost of frequently replacing rails of iron would have entailed such a burden of expenditure on to have rendered the present cheapness of railway sportation utterly unattainable. Note, therefore, how raped y improvements in processes have followed the discovery of Bessemer, until, on the score of relative first cost alone, it has become economical to substitute steel for iron in railroad construction. In 1873 Bessemer steel in England, where its price has not been enhanced by protective dutics, commanded \$80 per ton; in 1886 it was profitably manufactured and sold in the same country for less than \$20 per ton !1 Within the same time the annual producing capacity of a Bessemer converter has been increased fourfold, with no increase but rather a diminution of the involved labor; and, by the Gilchrist-Thomas process, four men can now make a given product of steel in the same time and with less cost of material than it took ten men ten years ago to accomplish. A ton of steel rails can now also be made with five thousand pounds of coal, as compared with ten thousand pounds in 1868.

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"The importance of the Bessemer invention of steel can be best understood by looking at the world's production of that metal in 1887. The production of Bessemer steel in the eight chief iron and steel producing countries of the world amounted in that year to 7,269,767 tons, as compared with 6,034,115 tons in 1886, showing an increase of 1,260,094 tons, or twenty per cent. The saving effected by railway companies by the use of Bessemer metal and the additional security gained thereby is shown by the fact that a locomotive on the Great Northern Railway has accom-

¹ The average price of iron rails in Great Britain for the year 1883 was ± 5 per ton; steel rails in the same market sold in 1866 for ± 4 5s. per ton; and in 1887 sales of steel rails were made in Belgium for ± 3 16s. (± 18.75) per ton, de liverable at the works. The average price of steel rails in Pennsylvania (U.S.) at the works, for 1886, with a tariff on imports of ± 17 per ton, was $\pm 34\frac{1}{2}$ per ton. Since the beginning of 1888 the manufacture of iron rails in the United States has been almost entirely discontinued, and during the years from 1883 to 1888 there were virtually no market quotations for them. The last recorded average price for iron rails was ± 45 per ton in 1882.

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can be best hat metal in it chief iron in that year 1886, show-. The savemer metal by the fact has accom-

r 1883 was £5 r ton; and in 5) per ton, delvania (U. S.) was \$34½ per in the United ars from 1883 last recorded plished, with a moderate train-load of passenger coaches, a statute mile in fifty seconds, or at the rate of seventy-two miles per hour, and makes a considerable continuous run at a speed of one mile per minute, - a rate of railway travelling almost beyond the dreams or anticipations of the renowned George Stephenson." The use of steel in place of iron in ship-construction may be said to date from 1878, and the rapidity with which the former has replaced the latter metal is very remarkable. Thus, in 1878 "the percentage of steel used in the construction of steamships in Great Britain was only 1.09 but in 1887 the percentage of iron used in proportion to steel was only 0.93; or, in other words, in 1878 there was ninety times as much iron as steel used for steamers, but in 1887 there was more than eight times the quantity of steel used as compared with iron for the same purpose, and, as regards sailing-ships, the quantity of steel used in 1887 amounted to practically one half that of iron." - Address of the President (Mr. Adamson) of the British Iron and Steel Association, May, 1888.

The application and use of steam alone up to date (1889) has accordingly more than trebled man's working power, and by enabling him to economize his physical strength has given him greater leisure, comfort, and abundance, and also greater opportunity for that mental training which is essential to a higher development. And yet it is certain that four fifths of the steam-engines now working in the world have been constructed during the last quarter of a century, or since 1865.

One of the most momentous and what may be called humanitarian results of the recent great extension and cheapening of the world's railway system and service is that there is now no longer any occasion for the people of any country indulging in either excessive hopes or fears as to the results of any particular harvest; inasmuch as the failure of crops in any one country is no longer, as it was, no later than twenty years ago, identical with high prices of grain; the prices of cereals being at present regulated, not within any particular country, but by the combined production and consumption of all countries made mutually accessible by railroads and steamships. As a matter of fact, indeed, the granaries for no small portion of the surplus stock of the

world's cereals are at the present time ships and railroadcars in the process of movement to the points of greatest demand for consumption. Hence it is that, since 1870, years of locally bad crops in Europe have generally witnessed considerably lower prices than years when the local crops were good, and there was a local surplus for export.¹

In short, one marked effect of the present railroad and steamship system of transportation has been to compel a uniformity of prices for all commodities that are essential to life, and to put an end forever to what, less than half a century ago, was a constant feature of European commercial experience, namely, the existence of local markets, with widely divergent prices for such commodities.

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How much of misery and starvation a locally deficient harvest entailed under the old system upon the poorer classes, through the absence of opportunity of supplying the deficiency through importations from other countries and even from contiguous districts, is shown by the circumstance that in the English Parliamentary debates upon the corn laws, about the year 1840, it was estimated upon data furnished by Mr. Tooke, in his "History of Prices," that a deficiency of one-sixth in the English harvest resulted in a rise of at least one hundred per cent in the price of grain; and another estimate by

¹ A century ago every nation of Europe raised in ordinary years enough grain to supply the needs of its own population, and the circulation of food from country to country, and from province to province, was restricted and even generally prohibited. After the middle of the eighteenth century there were indications that the domestic growth of wheat in England was falling below the consumption of the people; but this unpleasant fact was studiously concealed - by the enormously expensive corn laws, which on the one hand artificially stimulated agriculture and kept poor lands in cultivation, and, on the other, restricted through high prices the consumption of bread - and was not openly recognized for nearly half a century later. Subsequently the other nations of Europe, with the exception of Russia and Austria-Hungary, have experienced the same alteration in their food-producing capacity - in part due to natural influences, and in part to artificial factors - which have turned the attention of the people away from the cultivation of cereals into employments that promised to be more profitable; and they have found it cheaper to import food than to grow it themselves. So that there are now no countries in Europe save the two above mentioned that have a surplus product of wheat available for export.

Davenant and King, for the close of the seventeenth century, corroborates this apparently excessive statement. The estimate of these latter authorities was as follows : ---

For a deficiency of the second			•									 ere will be a in price of
1-10								•	•			3-10
2-10												8-10
3.10												16-10
4-10	÷	-										28-10
5-10			•		•	•			•			45-10

As late as 1817 the difference in France between the highest and the lowest prices of grain in different parts of the country was 45 francs per hectolitre. In 1847 the average difference was 26 francs. Since 1870 the greatest difference at any time has not been in excess of 3.55 francs. The following table, given on German authority, and representing the price (in silver gulden per hectolitre) of grain for various periods, exhibits a like progress of price equalization between nations:—

	F	ERI	OD.					England.	France.	Belgium.	Prussia,	
821-'30			•	•	•			10.25	7.35	6.44	5.65	
1831-'40 1841-'50	:	:	:	:	:	:	:	9·60 9·15	7·61 7·89	7·81 7·99	5·27 6·41	
1851-'60 1861-'70	•	•	•	•	٠	•	•	9·40 8·80	7·84 8·59	9.65 9.24	8.07	

For grain henceforth, therefore, the railroad and the steamship have decided that there shall be but one market — the world; and that the margin for speculation in this commodity, so essential to the well-being of humanity, shall be restricted to very narrow limits; the speculator for a rise in wheat in any one country finding himself practically in competition with all wheat-producing countries the moment he undertakes to advance prices; while abnormal values in one country or market, or excessive reserves at one centre or another, are certain to be speedily neutralized and controlled by the influence of all countries and markets.

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The movement and prices of wheat for the year 1888 furnish a most remarkable illustration and confirmation of the above statements, and also (as Sir James Caird has pointed out) "of the smoothness (at the present time) of the opera. tions of trade under natural conditions." During the eleven months of 1888, ending November 30th, Great Britain imported a little more than sixty-seven million hundred-weight of wheat and flour. In the corresponding eleven months of 1887 the foreign supply was practically the same. There was, however, a very great change in the sources of supply. Thus, in 1887, North and South America furnished forty-nine million hundred-weight out of the sixty-seven million hundredweight that Great Britain required; but in 1888 the harvests of America were comparatively meagre, and supplied Great Britchn with but twenty-nine million hundred-weight, leaving a dear ency of twenty millions to be obtained from other sourcee. Fastern Europe, and especially Russia, which were favored during the year 1888 with splendid weather and enormous crops, were able to promptly make good the missing twenty millions; but the market changes and vicissitudes of trade consequent on such an extensive transfer of the British supplies of wheat were something extraordinary. Twenty years ago, had Russia in any one year harvested a surplus of wheat as large as she did in 1888, such surplus, through an inability to cheaply and promptly move it to a market, would have been not only of little monetary value to the producer, but would probably by its unsalable presence in the country have considerably lowered the market price of so much of the crop as was required for home consumption. Under existing conditions, however, great gain accrued to the Russian farmer and to all the interests and nationalities employed in the movements of his product. A demand for shipping for this special trade, which could not at once be fully supplied, also occasioned a quick advance in ocean freights in all quarters of the globe, in some instances to the extent of one hundred per cent, and concurrently a revival of the industry of shipbuilding. On the other hand, this transfer of the wheatsupply of Great Britain represented an immense change in

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the carrying-trade and business of the United States; while the American speculator, recognizing the local deficiency of the wheat-crop for 1888, and assuming that the American supply of this cereal was the prime factor in determining its European price, largely advanced prices (the average price of No. 2 red winter wheat in New York for the six months ending December, 1888, having been \$1.01 per bushel, as compared with 84.2 cents for the corresponding period of 1887). But in this they were disappointed. The European prices did not materially advance;¹ and as a consequence, while the American public suffered, "the British consumer was enabled to eat his loaf at the same price or a less price than he did in the previous year." And if the consumer was not a student of statistics, he would not have been in the least conscious that it was Russian rather than American grain from which his bread was manufactured. In short, under the system of commercial freedom which Great Britain has established, all the farming interests on the earth grow with an eye to the possible advent of the British people as customers; while the latter, on their part, have so provided themselves with the best equipment for annihilating time and distance, that it is a matter of indifference to them whether the wheat-fields which for the time being shall have their preference are located in India, Russia, Dakota, South America, or Australia.

The changes effected by the cheapened means of transportation have moreover been equalled, if not surpassed, by those wrought through the lessened cost and increased amount of production. The world's total product of pig-iron increased slowly and regularly from 1870 to 1879, at the rate of about $2\frac{1}{4}$ per cent per annum, but after 1879 production increased enormously, until in 1883 the advance among all nations was 82.2 per cent in excess of the make of 1870, the increase in the product of the United Kingdom being 43 per cent, and that of other countries 139.1 per cent (*Testimony of Sir Lowthian Bell*, *British Commission*, 1886). Such an increase

¹ English wheat sold December 25, 1888, at £1 11s. 3d. a quarter, against $\pounds 1$ 11s. 2d., or $2\frac{1}{2}$ cents a bushel more than at the corresponding date in 1887, and 1s. 10d. less than in December, 1886.

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(after 1879), justified perhaps at the moment, was far in excess of the ratio of increase in the world's population, and for a term of years greatly disproportionate to any increase in the world's consumption, and finally resulted as has been before shown (see Wells, Chapter I.), in an extreme depression of the business, and a remarkable fall of prices.

By reason largely of the cheapening of iron and steel, the cost of building railroads has also in recent years been greatly reduced. In 1870-71, one of the leading railroads of the Northwestern United States built 126 miles, which with some tunnelling, was bonded for about \$40,000 per mile. The same road could now (1889) be constructed, with the payment of higher wages to laborers of all classes, for about \$20,000 per mile.

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The power to excavate earth, or to excavate and blast rock, is from five to ten times as great as it was when operations for the construction of the Suez Canal were commenced, in 1859-60. The machinery sent to the Isthmus of Panama, for the excavation of the canal at that point was computed by engineers as capable of performing the labor of half a million of men.

The displacement of muscular labor in some of the cotton mills of the United States, within the last ten years, by improved machinery, has been from thirty-three to fifty per cent, and the average work of one operative, working one year, in the best mills of the United States, will now, according to Mr. Atkinson, supply the annual wants of 1,600 fully clothed Chinese, or 3,000 partially clothed East Indians. In 1840 an operative in the cotton-mills of Rhode Island, working thirteen to fourteen hours a day, turned off 9,600 yards of standard sheeting in a year; in 1886 the operative in the same mill made about 30,000 yards, working ten hours a day. In 1840 the wages were \$176 a year; in 1886 the wages were \$285 a year.

The United States census returns for 1880 report a very large increase in the amount of coal and copper produced during the ten previous years in this country, with a very large comparative diminution in the number of hands em-

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port a very r produced vith a very hands employed in these two great mining industries; in anthracite coal the increase in the number of hands employed having been 33.2 per cent, as compared with an increase of product of 82.7; while in the case of copper the ratios were 15.8 and 70.8, respectively. For such results, the use of cheaper and more powerful blasting agents (dynamite), and of the steamdrill, furnish an explanation. And, in the way of further illustration, it may be stated that a car-load of coal, in the principal mining districts of the United States, can now (1889) be mined, hoisted, screened, cleaned, and loaded in one-half the time that it required ten years previously.

The report of the United States Commissioner of Labor for 1886 furnishes the following additional illustrations : —

"In the manufacture of agricultural implements, specific evidence is submitted, showing that six hundred men now do the work that, fifteen or twenty years ago, would have required 2,145men, — a displacement of 1,545.

"The manufacture of boots and shoes offers some very wonderful facts in this connection. In one large and long-established manufactory the proprietors testify that it would require five hundred persons, working by hand processes, to make as many women's boots and shoes as a hundred persons now make with the aid of machinery, — a displacement of eighty per cent.

"Another firm, engaged in the manufacture of children's shoes, states that the introduction of new machinery within the past thirty years has displaced about six times the amount of handlabor required, and that the cost of the product has been reduced one half.

"On another grade of goods, the facts collected by the agents of the bureau show that one man can now do the work which twenty years ago required ten men.

"In the manufacture of flour there has been a displacement of nearly three fourths of the manual labor necessary to produce the. same product. In the manufacture of furniture, from one half to three fourths only of the old number of persons is now required. In the manufacture of wall-paper, the best evidence puts the displacement in the proportion of one hundred to one. In the manufacture of metals and metallic goods, long-established firms testify that machinery has decreased manual labor 33¹/₄ per cent."

In 1845 the boot and shoe makers of Massachusetts made an average production, under the then existing conditions of manufacturing, of 1.52 pairs of boots for each working day. In 1885 each employé in the State made on an average 4.2 pairs daily, while at the present time in Lynn and Haverhill the daily average of each person is seven pairs per day. "showing an increase in the power of production in forty years of four hundred per cent."¹...

But in respect to no other one article has change in the conditions of production and distribution been productive of such momentous consequences as in the case of wheat. On the great wheat-fields of the State of Dakota, where machinery is applied to agriculture to such an extent that the requirement for manual labor has been reduced to a minimum, the annual product of one man's labor, working to the best advantage, is understood to be now equivalent to the production of 5,500 bushels of wheat. In the great mills of Minnesota, the labor of another one man for a year, under similar conditions as regards machinery, is in like manner equivalent to the conversion of this unit of 5,500 bushels of wheat into a thousand barrels of flour, leaving 500 bushels for seed-purposes; and, although the conditions for analysis of the next step in the way of results are more difficult, it is reasonably certain that the year's labor of one and a half men more - or, at the most, two men - employed in railroad transportation, is equivalent to putting this thousand barrels of flour on a dock in New York ready for exportation, where the addition of a fraction of a cent a pound to the price will further transport and deliver it at almost any port of Europe.²

¹ Address by Mr. F. W. Norcross, November, 1888, before the Boston Boot and Shoe Club.

² When the wheat reaches New York clty, and comes into the possession of a great baker, who has established the manufacture of bread on a large scale, and who sells the best of bread to the working-people of New York at the lowest possible price, we find that one thousand barrels of flour can be converted into bread and sold over the counter by the work of three persons for one year. Let us add to the six and a half men already named the work of another man six months, or half a man one year, to keep the machinery in repair, and our modern miracle is that seven men suffice to give one thousand persons all the bread they customarily consume in one year. If to these we

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Here, then, we have the labor of three men for one year. working with machinery, resulting in the producing all the flour that a thousand other men ordinarily eat in a year, allowing one barrel of flour for the average consumption of each adult. Before such a result the question of wages paid in the different branches of flour production and transportation becomes an insignificant factor in determining a market; and, accordingly, American flour grown in Dakota, and ground in Minneapolis, from a thousand to fifteen hundred miles from the nearest seaboard, and under the auspices of men paid from a dollar and a half to two dollars and a half per day for their labor, is sold in European markets at rates which are determinative of the prices which Russian peasants, Egyptian "fellahs," and Indian "ryots," can obtain in the same markets for similar grain grown by them on equally good soil, and with from fifteen to twenty cents per day wages for their labor.

On the wheat-farms of the Northwestern United States it was claimed in 1887 that, with wages at twenty-five dollars per month and board, for permanent employés, wheat could be produced for forty cents per bushel; while in Rhenish Prussia, with wages at six dollars per month, the cost of production was reported to be eighty cents per bushel. . . .

A great number of other similar and equally remarkable experiences, derived from almost every department of industry except the handicrafts, might be presented; but it would seem that enough evidence has been offered to prove abundantly that, in the increased control which mankind has acquired over the forces of Nature, and in the increased utilization of such control — mainly through machinery — for the work of production and distribution, is to be found a cause sufficient to account for most if not all the economic disturbance which, since the year 1878, has been certainly universal in its influence over the domain of civilization, — abnormal to the extent of justifying the claim of having been unprece-

add three for the work of providing fuel and other materials to the railroad and the baker, our final result is that ten men working one year serve bread to one thousand. — EDWARD ATKINSON, Distribution of Products. dented in character, and which bids fair in a greater or less degree to indefinitely continue. Other causes may have and doubtless have contributed to such a condition of affairs, but in this one cause alone (if the influence "eferred to can be properly considered as a unity) it would _____ there has been sufficient of potentiality to account not only for all the economic phenomena that are under discussion, but to occasion a feeling of wonder that the world has accommodated itself so readily to the extent that it has to its new conditions, and that the disturbances have not been very much greater and more disastrous.

A question which these conclusions will naturally suggest may at once be anticipated. Have not these same influences. it may be asked, been exerted during the whole of the present century, and in fact ever since the inception of civilization; and are there any reasons for supposing that this influence has been different during recent years i kind and degree from what has been heretofore experien The answer is, Certainly in kind, but not in degree. ... world has never seen anything comparable to the results of the recent system of transportation by land and water, never experienced in so short a time such an expansion of all that pertains to what is called business, and has never before, as was premised at the outset of this argument, been able to accomplish so much in the way of production with a given amount of labor in a given time. Thus it is claimed in respect to the German Empire, where the statistics of production and distribution have doubtless been more carefully studied by experts than elsewhere, that during the period from 1872 to 1885 there was an expansion in the railroad traffic of this empire of ninety per cent; in marine tonnage, of about a hundred and twenty per cent; in the general mercantile or commercial movement, of sixty-seven per cent; in postal matter carried, of a hundred and eight per cent; in telegraphic despatches, of sixty-one per cent; and in bank discounts, of two hundred and forty per cent. During the same period population increased about eleven and a half per cent; and from such data there has been a general deduction that, "if one

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unit of trade was the ratio to one unit of population in Germany in 1872, the proportion in 1885 was more than ten units of trade to one of population." But, be this as it may, it can not be doubted that whatever has been the industrial expansion of Germany in recent years, it has been at least equalled by England, approximated to by France, and certainly surpassed by the United States.¹

There is very much that contributes to the support of the idea which has been suggested by M. Laveleye, editor of the "Moniteur des Intérêts Matériels," at Brussels, that the industrial activity of the greater part of this century has been devoted to fully equipping the civilized countries of the world with economic tools, and that the work of the future in this same sphere must be necessarily that of repair and replacements rather than of new constructions. But a more important inference from this same idea, and one that fully harmonizes with and rationally explains the phenomena of the existing situation is that, the equipment having at last been made ready, the work of using it for production has in turn begun, and has been prosecuted so efficiently that the world has within recent years, and for the first time, become saturated, as it were, under existing conditions for use and consumption, with the results of these modern improvements.

Again, although the great natural labor-saving agencies had been recognized and brought into use many years prior to 1870, their powers were long kept, as it were, in abeyance; because it required time for the instrumentalities or methods, by which the world's work of production and distribution was carried on, to adjust themselves to new conditions; and until this was accomplished, an almost infinite number and variety of inventions which genius had produced for facilitating and

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¹ A statistical exhibit of the growth of British industrial interests during the reign of Queen Victoria (fifty years), published in 1887, in connection with the "Queen's Jubilee," showed that the production of coal has increased in Great Britain during this period from 36,000,000 tons to 147,000,000 tons per annum; and that manufactures had increased in about an equal ratio with the output of coal — that is to say, had about quadrupled (four hundred per cent). Meanwhile, the population of the United Kingdom increased only thirty-three per cent.

accelerating industrial evolution were matters of promise rather than of consummation. But, with the extension of popular education and the rapid diffusion of intelligence, all new achievements in science and art have been brought in recent years so much more rapidly "within the sphere of the every-day activity of the people" — as the noted German inventor, Dr. V'erner Siemens, has expressed it — "that stages of development which ages ago required centurics for their consummation, and which at the beginning of our times required decades, now complete themselves in years, and not unfrequently present themselves at once in a state of completeness."

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It should also be remembered that fifty years ago the "sciences" were little more than a mass of ill-digested facts or "unassorted laws," and that in the departments of physics and chemistry comparatively little had been accomplished in the way of industrial application and direction. To say, indeed, what the world did not have half a century ago is almost equivalent to enumerating all those things which in their understanding, possession, and common use the world now regards as constituting the dividing lines between civilization and barbarism. Thus, fifty years ago the railroad and the locomotive were practically unknown. The ocean steam marine dates from 1838, when the Sirius and Great Western - the two pioneer vessels - crossed the Atlantic to New York. Electricity had then hardly got " beyond the stage of an elegant amusement," and the telegraph was not really brought into practical use before 1844. The following is a further partial list of the inventions, discoveries, and applications whose initial point of "being" is not only more recent than the half-century, but whose fuller or larger development in a majority of instances is also referable to a much more recent date: the mechanical reapers, mowing and seeding machines, the steam plough, and most other eminently laborsaving agricultural devices; the Bessemer process and the steel rail (1857); the submarine and trans-oceanic telegraph cables (1866); photography and all its adjuncts; electro-plating and the electrotype; the steam-hammer, repeating and breech-

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XIII.

THE FRENCH INDEMNITY.

THE PAYMENT OF THE FIVE MILLIARDS.

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BLACKWOOD'S EDINBURGH MAGAZINE, FEB. 1875, PP. 172-187.

S soon as it became known, five years ago, that France had to hand over £200,000,000 to Germany, it was generally predicted that the financial equilibrium of Europe would be upset by the transfer of so vast a sum from one country to another, and that the whole system of international monetary relationship would be thrown into confusion. Apprehensions of an analogous nature were abundantly expressed when the two French loans successively came out. Wise bankers shook their heads in Frankfort, London, Amsterdam, and Brussels, and assured their listeners that, though the money would probably be subscribed, it could not possibly be paid up under five years at least. And yet the whole of this vast transaction was carried out between 1st June, 1871, and 5th September, 1873; twenty-seven months sufficed for its completion; and not one single serious difficulty or disorder was produced by The fact was that the commercial world had no idea of it. its own power; it thought itself much smaller than it really is; it failed altogether to suspect that its own current operations were already so enormous that even the remittance of five milliards from France to Germany could be grafted on to them without entailing any material perturbation. Such, however, has turned out to be the case; and of all the lessons furnished by the war, no other is more practical or more strange. The story of it is told, in detail, in a special report which has recently been addressed by M. Léon Say to the Commission of the Budget in the French Chamber. It is so

THE FRENCH INDEMNITY.

curious and instructive that it is well worth while to analyze it. It may, however, be mentioned, that the order of exposition adopted by M. Say is not followed here. To render the tale clear to English readers, the form of it is changed.

But before explaining the processes by which the war indemnity was paid, it will be useful to recall the principal features of the position in which France was placed by her defeat. It is now computed that the entire cost of the campaign amounted, directly and indirectly, to about \pounds 416,000,000; and this outlay may be divided into five sections, — the first three of which were declared officially by the Minister of Finance in his report of 28th October, 1873, while the two others have been arrived at by a comparison of various private calculations. They are composed as follows: —

1. S	Sums paid by France for her own military operations -	
	War expenses to the end of 1872	£76,480,000
	Food bought for Paris before the siege	6,781,000
	Assistance to families of soldiers, etc	2,000,000
	Balance of war expenses payable out of the Liquida-	
	tion Account	21,942,000
	Total of French expenses proper	£107,203,000
2. S	Sums paid to Germany —	
	Indemnity	£200,000,000
	Interest on unpaid instalments of indemnity	12,065,000
	Maintenance of German army of occupation	9,945,000
	Taxes levied by the Germans	2,468,000
	Total paid to Germany	£224,478,000
3. 6	Collateral expenses —	
	Cost of issue of the various war loans, rebates of	
	interest, exchange, and cost of remitting the indemnity	
	Loss or diminution of taxes and revenue in conse-	£25,247,000
		14 505 000
	quence of the war	14,567,000
	Total of collateral expenses	£39,814,000

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France had s generally ould be upto another, ry relationsions of an en the two kers shook nd Brussels, would probo under five transaction September, letion; and roduced by no idea of an it really rent operanittance of afted on to on. Such, all the lesal or more cial report Say to the It is so

4.	Requisitions in cash or objects —															
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	£8,00	0,00	0 1	paio	11	by]	Par	is,	est	im	ate	d s	t	•	•	£15,000,000
5.	Loss of pro	ofits	cor	iseg	ue	nt u	ipoi	r th	e s	usp	ens	ion	of	tra	de —	
	Estimat	ed a	t.	•	•	•	•	٠	•	٠	•	•	•	•	•	£30,000,000
							R	lés	UM	é.						
	1.	•		•					•		•		•			£107,203,000
	2.	•	•	•	•	•	•	•	•	•	•		•		•	224,478,000
	3.	•	•	•	•	•	•	•	•	•	•	•		•	•	39,814,000
	4.	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	15,000,000
	5.	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	30,000,000
			Ge	ene	ral	Т	otal									£416.495.000

Now, what has France to show against this?

Her annual gains before the war were put by M. Maurice Block ("Europe, Politique et Sociale," p. 317) at £900,000,000; unfortunately he does not tell us how much of this she spends, and how much she lays by; but there is a prevalent impression in France that her annual savings amount to £80,000,000. We shall mention presently a calculation which seems to indicate that, during the later period of the Empire, they must have amounted to a considerably larger sum than this; but if we admit it, for the moment, as correct, it would follow that the cost of the war, in capital, represented five years' accumulation of the net profits of the country. It is not, however, in that form that a proportion can be established between liabilities and resources; the measurement must be made, not in capital, but in interest; for it is, of course, in the latter form alone --- that is to say, in new taxation to pay interest on loans - that France now feels the pressure. That new taxation, when completed (it is not all voted yet), will amount to about £26,000,000 a year; and that is the real sum which is to be deducted from the annual profits of the country in consequence of the war. Now, if those profits were only £80,000,000, and if they are not progressing, but standing still at their previous rate, this deduction would absorb almost a third of them; but as they are continually ad-

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vancing — as every branch of trade in France is active — as foreign commerce, which is generally accepted as a safe test of national prosperity, was one fifth larger in 1878 than in 1869 —it may fairly be supposed that, after paying the $\pounds 26,000,000$ of war taxes, France is effectively laying by as much as she did in the best years before the war, whatever that really was.

After this rough indication of the situation, we shall better understand the story of the five milliards. It is scarcely possible to disassociate it from the general attendant circumstances of the position as a whole; the two should be kept in view together.

The payment of the indemnity, and the detailed conditions under which that payment was to be made, were stipulated in the three treaties or conventions signed successively at Versailles, Ferrières, and Frankfort, in January, March, and May, 1871. It was determined by the last-named treaty that " payments can be made only in the principal commercial towns of Germany, and shall be effected in gold or silver, in English, Prussian, Dutch, or Belgian bank-notes, or in commercial bills of the first class." The rates of exchange on coin were fixed at 3f. 75c. per thaler, or at 2f. 15c. per Frankfort florin ; and it was agreed that the instalments should be paid as follows:—

30 days after the s	up	pre	ssic	on e	of t	the	Co	mn	aun	e	•	£20,000,000
During 1871 .		•	•		•				•	•		40,000,000
1st May, 1872 .		•	•	•	•	•	•	•	•			20,000,000
2d March, 1874	•	•	•	•	•	•	•	•	•	٠	•	120,000,000
Total					•	•			•	•		£200,000,000

The last £120,000,000 were to bear interest at 5 per cent.

It must be particularly observed that no currency was to be "liberative" excepting coin, German thalers, or German florins. The other forms of money which the German Government consented to accept did not constitute a definite paymeat; it was not until those other forms were converted into their equivalent value in thalers or in florins that the payment became "liberative." This was the essential basis of the bargain.

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107,203,000 224,478,000 89,814,000 15,000,000 30,000,000 416,495,000

rice Block 0,000; unhe spends, nt impres-30,000,000. ems to inthey must his; but if ollow that years' acs not, howestablished t must be rse, in the to pay inare. That yet), will s the real fits of the ose profits essing, but would abnually ad-

Furthermore, it was declared that the instalments must be paid at the precise dates fixed, neither before nor afterwards; and that no payments on account should be allowed. It was not till July, 1872, that leave was given to make partial payments, but only then with the express reservation that such partial payments should never be for less than $\pounds 4,000,000$ at a time, and that one month's notice of them should be given on each occasion. Under no circumstances, from first to last, was any payment permitted on account.

Two main conditions, therefore, governed the operation: the first, that all payments made in anything but coin or a proper German form were to be converted into a German form at the expense of France; the second, that the proceeds of all bills or securities which fell due prior to the date fixed for an instalment, were to be held over until that date. The dates themselves were ultimately changed, —the last payment was advanced six months; but, with two special exceptions, those conditions were rigorously enforced throughout the entire business.

As the annexation of Alsace-Lorraine to the German Empire obliged the Eastern Railway Company of France to abandon all its lines within those provinces, it was agreed that Germany should pay for them, that the price should be £13,000,000, and that this sum should be deducted from the indemnity. This was the first exception. The second was that Germany consented, as a favor, to accept £5,000,000 in French bank-notes. By these two means the $\pounds 200,000,000$ were reduced to £182,000,000. But thereto must be added £12,065,000 for interest which accrued successively during the transaction, and which carried the total for payment in coin or German money to £194,065,000. And even this was not quite all, for France had to furnish a further sum of about £580,000 for exchange, and for expenses in the con-This last version of foreign securities into German value. amount does not appear to be finally agreed between the two Governments; there is a dispute about it; but as the difference extends only to a few thousand pounds, the final sum remitted may be taken at about £194,645,000 or at

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ie German f France to was agreed e should be d from the second was 000,000 in 00,000,000st be added ely during payment in even this her sum of in the con-This last en the two the differthe final 000 or at £199,645,000, if we include the £5,000,000 of French banknotes. The £13,000,000 credited for the railways carried the entire total of the indemnity, with interest and expenses, to £212,645,000.

The first payment (in French bank-notes) was made on June 1, 1871. As the first loan was not brought out until the end of the same month, £5,000,000 were taken for the purpose from the Bank of France; but with that exception and subject to temporary advances (as will be seen hereafter), the funds for the entire outgoing were provided by the two great loans; the interest was, however, charged separately to the budget. Consequently, the money was derived successively from the following sources : —

The value of the Alsace-Lorraine railways	£13,000,000
Loan from the Bank of France	5,000,000
Out of the first loan for two milliards	62,478,000
Out of the second loan for three milliards	120,102,000
Out of the budgets of 1872 and 1873 (interest)	12,065,000
Total	6919 645 000

It is not necessary to go into the details of the dealings with the Bank of France, of the subscription of the loans, or of the dates and proportions of the payments made upon them. It will suffice to observe, as regards those elements of the subject, that though the payments on the loans came in, nominally, before the dates fixed for the delivery of the corresponding instalments to Germany, they, practically, were not always available in time. The reason was that, though the actual handing over to Berlin took place at fixed periods, the remittances themselves were necessarily both anterior and continuous, their proceeds being accumulated by French agents until wanted. The result was that the French Ministry of Finance was under the necessity of making almost constant advances on account of those remittances. Each time a payment was coming due, the means of effecting it had to be arranged long beforehand. It is not possible to collect or carry £20,000,000 at a week's notice, so the Treasury was of course obliged to keep on

buying bills as fast as it could get them, in order to have a stock in hand for future needs. That stock fluctuated a good deal, and there is some contradiction in M. Léon Say's report as to its amount; but it appears, at one period, to have ranged for months as high as $\pounds 30,000,000$, part of the cash to pay for it being provided temporarily, until the loan moneys came in, either by Exchequer bills or by the Bank of France in notes.

There was, moreover, towards the end of the operation, an advance made specially in gold by the Bank of France; and. as the circumstances under which it was effected present a certain interest, it will be worth while to state them. In May, 1873, the French Treasury had before it the obligation of providing £40,000,000 between 5th June and 5th September; $\pounds 24,000,000$ of bills were in hand for the purpose, and about £10,000,000 of instalments were coming due on the loan; but there was, at the best, a clear deficit of about £6,000,000 in the resources available. The Bank of France agreed to supply that sum; but as, at that very moment, the circulation of its notes had reached £112,000,000, and as it had, consequently, only a margin of £16,000,000 between that figure and its total authorized issue of £128,000,000, it seemed dangerous to withdraw £6,000,000 of that margin in notes, and it was decided to effect the loan by preference in gold. It is worth remarking that this is probably the first example, in the history of national banks, of a bank electing to make an advance in gold, as being less "dangerous" than the delivery of its own notes. The French Treasury was of course well pleased to obtain bullion, which was immediately "liberative," instead of notes, which would have had to be converted into bills at various dates. But, after all, this aid did not suffice; the incomings from the loan did not arrive, practically, in time for use, and the Treasury had to supply a further final balance of £9,760,000 to enable the concluding payment to Germany to be regularly effected.

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Finally, it may be noted that there were thirty-three deliveries to Germany, the component parts of each of which were so scrupulously verified by the representatives of the

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Berlin Finance Department that several days were occupied by the counting, on each occasion. Indeed, when thalers had to be told up, the maximum got through in a day never exceeded $\pounds 32,000$.

After these preliminary explanations we can now begin to show the means by which the transfer was performed. We will divide them, in the first instance, into four categories: —

1.	German ban	nk-	not	es	and	l m	one	ey o	oll	ect	eđ	in	
	France af	ter	th	e w	ar			•	•			•	£4,201,000
2.	French gold	l ai	nd	silv	er		•	•		•			20,492,000
3.	French Ban	k ı	ote	28					•				5,000,000
4.	Bills		•	•	•	•	•	•	•	•	•	•	169,952,000
	Total	•	•	•	•	•	•	•	•	•	•		£199,645,000

The first observation to be made here is that the German money found in France amounts to a singularly large sum; indeed, if this proof of its importance had not been furnished no one could possibly have suspected that the invaders, for their personal and private necessities, had spent anything like so much. Their wants, as soldiers, were supplied during the war, either by stores sent from Germany or by requisitions levied in France; until peace was signed they paid for no objects of public or official need; all this cash represented, therefore, individual expenditure. And manifestly the real total must have been still larger. It cannot be supposed that the whole of the German money spent in France was reserved by its French proprietors for sale to their own Government; it may be taken for granted that a considerable portion of it went back straight to Germany through ordinary channels; and it may be guessed that the entire sum expended by the conquerors, out of their individual resources, in German money, was at least a half more than the amount here shown, and that it consequently attained $\pounds 6,000,000$. The question is curious, and this is the first time that any official information bearing on it has been published. It remains to add, as regards this element of the payment, that, as might have been expected, the German money was included, almost entirely, in the earlier instal-

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ration, an nce; and, present a them. In obligation h Septemrpose, and lue on the t of about of France oment, the , and as it 0 between 000,000, it margin in eference in ly the first k electing ous" than ury was of s immedihave had after all, an did not iry had to enable the ected. -three deof which es of the ments, and that scarcely any of it appeared in the later remittances.

The £20,492,000 of French money was composed of £10,920,000 in gold and £9,572,000 in silver. But it should be said at once that these figures express only the amounts transmitted by the French Government officially, and do not comprise the quantities of French gold bought by Germany or forwarded by private bankers to cover their own bills; these other quantities will be referred to presently. £6,000,000 of the Government gold were supplied by the Bank of France; the rest was bought from dealers or furnished by the Treasury. Of the silver £5,840,000 were obtained in France, and £3,732,000 were drawn, in bars, from Hamburg, and coined in Paris.

But these direct remittances of German and French cash represented after all only about one eighth of the entire payment; the other seven eighths were transferred by bills, and it is in this section of the matter that its great interest lies. It will at once be seen that, as no remittance in paper became "liberative" until it was converted into an equivalent value in thalers or in florins, the French Treasury could obtain no receipt for an instalment until all its various elements had been so converted; its object, therefore, was to obtain the largest possible amount of bills on Germany, so that, at their maturity, their proceeds might be at once available in the prescribed form. But at the same time it was quite iwpossible to collect in France alone, within the time allowed, anything approaching to the quantity of German bills required. The result was that it was found necessary not only to hand in a large amount of bills on other countries, which had to be converted into German values at the cost of France, but also, as regards the purchase of direct bills on Germany, to effect it frequently in two stages. In the first stage bills were bought in Paris, as they offered, on England, Belgium, or Holland; in the second, a portion of the proceeds of those bills was reinvested, in those coun-Of course the tries, in other bills on Germany itself. French Government was very anxious to employ every sort

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'rench cash entire payr bills, and terest lies. per became alent value d obtain no ements had obtain the at, at their able in the quite inhe allowed, n bills reessary not countries, at the cost lirect bills s. In the offered, on a portion hose councourse the every sort of means to increase the quantity of German bills, and to avoid leaving to the German Treasury the right of converting foreign paper into German value at French expense. At the origin of the operation the importance of this element of it was not fully realized; but by degrees the French minister discovered that it was far more advantageous to effect his conversions himself than to leave them to be carried out anyhow at Berlin. The result of this discovery was that, while £454,000 were paid to Germany for the cost of conversion on the first two milliards, only £11,000 were paid to her under the same head on the remaining three milliards. After the experience of the first twelve months, France sought for bills on Germany wherever she could get them all over Europe; and it may be added that she was somewhat aided in the effort by the special position of Germany, who, at the moment, was in debt considerably to England not only for the war loans she had issued there, but also on commercial account as well. But, as has just been mentioned, a good many of these bills were substitutions for each other, and consequently the amount of paper shown as bought is considerably larger than the real sum paid to Germany, the reason being that a good deal of it appears in the account twice over. The following table gives the composition of the total quantity of bills bought by France: ---

Bills	on	Germany,	bo	ught	dir	ect	, in	tł	nalei	3		£62,550,000
44	**	66 ·		"	4	•	in	fle	orin	8		9,548,000
44	**	44	bo	ught	, in	th	aler	s.	with	n t	he	
			1	proce	eds	of	oth	er	bill	s		42,218,000
66	**	44	in	reicl	nsm	arc	8.					3,172,000
66	"	England,	in i	sterli	ng					•		61,780,000
66		Hamburg										21,432,000
66		Belgium,										20,856,000
**	"	Holland,	in f	lorin	s .	•	•	•	•	•	•	12,952,000
	Tot	al			•				•	•	•	£234,508,000

These bills were paid for mainly in French bank-notes; and the average rates of exchange at which they were bought came out as follows, for the entire operation: —

and the second sec														Francs.
Thalers	•	•	•	•	•		•					•		3.7910
Pounds sterling	5	•	•	•	•		•	•			•			25.4943
Marcs-banco	•		•	•	•	•			•	•	•	•		1.9089
Belgian francs	•		•		•		•		•			•		1.0061
Dutch florins	•	•	•	•	•	•	•	•	•	•		•	•	2.1500
Frankfort florin	18		•		•	•			•	•	•			2.1637
Reichsmarcs														

Every one at all acquainted with exchanges will recognize how low, under such circumstances, these prices are; and will ask, with wonder, how they can have been kept down to such averages on so large an undertaking.

But though the foregoing table shows the quantities of bills, of each kind, that were bought by the French Government as vehicles of transmission, it in no way indicates the form in which the money was in reality handed over to the German Treasury. Most of the above figure: were largely modified by conversions and substitutions; and when all the bills had been cashed, when the whole payment had been effected, it appeared that the real totals of each sort of currency which had been finally delivered to Germany were as follows:—

French	bank-r	otes									•		£5,000,000
**	gold .					•	•	•		•	•	•	10,920,000
66	silver						•	•		•	•		9,572,000
German	n notes	and	ca	sh		•		•	•		•	•	4,201,000
Bills -	Thale	·s .		•		•	•	•	•		•	•	99,412,000
••	Frank	fort	flor	ins			•	•	•	•	•		9,404,000
	Marcs	ban	co										10,608,000
" _	Reich	smar	cs			•							3,190,000
"	Dutch	flori	ns										10,020,000
" _	(and i	n sil	ver) —	- B	elg	ian	fr	n 1				11,828,000
" _	Pound	is ste	rlir	g	•	-							25,490,000
Т	otal .												£199,645,000

This catalogue shows at last in what shape the bills were really utilized and made "liberative," either in Ger an money direct, or by the equivalent of foreign value in the or florins. The differences of composition between the cfiHo sold cash caleu ment

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bills were a Ger on in the rs the fight nitive list and that of the bills originally bought are only partially explained by M. Léon Say; it is not, however. necessary, nor would it be interesting, to follow out precisely the various conversions which took place; we will only mention, as an illustration, that out of the £61,780,000 of original bills in England £31,687,000 were converted here into other bills on Germany, that £25,490,000 were sent to Berlin in sterling bill, and that the balance remains unexplained. As regards the direct delivery by France herself, of English, Belgian, or Dutch bullion, the report says nothing; it is only stated incidentally that £720,000 of Belgian francs were sent to Berlin in metal, and that the London agency of the French Treasury bought £1,182,000 here in gold and silver, which probably was also shipped to Berlin; but these are the sole allusions to the subject. It is probable, as indeed has always been supposed, that the bullion which was withdrawn, during the operation, from London, Brussels, and Amsterdam, was not taken for French account, but by Germany out of the sums at her disposal in each place after the bills on that place had matured.

We have now before us, in a condensed form, the main elements of this prodigious operation; we see now what were the conditions which regulated it, where the money came from to realize it, how that money was successively employed, and in what shapes the payments were at last effected.

We	recognize	that France herself provided, in
		her own notes and coin £25,492,000
"	66	that German money and bills on
		Germany produced 126,815,000
44	**	that bills on England, Belgium,
		and Holland contributed 47,338,000
	Total	£199,645,000

Here, however, we must repeat that the Paris bankers who sold drafts on Germany were obliged to some extent to remit cash to meet them. On this point M. Léon Say goes into calculations which we will mention presently; for the moment it will suffice to say that, according to his view, the

effective transmission of bullion from France to Germany, through private hands, from 1871 to 1873, did not exceed £8,000,000 for the purposes in view here. He acknowledges. as will be seen, that the entire exportation of French gold during the three years reached (probably) £40,000,000; but still he expresses the opinion that £8,000,000 were all that was required, as a balance, to cover the French bills on Berlin. Of course this is a question which nobody can decide; but, to lookers on, it does seem somewhat contrary to the probabilities of such a case that this sum can have been sufficient. It may, perhaps, have been enough, as M. Say says, to balance accounts in the long run, but it is difficult to believe that it was not considerably exceeded while the operation was under execution. Furthermore, M. Léon Say makes a mistake of £10,000,000 in his account, as we shall show, and for that reason, we believe that £18,000,000 instead of £8,000,000 were required, so putting the whole total of French bullion temporarily used, including the £20,000,000 of the Government, at about £38,000,000, or a little more than one-sixth of the entire sum to pay. As this is certainly a maximum, it follows that France got out of this great debt with a payment of only 18 per cent of it, at the outside, in her own money. And there is good reason to suppose that all the gold exported by her has come back, and that her reserves of bullion are reconstituted at present as they were before the war.

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And now we can approach the most important and interesting point in the whole transaction. How came it that $\pounds 170,000,000$ of bills could be got at all? We have given a general answer to the question at the commencement of this article; we will now consider it more in detail, partly with the aid of M. Léon Say's report, partly by reference to other sources of information. It appears, as might have been expected, that various measures were employed by the French Government in order to render possible the collection of such a huge mass of paper. In the first place, particular facilities and temptations were offered to foreigners to induce them to subscribe to the two loans; commissions vary-

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Germany, not exceed nowledges, rench gold 0,000; but ere all that h bills on ody can decontrary to 1 have been as M. Say is difficult d while the . Léon Say as we shall :18,000,000 the whole cluding the 000,000, or to pay. As ance got out r cent of it, is good reaer has come nstituted at

t and internme it that ave given a nent of this partly with nee to other ve been exthe French ollection of particular ners to insions vary-

ing from 1 to 1 per cent were offered to them, the object being to acquire the power of drawing on them for the amount of their instalments. Secondly, everything was done to encourage anticipated payments of those instalments, so as to hasten the dates at which they could be drawn for. Thirdly, as some fear was felt that the second loan might possibly not be cagerly subscribed, coming as it did so immediately after a previous issue which was not quite paid up, it was thought desirable to get a portion of it guaranteed by bankers. But in order not to risk giving to those bankers a large commission for nothing, it was stipulated with them, as a part of the arrangement, that they should supply the Treasury with a fixed quantity of foreign bills. By the two former plans of action the immense amount of £70,920,000 of drafts on other countries was obtained, $\pounds 15,960,000$ of which were on account of the first loan, and $\pounds 54,960,000$ on account of the second; and it may be remarked at once, before we proceed, that though this figure supplies decisive evidence of the fact that at least one third of the two great loans was paid up by foreign subscribers, it is certain that nearly the entire amount has been bought back since, and that almost the whole of the new stocks is, at the present moment, in French hands. By the third plan the bankers who formed the syndicate, and it may be mentioned that fifty-five of the first houses in Europe were associated for the purpose, engaged to supply $\pounds 28,000,000$ of paper. Consequently, by these admirably devised schemes, £98,920,000 of drafts were successively procured, and the exact quantity to be bought in the open market was reduced to £71,032,000.

It must, however, be observed that, though we can regard these drafts on foreign countries for loan instalments as a special product of the occasion, and are therefore justified in counting them apart, the same cannot anyhow be said of the $\pounds 28,000,000$ of bills furnished by the syndicate of bankers. The latter were evidently composed of ordinary commercial paper, and consequently must be added to the total which had to be supplied from commercial sources proper, so putting that total at $\pounds 99,032,000$. Now bills of this

sort necessarily imply an effective counter-value of some kind; so, as we have already seen that at the outside only £18,000,000 of that counter-value was supplied in bullion. there remained at least £81,032,000 of bills which must necessarily have been based on ordinary trading or financial operations. What were those operations? Very often the general character of a bill is indicated on its face; but in this case a test of that kind could not be applied, not only because there were so many bills to handle that a serious examination of their nature was impracticable (there were in all one hundred and twenty thousand of them, of every conceivable amount, from £40 to £200,000), but also because every possible kind of business transaction must have been represented in that accumulation of securities from all parts of the world. Bank credits, circulation bills, settlements for goods delivered, remittances on account of future purchases, drafts against the coupons of shares and stocks, special paper created for the occasion, - all these forms, and many others, too, were, according to M. Léon Say, included in the collection. It was not possible to seek out in detail the origins and meanings of such a varied mass; but we may take M. Say's general description of it to be true, not only because it corresponds with probabilities and experience, but also because he was himself Minister of Finance during a part of the operation, and has therefore, a personal knowledge of its main circumstances. Researches, however, which could not be attempted with the bills themselves, may be practically and usefully pursued if they are directed towards the general signs and symptoms of the financial state of France. It is probable that a relatively small amount of bills was created specially to be sold to the French Government. We may, indeed, take the supposed £18,000,000 of exported bullion as indicating the approximate extent of uncovered or manufactured paper; all the rest was evidently based on mercantile transactions. Now, we know that mercantile transactions imply the delivery of property of some kind, and that the two main forms of property, commercially, are merchandise and stocks. It is therefore necessary, in order

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to arrive at an idea upon the question, to glance at the actual position of France in her dealings with other nations in these two values.

We have already alluded to the development of French trade, and to the general influence of that development on the payment of the war indemnity as a whole; but we must go into a few figures here in order to make the bearings of the subject clear. The value of the foreign commerce of France — importations and exportations together was £257,000,000 in 1871, £293,000,000 in 1872, and £301,000,000 in 1873. Now it will be at once recognized that the amount of bills necessitated by this quantity of commerce supplied a solid foundation for carrying the additional paper whose origin we are now seeking to discover. M. Say is of opinion that scarcely any part of the indemnity bills was furnished by the current commercial trade of the country; but, as we have just seen that the quantity required from trading sources was $\pounds 81,000,000$, or about $\pounds 40,000,000$ per annum, it does seem to be possible, notwithstanding his contrary impression, that some portion of that relatively reduced quantity may have been found in the ordinary commercial movement. For instance, it may reasonably be argued — as indeed M. Say himself admits — that bills drawn against French exports to Germany or England would be included, to some extent, among those which were offered to the Government. There seems to be no reason why this should not have been so.

But if M. Say considers that the habitual commercial paper of France has not been of much service to the Treasury in its conduct of this operation, he holds a totally different opinion with reference to the influence of the foreign investments of the French people. What he says on this subject is new and curious, and is well worth repeating.

He begins by stating, with an appearance of much truth and reason, that for many years before the war, French capital was being continuously invested in foreign securities; that the sums so placed have been estimated by different economists at from £30,000,000 to £60,000,000 a year.

of some tside only n bullion. hich must r financial often the ice; but in l, not only serious exre were in every conso because have been m all parts lements for purchases, ecial paper any others, the collecorigins and e M. Say's ause it corlso because part of the dge of its h could not practically he general nce. It is as created We may, ed bullion overed or based on mercantile ome kind, cially, are , in order

Here, however, before we follow out his argument, we must open a parenthesis, and observe that if even the smaller of these figures is exact, the computation of £80,000,000 of annual savings, which was alluded to at the commencement of this article, must be altogether wrong. It is manifestly inadmissible that France can have been investing in foreign countries three eighths of her whole net yearly profits. Consequently, we may legitimately suppose that the popular impression about the £80,000,000 is a delusion, and that France is in reality laying by a vast deal more than that. If so, the case and speed with which she has recovered from the war would be comprehensibly explained. M. Léon Sav goes on to tell us that French investments in foreign stocks amounted in 1870 to so large a total that the dividends on them represented, at that date, about £25,000,000 a year, for which sum drafts on other countries were of course put into circulation by its French proprietors. Furthermore. the revenues of the strangers who live in France come to them principally from their own country; and it is estimated that before the war £10,000,000 or £12,000,000 of such incomes were drawn for annually in the same way. Consequently, on this showing it would appear that somewhere about £35,000,000 or £40,000,000 of French drafts on foreign countries were created every year from those two sources. It is, however, certain that this quantity has diminished since the war, by the departure of some of the strangers who used to live in France, and also by the sale, in order to provide funds for subscription to the two new loans, of some of the foreign securities held in France. But M. Léon Say considers that the annual diminution, on both heads together does not exceed £4,000,000, and that at least £30,000,0 10 of paper, representing cash due to France on account of incomes from abroad, irrespective of commerce properly so called, were drawn in 1871 and 1872. In support of these considerations, he mentions, among other facts, that in 1868 and 1869 the coupons paid in Paris on Italian stock alone amounted to £3,400,000; while in 1872 and 1873 they fell to £2,400,000. On this one security,

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The movement of the precious metals forms a separate element of the subject, and one that is not easy to trace out; for in France, as in most other countries, the public returns of the international trade in specie are very incomplete. We know how much gold and silver are raised from mines, and how much thereof is coined by each country; but we are very ill informed as to what becomes of them when once they have issued from the mint. On this head also, however, M. Léon Say has collected some valuable facts. The Customhouse Reports inform us that during the three years from 1871 to 1873 £53,400,000 of bullion were exported, and $\pounds 50,480,000$ were imported; on this showing, therefore, the loss of bullion was only £2,920,000. But as private information gave good reason to believe that the amounts must have been in reality considerably larger, calculations have been made in order to arrive at a more correct conclusion. It appears, from official publications, that the stock of gold and silver in the Christian world is supposed to have increased by £371,000,000 from 1849 to 1867; but the augmentation has not occurred in both the metals, it has taken place in gold only; the quantity of gold is greater by £428,000,000, while, in consequence of exportations to Asia, the quantity of silver has diminished by £57,000,000. Now out of this £428,000,000 of new gold, France alone, in the first instance, received more than half; at least we are

justified in supposing so, from the fact that, during the same period the Paris mint converted £230,000,000 of bar gold into French coin. Of course this quantity of gold did not remain permanently in France; its whole value was not added in reality to the general French stock of metal; as gold arrived in France silver went away; indeed it is imagined that, out of the £200,000,000 of silver which have been coined in France since the year 1800 only £40,000,000 remained in the country in 1869. It is, however, calculated that the £100,000,000 of hard cash, gold and silver together, which were said to really belong to France in 1848, have doubled since; and M. Wolowski, who is regarded as an authority on such questions, declared in the French Chamber, on 4th February last that, in his opinion, the national stock now ranges between £200,000,000 and £250,000,000.

But whatever be the interest of these computations, and useful as it may be to count up the amount of bullion which has come into France, we must look elsewhere for information as to the quantity of it which the consequences of the war took out. We know that the German mint melted down, for its own coinage, £33,880,000 of French napoleons. It is also known, says M. Léon Say, that the Bank of England bought nearly £8,000,000 of the same sort of money between 1870 and 1873. Here, therefore, we can trace the passage out of France, since the war, of nearly $\pounds 42,000,000$ of her gold. But, as Germany drew from London £1,680,000 of the napoleons which she put into the furnace, it may be that that sum was included in the £8,000,000 of the Bank of England, and is therefore counted twice. For this reason the amount really sent to Germany and England may be put at £40,000,000. M. Léon Say adds, that the Bank of Amsterdam bought a further £3,600,000 of French gold; but, as he fancies that this may not have come direct from France, he does not add it to the total, and he holds to £40,000,000 as representing probably the effective loss of gold which France had to support after the war. Of this sum £10,920,000 were exported to Berlin, as we have already shown, by the French Government itself; the other

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tions, and lion which or informances of the int melted napoleons. nk of Engof money n trace the 42,000,000 £1,680,000 it may be the Bank his reason nay be put nk of Amgold; but, rect from holds to re loss of Of this have althe other £29,080,000 were consequently carried out by private firms for transmission to Berlin, and for various other purposes. Silver, however, arrived in considerable quantities to replace the gold. £9,500,000 of silver were coined in Paris between 1870 and 1873; and the Custom-house returns, which are almost always below the truth, show an importation of £12,160,000 of it. From all this, M. Say concludes that £40,000,000 of gold left France; that £12,000,000 of silver came to her; and that the £28,000,000 of difference between the two represents the real total loss of bullion which the war entailed.

But in making this calculation M. Léon Say commits a most wonderful mistake; he entirely omits to take account of the £9,572,000 of silver which the French Government sent to Berlin, and which must, of course, be added to the out-going. When this strange error is corrected, the loss becomes, not £28,000,000, but £38,000,000, of which the Government exported £20,000,000, leaving apparently £18,000,000 instead of £8,000,000, as the sum contributed by private bankers. This difference of £10,000,000 in the issue of the calculation gives some value to another computation which M. Léon Say has made, but which would have had no foundation if this error had not existed. He says, probably with some truth, that the quantity of money in circulation in a country remains usually at the same general total during the same period, whatever be the nature of the various clements which compose it. He then goes on to argue that as the issue of French bank-notes was £44,000,000 higher in September, 1873, than in June, 1870, that increase ought to approximately indicate the amount of metal withdrawn in the interval from circulation, and replaced by notes. But according to his theory, that amount of metal did not exceed £28,000,000, leaving an excess of £16,000,000 of notes, which excess he explains by saying that it represents an equal sum in gold which the French people had hidden away. Now everybody knows that the lower classes of the French people do hide money, do "thesaurise," as they say; but such an explanation of the

missing £16,000,000 is so purely imaginary that it cannot merit any serious credit. The theory assumes, however, a very different form when the error of the £10,000,000 is corrected. In that case we have an extra issue of £44,000,000 in bank-notes, corresponding to a loss of £38,000,000 in gold and silver; and there the two figures get sufficiently close to each other for it to be possible that there really is some relationship between them, without being forced to resort to the possible but improbable solution of thesaurising.

Consequently, with all these various considerations before us, it seems reasonable to suppose that the natures of the bills employed to pay the war indemnity were of three main classes, and were grouped approximately in the following proportions: —

Drafts for foreign subscrip Bills against French bullio	£70,920,000 18,000,000				
Commercial bills and draf revenues from abroad .					81,032,000
General total of bills					£169,952,000

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Before we proceed to sum up the case, and to try to draw from it the teaching it contains, there is one more detail which is worth explaining.

We have alluded to the coining in Paris of a certain quantity of Hamburg silver. To make the story of it clear, it is necessary to remind our readers that, according to the constitution of the Bank of Hamburg, which dates from 1619, accounts were kept by it in a money called marc-banco, and credits were opened by it in that money on the deposit of silver, coined or uncoined, the value of that silver being calculated pure. By degrees the marc-banco, though only an imaginary money, grew to be the universal denominator employed in the home and foreign business of Hamburg; it acquired an importance greater than that of the effective money of many German States. But when the Empire was established, and it was decided to introduce a gold standard into Germany, it became essential to suppress the marc-banco,

THE FRENCH INDEMNITY.

it cannot however, a 10,000,000 issue of a loss of two figures basible that without beble solution

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try to draw more detail

ertain quan-; elear, it is to the confrom 1619, -banco, and deposit of silver being ugh only an ninator emburg; it acctive money was estabandard into narc-banco, for it had the double defect of representing silver and of forming a separate value outside German monetary unity. So it was abolished by law and ordered to disappear, - the plan adopted being that the Bank of Hamburg should liquidate its deposits by paying off, in pure silver, the marcs-banco in circulation. It was, however, stipulated that this right should cease on 15th February, 1873, and that after that day, all persons who held securities in marcs-banco should lose the old right of receiving pure silver, and should only be entitled to half a thaler for each marc-banco, that being the value of the silver represented by the latter. Now the French Treasury had bought, as we have seen, £21,000,000 of bills in marcs-banco, and consequently possessed the right of claiming silver for such of them as fell due before 15th February, 1873, while all the rest from that date were payable in thalers. The thaler was "liberative," while the marc-banco was not; but the pure silver which the marcbanco represented could be coined into five-franc pieces, and be delivered to the German Government at the rate of 3 francs 75 centimes per thaler. The result was that, being by far the largest holder of marcs-banco paper, the French Treasury was able for a time to control the Hamburg market, and it naturally used for its own advantage the power which this position gave it. The Hamburg Bank was utterly unable to deliver the quantity of silver for which France held acceptances in marcs-banco; it was absolutely in the hands of the French Minister of Finance; that functionary appears, however, to have acted very fairly, - to have only asked for silver in moderation, and to have profited by his power solely to obtain conversions into thalers on good conditions. The result was, as we have said, that £3,732,000 of Hamburg silver came to the Paris mint, partly through Government importations on marcs-banco bills, partly through private speculators, who followed the example of the Treasury, and pressed the Hamburg Bank for metal.

Such are, in a condensed form, the essential features of the history of this extraordinary operation; and now that we have completed the account, we need no longer delay the

expression of our admiration of the consummate ability with which it was conducted. Its success may be said to have been, in every point, complete; we cannot detect one sign of a grave hitch or of a serious error in it. It does the highest honor to the officials of the French Treasury, and proves that they possess a perfect knowledge of exchange and banking both in their minutest details and in their largest applications.

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When we look back upon the subject as a whole, three great facts strike us in it: the first, that France is vastly rich; the second, that the trade of Europe has attained such a magnitude that figures are ceasing to convey its measure : the third, that the aggregate commercial action of nations is a lever which can lift any financial load whatever. As we see the transaction now, with these explanations of its composition before us, we cannot fail to recognize that it has been rather European than purely French. All purses helped to provide funds for it; all trades supplied bills for it. In every previous state of the world's commerce such an operation would have been impossible; fifty, thirty, twenty years ago, it would have ruined France and have disordered Europe; in our time it has come and gone without seriously disturbing any of the economic conditions under which we live. France, out of her own stores, has quietly transported to Berlin a quantity of bullion larger than the whole ordinary stock of the Bank of England; and yet she shows no sign of having lost a sovereign. She has paid in her banknotes for £170,000,000 of transmission paper, and yet the quantity of her bank-notes in circulation is now steadily Such realtities as these would be altogether diminishing. inconceivable if we did not see their cause behind them; that cause is simple, natural, indisputable; its name is the present situation of the world's trade. The vastness of that trade explains the mystery.

But yet with these advantages to help it, the operation had, in addition to its enormous size, certain special difficulties to contend with. As one example it may be mentioned that among the elements of perturbation and of

THE FRENCH INDEMNITY.

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consequent impediments to remittance, the French Government had to keep in view the fact that, at the very moment when it needed all the monetary facilities it could obtain. the German Government was locking up gold in its cellars. in order to provide metal for the new coinage it was preparing. This was a most unlucky coincidence; but it existed, and it had to be met. The German plan was to hold back the issue of the new money until £30,000,000 of it were ready to be exchanged for the old silver currency; consequently, no silver could be expected to leave Germany until some months after the date at which the gold had been brought in there; and during the interval France knew that she must suffer from the withdrawal of so much bullion from the general market. But she found assistance in an unexpected way; silver did flow back to her at once from Germany, without waiting for the issue of the new gold currency. France paid Germany £9,572,000 in French silver; but this was of no use to the latter; on the contrary, it was an embarrassment to her, for she was on the point of exporting a quantity of her own silver, which would become superfluous as soon as the new gold got into circulation. So, for this reason, a considerable portion of the French five-franc pieces came back immediately to France, and helped to reconstitute her store.

And all the other difficulties were, more or less, like this one. At first sight they looked grave and durable, but they diminished or disappeared as soon as they were seriously attacked; the whole thing turned out to be an astonishing example of obstacles overrated. The unsuspected wealth of France, assisted by an extent of general commercial dealings which was more unsuspected still, managed to get the better of all the stumbling-blocks and impossibilities which seemed to bar the road. France has lost £400,000,000, one half of which she has delivered to her enemy, and yet she is going on prospering materially as if nothing at all had happened. But it is now quite clear that she never could have managed all this alone; she could have found the money, but never could she, single-handed, have carried it to Germany. It is

there, far more than in subscriptions to her loans, that the world has really helped her; she has bought back the stock that foreigners subscribed for her, but she could not do so without the bills they sold her. If she had been left to her own resources for the transport of the indemnity to Berlin she would probably have been forced to send two thirds of it in bullion, and to empty her people's pockets for the purpose; the vastness of the world's trade and the unity of interests which commerce has produced, permitted her to use other nations' means of action instead of her own.

Viewed in this light, the payment of the five milliards becomes an enormous piece of admirably well-arranged international banking, in which nearly all the counting-houses of Northern Europe took a share. That definition of it is worth knowing, and we may be glad that the information given in M. Say's report has enabled us to arrive at it.

APPLICATION OF THE INDEMNITY.

FROM KOLB'S "THE CONDITION OF NATIONS" (TRANS. BY MRS. BREWER), PP. 290-299.1

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When the North German Confederacy was formed, notwithstanding the transfer of the proceeds of the customs and of other indirect imposts to the Confederacy, and in spite of considerable contributions by the different States, the revenues did not suffice to cover the expenditure, especially that of the establishment of a larger sea force. A deficit was the result, and loans had to be raised.

In the year	1868	th	e	del	bt	of	th	e C	lon	fed	era	сy	
amounted t	ο.											•	£540,000
In 1869 to .													
And in 1870 in													
While in 1871													

The war made the contraction of a further debt unavoidable, both for the States of the North German Confederacy

¹ London: George Bell & Co., 1880.

THE FRENCH INDEMNITY.

as well as for those of South Germany. The sum immediately expended on the war must have amounted to about £51,000,000. The result of the war led to a complete revolution in the condition of finance. We extract the following data from the memorandum which was laid before the Diet by the Imperial Chancellor on February 18, 1874, with regard to the application of the French war contribution: — The *Receipts* amounted to —

1.	War contribution by France	£200,000,000
2	Interest upon this till the payment of the	
	debt	12,047,678
	Total	£212,047,678
3.	Added to this, contribution of the City of	
•	Paris	8,025,879
4.	Customs levied in France and local contri-	
	butions, less cost of collection, so far as	
	these sums were not employed for special	
	military purposes, about	2,609,133
	Total receipts	£222.682.690

Of this sum £12,999,999 must be deducted for the acquisition of railways belonging to a private company in Alsace-Lorraine, the remainder being, therefore, £209,682,691.

Expenditures.

1st. Expenses for which fixed sums were granted by Imperial decrees, namely: ---

For the Imperial Invalid Fund	£28,050,000
For the completion of German fortresses	10,800,000
For fortresses in Alsace-Lorraine	6,037,642
For railroads in the Imperial Dominions, par-	
ticularly the Wilhelm-Luxembourg line	8,210,883
For Imperial war treasures, to be kept in the	
Julius tower of the fortress of Spandau	6,000,000
Compensation for the decrease in the revenue	
caused by alterations in the management of	
the customs and taxes	2,968,907
Imperial Treasury fund, for the administration	
of the marine, and for unredeemable advances	
for the management of the Imperial army.	1,503,000

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formed, notcustoms and nd in spite of tes, the revepecially that eficit was the

£540,000 1,312,338 1,735,743 1,988,882

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For gratuities to generals for distinguished ser-	
vices	600,000
For aid to Germans banished from France	300,000
For exercise ground for the Artillery-trial Com-	
mission	206,250
Expenditure for general purposes defrayed by	
the Imperial Treasury in 1870 and 1871, and	
the additional outlay for troops garrisoned in	
Alsace-Lorraine till the end of 1872	1,249,500

Lastly, £6,195,181 granted by an Imperial decree of July 8, 1873; for marine, £4,206,783; buildings for the Diet, £1,200,000. Supplemental expenses of war, including various other grants, making total of £72,116,704.

To this must be added those outlays the amount of which depends on the sum required for the attainment of the object in view. They may be estimated as follows:--

1.	Con	pensation for damages by war and for	
	w	ar	£5,655,000
2.	Con	ppensation to German ship-owners	840,000
3.	For	war medals	45,000
4.	Inva	lid pensions in consequence of the war of	
	18	370, 1871, and 1872	1,513,466
5.	Add	itional for payment of invalid pensions,	
	pa	yable out of the Imperial Invalid Fund	
	dı	uring the time that that fund was not per-	
	fe	ctly established	897,000
6.	Wai	r expenses connected with the French War	
		sts indemnification, which, according to	
		rt. 5 of the decree of July 8, 1872, are to	
	be	e treated as common charges, viz.:—	
	(a)	For arming and disarming of fortresses .	1,477,078
	(a) (b)	For siege material	1,409,223
		For marine administration	1,402,876
	(c)	For temporary arrangements for coast de-	1,402,010
	(d)	fence, etc.	148,121
	(e)	For laying down and repairing railroads,	H10 907
		etc., necessary for prosecuting the war	718,797
	(f)	For the establishment and working of	
		telegraphs outside the limit of the tele-	00 110
		graph system	30,418

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(g)	For temporary civil administration in France, especially for management of railways in Alsace-Lorraine, till the end of 1871	£563,057
	Further for services which from July, 1, 1871, were in connection with the war, viz.: —	
(h)	Management of the post	33,750
(i)	Management of telegraphs	88,500
(k)	Increased expenditure in the manage- ment of the army, over and above that in time of peace, consequent upon the	
	occupation of French territory	3,150,000
(1)	Further estimates for general expenses to be defrayed by the Imperial Treas-	, ,
	ury, about	37,500

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The total amount of expenditure fund to be deducted from the revenue amounts therefore to £90,125,544, leaving a remainder of £119,057,197 to be divided. It is, however, desirable to retain a moderate reserve for possible deficiencies in the estimated receipts, in expectation of greater requirements in the expenditure.

The sum to be divided may, therefore, be stimated in round numbers at £118,900,000. Three fourths of this were, in accordance with Article 6 of the statute of the 8th of July, 1873, set apart for military purposes, in the proportion specified in the above Article 6, and one fourth to be divided according to a fixed standard of 1871. The sum for division is shared as follows:—

1.	Bavaria	a	•									•			£13,380,061
2.	Würter	nb	erg						•						4,275,130
3.	North	Gei	rma	ın	Coi	nfe	dera	atio	on			•		•	79,517,407
4.	Paden	•	•	•				•	•	•	•	•	•		5,019,977
	Hesse														1,400,051
Fo	r the ne		and		• • •	-									
r .0	r me pa	yıı	en	60	Lex	pe	nses	• •	•	•	•	•	•	•	16,289,521

About £22,500,000 of the entire war contribution were, in obedience to Imperial decrees, applied to civil objects,

300,000 300,000

206,250

249,500

ree of July the Diet, including 704. nt of which f the object

,655,000 840,000 45,000

,513,466

897,000

177,078 109,223 102,876 148,121 118,797

30,418

the rest for purposes of war. The sums which fell to the separate States in the division were also mostly expended in defraying the costs of war, and the repayment of loans for war.

According to the statute of 2d of July, 1873, £16,027,021 of the sum to be divided were set apart for restoring the army to a war-footing and increasing its general efficiency.

We find from a report of the Commission on the State debt, under date April, 1874, that the Imperial Invalid Fund possessed paper of nominal value —

In thalers	• •		•	•	•	•	£23,081,742
In South German guldens.		•		•	•	•	933,187
In Dutch guldens		•		•	•	•	213,333
In English pounds sterling		•	•	•	•	•	918,760
In dollars		•	•	•	•		3,556,800
And in banks	•	• •	•	•	•	•	293

The fortress building fund possessed at the same time a nominal value of £5,229,795 in effects, and a capital of £2,789,913 in the Prussian bank. . . .

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E16,027,021 estoring the efficiency. E State debt, I Fund pos-

3,081,742 933,187 213,333 918,760 3,556,800 293

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XIV.

THE LIQUIDATIONS OF 1873-76.

FROM GIFFEN'S ESSAYS IN FINANCE,¹ PP. 107-131.

WHAT are the characteristic marks of the great depression of trade during the last three or four years? It is now ascertained that such depressions are periodical. They recur at tolerably regular intervals, following in the wake of equally regular periods of great prosperity in trade, when everybody makes profits or seems to make them. The alternation has no doubt its roots in human nature, which lends itself to an ebb and flow, an action and reaction in affairs. The depressions, like the periods of prosperity coming before them, have also many features in common. Just as the prosperity is shown by the prevalence of good credit, an active money market, and a high range of prices for both securities and commodities, so the depression is marked by a low range of prices, heavy failures, bad credit, and consequently a sluggish money market. But each has likewise its own special features and incidents. The erisis in which it begins, or which it produces, indicates some special development of trade at the time, or some special disease in it, - the favorite business of a country changing from time to time, and a constant tendency existing to go to an extreme with the momentary fashion. We propose, then, to inquire what are these special features in the recent depression, - this proceeding being likely, it is obvious, to be more instructive than a mere examination and record of those features which most depressions have in common. There is an additional reason for this course. An impression prevails that the present stagnation of trade is unprecedented in intensity and duration, and

¹ London: George Bell and Sons, 1880.

that it is likely to be permanent. A similar impression has often been found to prevail at such times, and it will be interesting to inquire whether it is now, for once, well founded, or whether in reality the depression is not much less than those to which trade has often been subject, and is not as likely as any other to terminate in a new period of prosperity.

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Endeavoring to answer the question we have put, what we are first struck with, in a general survey of the last three or four years, is the universality of the depression. Ahnost every civilized country has been affected. The beginning was in 1873, with the great Vienna panic and crash in May of that year, - a crash which was accompanied by immense agitation throughout Germany and in England, and the occurrence of incidents on almost every European Bourse, which only stopped short of panic. Next came a great panie and crash in the autumn of 1873 in the United States, perhaps the greatest event of the kind to which that country, though it has had many great panies, has ever been subject. This was accompanied by a renewal of agitation in England, as well as generally on the Continent, as the rates of discount in November, 1873, significantly prove. At that date the minimum bank rate of discount was in London no less than nine per cent, the maximum being two and three per cent higher; the minimum in Paris and Brussels was seven per cent; in Berlin and Frankfort, five per cent; Vienna, five per cent; and Amsterdam, six and a half per cent. The following year was comparatively quiet, but it was marked by great monetary disturbances in South America, and by a great fall in prices both at home, on the Continent, and in the United States. In 1875 came renewed disturbances in South America, a renewal of agitation in the United States and Germany; and then the Im Thurn, Aberdare, Collie, Sanderson, and other failures, constituting the commercial crisis of that year in England. This was in turn succeeded by a great collapse in foreign loans, which had been heralded and partly rehearsed in 1873, on the occasion

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This universality, on a comparison with former periods of erisis, may be in fact apparent only, arising from the greatly increased facilities of observation at the present day. There never was a time, probably, since commerce was sufficiently advanced in more countries than one to admit of crises, in which the commercial misfortunes of one country did not react on countries with which it did business. At such periods as 1825, 1837-39, 1857-58, 1861-62, and 1866-68, it is undoubtedly the case that the crisis in England has been accompanied by more or less severe crises elsewhere, - France, America, England, Holland, and the German towns on the Elbe, having shared each other's misfortunes more or less during the whole period. Now the crisis is felt to be more extended, because we are immediately informed of the events in most distant places, because we see at once the association of failures at centres remote from each other, and because we also see at once the effect in one place of the call upon it to render assistance at another disturbed centre of business. But it is also true that commercial relations are themselves far more extended than was the case before railways and telegraphs; that there are wide regions - in the United States, for instance — which could not have been the subject of crisis twenty or thirty years ago, because they were unpeopled; that such countries as Austria and Russia have lately shared more largely than before in industrial development; and that Germany has also advanced farther in the path which makes it possible for it to be the subject of a commercial crisis. There

is consequently a real reason for the greater extension of the commercial depression of the last three years as compared with anything before witnessed, while it is equally true that steam and telegraphs, by facilitating communication, have destroyed the natural barriers between the different countries of the commercial world. The London money market appears to be the great equalizer of markets, because it receives the shock of every important business event throughout the world, and transmits the shock of what it feels to every other centre. But whatever the nature of the connection, it is certain that there is a connection between commercial crises in different parts of the world, and that the wider range of business increases the possible area of disaster when once disaster has set in.

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The next important characteristic of the depression, and perhaps the most important characteristic of all, appears to be that the conspicuous industry which has failed is that of the "exploitation" of new countries with little surplus capital, and whose business is mainly that of producing raw materials and food for export, by old countries which have large surplus capital, and are largely engaged in manufacturing; in other words, the investment in new countries by the capitalists of old countries. Much bad business is brought to light in every depression; but it is the peculiarity of the commercial cycle, as we have noticed, that there is a change from time to time in the favorite business, so that every period has its special trade development, and special trade disease. The favorite business for many years before 1873 had become that of foreign investment, and now the depression occurs where there was the greatest expansion. Direct evidence in such matters is difficult; it would hardly be possible to measure precisely the extent of the various descriptions of disaster which combine to make a crisis; but there are many facts and circumstances which can leave little doubt in the mind that the direct evidence, if it could be obtained, would wholly confirm the conclusion stated.

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pression, and II, appears to led is that of irplus capital, raw materials large surplus ing; in other capitalists of light in every nercial cycle, time to time as its special The favorite ome that of occurs where ence in such to measure s of disaster any facts and he mind that wholly con-

The order of events in the crisis affords of itself a very striking confirmation of the assumption. The difficulties commenced in the countries more or less farmed by the capital of England and other old countries; whose industries are nourished by public loans from England, and by the investment of private English capitalists within their territories, principally in the form of English iron and manufactures. The crisis in Austria, which was the first in the whole series, was a crisis in a country answering this description to some extent. To the United States, where the next crash occurred, the description is still more applicable. The South American countries, whose prolonged suffering was the special feature of 1874, are almost a domain of England; and Russia, too, is largely "developed" by English capital. Some of these countries, especially Austria and Russia, have not been exclusively dependent on English capital. They have also benefited by the accumulation of capital in Holland, Belgium, and France, which had been drawn largely to Germany before 1873, through the French indemnity, and had overflowed thence into Austria and Russia; but the indomnity payments. though they helped to precipitate and aggravate the crisis i... Austria, did not alter the power of the crisis to react on England. No doubt, in 1873, as already noticed, the collapse of the foreign loan financing had been foreshadowed; but the anticipatory events of that year were in themselves comparatively unimportant, so that down to 1875 what chiefly happened was a succession of monetary and commercial crises in countries dependent on England, but from which England by comparison escaped. In 1875 these crises were succeeded by a crisis in England itself of very great intensity, naturally leading to a renewal of crisis and distress clsewhere, though not of actual panic, and the whole culminating in the financial disorders of the foreign loan collapses, which will probably form, in after years, the most conspicuous feature of the whole series of liquidations. There appears to have been a natural order, therefore, in the successive crises to which the countries dependent on England have been subjected, leading to a crisis in England itself, and finally to a financial as well as a commercial collapse.

We have next to adduce in evidence the fact of the great expansion of the business of investment in foreign countries previous to the depression. The great multiplication of foreign loans in the period is now familiar. Not to speak of Turkish and other loans, which were so largely mere borrowings to pay interest, there was a loan of £32,000,000 for Egypt. after there had been large loans in 1868 and 1870; Chili in the same time (1867–73) borrowed $\pounds 5.250,000$; Peru. £24,000,000; Brazil, £10,000,000; Russia, £77,000,000; and Hungary, £22,000,000, -- exclusive of minor borrowings by guaranteed companies and otherwise. These were the nominal amounts of the loans, and the real money or money's worth ever transmitted to those countries in respect of them must have been much less; but, making all deductions, they indicate an immense direct credit opened up in this country in favor of the States named. The minor borrowings we have referred to were equally important, if not more important, and, especially in the case of the United States, the aggregate of small loans for railways and other purposes was immeuse. All this direct borrowing likewise implied a great investment of capital privately in foreign countries. Merchants and traders were induced to set up establishments abroad to facilitate the business which the loans brought into existence, and accommodate the wants of emigrants to the new fields of industry. The result was a luxuriant industrial growth in the new countries by means of this vast direct and indirect credit which old countries were giving. Thus in the United States, immediately before 1873, the length of the whole railway system had been doubled in seven years; in Russia almost the entire system of 12,000 miles has been created since 1868; in Austria there had been an increase from 2,200 miles in 1865, to over 6,000 miles in 1873; and in South America, Brazil, the River Plate republics, Chili, and Peru, had all been endowed with railways in a very few years, - the loans for these countries above enumerated, and especially the above loan of £24,000,000 for Peru, being avowedly all for railways. And never was there a more rapid development of the foreign trade of the United Kingdom. The total import and export

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That there has been a most disproportionate stoppage of the foreign investment business, which would go far to account for the present depression, is also very obvious. I do not refer so much to the notorious stoppage of the issues of foreign loans, small and great; after every great crisis new issues of almost every kind come to a standstill, as frequent

experience has shown. It was so after 1866, and had been so after similar years of crisis, although I doubt if foreign issues. as distinguished from home enterprises, have ever been so completely stopped as they are now. Quite apart from this, we have unmistakable evidence of the decline in foreign investment business in the financial and industrial embarrassments in new countries, of which, as I write, the great railway strikes in the United States furnish a new illustration. There has also been a diminution of singular magnitude in our export trade. That trade has frequently fallen off in times of general depression, but never to such an extent as has lately been witnessed. The diminution altogether in the exports of home produce and manufactures has been from £256,257,000 in 1872 to £200,639,000 in 1876, the change being partly due, as usual, and perhaps rather more than usual, to a fall in price, but only partially to that cause. There has not since the free trade period been such a decline in our foreign trade, just as there had been no previous example of so great an expansion. The decline has also been mainly in the exports to such countries as the United States, which had been our great borrowers. — the falling off to the United States alone being from £40,737,000 in 1872 to £16,834,000 in 1876, this latter figure being the lowest since 1864. It has also been mainly in such articles as iron and steel; the exports of which diminished from 3,383,000 tons and £35,996,000 in value in 1872, to 2,224,000 tons and £20,787,000 in value in 1876; while the exports to the United States alone fell from 975,000 tons in 1872 to only 160,000 tons in 1876. The recent diminution in our export trade is therefore not only unusual, but it is a diminution of the exports to new countries, and a diminution of those articles which we send abroad for the purpose of new works in such countries. So great a change in one great branch of our business would go far to account for the general depression now prevailing, which is thus once more traced to the failure of our foreign investments.

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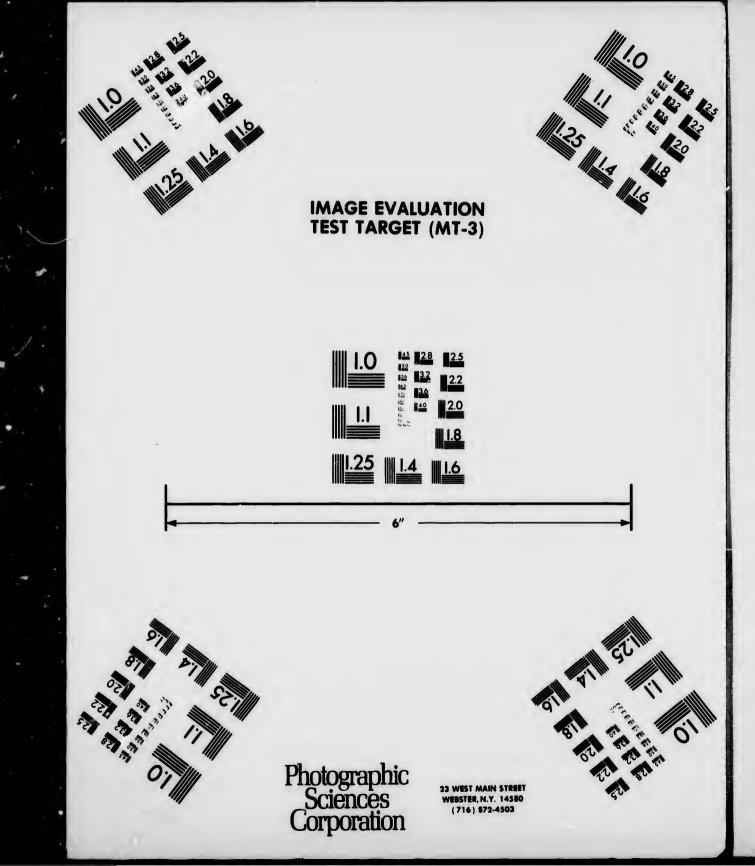
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The embarrassments in the new countries were also connected with the excessive development of their capabilities which had been attempted. A very considerable amount of

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capabilities amount of the railway and other speculation during the last few years has been proved to have been wholly in anticipation of the wants of the world, the evidence of this being an overproduction of raw materials and food, the characteristic products of the new countries. Of this over-production the most significant sign was the low price of wheat in 1875, notwithstanding the bad harvest of that year in several countries. There had previously been complaint of low prices in the United States, - in 1873, for instance, - and of inability to "keep back" crops. Similar complaints had also been received from Russia in 1874. Even in 1876 the price of wheat was slow in rising in the autumn, notwithstanding a generally bad harvest, and the extreme war rise the following spring was only maintained a few days. In other words, the assumption as regards wheat that new countries might be settled indefinitely has proved to be erroncous. The result of what appears to be excessive cultivation is an unremunerative price, which leaves merely agricultural communities in distress, and disturbs their whole system of industry. It has been the same with other raw materials, such as cotton, although perhaps not to the same extent. But in general the business of producing raw materials and food had been overdone, and the crises in Austria and the United States in 1873, followed as they have since been by the similar crises in South America and Russia, were evidence that the power to support the financing of the previous two or three years, which was based on the business of investment in new countrics, had ceased.

The uglier features of the collapse of foreign loans also furnish evidence of the characteristic mark of the crisis with which we have been dealing. In addition to the issue of loans, which involved the investment of capital in a fixed form to an extravagant extent, so that immediate loss and ruin could not but ensue, there had taken place in a few years before 1872 frequent issues of loans in foreign countries so-called, which were only disguises to plunder the public. We refer to the loans for Honduras, Paraguay, San Domingo, and Costa Rica, which were investigated by the Foreign Loans Committee,





and to a numerous class of which these were perhaps the most flagrant specimens. These were simply issues by knots of speculators, usually on the plea that they were for some public work, — to which a small portion of the money raised was perhaps, in fact, devoted, — but really with the design, as carried out by those concerned, to pay themselves large sums in commissions and otherwise, so long as the public could be got to believe in such things by the payment of interest out of the funds they had themselves advanced. All this was very natural. The peculiarity of the time being the development of foreign countries by loans, it was only natural that the illegitimate financing of the time should also consist of socalled loans. As there had been bogus companies in the days of the company mania, so now there were bogus loans.

These are all circumstances tending to show how much the bad business brought to light in the recent depression was connected with the business of investment in new countries, and its accessories, which had previously just received so great an expansion. As we have already remarked, there was much bad business besides. In the set of failures connected with that of Messrs. Collie, what seemed to be shown especially was a peculiar disorder in the trade with India, the result, it is probable, of the undue investment of capital in that trade at a date as far back as the cotton mania in 1863 and 1864. But the bad business of foreign investment and financing has certainly been far the most prominent.

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A third distinguishing mark of the crisis appears to be the singular lightness of its effects on English industry and wages. As has been hinted already, such is not the common impression regarding it. On the contrary, the depression of trade is spoken of in common speech as something entirely unprecedented both in intensity and duration. But a careful examination must prove that, as far as matters have yet gone, the common impression is wrong, and the facts are entirely the other way.

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The common impression appears to be due to a misinterpretation of two undoubted facts; first, the evident magnitude of the financial collapse in foreign loans, which has been productive of great social distress among the classes who have most ample opportunities of proclaiming their grievances; and next, the magnitude of the decline of the foreign trade of the country, which is identified with a decline in its whole trade. But it is easy to see that there is a misinterpretation. The magnitude of the financial collapse is, of course, very serious. The novelty of the deception of the public by bogus loans has increased the evil as compared with the evil of a company mania, while the opportunities of fraud were really more favorable to the conspirators than in the manufacture of bubble companies. A State loan sounds more respectable than a company issue. On the whole, the securities of States for a long period had also answered better than the shares of companies, and although also in former years many State loans had proved the source of loss to English investors, - several South American States, Greece, Spain, and one or two States of the American Union having all proved defaulters, - yet there had been no flagrant instances of loans which were merely cloaks to let promoters and financiers have commissions. The agents and institutions connected with States also controlled larger resources than had been controlled by the financiers of companies. The inability of investors, therefore, to form a good judgment on the investments submitted to them, their disposition to rely on market price, and other extraneous or irrelevant circumstances, was never experimented on so widely, or with more unfortunate results. Hence the magnitude of the had business and the ensuing collapse. In the loans for Turkey, Egypt, and Peru alone, the depreciation of securities within a year after the Turkish collapse amounted to about . £150,000,000, while there is a total destruction or suspension of income from tainted securities exceeding £20,000,000 a year. But great as this collapse is, it has probably affected very little the accumulation or real wealth of the country. Many people feel themselves poorer than they were before, but

the community as a whole is not really poorer by the pricking of all these bladders. A certain number of people are simply prevented from continuing any longer the process of living on their capital, for that is what they were doing when they were spending the so-called interest paid them, which was really only a return of what they had themselves advanced. But the whole of the so-called interest was not so spent, a great deal of it, as is the case with the interest of every description of investment, being reinvested, and in this way the collapse really changes nothing, except to let many people know that their accumulations were imaginary. The direct economic effect is consequently nil, although the 80cial effects and individual disasters are of the most serious The depression of trade attending a financial colkind. lapse ought not, therefore, to be measured by the seeming magnitude of the financial collapse itself, which last may be very great without the ordinary industry of a country being seriously checked.

As regards the second fact which is misinterpreted, namely, the decline of the foreign trade, - the common impression only requires to be challenged to prove its unsound-We have probably a larger proportion of foreign trade ness. than any other great nation. Our workmen and capitalists have gradually come to exchange a larger proportion of the products of their industry for foreign products than any other people. But even yet we are very far from exchanging more than a small part of what we produce. Our whole agriculture is for home consumption; our coal and iron mining, our cotton and wool spinning and weaving, our manufactures generally are also mainly for home consumers. A decline in our foreign trade, therefore, is only a decline in a branch of our whole trade, and should by no means be identified with a general depression in business. The recent decline in the foreign trade, moreover, is almost entirely a decline in "optional" It is a decline in our exports of such articles as business. we have been in the habit of exporting as a means of investing our capital abroad. When we stop such exports, certain branches of home industry, which have been fitted to this

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sinterpreted, he common imve its unsoundof foreign trade and capitalists coportion of the than any other changing more nole agriculture nining, our cotafactures generdecline in our a branch of our fied with a gene in the foreign in "optional" such articles as neans of investexports, certain h fitted to this peculiar trade suffer; but the capital which would otherwise have been sent abroad, and the means of producing that capital, are not destroyed. In the course of time if the taste for foreign investment does not revive, the capital and labor employed in making articles for export will be turned to the production of articles for consumption and investment at home. Instead of merely looking at the foreign trade, then, we should look at our aggregate trade in such times of depression, and not suffer our opinions to be distorted by one or two conspicuous facts.

Coming to the subject in this way, we do not see how it can be doubted that the recent depression, although it is very protracted, is as yet singularly light in degree. Our imports of the chief articles of popular consumption, to begin with, have not diminished but increased. Indeed, one of the favorite complaints about the depression of trade is the old cry of the excess of imports over exports, which is certainly greater than usual because our investments in new countries have ceased for a time, but which is the permanent characteristic of English trade. It is quite certain, however, that no country sends us any goods on credit; it is England which always gives credit in the trade of the world. Whatever increase of imports there may be, then, is a sign of real ability to pay for them, and pro tanto of the undiminished prosperity of the country. To the same effect we have the fact of an increase of railway traffic year after year during the depression. The increase in 1874 and 1876, and again in 1877 has been small; but in 1875, the very year of the great commercial and financial collapse, it was considerable. Evidence in the same sense is also supplied by the non-increase of pauperism all through the depression, and by the steady augmentation of the national revenue until the present year, and by the increase of the savings-bank deposits. The nonincrease of pauperism is no doubt partly due to our improved administration, but no improvement of administration could have prevented such an increase of paupers and decline of revenue as followed the panics of 1847, 1857, and 1866, not to speak of the awful convulsions and distress which marked

the depression of trade in still earlier periods. To any one who has even glanced at the economic history of England during the present century, the common talk now about the "unusual" depression of our trade appears simply ludicrous. The people who indulge in it have simply never thought of what depression of trade is. There has probably never been a great commercial crisis in England which caused so little suffering to the mass of the nation.

When we think of the matter a little it seems reasonable enough also that the depression should be a mild one. Severe as the crisis has been, we were lucky enough to escape an actual panic, with the shock to credit and other lamentable incidents which a panic invariably produces. It is probable also that we were really befriended by the peculiar events in the money market in connection with the The withdrawals of gold for Germany German coinage. had the effect of anticipating the stringency in the money market which a period of great expansion ends in. The expansion was thus hindered from reaching the extreme it would otherwise have reached, and the reaction is less Some good judges are of opinion that we have to severe. thank yet another cause, - the high normal wages of our workmen and their independence of abundant harvests and cheap wheat, as compared with what was formerly the case, so that all our staple industries are steadier than they were. But I should doubt the effect of this cause without greater experience than we have yet had. Workmen will suffer, it is to be feared, in a way in which they have not lately suffered, if another time of expansion such as there was in 1872 should reach its full term and industry be subjected to the But without this cause, the strain of the inevitable reaction. actual facts of the absence of a panic during all this depression, and of the successive stringencies in the money market which checked the exuberant growth of 1872 and 1873, appear quite sufficient to account for the comparative mildness of the effects of the depression we are witnessing.

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The marks of the present depression which we have enumerated are thus its universality, its origin in the breaking down of the bad business of foreign investment, and its mildness in the United Kingdom as compared with former periods of depression. Is there anything in these peculiaritics, or in any other circumstances of the depression, to lead us to anticipate that it will be unusually protracted or that its effects will be permanent? Is the depression, in other words, the beginning of anything unusual or unprecedented ?

To put the questions thus explicitly is perhaps to answer them. Although there is much vague talk about existing depression, - which is really based on an assumption that it is something unheard of and must be lasting, - it is not so easy to assert explicitly what is so confidently assumed. To suppose the permanence of almost any depression would, in fact, be to suppose a change in human nature itself. Universal dulness and poverty are, in fact, contradictions in terms, unless it is supposed that all people will voluntarily be idle when they have the strongest motives to work. Whatever awkwardness there may be in the distribution of labor and capital at certain times, the power to produce and the wish to consume ensure that with the means of production unimpaired, — and there is no allegation that the means of production in the present case are impaired, - production will go on and increase with the increase of population and with every species of chemical and mechanical improvement. It is thus morally certain that if at any time the industrial machine, as a whole, is partially disused and times are dull, a period of full employment and prosperity will return.

And short of the depression being permanent, its effects will not, we think, be worse than usual, if indeed the worst is not already past. The disorder has been very general throughout the world, because industrially the world is getting to be more and more one country; but there is manifestly nothing in the extent of a depression to alter its character or the power of the communities affected to re-

cover. So far as England is concerned, moreover, all that has happened is that a particular part of our trade, -our exports of domestic produce and manufactures, - is momentarily weak, just as in former times the home trade dependent on railway contractors or bubble companies was weak. Our new investments in a particular direction have failed, but that is all. There is clearly no reason in this for any prolonged stoppage or diminished use of the industrial machine for all the miscellaneous purposes of life, although it will only be by degrees that new outlets for our surplus capital can be found. All the reasons assigned to account for the lightness of the depression until now, - the absence of panic, the fact that the collapse is so much a merely financial one, and the circumstance that the expansion previous to the depression was arrested in its natural development,are also reasons why it should not be more protracted than usual. Some new mischief may of course arise, but there is nothing on the face of the facts, according to all former experience, to lead us to expect an aggravation of the present evils.

Nor do the special causes sometimes assigned for expecting an unusual degree and continuance of depression appear to be entitled to much weight. The British workman, it is said, drives business away by his misconduct and his demands for excessive wages. Foreign nations are increasing their manufactures of the very articles of which England till lately had a monopoly. Every import of a foreign manufacture into England, at a time like this, gives occasion for a new exclamation that English industry is threatened. The changes are constantly rung upon such facts as the increased capacity of the United States for the production and manufacture of iron; the importation of certain descriptions of American cotton manufactures into England; the appearance of Belgian and German manufactures in our markets at a cheaper price than the articles can be made by ourselves. But those who use this language appear to fail altogether in measuring the extent of the mischief they point out. A great deal of the apparent competition of foreign manufac-

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The fallacy in the use of these alleged facts as to foreign competition consists, indeed, very largely in the forgetfulness of other facts which are equally material: that our foreign trade itself is not everything to us, but is, after all, only a fraction of our whole business; that long before competition can diminish that trade materially it must produce a fall of wages, while wages abroad will rise if foreign trade increases; and that although foreign countries increase their manufactures, we are not necessarily ruined, - probably we are greatly gainers. To take what seems as formidable a case of possible competition with us as any that is threatened, namely, the increase of the American iron and coal industries under natural conditions. It seems probable enough that in course of time these industrics will be very largely developed in the United States. The people have natural aptitude and skill, and other advantages, and they may produce iron manufactures cheaper than they can buy them abroad. In time they may export them to other countries. But how is England necessarily the poorer for that, and how much? We may come to export a smaller quantity of our iron manufactures to the United States than in the years before 1872; but at most we shall only lose the profit on so much trade, not the whole value of what we sold to the United States, which was, in comparison with our whole trade, by no means a large sum. Nor shall we even lose the whole profit. We can only lose the difference of profit between what was derived from that trade and the return on the less profitable trade, into which a portion of our capital and labor are diverted. Possibly, also, the growth of the world may be such that the expansion of American industry will not be exclusive of, but will be coincident with a similar expansion of our own, - there may be room for both of In that case, there would be no reduction of the profits 118. on our own trade at all, although America had become an exporter of iron manufactures. Ex hypothesi the increase of the American iron trade would also mean that America becomes richer, and consequently a better customer to the world generally for other things, - thus causing an increase of the general prosperity in which, with our extended and various trade, we could not but participate. Worse things may thus happen to us than a natural extension of the American iron trade; and if it is extended by protection only, it There is something can of course do us still less harm. essentially unsound, therefore, in the continual references to

foreign trade ncrease their - probably we formidable a nat is threatron and coal ems probable s will be verv people have ges, and they they can buy to other counorer for that, aller quantity s than in the lose the profit we sold to the th our whole even lose the e of profit bethe return on of our capital rowth of the rican industry t with a simiom for both of of the profits d become an he increase of America beomer to the g an increase extended and Worse things of the Amerction only, it is something references to the increase of manufacturing abroad. Our concern should rather be to have that manufacturing increase. To anticipate that the world outside England is to be merely agricultural or mining, is to anticipate the maintenance throughout the world of the least productive forms of applying human industry, and of low purchasing power among other countries. What mankind require for the greater efficiency of their labor is that the proportion of people employed in agriculture and mining should diminish, and more and more attention should be given to other forms of industry. How England should grow poorer as this transformation is being effected, it is difficult to imagine. It appears to be as clear as any proposition, that the general increase of production, leading to still greater varieties and subdivisions of manufacturing than those which now obtain, must benefit most of all the countries like England, which have got the start of others, and possess all the best manufacturing appliances.

We should fully expect, then, when the liquidations which have been in progress are over, to see once more a great revival of prosperity. Still more, according to all former experience, the prosperity to come must be even greater than anything yet seen. Ever since 1844 there has been an ascending scale in the rate of our industrial advance. The years after 1848-49 were more prosperous than any before, but the prosperity of 1863-65 exceeded that of 1850-53, just as the prosperity of 1870-73 exceeded that of 1863-65. In like manner the next period of prosperity will probably exhibit a fuller development than 1870–73, and for a similar reason, namely, that the productive capacity of civilized nations, in proportion to their numbers, is annually increasing, - being capable of almost indefinite increase. More railways and more machinery, the improved knowledge of chemical and other arts, imply that, one year with another, in proportion to their population, civilized communities can produce more real wealth than they did before. Depression comes at times because mistakes have been made, and the wrong things are produced; but when the mistakes are corrected, or some new favorable influence operates, such as a

good harvest, the tide flows again, industrial communities work up to their full power, and they are all richer than before. Possibly the workmen at a given place may take out their share of the increased production in the privilege of working fewer hours; but the prosperity is there, however it may be enjoyed. The great extension of railways throughout the world in anticipation of real wants, which was the mistake of the period of inflation, should, now that the mistake has been paid for, contribute to a more rapid advance of general prosperity than would take place if the world had fewer railways. . . [1877.¹]

¹ It is obvious that if I were now writing I should have to speak of the liquidations, not of those years only [1873-76], but of 1873-79, and have to explain more points than I could possibly take up when writing in 1877. But I see no reason to doubt the general soundness of the view I have expressed on the course of the present depression and its origin; aithough, subsequent to the date of my writing, bad harvests and other accidents have aggravated that depression [1879]. — R. G.

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XV.

THE UNITED STATES IN 1880.

THE INCREASE OF POPULATION FROM 1790 TO 1880.

FROM WALKER AND GANNETT'S REPORT ON THE PROGRESS OF THE NATION. TENTH CENSUS, VOL. I., PP. XII-XX.

1790.

THE first Census of the United States, taken as of the first Monday in August, 1790, under the provisions of the second section of the first article of the Constitution showed the population of the thirteen States then existing and of the unorganized territory to be, in the aggregate, 3,929,214.

This population was distributed almost entirely on the Atlantic seaboard extending from the eastern boundary of Maine nearly to Florida, and in the region known as the Atlantic plain. Only a very small proportion of the inhabitants of the United States, not, indeed, more than five per cent, was then to be found west of the system of the Appalachian mountains. The average depth of settlement, in a direction at right angles to the coast, was 255 miles. The densest settlement was found in castern Massachusetts, Rhode Island, and Connecticut, and about New York City, whence population had extended northward up the Hudson, and was already quite dense as far as Albany. The settlements in Pennsylvania, which had started from Philadelphia, on the Delaware, had extended northeastward and formed a solid body of occupation from New York through Philadelphia down to the upper part of Delaware.

The Atlantic coast, as far back as the limits of tidewater, was well settled at that time from Casco Bay south-

ward to the northern border of North Carolina. In what was then the District of Maine, sparse settlements extended along the whole seaboard. The southern two thirds of New Hampshire and nearly all of Vermont were covered by population. In New York, branching off from the Hudson at the mouth of the Mohawk, the line of population followed up a broad gap between the Adirondacks and the Catskills, and even reached beyond the centre of the State, occupying the whole of the Mohawk valley and the country about the inte-In Pennsylvania population had rior New York lakes. spread northwestward, occupying not only the Atlantic plain, but with sparse settlements the region traversed by the numerous parallel ridges of the eastern portion of the Appalachians. The general limit of settlement was at that time the southeastern edge of the Allegheny plateau, but beyond this, at the junction of the Allegheny and Monougahela rivers, a point early occupied for military purposes, considerable settlements had been established prior to the War of the Revolution. In Virginia settlements had extended westward beyond the Blue Ridge, and into what is now West Virginia, on the western slope of the Allegheny mountains, though very sparsely. From Virginia also a narrow tongue of settlement had penetrated down to the head of the Tennessee River, in the great Appalachian valley. In North Carolina the settlements were abruptly limited by the base of the Appalachians. The State was occupied with remarkable uniformity, except in its southern and central portion, where population was comparatively sparse. In South Carolina, on the other hand, there was evidence of much natural selection apparently with reference to the character of soils. Charleston was then a city of considerable magnitude, and about it was grouped a comparatively dense population; but all along a belt running southwestward across the State near its central part the settlement was very sparse. This area of sparse settlement joined with that of central North Carolina, and ran eastward to the coast near the junction of the two States. Further westward in the "up country" of South Carolina, the density of settlement was noticeably due to the improve-

na. In what ents extended thirds of New vered by popu-Hudson at the followed up a Catskills, and occupying the about the intepopulation had Atlantic plain, aversed by the on of the Appawas at that time ean, but beyond nd Monongahela urposes, considor to the War of d extended westat is now West heny mountains, a narrow tongue head of the Tenalley. In North ed by the base of with remarkable al portion, where outh Carolina, on natural selection soils. Charlesde, and about it on; but all along ate near its cenis area of sparse th Carolina, and f the two States. South Carolina, to the improvement in soil. At this date settlements were almost entirely agricultural, and the causes for variation in their density were general ones. The movements of population at this epoch may be traced in almost every case to the character of the soil, and to facility of transportation to the seaboard; and as the inhabitants were then dependent mainly upon water transportation, we find the settlements also conforming themselves very largely to the navigable streams.

Outside the area of continuous settlement, which we have attempted to sketch, were found in 1790 a number of smaller settlements of greater or less extent. The principal of these lay in northern Kentucky, bordering upon the Ohio River, comprising an area of 10,900 square miles. Another in western Virginia lay upon the Ohio and Kanawha rivers, and comprised 750 square miles. A third in Tennessee, upon the Cumberland River, embraced 1,200 square miles.

In addition to these, there were a score or more of small posts, or incipient settlements, scattered over what was then an almost untrodden wilderness, such as Detroit, Vincennes, Kaskaskia, Prairie du Chien, Mackinac, and Green Bay, besides the humble beginnings of Elmira and Binghamton, in New York, which, even at that time lay outside the body of continuous settlement.

Following the line which limits this great body of settlement in all its undulations, we find its length to be 3,200 miles. In this measurement no account has been made of slight irregularities, such as those in the ordinary meanderings of a river which forms the boundary line of population; but we have traced all the ins and outs of this frontier line, which seem to indicate a distinct change in the settlement of the country for any cause, whether of progression or of retrogression. The area of settlement, thus, is the area embraced between the frontier line and the coast, diminished by such unsettled areas as may lie within it, and increased by such as lie without it. These are not susceptible of very accurate determination, owing to the fact that our best maps are, to a certain extent, incorrect in boundaries and areas; but all the accuracy required for our present purpose can be secured. The settled area of 1790, as indicated by the line traced, is 226,085 square miles. The entire body of continuously settled area lay between 31° and 45° north latitude and 67° and 83° west longitude.

Outside of this body of continuous settlement are the smaller areas mentioned above, which, added to the main body of settled area, give as a total 239,935 square miles, the aggregate population being 3,929,214, and the average density of settlement 16.4 to the square mile.

In 1790 the District of Maine belonged to Massachusetts. Georgia comprised not only the present State of that name, but nearly all of what are now the States of Alabama and Mississippi. The States of Kentucky and Tennessee were then known as the "Territory south of the Ohio River," and the present States of Ohio, Indiana, Illinois, Michigan, Wisconsin, and part of Minnesota, as the "Territory northwest of the Ohio River." Spain claimed possession of what is now Florida, with a strip along the southern border of Alabama, Mississippi, and all of the region west of the Mississippi River.

An inspection of the maps relating to the earlier census years will show that the progress of population westward across the Appalachian system has taken place, in the main. along four lines. The northernmost of these, which was the first to be developed, runs through Central New York, following up, generally, the Mohawk River. This line has, throughout our history, been one of the principal courses of population in its westward flow. The second crosses southern Pennsylvania, western Maryland, and northern Virginia, parallel to and along the course of the upper Potomae. The third runs through Virginia, passing southwestward down the great Appalachian valley, crossing thence over into Kentucky and Tennessee. South of this, the principal movement westward has been around the end of the Appalachian chain, through Georgia and Alabama.

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embraces 282,208 square miles, it describes a course, when measured in the same manner as that of 1790, of only 2,800 lineal miles. The advancement of this line has taken place in every direction, though in some parts of the country much more markedly than in others.

In Maine and New Hampshire there is apparent only a slight northward movement of settlement; in Vermont, on the other hand, while the settled area has not decidedy increased, its density has become greater. Massachusetts shows but little change, but in Connecticut the settlements along the lower course of the Connecticut River have appreciably increased.

In New York settlement has poured up the Hudson to the mouth of the Mohawk, and thence through the great natural roadway westward. The narrow tongue which before extended out beyond the middle of the State has now widened until it spreads from the southern border of the State to Lake Ontario. A narrow belt of settlement even stretches down the St. Lawrence, and along all the northern border of the State, to Lake Champlain, completely surrounding what may be characteristically defined as the Adirondack region.

In Pennsylvania settlements have extended up the Susquehanna and joined the New York groups, leaving as yet an unsettled space in the northeast corner of the State, which comprises a body of rugged mountain country. With the exception of a little strip along the western border of Pennsylvania, the northern part of the State, west of the Susquehanna, is as yet entirely without inhabitants. Population has streamed across the southern half of the State, and settled in a dense body about the forks of the Ohio River, at the present site of Pittsburgh, and thence extended slightly into the State of Ohio. In Virginia we note but little change, although there is a general extension of settlement, with an increase in density, especially along the coast. North Carolina is now almost entirely covered with population; the mountain region has, generally speaking, been nearly all reclaimed to the service of man. In South Carolina there is a general increase in density of settlement, while the

southwestern border has been carried down until now the Altamaha River is its limit. The incipient settlements in northern Kentucky have spread southward across the State. and even into Tennessee, forming a junction with the little settlement, noted at the date of the last census, on the Cumberland River. The group thus formed has extended down the Ohio, nearly to its junction with the Tennessee and the Cumberland, and across the Ohio River into the present State of Ohio, where we note the beginning of Cincinnati. Other infant set⁺lements appear at this date. On the east side of the Mississippi River, in the present State of Mississippi, is a strip of settlement along the bluffs below the Yazoo bottom. Besides the settlement on the present site of St. Louis, not at this time within the United States, is an adjacent settlement in what is now Illinois, while all the pioneer settlements previously noted have grown to a greater or less extent.

From the region embraced between the frontier line and the Atlantic must be deducted the Adirondack tract, in northern New York, and the unsettled region in northern Pennsylvania already referred to; so that the actual area of settlement, bounded by a continuous line, is to be taken at 271,908 square miles. All this lies between 30° 45' and 45° 15' north latitude, and 67° and 88° west longitude.

To this should be added the aggregate extent of all settlements lying outside of the frontier line, which collectively amount to 33,800 square miles, making a total area of settlement of 305,708 square miles. As the aggregate population is 5,308,483, the average density of settlement is 17.4.

The infant settlements of this period have been much retarded at many points by the opposition of the Indian tribes; but in the neighborhood of the more densely settled portions of the northern part of the country these obstacles have been of less magnitude than farther south. In Georgia, especially, the large and powerful tribes of Creeks and Cherokees have stubbornly opposed the progress of population.

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During the decade just past Vermont, formed from a part of New York, has been admitted to the Union; also Ken-

tucky and Tennessee, formed from the "Territory south of the River Ohio;" Mississippi Territory, having however very different boundaries from the present State of that name, has been organized; while the "territory northwest of the River Ohio" has been divided and Indiana Territory organized from the western portion.

1810.

At 1810 we note great changes, especially the extension of the sparse settlements of the interior. The hills of western New York have become almost entirely covered with population, which has spread along the south shore of Lake Erie well over into Ohio, and has effected a junction with the previously existing body of population about the forks of the Ohio River, leaving unsettled an included heart-shaped area in northern Pennsylvania, which comprises the rugged country of the Appalachian plateau. The occupation of the Ohio River has now become complete, from its head to its mouth, with the exception of small gaps below the mouth of the Tennessee. Spreading in every direction from the "dark and bloody ground" of Kentucky, settlement covers almost the entire State, while the southern border line has been extended to the Tennessee River, in northern Alabama. In Georgia settlements are still held back by the Creek and the Cherokee Indians, although in 1802 a treaty with the former tribe relieved the southwestern portion of the State of their presence, and left the ground open for occupancy by the whites. In Ohio settlements, starting from the Ohio River and from southwestern Pennsylvania, have worked northward and westward, until they cover two thirds of the area of the State. Michigan and Indiana are still virgin territory, with the exception of a little strip about Detroit, in the former State, and a small area in the southwestern part of the latter. St. Louis, from a fur-trading post, has become an important centre of settlement, population having spread northward above the mouth of the Missouri and southward along the Mississippi to the mouth of the Ohio. At the mouth of the Arkansas, in what is now the State of Arkan-

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led from a part ion; also Kensas, is a similar body of settlement. The transfer of the Territory of Louisiana to our jurisdiction, which was effected in 1803, has brought into the country a large body of population, which stretches along the Mississippi River from its mouth nearly up to the present northern limit of the State of Louisiana, up the Red River and the St. Francis, in general occupying the alluvial regions. The incipient settlements noted on the last map in Mississippi have effected a junction with those of Louisiana, while in Lower Alabama and Mississippi a similar patch appears upon the Mobile and the Pearl rivers.

In this decade large additions have been made to the territory of the United States, and many changes have been effected in the lines of interior division. The purchase of Louisiana has added 1,124,685 square miles, an empire in itself, to the United States and has given to us absolute control of the Mississippi and its navigable branches. Georgia, during the same period, has ceded to the United States the portion of its territory which now constitutes the larger part of the States of Alabama and Mississippi. The State of Ohio has been formed from a portion of what previously was known as the "Territory north of the Ohio River." Michigan Territory has been erected, comprising what is now the lower peninsula of Michigan; Indiana Territory has been restricted to the present limits of the State of that name; Illinois Territory comprises all of the present State of Illinois, with that of Wisconsin and a part of Minnesota; while from the Louisiana purchase has been carved under the name of the "Territory of Orleans" all that part of the present State of Louisiana which lies west of the Mississippi river, the remainder of the great territory so cheaply acquired from France being known by the name of the "Louisiana Territory."

At this date the frontier line is 2,900 miles long and includes between itself and the Atlantic 408,895 square miles. From this must be deducted several large areas of unsettled land; first, the area in northern New York, now somewhat smaller than ten years before, but still by no means inconsiderable in extent; second, the heart-shaped area in north-

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es long and in-5 square miles. as of unsettled now somewhat teans inconsidarea in northwestern Pennsylvania embracing part of the Allegheny plateau, in size about equal to the unsettled area in New York; third, a strip along the central part of what is now West Virginia, extending from the Potomac southward, taking in what is now a part of eastern Kentucky and southwestern Virginia, and extending nearly to the border line of Tennessee; fourth, a comparatively small area in northern Tennessee upon the Cumberland plateau. These tracts together comprise 26,050 square miles, making the actual area of settlement included within the frontier line 382,845 square miles. All this lies between latitude 29° 30' and 45° 15' north, and between the meridians of 67° and 88° 30' west.

Beyond the frontier there are, in addition to the steadily increasing number of outposts and minor settlements, several considerable bodies of population, which have been above noted. The aggregate extent of these, and of the numerous small patches of population scattered over the West and South, may be estimated at 25,100 square miles, making the total area of settlement in 1810 407,945 square miles; the aggregate population being 7,239,881, and the average density of settlement 17.7 to the square mile.

Between 1800 and 1810 the principal territorial changes have been as follows: Ohio has been admitted, and the Territories of Illinois and Michigan have been formed from parts of Indiana Territory.

1820.

The decade from 1810 to 1820 has witnessed several territorial changes. Florida at this date (1820) is a blank upon the map. The treaty with Spain, which gives her to us, is signed, but the delivery has not yet taken place. Alabama and Mississippi, made from the Mississippi Territory, have been organized and admitted as States. Indiana and Illinois appear as States with their present limits. The Territory of Louisiana has been admitted as a State. The District of Maine has also been erected into a State. Arkansas Territory has been cut from the southern portion of the Territory of Louisiana. The Indian Territory has been constituted to

serve as a reservation for the Indian tribes. Michigan Territory has been extended to include all of the present States of Michigan, Wisconsin, and part of Minnesota. That part of the old Louisiana Territory remaining, after cutting out Arkansas and Indian Territory, has received the name of "Missouri Territory."

Again, in 1820, we note a great change in regard to the frontier line. It has become vastly more involved and complex, extending from southeastern Michigan, on Lake St. Clair, southwestward into what is now Missouri; thence making a great semicircle to the eastward, it sweeps west again around a body of population in Louisiana, and ends on the Gulf coast in that State. The area included by it has immensely increased, but much of this increase is balanced by the great extent of unsettled land included within it.

Taking up the changes in detail, we note, first, the great increase in the population of central New York, a belt of increased settlement having swept up the Mohawk valley to Lake Ontario, and along its shore nearly to the Niagara River. A similar increase is seen about the forks of the Ohio River, while in northern Pennsylvania the unsettled region on the Appalachian plateau has sensibly decreased in size. The unsettled area in western Virginia and eastern Kentucky has very greatly diminished, population having extended almost entirely over the Allegheny region in these States. The little settlements about Detroit have extended and spread along the shore of Lake Erie, until they have joined those in Ohio. The frontier line in Ohio has crept northward and westward, leaving only the northwestern Population has spread corner of the State unoccupied. northward from Kentucky and westward from Ohio into southern Indiana, covering sparsely the lower third of that State. The groups of population around St. Louis, which at the time of the previous census were enjoying a rapid growth, have extended widely, making a junction with the settlements of Kentucky and Tennessee, along a broad belt in southern Illinois; following the main watercourses, population has gone many scores of miles up the Mississippi and

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the Missouri rivers. The settlements in Alabama, which up to this time had been very much retarded by the Creeks. were rapidly re-enforced and extended, in consequence of the victory of General Jackson over this tribe and the subsequent cession of portions of this territory. Immigration to Alabama has already become considerable, and in a short time the whole central portion of the State, embracing a large part of the region drained by the Mobile River and its branches, will be covered by settlements, to extend northward and effect a junction with the Kentucky and Tennessee settlements, and westward across the lower part of Mississippi until they meet the Louisiana settlements. In Georgia the Cherokees and the Creeks still hold settlement back along the line of the Altamaha River. There are, however, scattered bodies of population in various parts of the State, though of small extent. In Louisiana we note a gradual increase of the extent of redeemed territory, which appears to have been limited almost exactly by the borders of the alluvial region. In Arkansas the settlements, which we saw at 1810 at the mouth of the Arkansas River, have extended up the bottom lands of that river and of the Mississippi, forming a body of population of considerable size. Besides these a small body is found in the southern central part of the State, at the southeastern base of the hill region, and another in the prairie region in the northern part.

The frontier line now has a length of 4,100 miles, embracing an area, after taking out all the unsettled regions included between it, the Atlantic, and the Gulf, of 504,517square miles, all lying between $2?^{\circ}$ 30' and 45° 30' north latitude, and between 67° and 93° 45' west longitude. Outside the frontier line are some bodies of population on the Arkansas, White, and Washita rivers, in Arkansas, as before noted, as well as some small bodies in the Northwest. Computing these at 4,200 square miles in the aggregate, we have a total settled area of 508,717 square miles; the aggregate population being 9,633,822, and the average density of settlement 18.9 to the square mile.

1830.

In the decade from 1820 to 1880 other territorial changes have occurred. In the early part of the decade the final transfer of Florida from Spanish jurisdiction was effected, and it became a Territory of the United States. Missouri has been carved from the southeastern part of the old Missouri Territory, and admitted as a State. Otherwise the States and Territories have remained nearly as before. Settlement during the decade has again spread greatly. The westward extension of the frontier does not appear to have been so great as in some former periods, the energies of the people being mainly given to filling up the included areas. In other words, the decade from 1810 to 1820 seems to have been one rather of blocking out work which the succeeding decade has been largely occupied in completing.

During this period the Indians, especially in the South, have still delayed settlement to a great extent. The Creeks and the Cherokees in Georgia and Alabama, and the Choctaws and the Chickasaws in Mississippi, occupy large areas of the best portions of those States and successfully reaist encroachment upon their territory. Georgia, however, has witnessed a large increase in settlement during the decade. The settlements which have heretofore been stayed on the line of the Altamaha spread westward across the central portion of the State to its western boundary, where they have struck against the barrier of the Creek territory. Stopped at this point, they have moved southward down into the southwest corner, and over into Florida, extending even to the Gulf coast. Westward they have stretched across the southern part of Alabama, and joined that body of settlement which was previously formed in the drainage-basin of the Mobile The Louisiana settlements have but slightly in-River. creased, and no great change appears to have taken place in Mississippi, owing largely to the cause above noted, namely, the occupancy of the soil by Indians. In Arkansas the spread of settlement has been in a strange and fragmentary way. A line reaches from Louisiana up the Arkansas River to the

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Stopped at this to the southwest even to the Gulf oss the southern ettlement which n of the Mobile but slightly inre taken place in a noted, namely, ansas the spread agmentary way. is as River to the State line, where it is stopped abruptly by the boundary of the Indian Territory. It extends up the Mississippi, and joins the great body of population in Tennessee. A branch extends northeastward from near Little Rock to the northern portion of the State. All these settlements within Arkansas Territory are as yet very sparse. In Missouri the principal extension of settlement has been in a broad belt up the Missouri River, reaching to the present site of Kansas City, at the mouth of the Kansas River, where quite a dense body of population appears. Settlement has progressed in Illinois, from the Mississippi River eastward and northward, covering more than half the State. In Indiana it has followed up the Wabash River, and thence has spread until it reaches nearly to the north line of the State. But little of Ohio remains The sparse settlements about Detroit, in Michiunsettled. gan Territory, have broadened out, extending into the interior of the State, while isolated patches have appeared in various other localities.

Turning to the more densely settled parts of the country, we find that settlement is slowly making its way northward in Maine, although discouraged by the poverty of the soil and the severity of the climate. The unsettled tract in northern New York is decreasing, but very slowly, as is also the case with the unsettled area in northern Pennsylvania. In western Virginia the unsettled tracts are reduced to almost nothing, while the vacant region in eastern Tennessee, on the Cumberland plateau, is rapidly diminishing.

At this date, 1830, the frontier line has a length of 5,300 miles, and the aggregate area now embraced between the ocean, the Gulf, and the frontier line is 725,406 square miles. Of this, however, not less than 97,389 square miles are comprised within the included vacant tracts, leaving only 628,017 square miles as the settled area within the frontier line, all of which lies between latitude 29° 15' and 46° 15' north, and between longitude 67° and 95° west.

Outside the body of continuous settlement are no longer found large groups, but several small patches of population appear in Ohio, Indiana, Illinois, Michigan, and Wisconsin,

aggregating 4,700 square miles, making a total settled area, in 1830, of 632,717 square miles. As the aggregate population is 12,866,020, the average density of settlement is 20.3 to the square mile.

1840.

During the decade ending in 1840 the State of Michigan has been created with its present limits, the remainder of the old territory being known as Wisconsin Territory. Iowa Territory has been created from a portion of Missouri Territory, embracing the present State of Iowa and the western part of Minnesota, and Arkansas has been admitted to the Union.

In 1840 we find, by examining the map of population that the process of filling up and completing the work blocked out between 1810 and 1820 has been carried still farther. From Georgia, Alabama, and Mississippi the Cherokee, Creek, Choctaw, and Chickasaw Indians, who, at the time of the previous census, occupied large areas in these States, and formed a very serious obstacle to settlement, have been removed to the Indian Territory, and their country has been opened up to settlement. Within the two or three years which have elapsed since the removal of these Indians the lands relinquished by them have been entirely taken up, and the country has been covered with a comparatively dense settlement. In northern Illinois, the Sac and Fox and Pottawatomie tribes having been removed to the Indian Territory, their country has been promptly taken up, and we find now settlements carried over the whole extent of Indiana, Illinois, and across Michigan and Wisconsin as far north as the forty-third parallel. Population has crossed the Mississippi River into Iowa Territory, and occupies a broad belt up and down that stream. In Missouri the settlements have spread northward from the Missouri River nearly to the boundary of the State, and southward till they cover most of the southern portion, and make connection in two places with the settlements of Arkansas. The unsettled area found in southern Missouri, together with that in north-

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population that work blocked d still farther. the Cherokee, o, at the time in these States, ent, have been ountry has been or three years ese Indians the rely taken up, aratively dense and Fox and to the Indian taken up, and e extent of Insconsin as far n has crossed nd occupies a ouri the settlei River nearly till they cover nection in two unsettled area hat in northwestern Arkansas, is due to the hilly and rugged nature of the country, and to the poverty of the soil, as compared with the rich prairie lands all around. In Arkansas the settlements remain sparse, and have spread widely away from the streams, covering much of the prairie parts of the State. There is, besides the area in northwestern Arkansas just mentioned, a large area in the northeastern part of the State, comprised almost entirely within the alluvial regions of the St. Francis River, and also one in the southern portion, extending over into northern Louisiana which is entirely in the fertile prairie section. The fourth unsettled region lies in the southwest part of the State.

In the older States we note a gradual decrease in the unsettled areas, as in Maine and in New York. In northern Pennsylvania the unsettled section has entirely disappeared. A small portion of the unsettled patch on the Cumberland plateau still remains. In southern Georgia the Okeefenokee swamp and the pine barrens adjacent have thus far repelled settlement, although population has increased in Florida, passing entirely around this area to the south. The greater part of Florida, however, including nearly all the peninsula and several large areas along the Gulf coast, still remains without settlement. This is doubtless due, in part, to the nature of the country, being alternately swamp and hummock, and in part to the hostility of the Seminole Indians, who still occupy nearly all of the peninsula.

The frontier line in 1840 has a length of 3,300 miles. This shrinking in its length is due to its rectification on the northwest and southwest, owing to the filling out of the entire interior. It encloses an area of 900,658 square miles, all lying between latitude 29° and 46° 30' north, and longitude 67° and 95° 30' west. The vacant tracts have, as noted above, decreased, although they are still quite considerable in Missouri and Arkansas. The total area of the vacant tracts is 95,516 square miles. The settled area outside the frontier line is notably small, and amounts, in the aggregate, to only 2,150 miles, making the entire settled area.807,292 square miles in 1840. The aggregate population being 17,069,453, the average density is 21.1 to the square mile.

1850.

Between 1840 and 1850 the limits of our country have been further extended by the annexation of the State of Texas and of territory acquired from Mexico by the treaty of Guadalupe Hidalgo. The States of Iowa, Wisconsin, and Florida have been admitted to the Union, and the Territories of Minnesota, Oregon, and New Mexico have been created. An examination of the maps shows that the frontier line has changed very little during this decade. At the western border of Arkansas the extension of settlement is peremptorily limited by the boundary of the Indian Territory; but curiously enough also, the western boundary of Missouri puts almost a complete stop to all settlement, notwithstanding that some of the most densely populated portions of the State lie directly on that boundary. In Iowa settlements have made some advance, moving up the Missouri, the Des Moines, and other rivers. The settlements in Minnesota at and about St. Paul, which appeared in 1840, are greatly extended up and down the Mississippi River, while other scattering bodies of population appear in northern Wisconsin. In the southern part of the State settlement has made considerable advance, especially in a northeastern direction, towards Green Bay. In Michigan the change has been very slight.

Turning to the southwest we find Texas, for the first time on the map of the United States, with a considerable extent of settlement; in general, however, it is very sparse, most of it lying in the eastern part of the State, and being largely dependent upon the grazing industry.

The included unsettled areas now are very small and few in number. There still remains one in southern Missouri, in the hilly country; a small one in northeastern Arkansas, in the swampy and alluvial region; and one in the similar country in the Yazoo bottom-lands. Along the coast of Florida are found two patches of considerable size, which are confined to the swampy coast regions. The same is the case along the coast of Louisiana. The sparse settlements of our country have of the State of o by the treaty of Wisconsin, and a, and the Terrifexico have been ows that the frons decade. At the of settlement is the Indian Territern boundary of Il settlement, notely populated poroundary. In Iowa oving up the Mis-

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very small and few southern Missouri, istern Arkansas, in ne in the similar long the coast of ble size, which are he same is the case rse settlements of Texas are also interspersed with several patches devoid of settlement. In southern Georgia the large vacant space heretofore noted, extending also into northern Florida, has entirely disappeared, and the Florida settlements have already reached southward to a considerable distance in the peninsula, being now free to extend without fear of hostile Seminoles, the greater part of whom have been removed to the Indian Territory.

The frontier line, which now extends around a considerable part of Texas and issues on the Gulf coast at the mouth of the Nucces River, is 4,500 miles in length. The aggregate area included by it is 1,005,213 square miles, from which deduction is to be made for vacant spaces, in all, 64,339 square miles. The isolated settlements lying outside this body in the western part of the country amount to 4,775 square miles.

But it is no longer by a line drawn around from the St. Croix River to the Gulf of Mexico that we embrace all the population of the United States, excepting only a few outlying posts and small settlements. We may now, from the Pacific, run a line around 80,000 miners and adventurers, the pioneers of more than one State of the Union soon to arise on that coast. This body of settlement has been formed, in the main, since the acquisition of the territory by the United States, and, it might even be said, within the last year (1849–50), dating from the discovery of gold in California. These settlements may be computed rudely at 33,600 square miles, making a total area of settlement at that date of 979,249 square miles, the aggregate population being 23,191,876 and the average density of settlement 23.7 to the square mile.

1860.

Between 1850 and 1860 the territorial changes noted are as follows: the strip of Arizona and New Mexico south of the Gila River has been acquired from Mexico by the Gadsden purchase (1853); Minnesota Territory has been admitted as a State; Kansas and Nebraska Territories have been formed from parts of Missouri Territory; California and

Oregon have been admitted as States, while, in the unsettled parts of the Cordilleran region, two new Territories (Utah and Washington) have been formed out of parts of that terra incognita which we bought from France as a part of Louisiana, and of that which we acquired by conquest from Mexico. At this date we note the first extension of settlements beyond the line of the Missouri River. The march of settlement up the slope of the great plains has begun. In Kansas and Nebraska population is now found beyond the 97th meridian. Texas has filled up even more rapidly, its extreme settlements reaching to the 100th meridian, while the gaps noted at the date of the last census have all been filled by population. The incipient settlements about St. Paul, in Minnesota, have grown like Jonah's gourd, spreading in all directions, and forming a broad band of union with the main body of settlement down the line of the Mississippi River. In Iowa settlements have crept steadily northwestward along the course of the drainage, until the State is nearly covered. Following up the Missouri, population has reached out into the southeastern corner of the present area of Dakota. In Wisconsin the settlements have moved at least one degree farther north, while in the lower peninsula of Michigan they have spread up the lake shores, nearly encircling it on the side next Lake Michigan. On the upper peninsula the little settlements which appeared in 1850 in the copper region on Keeweenaw Point have extended and increased greatly in density as that mining interest has developed in value. In northern New York there is apparently no change in the unsettled area. In northern Maine we note, for the first time, a decided movement towards the settlement of its unoccupied territory, in the extension of the settlements on its eastern and northern border up the St. John River. The unsettled regions in southern Missouri, northeastern Arkansas, and northwestern Mississippi have become sparsely covered by population. Along the Gulf coast there is little or no change. There is to be noted a slight extension of settlement southward in the peninsula of Florida.

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braces 1,126,518 square miles, lying between latitude 28° 30' and 47° 30' north, and between longitude 67° and 99° 30' west. From this deduction should be made on account of vacant spaces, amounting to 39,139 square miles, found mainly in New York and along the Gulf coast. The outlying settlements beyond the 100th meridian are now numerous. They include, among others, a strip extending far up the Rio Grande in Texas, embracing 7,475 square miles (a region given over to the raising of sheep), while the Pacific settlements, now comprising one sovereign State, are nearly three times as extensive as at 1850, embracing 99,900 square miles. The total area of settlement in 1860 is thus 1,194,754 square miles; the aggregate population is now 31,443,321, and the average density of settlement 26.3 to the square mile.

1870.

During the decade from 1860 to 1870 a number of territorial changes have been effected in the extreme West. Arizona, Colorado, Dakota, Idaho, Montana, Nevada, and Wyoming have been organized as Territories. Kansas, Nebraska, and Nevada have been admitted as States. West Virginia has been cut off from the mother Commonwealth and made a separate State.

In 1870 we note a gradual and steady extension of the frontier line westward over the great plains. The unsettled areas in Maine, New York, and Florida have not greatly diminished, but in Michigan the extension of the lumber interests northward and inward from the Lake shore has reduced considerably the unsettled portion. On the upper peninsula the settlements have increased somewhat, owing to the diseovery of the rich iron deposits destined to play so important a part in the manufacturing industry of the country.

Southeastern Dakota. Iowa is entirely reelaimed, excepting a small area of perhaps a thousand square miles in its northwestern corner. Through Kansas and Nebraska the frontier line has moved steadily westward, following in general the courses of the larger streams and of the newly constructed railroads. The frontier in Texas has changed but little, that little consisting of a general westward movement. In the Cordilleran region settlements have extended but slowly. Those upon the Pacific coast show little change, either in extent or in density. In short, we see everywhere the effects of the war in the partial stoppage of the progress of development.

The settlements in the West, beyond the frontier line have arranged themselves mainly in three belts. The most eastern of these is located in central Colorado, New Mexico, and Wyoming, along the eastern base of and among the Rocky mountains. To this region settlement was first attracted in 1859 and 1860 by discovery of mineral deposits, and has been retained by the richness of the soil and by the abundance of water for irrigation, which have promoted the agricultural industry.

The second belt of settlement is that of Utah, settled in 1847 by the Mormons fleeing from Illinois. This community then differed, and still differs, radically from that of the Rocky mountains, being essentially agricultural, mining having been discountenanced from the first by the church authorities, as tending to fill the "Promised Land" with Gentile adventurers, and thereby imperil Mormon institutions. The settlements of this group, as seen on the map for 1870, extend from southern Idaho southward through central Utah, and along the eastern base of the Wahsatch range into northern Arizona. They consist mainly of scattered hamlets and small towns, about which are grouped the farms of the communities.

The third strip is that in the Pacific States and Territories, extending from Washington Territory southward to southern California and eastward to the system of "sinks," in western Nevada. This group of population owes its eristence to the mining industry, the moving cause in nearly all westward migrations. Originated in 1849 by a "stampede" the like of which the world had never before seen, it

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These three great Western groups comprise nine tenths of the population west of the frontier line. The remainder is scattered about in the valleys and the mountains of Montana, Idaho, and Arizona, at military posts, isolated mining camps, and on cattle ranches.

The frontier line in 1870 embraces 1,178,068 square miles, all between 27° 15' and 47° 30' north latitude, and between 67° and 99° 45' west longitude. From this, however, deduction is to be made of 37,739 square miles, on account of interior spaces containing no population. To what remains we must add 11,810 square miles on account of settled tracts east of the 100th meridian, lying outside of the frontier line, and 120,100 square miles on account of settlements in the Cordilleran region and on the Pacific coast, making the total area of settlement for 1870 not less than 1,272,239 square miles, the aggregate population being 38,558,371, and the average density of settlement 30.3 to the square mile.

1880.

In tracing the history of the settlement of our country we are now brought down to the latest census, that of 1880. During the decade just passed Colorado has been added to the sisterhood of States. The first point that strikes us in examining the map showing the areas of settlement at this date, as compared with previous ones, is the great extent of territory which has been brought under occupation during the past ten years. Not only has settlement spread westward over large areas in Dakota, Nebraska, Kansas, and Texas, thus moving the frontier line of the main body of settlement westward many scores of miles, but the isolated settlements of the Cordilleran region and of the Pacific coast show enormous accessions of occupied territory.

The migration of farming population to the northeastern part of Maine has widened the settled area to a marked extent, probably more than has been done during any previous The vacant space in the Adirondack region of decade. northern New York has been lessened in size, and its limits reduced practically to the actual mountain tract. The most notable change, however, in New England and the Middle States, including Ohio and Indiana, has been the increase in density of population and the migration to cities, with the consequent increase of the urban population, as indicated by the number and the size of the spots representing these cities upon the map. Throughout the Southern States there is to be noted not only a general increase in the density of population and a decrease of unsettled areas, but a greater approach to uniformity of settlement throughout the whole region. The unsettled area of the peninsula of Florida has decreased decidedly while the vacant spaces heretofore seen along the upper coast of Florida and Louisiana have entirely disappeared. Although the Appalachian mountain system is still distinctly outlined by its general lighter color on the map, its density of population more nearly approaches that of the country on the east and on the west. In Michigan there is seen a very decided increase of the settled region. Settlements have not only surrounded the head of the lower peninsula, but they leave only a very small body of unsettled country in the interior. In the upper peninsula the copper and the iron interests, and the railroads which subserve them, have peopled quite a large extent of territory. In Wisconsin the unsettled area is rapidly decreasing as railroads stretch their arms out over the vacant tracts. In Minnesota and in eastern Dakota the building of railroads, and the development of the latent capabilities of this region in the cultivation of wheat, have caused a rapid flow of settlement, and row the frontier line of population, instead of returning to I alte Micnigan, as it did ten years ago, meets the boundary ine of the British possessions west of the 97th meridian. The settlements in Kansas and Nebraska have made great strides over the plains, reaching at several points the boun-

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dary of the humid region, so that their westward extension beyond this point is to be governed hereafter by the supply of water in the streams. As a natural result, we see settlements following these streams in long ribbons of population. In Nebraska these narrow belts have reached the western boundary of the State at two points: one upon the South Platte, and the other upon the Republican River. In Kansas, too, the settlements have followed the Kansas River and its branches and the Arkansas nearly to the western boundary of the State. Texas also has made great strides, both in the extension of the frontier line of settlement and in the increase in the density of population, due both to the building of railroads and to the development of the cattle, sheep, and agricultural interests. The heavy population in the prairie portions of the State is explained by the railroads which now traverse them. In Dakota, besides the agricultural region in the eastern part of the Territory, we note the formation of a body of settlement in the Black Hills, in the southwest corner, which, in 1870, was a part of the reservation of the Sioux Indians. This settlement is the result of the discovery of valuable gold deposits. In Montana there appears a great extension of the settled area, which, as it is mainly due to agricultural interests, is found chiefly along the courses of the streams. Mining has, however, played not a small part in this increase in settlement. Idaho, too, shows a decided growth from the same causes. The small settlements which, in 1870, were located about Boisé City, and near the month of the Clearwater, have now extended their areas to many hundreds of square miles. The settlement in the southeastern corner of the Territory is almost purely of Mormons, and has not made a marked increase.

Of all the States and Territories of the Cordilleran region Colorado has made the greatest stride during the decade. From a narrow strip of settlement, extending along the immediate base of the Rocky Mountains, the belt has increased so that it comprises the whole mountain region, besides a great extension outward upon the plains. This increase is the result of the discovery of very extensive and very rich

mineral deposits about Leadville, producing a "stampede" second only to that of '49 and '50 to California. Miners have spread over the whole mountain region till every range and ridge swarms with them. New Mexico shows but little change, although the recent extension of railroads in the Territory and the opening up of mineral resources will, no doubt, in the near future, add largely to its population. Arizona, too, although its extent of settlement has increased somewhat, is but just commencing to enjoy a period of rapid development, owing to the extension of railroads and to the suppression of hostile Indians. Utah presents us with a case dissimilar to any other of the Territories, a case of steady, regular growth, due almost entirely to its agricultural capabilities, as was noted above. This is due to the policy of the Mormon Church, which has steadily discountenanced mining and speculation in all forms, and has encouraged in every way agricultural pursuits. Nevada shows a slight extension of settlement, due mainly to the gradual increase in the agricultural interest. The mining industry is probably not more flourishing at present in this State than it was ten years ago, and the population dependent upon it is, if anything, less in number. In California, as the attention of the people has become devoted more and more to agricultural pursuits, at the expense of the mining and cattle industries, we note a tendency to a more even distribution of the inhabitants. The population in some of the mining regions has decreased, while over the area of the great valley, and in the fertile valleys of the Coast ranges, it has increased. In Oregon the increase has been mainly in the section east of the Cascade range, a region drained by the Des Chutes and the John Day rivers, and by the smaller tributaries of the Snake, - a region which, with the corresponding section in Washington Territory, is now coming to the front as a wheat-producing district. In most of the settled portions here spoken of irrigation is not necessary for the cultivation of crops, and consequently the possibilities of the region in the direction of agricultural development are very great. In Washington Territory, which in 1870 had

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been scarcely touched by immigration, we find the valley west of the Cascade Mountains tolerably well settled throughout, while the stream of settlement has poured up the Columbia into the valleys of the Walla Walla and the Snake rivers and the great plain of the Columbia, induced thither by the facilities for raising cattle and by the great profits of wheat cultivation.

The length of the frontier line in 1880 is 3,837 miles. The area included between the frontier line, the Atlantic and the Gulf coast, and the northern boundary is 1,398,945 square miles, lying between 26° and 49° north latitude and 67° and 102° west longitude. From this must be deducted, for unsettled areas, as follows:—

Maine								•		•	•			Square Miles. 12,000
New York .	•		•		•	•	•					•	•	2,200
Michigan .			•		•	•				•			•	10,200
Wisconsin .		•	•	•	•	•	•		•					10,200
Minnesota .			•		•		•							84,000
Florida														

making a total of 89,400 square miles, leaving 1,309,545 square miles.

To this must be added the isolated areas of settlement in the Cordilleran region and the extent of settlement on the Pacific coast, which amount in the aggregate to 260,025 square miles, making a total settled area of 1,569,570 square miles. The population is 50,155,783, and the average density of settlement 32 to the square mile.

THE FACTORY SYSTEM.

FROM WRIGHT'S REPORT ON THE FACTORY SYSTEM OF THE UNITED STATES, TENTH CENSUS, VOL. II. PP. 537-541.

At the time of the agitation of their independence the desire to plant the mechanic arts in this country became almost a passion, — certainly a feature of the patriotism of the day. Hon. Edward Everett, in an address on American manufactures, in New York, in 1831, stated:—

"The first measures of the patriots aimed to establish their independence on the basis of the productive industry and laborious arts of the country. They began with a non-importation agreement nearly two years before the Declaration of Independence. That agreement, . . . with the exception of the Address to the People of America and Great Britain, was the only positive act of the first Congress."

In this country, as well as in England, the germ of the textile factory existed in the fulling and carding mills; the former, dating earlier, being the mills for finishing the coarse cloths woven by hand in the homes of our ancestors; in the latter, the carding-mill, the wool was prepared for the handwheel. At the close of the Revolution the domestic system of manufactures prevailed throughout the States.

The first attempts to secure the spinning machinery which had come into use in England were made in Philadelphia early in the year 1775, when probably the first spinningjenny ever seen in America was exhibited in that city. During the war the manufacturers of Philadelphia extended their enterprises, and even built and run mills which writers often call factories, but they can hardly be classed under that term. Similar efforts, all preliminary to the establishment of the factory system, were made in Worcester, Massachusetts, in 1780. In 1781 the British Parliament, determined that the textile machinery by which the manufactures of England were

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hachinery which in Philadelphia first spinningthat city. Dura extended their ich writers often inder that term. blishment of the assachusetts, in rmined that the of England were being rapidly extended, and which the continental producers were anxious to secure, should not be used by the people of America, re-enacted and enlarged the scope of the statute of 1774 against its exportation. By 21 George III., c. 37, it was provided that any person who packed or put on board. or caused to be brought to any place in order to be put on any vessel for exportation, any machine, engine, tool, press, paper, utensil, or implement, or any part thereof, which now is or hereafter may be used in the woollen, cotton, linen, or silk manufacture of the kingdom, or goods wherein wool, cotton, linen, or silk are used, or any model or plan of such machinery, tool, engine, press, utensil, or implement, should forfeit every such machine, etc., and all goods packed therewith, and £200, and suffer imprisonment for one year. In 1782 a law was enacted which prohibited, under penalty of £500, the exportation or the attempt to export "blocks, plates, engines, tools, or utensils used in or which are proper for the preparing or finishing of the calico, cotton, muslin, or linen printing manufactures, or any part thereof." The same act prohibited the transportation of tools employed in the iron and steel manufactures. Acts were also passed interdicting the emigration of artificers. All these laws were enforced with great vigilance, and were of course serious obstacles to the institution of the new system of manufacture in America.

The manufacturers of this country were thus compelled either to smuggle or to invent their machinery. Both methods were practised until most of the secrets of the manufacture of common goods were made available here.

The planting of the mechanic arts in this country became a necessity during the War of the Revolution, and afterwards the spirit of American enterprise demanded that New England and the Middle States should utilize the waterpowers which they possessed, and by such utilization supply the people with home manufactures.

When the people of the States saw that the Treaty of Paris had not brought industrial independence, a new form of expression of patriotism took the place of military service;

and associations were formed, the object of which was to discourage the use of British goods; and as the Articles of Confederation did not provide for the regulation of commerce, the Legislatures of the States were besought to protect home manufactures. The Constitution of 1789 remedied the defects of the articles in this respect, and gave Congress the power to legislate on commercial affairs. The Constitution was really the outcome of the industrial necessities of the people, because it was on account of the difficulties and the irritations growing out of the various commercial regulations of the individual States that a convention of commissioners from the various States was held in Annapolis in September, 1786, which convention recommended the one that framed the new or present Constitution of the United States.

Of course those industries whose products were called for by the necessities of the war were greatly stimulated, but with peace came reaction and the flooding of our markets with foreign goods.

The second act under the Constitution was passed July 4, 1789, with this preamble: —

"Whereas it is necessary for the support of the government, for the discharge of the debts of the United States, and for the encouragement and the protection of manufactures, that duties be laid on goods, wares, and merchandise imported;

"Be it enacted, etc."

Patriotism and statute law thus paved the way for the importation of the factory system of industry, and so its institution here, as well as in England, was the result of both moral and economical forces.

As early as 1786, before the adoption of the Constitution of the United States, the Legislature of Massachusetts offered encouragement for the introduction of machinery for carding and spinning by granting to Robert and Alexander Barr the sum of $\pounds 200$ to enable them to complete a roping-machine, and also to "construct such other machines as are necessary for the purpose of carding, roping, and spinning of sheep's wool, as well as of cotton wool." The

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THE FACTORY SYSTEM.

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he Constitution Massachusetts f machinery for bert and Alexn to complete a other machines g, roping, and m wool." The next year these parties were granted six tickets in a landlottery, - others engaged in the invention and construction of cotton-spinning machines at Bridgewater, being associated with the Barrs, who came to Massachusetts from Scotland at the invitation of Hon. Hugh Orr, of Bridgewater, and for the purpose of constructing spinning-machines. There is no doubt that the machinery built by them was the first in this country which included the Arkwright devices; the first factory, however, in America expressly for the manufacture of cotton goods was erected at Beverly, Massa-This enterprise was aided by the Legischusetts, in 1787. lature. The factory at Beverly was built of brick, was driven by horse-power, and was continued in operation for several years, but its career as a cotton-mill was brief, and no great success attended it. About the same time other attempts had been made in Rhode Island, New York, and Pennsylvania, but principally in Rhode Island and that part of Massachusetts contiguous to Rhode Island.

The honor of the introduction of power-spinning machines in this country, and of their early use here, is shared by these last-named States; for while Massachusetts claims to have made the first experiments in embodying the principles of Arkwright's inventions and the first cotton factory in America, Rhode Island claims the first factory in which perfected machinery, made after the English models, was practically employed. This was the factory built by Samuel Slater, in 1790, in Pawtucket, Rhode Island, which still stands in the rear of Mill Street in that city, and the hum of cotton machinery can still be heard within its walls. Previous to 1790 the common jenny and stock-card had been in operation upon a small scale in various parts of the United States, but principally in Pennsylvania, New York, Rhode Island, and Massachusetts; but every endeavor to introduce the system of spinning known as water-frame spinning, or Arkwright's method, had failed. The introduction of this system was the work of Slater, whom President Jackson designated "the father of American manufactures." Samuel Slater was born in Belper, Derbyshire, England,

June 9, 1768, and at fourteen years of age was bound as an apprentice to Jedediah Strutt, Esq., a manufacturer of cotton machinery at Milford, near Belper. Strutt was for several years a partner of Sir Richard Arkwright in the cotton-spinning business; so young Slater had every opportunity to master the details of the construction of the cotton machinery then in use in England; for during the last four or five years of his apprenticeship he served as general overseer, not only in making machinery, but in the manufacturing department of Strutt's factory. Near the close of his term his attention was drawn to the wants of the States by accidentally seeing a notice in an American paper of the efforts various States were making by way of offering bounties to parties for the production of cotton machinery. Slater knew well that under the laws of England he could carry neither machines nor models or plans of machines out of the country; so, after completing his full time with Mr. Strutt, he continued some time longer with him, superintending some new works Mr. Strutt was creeting. This he did that he might so perfect his knowledge of the business in every department that he could construct machinery from memory without taking plans, models, or specifications. With this knowledge Slater embarked at London, September 13, 1789, for New York, where he landed November 17, and at once sought parties interested in cotton manufactures. Finding the works of the New York Manufacturing Company, to whom he was introduced, unsatisfactory, he corresponded with Messrs. Brown & Almy, of Providence, who owned some crude spinning-machines, some of which came from the factory at Beverly, Massachusetts. In January, 1790, Slater made arrangements with Brown & Almy to construct machinery on the English plan. This he did at Pawtucket, making the machinery principally with his own hands, and on the 20th of December, 1790, he started three cards, drawing and roving, together with seventy-two spindles, working entirely on the Arkwright plan, and being the first of the kind ever operated in America.

It is generally supposed that the course of the progress of

THE FACTORY SYSTEM.

ras bound as an anufacturer of Strutt was for kwright in the ad every opporon of the cotton ng the last four as general overthe manufacturhe close of his of the States by an paper of the way of offering tton machinery. Ingland he could of machines out ll time with Mr. th him, superinecting. 'This he e of the business machinery from or specifications. ndon, September lovember 17, and n manufactures. ufacturing Comctory, he corres-Providence, who e of which came s. In January, own & Almy to This he did at lly with his own he started three eventy-two spinn, and being the

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the manufacture of cotton goods in this country is quite clearly marked; yet a careful study of the subject seems rather to dissipate the line of advancement instead of bringing it into clearer view. Dr. Leander Bishop, in his exceedingly valuable work, "A History of American Manufactures," in speaking of the clothing manufacture, states that a correspondent of the "American Museum," writing from Charleston, South Carolina, in July, 1790, refers to a gentleman who "had completed and had in operation on the High Hills of the Santee near Statesburg, ginning, carding, and other machines driven by water, and also spinning-machines, with eighty-four spindles each, with every necessary article for manufacturing cotton. If this information be correct, the attempt to manufacture by machinery the cotton which they were then beginning to cultivate extensively was nearly as early as those of the Northern States."

Certainly this bit of history of attempts in Southern States, of the efforts of Samuel Wetherell, of Philadelphia, of the Beverly Company in Massachusetts, of Moses Brown at Providence, R. I., all before Slater's coming, to introduce spinning by power, illustrates the difficulty of locating the origin of an institution when a country of such proportions as our own constitutes the field. It is safe, historically, to start with Slater as the first to erect cotton machinery on the English plan, and to give the factory system 1790 as its birthday.

The progress of the system has been uninterrupted from 1790, save by temporary causes and for brief periods; but these interruptions only gave an increased impetus to its growth. In 1792, by the invention of the cotton-gin, an American, Eli Whitney, of Massachusetts, residing temporarily in Georgia, contributed as much toward the growth of the factory system as England had contributed by the splendid series of inventions which made the cotton-manufacturing machinery of the system.

The alarm of the people at the increase in the demand for foreign goods took shape again in 1794 and the decade following, and by patriotic appeals to all classes, societies and clubs were formed pledged to wear only home-made goods.

The perfect factory, the scientific arrangement of parts for the successive processes necessary for the manipulation of the raw material till it came out finished goods, had not yet been constructed. As I have said, the power-loom did not come into use in England till about 1806, while in this country it was not used at all till after the war of 1812. In England even it had not been used in the same factory with the spinning-machines. In fact, for many years the custom of spinning the yarn under one management and weaving the cloth under another has prevailed in England.

In 1811 Mr. Francis C. Lowell, of Boston, visited England and spent much time in inspecting cotton factorics, for the purpose of obtaining all possible information relative to cotton manufacture, with a view to the introduction of improved machinery in the United States. The power-loom was being introduced in Great Britain at this time, but its construction was kept very secret, and public opinion was not very favorable to its success. Mr. Lowell learned all he could regarding the new machine, and determined to perfect it himself. He returned to the States in 1814, and at once began his experiments on Broad Street, Boston. His first move was to secure the skill of Paul Moody, of Amesbury, Mass., a well-known mechanic. By and through the encouragement of Mr. Nathan Appleton, a company had been organized by Mr. Lowell and Mr. Patrick T. Jackson, with Mr. Appleton as one of its directors, for the establishment of a cotton manufactory, to be located in Waltham, Mass., on a water privilege they had purchased. This factory was completed in the autumn of 1814, and in it was placed the loom per-

THE FACTORY SYSTEM.

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visited England ctories, for the relative to cotion of improved loom was being its construction not very favore could regardfect it himself. once began his first move was bury, Mass., a encouragement n organized by h Mr. Appleton nt of a cotton ss., on a water was completed the loom perfected by Mr. Lowell, which differed much from the English looms. Mr. Lowell had neither plans nor models for his factory and looms, but in the year named the company set up a full set of machinery for weaving and spinning, there being 1,700 spindles; and this factory at Waltham was the first in the world, so far as record shows, in which all the processes involved in the manufacture of goods, from the raw material to the finished product, were carried on in one establishment by successive steps, mathematically considered, under one harmonious system. Mr. Francis C. Lowell, aided by Mr. Jackson, is unquestionably entitled to the credit of arranging this admirable system; and it is remarkable how few changes have been made in the arrangements established by him in this factory at Waltham.

So America furnished the stone which completed the industrial arch of the factory system of manufactures.

The growth of the factory system [is well] illustrated by the cotton manufacture. After the success of the powerloom, the cotton manufacture took rapid strides, both in Europe and America. The hand-loom and the hand-weaver were rapidly displaced. Factories sprung up on all the streams of Yorkshire and Lancashire, in England, while in this country the activity of the promoters of the industry won them wealth, and won cities from barren pastures. They erected Lowell, Lawrence, Holyoke, Fall River, and many other thriving citics and towns, and now in this generation the industry is taking root upon the banks of Southern streams. The progressive steps of this great trade are shown by the tables which follow. The facts for Great Britain for the year 1833 are taken from Baines' "History of Cotton Manufacture," and have been corroborated as far as possible from other sources; they constitute the most reliable data obtainable for that period. For 1831, for the United States, we have the census returns and other sources, none of them very accurate, yet they give the best approximate figures.

It will be observed that the number of cotton factories in this country was 801 in 1831, 1,240 in 1840, 1,074 in 1850, and that since 1850 there has been a constant decrease in the number of establishments. This is the result of consoli-

dation and the establishment of large works, the smaller factories being closed or united with the large ones.¹ While the number of factories has decreased, the consumption of cotton and the production of goods has steadily increased. Perhaps the best gauge for the progress of the industry is to be found in the quantity of cotton consumed per capita of the population. In Great Britain, in 1831, the home consumption of cotton per capita (excluding the proportion for the export trade) was 6.62 pounds; in 1881 it was 7.75 pounds; in the United States, for 1830, it was 5.9 pounds; in 1880 it was 13.91 pounds. That is, the clothing of the people of this country in 1830 required 5.9 pounds.

If we take the per capita consumption of the factories, including exports and home consumption, the proportion for Great Britain in 1831 was 16.15 pounds; in 1881, 40.8 pounds; for the United States, in 1831, it was, on this basis, 6.1 pounds; in 1880 it had risen to 14.96 pounds. The ratios given as to spindles to persons employed, capital to spindles, product to spindles, capital to product, product to persons employed, while in some sense fallacious, and more valuable to the expert than to the general reader, yet are true for the time given and the existing circumstances, and certainly show the change of circumstances. The ratio of consumption to spindles is of course influenced largely by the number of the yarn produced, and many of the British mills spin finer numbers than do the mills of this country; but whatever may be the cause, the ratio stands as given, and shows that the attendant circumstances, either of machinery or kind of product, or of some other matter, vary as to the two countries.

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FILE FOLLOWING TABLE SHOWS

¹ The number of cotton factories for 1880 should be increased by the number of mills engaged in working raw cotton, waste, or cotton yarn into hosiery, webbing, tapes, fancy fabrics, or mixed goods, or other fabrics which are not sold as specific manufactures of cotton or of wool; some of these work both fibres, but belong more in the class of cotton manufactures than in any other. These establishments, 240 in all, ln 1880, have without doubt been included in the list of cotton-mills heretofore; so that now the total number, to correspond with the past, should be 1,005 cotton factories in the United States in 1880.

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f the factories, c proportion for in 1881, 40.8 s, on this basis, pounds. The loyed, capital to duct, product to acious, and more l reader, yet are cumstances, and The ratio of в. ed largely by the the British mills nis country; but is as given, and her of machinery r, vary as to the

ncreased by the numon yarn into hosiery, abrics which are not e of these work both es thau in any other. subt been included in umber, to correspond ed States in 1880.

THE FOLLOWING TABLE SHOWS THE CONDITION OF THE COTTON MANUFACTURES OF GREAT BRITAIN AND THE UNITED STATES IN THE YEARS NAMED:	THE OF THE C	YEARS NAMED :	ACTURES OF	GREAT BRI	TAIN AND	THE UNITED ST	TATES IN THE	
Countries and Years.	Number of Establishments.	Capital Invested.	Number of Spinuing Spindles,	Number of Rumber of Number of Employés, Loouas. Children.	Number of Employés, Including Children.	Value of Product.	Pounds of Cotton Consumed.	
(1883	1,151	\$170,000,000	9,333,000	100,000	237,000	\$156,693,465	262,700,000	
Great Britain { 1878	2,671	874,720,500	39,527,920	514,911	482,903	474,916,366	1,439,393,000	
(1831	108	40,612,984	1,246,703	33,433	57,466	•••••	77,457,316	
United States { [1890	991	208,280,346	10,653,435	225,759	172,544	192,090,110	750,843,981	

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FOLLOWING TABLE SHOWS THE CONDITION OF THE COTTON-SPINNING AND WEAVING INDUSTRY OF GREAT BRITAIN AND THE	INITED STATES IN THE YEARS NAME!
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Countries and Years.	·LIN	Ratio of Spindles to Persons Employed.	Ratio of Capital to Spindies.	Ratio of Product to Spindles.	Ratio of Capital to Product.	Ratio of Product to Persons Employed.	Years.	Total Annual Consumption of Cotton.	Total Average Consumption of Cotton per Year per Capita of Population.	A verage Consumption of Cotton (exclusive of exports) per Capita of Total Population.
								Pounds.	Pounds.	Pounds.
(1833	•	39 to 1	\$18.21 to 1	\$18.21 to 1 \$16.79 to 1	\$1.00 to \$0.92	\$661.15 to 1 1831	1831	262,700,000	16-15	6 62
Great Britain { 1878	•	82 to 1	9.48 to 1	9.48 to 1 12.01 to 1	1.00 to 1.27	983.46 to 1	1881	1,439,393,000	40.80	91-1
(1831	•	22 to 1	32.58 to 1		· · · ·	•	1830	77,457,316	6-10	6-90
United States (1880	•	62 to 1	19 55 to 1	18.03 to 1	18.03 to 1 1.00 to 0.92 1,113.28 to 1	1,113.28 to 1	1890	750,343,981	96-11	1391

THE COTTON MANUFACTURES.

FROM ATKINGON'S AWNORT ON THE COTTON MANUFACTURES, TENTE CENSUS, VOL. II. PP. 946-955.

The cotton manufacture of the United States may be now considered more firmly established than ever before. The method on which the business is conducted in the United States varies greatly from that of any other country; and this difference arises muscally from a difference not only in the habits and customs of the people, but also in their condition and intelligence.

The home market is the most imperiant one, and may long continue to be so, although the export demand for our fabrics now takes from 7 to 8 per cent of our annual product, and is likely to increase.

In contrast with the cotton manufacturer of Great Britain. our principal rival, we are therefore called upon to meet the demands of an intelligent class of customers, living under substantially uniform conditions, and varying but little in their requirements. Hence we are not called upon for the great variety of fabrics that must be supplied by Great Britain. In consequence of this demand for a great variety of fabrics the work of the cotton manufacturer of England is much more divided than with us. With the exception of a few large establishments, working mainly to supply the home market, few goods are known in England by the name of the factory in which they are made, nor are they sold under the name of the manufacturer; but to a very large extent the yarn is spun in one establishment, woven in another, and finished in a third. The gray cloth is sold to the warehouseman, or to the merchant, to be stamped and packed by him, or to be dyed, bleached, or printed under his direction. If English goods had been sold under the name and stamp of the manufacturer, as cotton goods are in the United States,

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perhaps the substitution of clay for cotton might not have been carried to so great an extent. In the United States cotton goods are spun and woven in the same factory, and whether sold in the gray or bleached, they are almost all stamped and marketed under the name of the factory in which they are made. Each factory, therefore, has its reputation to sustain, and whether the fabric be coarse or fine it is the effort of every one to make it good of its kind.

The same rule applies to printed calicoes. These are marketed under the name of the works in which they have been printed, and the reputation and permanent existence of these works rest upon uniformity in quality, excellence in color and style, and constant progress in the art of design.

We may not claim to be more honest than our rivals, but it is a great error to suppose that it is permanently profitable to make an article that is not what it purports to be. A cotton fabric may be of a low grade, and may be intended to sell at a low price, but yet it is not profitable to substitute clay for cotton; the fabric, whatever it is, has its name and reputation, and must be true to them, or else the demand for it will sooner or later cease. Even goods that are made for linings, and that need to be starched and stiffened in order to be used, must have a uniform quality in the fabric itself to hold a permanent place in our market. Dyed goods that require to be woven on heavily-sized warps cannot, except by rule, be loaded with sizing. If an attempt is made to introduce an article in which clay has been added to make it heavier, it is immediately detected, because the use of sewing-machines is almost universal, and the clay in the fabric heats the needle and exposes the fraud.

In stating those conditions under which the manufacture of cotton is conducted in the United States for the home demand, it is not intended to imply that the use of a foreign substance to give additional weight to a cotton fabric is, of necessity, a fraud. For instance, there is a very large demand in China for materials for the grave-clothes of corpses, and for this use "earth to earth, and dust to dust" may be considered a legitimate rule, even if the earth is conveyed in

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tes may be now er before. The d in the United er country; and ence not only in also in their con-

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of Great Britain, upon to meet the ers, living under ving but little in lled upon for the pplied by Great or a great variety rer of England is the exception of a supply the home y the name of the ey sold under the large extent the in another, and old to the wareed and packed by der his direction. ame and stamp of he United States,

the fabric which is nominally made of cotton. Some of the finest cotton fabrics yet made in the United States, which closely resemble silk, are used mainly for lining coffins.

The principal market for our own fabrics is found among the thrifty working-people, who constitute the great mass of our population.

It has therefore happened that, although we have not until recently undertaken the manufacture of very fine fabrics, the average quality of the fabrics that we do make is better than that of any other nation, with the possible exception of France. It is for the wants of the million that our cotton factories are mainly worked, and we have ceased to import staple goods, and shall never be likely to resume their import. On the other hand, we may for a long period continue to import the finer goods that depend mainly on fashion and style for their use, and that are purely articles of luxury. As has been stated, the substantial fabrics that constitute the main part of our cotton manufacture, and that are used by the masses of the people, are of the best of their kind, with the possible exception of those made in France. The French peasantry are a sagacious and truly economical race, and will not buy a poor fabric if they can get a good one; hence, the cotton fabrics for their use are of a very substantial kind, and are much more free from adulteration than those of any other country in Europe. The common cotton fabrics of England, Belgium, and Germany could hardly be sold in the United States at any price.

The finest printed calieoes of France and England may be the best of their kind; but the printed calicoes for the use of the multitude, and which constitute the really important branch of this department of the manufacture, are of much better quality in the United States than in Europe, and are also of finer colors and of more varied styles. a

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In fact, one of the chief obstacles that it has been necessary to overcome in the introduction of unbleached American cotton fabrics in the English market, and in other markets heretofore supplied by England, has been their apparently open texture, owing to the absence of heavy sizing. In the

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it has been necesleached American in other markets their apparently vy sizing. In the United States the sizing used upon the warp, and which is necessary in order to weave it, is made from corn or potato starch, free from any substance intending to make it heavier. In the gray cloth the sizing, therefore, constitutes only $2\frac{1}{2}$ to 5 per cent of the weight, and when the fabric is washed it shrinks more in measure than it loses in weight; hence a square yard washed and dried without stretching will be heavier than a square yard taken directly from the loom.

In England, on the other hand, even the pure sizing is made from wheat flour, which is very glutinous; and the fabrics thus woven, even where no adulteration is intended, lose from 10 to 12 per cent of their weight on the first washing. These pure goods are, however, made chiefly for the home consumption of the richer classes of England. The greater part of the English cotton fabrics, exported or used by the working-classes, are loaded with from 10 to 40 per cent of clay and other substances. The art of sizing has been highly perfected in England, and has been made the subject of very numerous patents; and, as the use of clay and flour to the extent of 100 pounds to each 100 pounds of cotton-warp yarn involves great danger of mildew, many ingenious chemical applications have also been patented to serve as antiseptics, such as chloride of zinc, chloride of calcium, common salt, white vitriol, etc. These various antiseptics are compounded with flour, gypsum, soapstone, china clay, and other heavy substances in various ways. The English text-books upon the art of sizing are instructive and suggestive, especially in respect to the rules for the purchase of the most glutinous kinds of flour, and for the detection of adulteration in flour, it being obvious that unless the flour is pure and well adapted to the purpose, it would be necessary to use cotton instead of clay to make up the weight of the fabric.

It will, of course, take a good deal of time to accustom buyers to the more open texture of cotton fabrics in which no clay is used; but as time passes American fabrics are being steadily substituted for those previously used by foreign nations, especially in China.

Since the year 1860 the cotton manufacture of the United States has been exposed to greater vicissitudes than any other important branch of the national industry, and the wonder is, not that there should have been some disasters. but that it should have survived at all in the hands of its original owners. In 1860 the whole number of spindles in the United States was 5,235,000. From 1857 to 1860 the cost of constructing a spinning and weaving factory on the medium fabrics woven of No. 25 yarn was from \$16 to \$20 per spindle (the number designates the number of skeins of 840 yards of yarn each in one pound). The value of a bale of cotton of 480 pounds was from \$40 to \$50. Then came the combined effects of war, paper money, and searcity of cotton. At one period more than two thirds of the cotton machinery of the United States was stopped; the value of a bale of cotton rose to over \$900, and the price of some kinds of goods was seven to eight times the present price. A little later new mills were constructed which cost from \$30 to \$40 per spindle.

At the date of the census the number of spindles operated in the specific manufacture of cotton fabrics was 10,653,435; but the spindle has changed in its productive power, and each spindle of 1880 was much more effective than that of 1860. The value of the bale of cotton was again from \$40 to \$50; the standard printing-cloth, which reached 33 cents a yard during the war, was worth 4 cents; the No. 25 mill for spinning and weaving could be built for from \$14 to \$18 per spindle; our export of cotton fabrics was more in value and much more in quantity than in 1860, and the only check to its steady and profitable increase was the renewal Such have been the changes and flueof the home demand. tuations; yet, despite them all, not one spindle in ten has passed from the ownership of the person, firm, or corporation in whose possession it was in 1860, except in the regular process of bequest or voluntary sale.

During the period of inflation or of great vicissitude, the attention of the managers of the property was of necessity devoted to other matters than the improvements and minute

re of the United itudes than any dustry, and the some disasters, the hands of its er of spindles in 857 to 1860 the ig factory on the from \$16 to \$20 mber of skeins of ne value of a bale ₿50. Then came , and scarcity of rds of the cotton bed; the value of the price of some the present price. which cost from

spindles operated s was 10,653,435; re power, and each than that of 1860. from \$40 to \$50; d 33 cents a yard No. 25 mill for from \$14 to \$18 was more in value 50, and the only e was the renewal changes and fluepindle in ten has firm, or corporaxcept in the regu-

ut vicissitude, the was of necessity ments and minute savings in which the profit of the business now consists; but during the last few years very great improvements have been made, and the lesson of economy and saving has been learned. The best example that can be cited may be found in the record of one great factory working upon coarse and substantial fabrics, and consuming more than 20,000 bales of cotton a year. Sixty per cent of its products are sold for export to various parts of the world. The proportion of operatives to each 1,000 spindles has been decreased 43 per cent, or from 26½ to 15. The wages of women, who constitute more than two thirds of the operatives, have been increased 33 per cent. The cost of making the cloth, aside from the material used, has been decreased 21 per cent.

In 1860 the average product of one operative, working one year was 5,317 pounds; in 1880, 7,928 pounds of drill, such as is exported to China. Assuming 5 pounds, or about 16 yards, as the annual requirement of a Chinaman for dress, in 1860 one Lowell operative working one year clothed 1,063 Chinese; in 1880 one could supply 1,586. It will be obvious that no hand spinning and weaving can compete with this product of machinery; yet the machine-made fabrics of Europe and America combined have as yet reached only six or eight in a hundred of the Chinese. How soon the rest will be clothed in cotton fabrics made by machinery from American cotton, therefore, depends but little on whether the wages of the Lowell factory girl be \$4 or \$6 per week, but rather on what exchangeable products the Chinese can produce better or cheaper than we can. The more tea, silk, sugar, and other commodities we buy from them, the more cotton fabrics and other products in which we excel will they buy from us.

It has been held that the cotton of America must be more and more used both in America and elsewhere, and that, as time goes on, almost every other kind, with the exception of the cotton of Egypt, must give place to it. To what extent may the same pre-eminence be secured for the cotton fabrics of the United States in the markets of the world that we have secured in respect to the cotton fibre ?

In the consideration of this branch of the subject, our attention must be given to the present condition of competition between the mills of the Middle and Eastern States with the mills of Great Britain.

In respect to the Eastern States the cotton factories of Lowell in Massachusetts, Manchester in New Hampshire, Biddeford and Lewiston in Maine, may be considered in their relation to the factories of Manchester, Stockport, Preston, and Bolton in England. For the purposes of this comparison it may be assumed that there can be no permanent advantage of one set of mills over the other in respect to the quality and perfection of the machinery. At any given time some advantage may be claimed and admitted on either side in some special department of the mill; but every invention or improvement will sooner or later be adopted on both sides, and the supremacy in the art of converting cotton into cloth must ultimately fall to that country or section which possesses the advantage in respect to the conditions offered to the operatives, and in proximity to the source of the raw material.

The best conditions of life for the operatives, and the best prospects of improving their condition and that of their children, are of the gravest importance. The factors in this problem are education, shelter, subsistence, and opportunity for other kinds of work. In respect to education, the common-school system of the United States assures a thorough training free of cost, and in the principal towns and citics free education is carried to the point of preparing the pupil to enter a university.

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In respect to subsistence, the factories of New England are 3,000 miles nearer the wheat-fields and grazing-grounds of the West than those of Lancashire; and so long as Europe buys food of America our own mills must have the advantage of proximity to the Western prairies. In respect to the rents of dwelling-houses there cannot long be any difference, if there is any at present, because the materials for construction are most abundant in America. Opportunity for other work than that of the factory must continue for many generations, and until this continent is peopled.

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In comparing our power to compete with England we may claim advantages of one kind, and in comparing with the nations of continental Europe we may claim advantages of another kind, in some respects of a different order. In , with England, it is often claimed that our chief comp advantage lies in a certain alleged versatility and power of adapting means to ends, and in great quickness of perception on the part of working-people in respect to the advantages to be gained by the adoption of new processes or inventions. If we have this advantage, there must be special causes for it in the influences that are brought to bear upon the operatives and artisans who do the work; for a very large proportion of them are foreign-born, or are the children of foreign immigrants. Why should they work with any more zeal or judgment here than in the countries whence they have come ? Why are Irish and French-Canadian factory hands to be relied on for more steady work, larger product, better diseipline, more cleanly and wholesome conditions of life than t¹ ratives of England, Belgium, and Germany? To me it appears evident that these advantages, so far as they exist, are due mainly to the following circumstances : ---

First. Our system of common and purely secular schools, attended by the children of rich and poor alike.

Second. Manhood suffrage.

Third. The easy acquisition of land.

Fourth. The habit of saving small sums induced by the establishment of savings-banks throughout the manufacturing States.

Fifth. The absence of a standing army, and the application of the revenue derived from taxes on the whole to useful purposes.

In respect to the first of these influences, the public-school system, the foreign observer generally takes notice only of the quality of the instruction given, and though he may find something to praise, he finds also much to blame. He finds in many cases the instruction bad and the subjects often illchosen, and he wonders at the misdirection of a force that might be so much more wisely applied. What he fails to

notice is that the school itself, entirely apart from its instruc. tion, is the great educator of the children who attend it. The school is, first of all, no respecter of persons; the stupid son of a rich man, led in every class by the son of a me. chanic, cannot in after-life look down on him as an inferior. whatever the conventional position of the two may be; or, if the rich man's son has brains as well as fortune, the poor man's son can never attribute to fortune only the lead that he may take in after-life. The school is thoroughly democratic, and each pupil learns in it that it depends on himself alone what place he may take in after-life, and that, although society may be divided into planes, there is no system of caste and no barrier in the way of social success except the want of character and ability to attain it. The associations of the common school utterly prevent anything like servility in the relation of classes in after-life; and although it is sometimes made a little too manifest that "one man is as good as another, and a little better," on the part of those who are more eager than discreet in their effort to rise, yet on the whole the relation of the various classes, which must in the nature of things always and everywhere exist, is that of mutual respect, and anything like the oldworld distinctions of caste and rank would seem about as absurd to one as to the other. The common school is the solvent of race, creed, nationality, and condition.

In another way the discipline of the school affects the processes of manufacture. In the schools, cleanlincss, order, and regular habits are enforced, with deference to the teachers and respect for authority; and in these later years, this is coupled with the teaching of music and drawing in all the principal towns and cities. When children thus trained are removed to the mill or the workshop, habits of order and cleanliness, with some æsthetic taste, are already established. Nothing strikes an American manufacturer with so much surprise, as the extreme untidiness of the large textile mills of England and the dreariness of the factory towns. In this respect, however, it must be confessed that the managers of the New England mills are greatly

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in these later years, usic and drawing in 7hen children thus workshop, habits of ic taste, are already rican manufacturer e untidiness of the reariness of the fact must be confessed I mills are greatly aided by the absence of smoke, the coal commonly used being anthracite. Much surprise is often expressed by our foreign visitors, at the amount of decoration permitted in the fitting of stationary and locomotive engines and in much of our machinery; but, bad as the taste displayed may sometimes be, it is nevertheless a fact that such engines or machines are better cared for and kept in better repair than where no individuality, so to speak, is permitted. On one of our great railways the attempt was not long since made io dispatch the locomotives as they happened to arrive at the central station, sometimes with one and sometimes with another engine-driver; but the immediate and great increase in the repair account eaused the corporation to return very soon to the eustomary plan of giving each driver a particular locomotive, with which he may be identified.

The instruction of the school also gives every pupil a superficial knowledge, if no more, of the geography and resources of the country, which the universal habit of reading newspapers keeps up. Hence comes the almost entire absence of any fixed character in the labor of the country; every boy believes that he can achieve success somewhere else, if not at home. No congestion of labor can last long. The war and the succeeding railway mania combined concentrated population at certain points to a greater extent than ever happened before, and it has taken more than five years to overcome the difficulty; but within these five years a million or more new inhabitants in Texas, half a million or more in Kansas, and probably two or three millions added to the population of Nebraska, Colorado, Minnesota, and the far Northwest, indicate that the evil has already found a remedy.

It is already apparent that a very slight increase in the demand for skilled workmen in certain branches of employment would not easily be met in the Eastern States except by drawing upon England and Germany. During the years of depression, the cessation of railway building and the use of the excess of railway plant existing in 1873 has caused the dispersion of a large portion of the trained mechanics

and artisans who then did the work of supplying this demand; but these are not the men who have crowded the Eastern cities and caused the apparent excess of laborers out of work. Such men have gone back to the land, or in the new States and Territories have found other ways in which to apply their skill and energy, and they will not return. It may be that the greatest danger to the manufacturers of England will not be in our competition in the sale of goods in neutral markets, but in our competition for the skilled workmen and artisans who make these goods, when we offer them equal or higher wages and better conditions of life in the work that will very soon need to be done to supply the increasing demand in our own country.

The patent system may here be cited also as a factor in our industrial system. It has been carried to an almost absurd extreme, so that it is not safe for any one to adopt a new method, machine, or part of a machine, and attempt to use it quietly and without taking out a patent, lest some sharp person, seeing it in use and not published, shall himself secure a patent and come back to the real inventor with a claim for royalty.

Manhood suffrage, subject as it is to great abuses, and difficult as it has made the problem of the self-government of great cities, where voters do not meet each other, as in the town-meeting, face to face, but where the powers of government are of necessity delegated to men of whom the voters can have little personal knowledge, yet works distinctly in the direction of the safety, stability, and order of the community. Outside of two or three of the very largest cities, where there are concentrated great masses of illiterate citizens, it would be difficult to find a case of serious abuse of the power of taxation except in the South since the war, and even there the evil is now mainly abated.

The easy acquisition of land throughout the country under simple forms of conveyance, registered in every county, gives a motive to economy, and induces habits of saving that are of supreme importance in their effect on society. In the town in which I live, — and in which I can remember the

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e country under ery county, gives saving that are ociety. In the n remember the coming of the first Irishman who became a land-owner, — out of about one thousand owners of real estate, over two hundred are of Irish birth or extraction. The richest one among them came from Ireland in 1846, a steerage passenger. He now pays taxes on property of the value of \$50,000, almost all in real estate. His son is superintendent of the repairs of highways, and is one of the most efficient members of the school committee.

During the last thirty years the factory population of New England has passed through three phases. First came the sons and daughters of the New England farmer; but as the sewing-machine and other inventions opened new demands for womer'z work, women of American birth passed out to easier or better-paid employment, while the men took up other branches requiring more individual skill. These places were taken mainly by Irish, with a few Germans and English. But as the Irish saved their earnings, and as the New England yeomen emigrated to the richer lands of the great West, they passed out of the mills to buy up the deserted farms of the poorer Northeastern States, where, by their persistent industry and manual labor, they achieved success, and gained a position which satisfied them, but with which the native New Englander is no longer contented. Their places in the mills are now being more and more taken by the French Canadians, who, in their new conditions and surroundings, show little of the stolid and unprogressive character which has kept them so long contented on their little strips of land on the Saint Lawrence River. In the very air they breathe they seem to imbibe a new and restless energy, while the intelligence shown by their children in the schools augurs well for their future progress. On the whole the simplicity of our system of land tenure, and the ease with which small parcels may be obtained, must be rated among the most important factors in considering our possible advantage over other countries.

Next in our list comes the savings-bank. In 1875, out of the 1,652,000 inhabitants of Massachusetts, 720,000 were depositors in savings-banks to the amount of \$238,000,000. During the late years of depression the deposit has decreased somewhat in amount, but the decrease has been chiefly owing to the withdrawal of money for other investment, especially in United States bonds. There have been some failures of banks and some losses, as might well have been expected, but they have been less than in any other branch of business; and the savings-bank system stands firmly based on wellearned confidence, and offers an easy means of saving the smallest sums to every man, woman, and child in the State. At the present time the deposits in the savings-banks of Massachusetts amount to about \$240,000,000, owned by about 750,000 persons.

To these causes of quick adaptation to any conditions that may arise, or to any necessity for the application of new methods or devices, may be added the custom, which has almost the force of law, of an equal distribution of estates among the children of the testator. *Tools to him who can use them* is the unwritten law; and neither land nor capital can remain long in the possession of him who cannot direct or use them wisely. Liberty to distribute is esteemed as important a factor in our body-politic as liberty to accumulate, even though the liberty may sometimes lead to the apparent waste of great fortunes.

Finally, it must be held that our freedom from the bloodtax of a standing army, and the fact that the proceeds of taxation are, on the whole, usefully and productively expended, are among our greatest advantages; and this is asserted with confidence, notwithstanding the misgovernment of some great cities and of several of the Southern States. What are these failures but proofs of the general confidence of the people in local self-government? Great frauds and great abuses can only happen where integrity is the common rule; and where each man distrusts his neighbor, or each town, city, or State, distrusts the next, the opportunity for fraud or breach of trust cannot occur. The use of inconvertible paper money during many years has not been without its necessary malign result upon the character of the people, and the newspapers are filled with the fraud

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and corruption that have come to light; but no newspaper has ever yet recorded one fact that offsets many frauds. In the great Boston fire, one of the Boston banks lost not only every book of account but every security and note that was in its vaults, amounting to over \$1,250,000. On the morning after the fire its officers had no evidence or record by which any of the persons or corporators who owed it money could be held to their contracts; yet within a very short time, duplicate notes were voluntarily brought in by its debtors, many of whom knew not whether they could ever pay them because the fire had destroyed their own property, and the known ultimate loss of that bank from the burning of its books and securities was less than \$10,000.

Our army is but a border police. Although its officers are held in honor and esteem, military life is not a career that very many seek, and as time goes on it will become an occupation less and less to be desired. Thus we are spared not only the tax for its support, but the worse tax of the withdrawal of its members from useful and productive pursuits. It is in this respect that we claim our greatest advantage over the nations of continental Europe. What have we to fear from the competition of Germany if we really undertake to beat her in the neutral markets, which we can reach as readily as she can? For a little while, the better instruction of the merchants in her technical and commercial schools may give her advantage; but that can be overcome in a single generation, or as soon as the need is felt with us, as it is now beginning to be felt. After we shall have supplied our present want of technical education, the mere difference between the presence of a great army on her soil and its necessary support, and the absence of such a tax on us, will constitute the difference on which modern commerce turns. When traffic of the world turns on half a cent a yard, a cent a bushel, or a half-penny a pound on the great staples, no nation can long succeed in holding a traffic that is handicapped with a standing army. The protection of Germany from our competition in neutral markets may be offset in our yet more dangerous competition for men. The German

already knows Texas, and in the one block of 60,000 square miles of land by which the State of Texas exceeds the area of the German empire, we offer room and healthy conditions of life for millions of immigrants; and if they come in sufficient numbers, they can raise on that single square of land as much cotton as is now raised in the whole South, that is to say, 5,000,000 bales; and as much wheat as is now raised in the whole North, that is to say, 400,000,000 bushels, and yet subsist themselves beside on what is left of this little patch that will not be needed for these two crops.

It will be obvious that even the least imaginative cannot but be moved by the influences that have been designated. and that versatility and readiness to adopt every labor-saving device will not only be promoted, but will be absolutely forced into action, when such vast areas are to be occupied, and when even the dullest boy is educated in the belief that he also is to be one of those who are to build up this nation to the full measure of its high calling. We may not dare to boast, in view of all we have passed through; but we know that slavery has been destroyed, and that the nation lives stronger, truer, and more vigorous than ever before. We know that it has been reserved for a democratic republic to be the first among nations that, having issued government notes and made them a legal tender, has resumed payment in coin without repudiation or reduction of the promise. We know that we have paid nearly a half of our great national debt already, and that the rest is now mainly held by our own citizens. We believe that within the lives of men of middle age now living, the nation will number one hundred millions, and that, in whatever else we may be found wanting, we cannot long be kept back in our career of material prosperity, which shall be shared with absolute certainty by every one who brings to the work health, integrity, and energy.

If there is any force in this reasoning, our competition with other manufacturing countries, in the supplying of neutral markets with manufactured goods, will not be compassed by the low rates of wages paid to our factory operatives or to

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the working-people engaged in our metal works and other occupations, but first by obtaining and keeping such an advanced position in the application and use of improved tools and machinery as shall make high wages consistent with a low cost of production; secondly, by our ability to obtain the raw materials at low cost. Every employer knows that among employés who are paid by the piece, it is the operative that gains the largest earnings whose production costs the least, because under the control of such operatives the machinery is most effectively guided during working hours. As it is with single operatives, so it is with large masses; if well instructed and working under the incentives to industry and frugality that have been named, their large product will earn for them ample wages, and yet result in a low cost of labor to the employer. Such workmen never have any "blue Monday." The workman who in this country habitually becomes intoxicated is soon discharged, and his place is filled by one who respects himself and values his place too much to risk his position in dissipation.

Competition with England in supplying the markets of Asia, Africa, and South America with cotton goods, is now perhaps the best criterion by which to gauge our ability to compete in other branches of manufacture. It has been often assumed in England that the increasing shipments of cotton goods from this country have been forced by necessity, and merely consisted of lots sold below cost, as a means of obtaining ready money; but there is no ground whatever for this general assumption, even though some small shipments may have been made at first with this view. Our export of cotton fabrics amounts as yet to but 7 or 8 per cent of our production, and is but a trifle compared to that of Great Britain; but it is not made at a loss, and it constitutes a most important element in the returning prosperity of our cotton-mills. The goods exported are mostly made by strong and prosperous corporations, paying regular dividends, and consist mainly of coarse sheetings and drills, which are sold by the manufacturers to merchants, who send them to China, Africa, and South America in payment for tea, silk, ivory,

sugar, gums, hides, and wool. They are not made by oper. atives who carn less than the recent or present rates of wages in England, but in most departments of the mills by those who earn equal wages, or even more. This competition had been fairly begun before the late war in this country, but it is now continued under better conditions. The mills of New England, owing to through connections by rail, are now relatively much nearer the cotton-fields than they were then. Prior to 1860 substantially all the cotton went to the seaports of the cotton States, and from there the cost of moving it to the North or to Liverpool varied but little; but at the present day a large and annually increasing portion of the cotton used in the North is bought in the interior markets. and is carried in covered cars directly to the mills, where the bales are delivered clean, and much more free from damage and waste than those which are carried down the Southern rivers on boats and barges dumped upon the wharves, and then compressed to the utmost for shipment by sea.

In proof that this advantage is an actual one, the following example may be cited: A contract has just been made for the transportation of a large quantity of cotton from Texas to Liverpool at the rate of \$1.10 per 100 pounds, the proportion assigned to the land carriage being 70 cents, to transshipment in Boston and to the steamship 40 cents; the rate of marine insurance is three eighths of 1 pcr cent, and the cost of handling in Liverpool and transportation to Manchester, not less than a quarter of a cent per pound. Bargains may be made to bring cotton from the same point in Texas to the principal factory cities of New England at the rate assigned to the land carriage, namely, 70 cents per 100 pounds. This cotton is brought from the interior towns of Texas to Boston and cannot be carried to Liverpool by way of Galveston or New Orleans so cheaply, else it would not come this way, Assuming the bale to weigh 500 pounds, at 10 cents a pound, we have the following comparative cost: ---

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LOWELL.

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Cost of cotton in Texas, 500 pounds, at 10		
cents, including all local charges	\$50 00	
Freight to Lowell in a covered locked car in		
which the cotton is protected from rain,		
mud, and other causes of waste, at 70		
cents per 100 pounds	8 50	
Total	\$53 50	\$10 70

LANCASHIRE.

500 pounds, at 10 cents, including all local charges	\$50 00	
Freight from Texas to Liverpool, at \$1.10		
per 100 pounds	5 50	
Insurance at three eighths of one per cent on		
\$56	21	
Transshipment in Liverpool, and freight to		
Lancashire, one fourth of a cent	1 25	
Total	\$56 96	11 39
Advantage of Lowell over Lancashire	\$3 46	\$0 69

There may be changes in the rates, but it does not seem probable that the relation of the land to the ocean rate can be much changed, and it would therefore appear that the New England manufacturer will have a permanent advantage in the price of American cotton of any given grade, varying from 6 to 8 per cent as the price of cotton may vary from 12 to 9 cents per pound; and this advantage may be equal to 15 or 25 per cent in ability to pay wages, as the cost of labor varies from a quarter to a third in the total cost of coarse and medium goods, such as constitute the chief part of the demand of the world.

It may be said that this proves too much, and that the cotton spinners of the Southern States will have the same relative advantage over New England. Let this be freely admitted. We are treating the question of the future supremacy of the United States in the manufacture as well as in the growth of cotton, and if the future changes in

made by oper-; rates of wages mills by those competition had ountry, but it is c mills of New y rail, are now they were then. vent to the seae cost of moving ittle; but at the g portion of the interior markets, the mills, where more free from carried down the umped upon the nost for shipment

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population, wealth, and condition of the different sections of this country shall, in the future, cause the increase of spindles especially in coarse fabrics, to be planted in the healthy hill country of northern Georgia, eastern Tennessee, and the Carolinas, it will simply be the greater evidence that natural laws are paramount. If Georgia has twice the advantage over Lancashire that New England now possesses it will only be the fault of the people of Georgia if they do not reap the benefit of it.

It has been stated that our present rates of wages in our cotton factories are higher than they were in 1860, and with our increasing prosperity they will tend to advance; but at the same time the cost of the labor in the finished fabric has been reduced by the greater productive power of the machinery. The fabrics upon which by far the largest part of the spindles and looms of the country are operated may be divided substantially into the following classes:—

1. The printing-cloth, 28 inches wide and 7 yards to the pound. The cost of mill labor in making this fabric, including the salaries, wages, or earnings of every one employed, is now less than one cent, or a half-penny, a yard.

2. The heavy sheeting, 36 inches wide and the heavy drill, 30 inches wide, each weighing from $2\frac{3}{4}$ to 3 yards to the pound. The cost of mill labor in making these fabrics is about $1\frac{1}{4}$ cents per yard.

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3. Shirtings and sheetings, 30 to 36 inches wide, Nos. 20 to 30 yarns, each weighing from 3 to 4 yards to the pound. The cost of mill labor in these goods is from $1\frac{1}{2}$ to 2 cents per yard.

4. The fine sheeting or shirting, from 30 to 40 inches wide, Nos. 30 to 40 yarns, weighing from 3 to 4 yards to the pound. The cost of mill labor in these goods is from 1½ to 3 cents per yard.

5. Fabrics of a similar kind to the above, from 1 to 3 yards wide.

6. Heavy cotton duck, cotton grain-bags, cotton hose, and other special articles.

7. Blue denims, stripes, tickings, brown denims and duck, and other heavy colored goods, substantial ginghams, cottonades, and other fancy woven fabrics of medium or heavy weight.

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nims and duck, and ms, cottonades, and weight. These seven classes comprise more than 95 per cent of our cotton fabrics in weight; to them are to be added lawns, woven fabric of light weight for dresses, and spool-cotton.

In respect of one half of these fabrics, being those of the heavier grade, our proximity to the cotton-field, computed at not less than half a cent per pound, oftener three quarters will enable the New England manufacturer to pay from 15 to 20 per cent higher wages and yet to make the goods, other things being equal, at the same cost as his competitor in Lancashire. On a large portion of the other kinds this advantage in the cost of cotton would be from 10 to 15 per cent.

The natural advantages cannot work immediate results; the ways and means of a great commerce cannot be improvised in a year, hardly in a generation. Much depends on the wisdom of our legislators in framing the acts under which our taxes are collected, whether customs or excise, and yet more upon our adherence to a specie basis in our currency; but in the long run the only reason why we shall not assume a constantly increasing share in the cotton manufacture of the world will be the free choice that our country offers for other occupations of a more profitable or more desirable kind.

Reference has been made to the small proportion of fine spinning in the United States. Within the last few years great progress has been made in spinning and weaving fabrics of Nos. 60 to 100, such as lawns and fine dress goods, and also in spinning fine yarn for spool-cotton. In the latter direction yarns as fine as No. 120 are now spun on the ring spinning-frame, a machine invented in this country and more used than any other for warp spinning, and now being adopted in Europe. Yarns as fine as 550 are spun on mules for three-cord sewing-cotton, and for experiment much finer counts have been reached. It has often been alleged that fine yarns could not be as well spun in the United States as in England, owing to the dry and electrical conditions of the atmosphere during a considerable part of the year. This difficulty has existed in some degree, although not so as to

preclude fine work if it had been profitable to undertake it; but as far as this difficulty existed it has lately been entirely removed by the invention of a very simple and inexpensive apparatus for moistening the air with the finest spray of pure cold water, by which method the air of a spinning or wearing-room may be kept at any desired degree of humidity in the driest day, so that the adverse effect of electricity is entirely overcome.

Whenever the condition and extension of our market will warrant the undertaking, there is now no obstacle to our manufacturing any variety of cotton fabric that is in demand, either coarse or fine.

While it may not be worth while to give historical statistics in relation to the cotton manufacture of this country in the present report, a few words may well be devoted to changes in the work, which have conduced not only to the welfare of the people, but to the welfare of the operatives also.

When the cotton manufacture was first established in the United States water-power was considered essential to the work, and, as a rule, the location of mills was limited to narrow valleys, or places where there was room only for mills of several stories in height. The first mills built were very considerable structures for their time, but they were low-studded, badly lighted, and were heated by stoves; and in these mills the operatives were compelled to work under arduous conditions (owing to the imperfection of the machinery) thirteen to fourteen hours a day. These narrow structures were in some places built seven stories in height. All the plans were made with reference to this form of structure, whether the mill was to be operated by water-power or by steam, until quite a recent period. In 1860 the "normal" cotton-mill (so to speak) had become a factory four or five stories high, about 60 feet wide, varying in length according to the amount of machinery, high-studded, well lighted, thoroughly well ventilated, and heated by radiation from steam-pipes.

In 1866 the machine for sizing yarn, known as the "slasher" was first imported, displacing the machine known

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established in the d essential to the lls was limited to as room only for st mills built were me, but they were ted by stoves; and lled to work under tion of the machinhese narrow strucies in height. All form of structure, water-power or by 860 the "normal" factory four or five n length according led, well lighted, by radiation from

n, known as the the machine known as the "dresser." In the use of the slasher one man and a boy working in a thoroughly well-ventilated room, at a moderate degree of heat, took the place of seven or eight men who had been previously employed in the same work in a room which was of necessity kept at over 100° F., the atmosphere saturated with sour starch. This change removed the only really objectionable kind of work from the cotton factory. In the earlier mills the apparatus for the removal of dust from the factory was very imperfect, but to-day every room even including those in which the cotton is opened, is substantially free from dust; and it happens that the degree of heat and of humidity required for the best work of the cotton factory is one which conduces in great measure to the health of the operative, perhaps a little warmer than may be desirable.

At the present time another change is in progress. The use of water-power is becoming less, its development for the purpose of sale having never proved profitable. The power thus developed has been a valuable auxiliary in the working of the factory, but as a matter of investment the development of land and water-power together have almost without exception failed to be profitable.

The great progress in the construction of the steam-engine and in the economy of fuel is steadily working towards a change to steam as the principal motive-power for the cotton factory. An incidental advantage in this change is that the factory may be placed nearer to the principal markets, where it can be more conveniently supervised and more easily reached. The use of steam also renders a choice of location performant is and the model factory, one or two stories himinates and the more placed upon a level plain, and can be more

the the ventilated and more economically operated than to any other form of building is used. Under these new conditions, better dwellings for the operatives, less crowled, can also be provided, and in every respect the work can be conducted under h tter conditions.

At the present time t e hours of labor in New England, where most of the cot in manufacturing is done, vary from

ten to eleven hours per day. This great change has been brought about by a gradual comprehension of the best conditions both for the laborer and for the capitalist, and without much regard to legislation. It is probable that ere long ten hours will be the limit of factory work throughout New England, either by process of legislation or through the conviction on the part of employers that any longer hours are not profitable, — a conclusion to which many have already come.

A great change has also in the progress of time been effected in the dwellings in which the factory operatives live, in part tending towards better conditions, in part to worse conditions. On the whole there has been less average progress in this direction than in the construction and operation of the mills themselves. The choice of position, however, which is now given by the greater use of steam, gives better opportunities for scattering the dwelling-houses over a wider area at little cost.

A more abundant supply and choice of food has been effected in this as in all other branches of work, to the great benefit of the operatives, by the consolidation and more effective service of railroads. The average work of a male operative over sixteen years of age in a textile factory will earn enough in a day to pay for the transportation of meat and bread for one year, one thousand miles, or from Chicago to Lowell, Lawrence, or Fall River. So far as cost is concerned, the great fields of the West and the factories of the East are in closer proximity than if the factory depended for its food upon its own immediate neighborhood, when served only by wagon-roads. The same changes which have so greatly reduced the railway charges between East and West are now taking place between North and South. The charge for moving cotton is becoming less year by year, and it will soon matter little where the cotton factory is placed, so far as distance between the field and the factory is con-The choice may be made so as to secure the stimucerned. lus of a moderately cold climate, in which in-door labor is more to be desired than out-door, in which the humidity of

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hange has been of the best conalist, and withole that ere long throughout New or through the ny longer hours many have al-

as of time been actory operatives ions, in part to been less average uction and operaof position, howbe of steam, gives celling-houses over

of ford has been work, to the great dation and more ge work of a male extile factory will sportation of meat les, or from Chi-So far as cost is and the factories of

factory depended ghborhood, when anges which have etween East and and South. The year by year, and factory is placed, he factory is consecure the stimuin-door labor is h the humidity of the atmosphere is measurably uniform or is not subject to extremes, and where facilities for repairs on machinery are close at hand, and the population is sufficiently dense to assure an adequate and constant supply of operatives, — mills which are much isolated always working at a disadvantage.

Great changes of a beneficial kind can now be forescen in the application of electricity to the lighting of the factory. The developments in this direction are also such, that, whatever the relative cost of the electric light as compared to gas may be, it is yet so beneficial in other respects, that no factory manager can well afford to dispense with it, not only because of the more perfect work which its use assures, but because the choice of the operative in selecting the place in which to work will render the use of the electric light almost a matter of necessity.

In conclusion, it may be said that the progress in the art of manufacturing cotton fabrics in the last forty years has been very great, distinctly sustaining the rule which affects all the arts to which modern machinery can be applied, namely, that, in proportion to the effectiveness of capital in the form of machinery and the freedom with which it may be applied, the cost of production is lessened and the consumer is served more cheaply; while, on the other hand, the wages of the operatives are increased, the conditions of work made better, and the identity of interests between labor and capital are established.

It may be said that in the absence of any artificial obstructions to traffic between States or nations, the truest guide to the place where the lowest cost of production is compassed may be found by ascertaining where the wages of labor are the highest, and the conditions of life the best; that at that point the lowest cost of production must be found for this reason: both wages and profits are derived from the sale of the thing produced; hence it follows that where the natural conditions of production are best, the machinery most effective, and the labor the most intelligent and skilful, the product will be largest at the least effort to those who do the work, and when the division of this product is made under

the conditions of absolutely free competition, the relative proportion which capital can secure to itself will be least. even though its absolute share be greater and greater as the years go on; but the share which the laborer will receive will increase year by year, both absolutely and relatively. As capital increases the absolute sum of profits is greater. but the relative share of the product secured by capital becomes less. The increase of capital and its effective use by skilled laborers assure a larger production, and the workman obtains a larger share of a larger product, measured in kind or in wages paid in money. In the cotton-mill, as well as in many other arts, special skill is required, but perhaps less general intelligence; therefore a lower grade of operatives may be employed from time to time as the machinery becomes more automatic, but at a steadily increasing rate of wages. Invention may, therefore, be said to enable all conditions of men to attain a higher plane of material welfare, and as one class passes from the factory to other occupations which offer better conditions of life, new improvements enable those who could not do the factory work before, to undertake and carry it on. Thus it has been in the past, since the farmers' daughters of New England left the factory, in which, with much longer hours of work, they earned only about one half the wages now paid; but those who have succeeded them could not then have been capable of doing the work at all which they now so easily accomplish.

THE IRON AND STEEL INDUSTRIES.

n, the relative f will be least, d greater as the er will receive and relatively. rofits is greater, ed by capital beeffective use by nd the workman neasured in kind -mill, as well as red, but perhaps r grade of operaas the machinery increasing rate of to enable all conmaterial welfare, other occupations mprovements enabefore, to underin the past, since eft the factory, in they earned only ose who have sucpable of doing the complish.

THE IRON AND STEEL INDUSTRIES.

FROM SWANK'S STATISTICS OF THE IRON AND STEEL PRODUCTION, TENTH CENSUS, VOL. II. PP. 886-890.

Important Uses of Iron and Steel.

THE pcople of the United States are the largest *per capita* consumers of iron and steel in the world, and of all nations they are also the largest aggregate consumers of these products. Great Britain makes more iron than we do, but she exports about one half of all that she makes. She exports more than one half of the steel that she makes, and yet makes but little more than this country. No other European country equals Great Britain either in the *per capita* or aggregate consumption of iron and steel. This country is not now producing as much iron and steel as it consumes, but imports large quantities of both products, Great Britain being the principal source of our foreign supply. Our exports of iron and steel are only nominal.

A simple enumeration of some of the more important uses to which iron and steel are applied by our people will show how prominent is the part these metals play in the development of American civilization and in the advancement of our greatness and power as a nation.

We have built almost as many miles of railroad as the whole of Europe, and consequently have used in their construction almost as many rails, and now use almost as many railroad cars and locomotives. At the close of 1881 this country had 100,000 miles of railroad, Europe had about 106,000 miles, and all the rest of the world had about 45,000 miles. The United States had nineteen miles of railroad to every 10,000 of population, while Europe had a little more than three miles to the same population. Railroads, it is well known, annually consume more than one half of the world's production of iron and steel, — rails,

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bridges, cars, and locomotives being impossible without The street railway is an American invention these metals. which also consumes large quantities of iron and steel, and we are far in advance of every other nation in its use. We were also the first nation in the world to introduce elevated railways especially to facilitate travel in large cities. In the construction of our New York elevated railways beauty of design, fitness of parts, and strength of materials have been so perfectly combined as to excite the admiration of all who We are the foremost of all nations in the use behold them. of iron and steel in bridge-building for railroads and ordinary highways, and the lightness and gracefulness of our bridges are nowhere equalled, while their strength and adaptability to the uses to which they are required are nowhere surpassed. In the use of iron for water-pipes and gas-pipes we are probably in advance of every other nation. We make more iron stoves for heating halls and dwellings and for the purposes of the kitchen than all the rest of the world, and in the use of heaters and ranges we are behind no other nation. Our household stoves, both for heating and cooking, are works of real art as well as of utility. They are ornaments of American homes, instead of being conveniences simply. Our heating stoves are especially handsome, bright, cheerful, healthful, and clean. In all respects they form the best combination of desirable qualities yet devised for the heating of private dwellings. Cooking and other domestic utensils of iron have always, even in colonial days, been freely used in American We make liberal use both of cast and wrought households. iron in the construction of public and private buildings. Our use of iron for these purposes has in late years been quite marked, and in no respect more so than in the truly artistic We probably excel all effects which we give to this metal. nations in the use of iron for ornamental purposes in connection with masonry, brick-work, and wood-work. Fine illustrations of the artistic combination of iron with other materials may be seen in the interior of the new State Department building at Washington and in the interior of the new passenger depot of the Pennsylvania railroad at Philadelphia. We

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ossible without erican invention n and steel, and in its use. We troduce elevated e cities. In the ilways beauty of crials have been ration of all who nations in the use oads and ordinary ess of our bridges and adaptability owhere surpassed. ipes we are probe make more iron for the purposes rld, and in the use other nation. Our oking, are works of naments of Ameri-Our heatsimply. t, cheerful, healthe best combination heating of private tensils of iron have used in American cast and wrought ate buildings. Our e years been quite n the truly artistic probably excel all ourposes in connecork. Fine illustraith other materials State Department of the new passen-Philadelphia. We lead the world in the use of iron and steel wire for fencing purposes, and we have more miles of telegraph wire in use than any other country. Barbed-wire fencing is an American invention. We have made creditable progress in the construction of iron ships, and we would have made much greater progress if the same encouragement that has been given by other nations to their shipping interests had been given to We use immense quantities of plate-iron in the storours. age, transportation, and refining of petroleum, in the production of which nature has given us almost a monopoly. The oil-wells themselves yearly require thousands of tons of iron pipes for tubing. We make liberal use of plate and sheet iron in the construction of the chimneys of steamboats on our lakes and rivers, and in the construction of factory, rolling-mill, and blast-furnace chimneys, and the stacks of blast-furnaces. American planished sheet-iron has almost entirely superseded Russia sheet-iron in our markets. We use it for locomotive jackets, in the manufacture of stoves and stove-pipe, and for many other purposes. We are the largest consumers of tin plates in the world, -- Great Britain, their principal manufacturer, sending us annually more than one half of her whole product. Portable and stationary engines consume large quantities of iron and steel. Our beautiful steam fireengines are the product of American taste and skill, if they are not strictly an American invention, and we annually make large numbers of them for home use and for exportation. Anchors and chains, cotton-presses and cotton-ties, sugar-pans and salt-pans, and general foundry and machine work annually require large quantities of either iron or steel. We make our own cotton and woollen manufacturing machinery, and nearly all the other machinery that we use. The manufacture of the printing-presses of the country consumes immense quantities of iron and steel. No other country makes such free use of the printing-press as this country. We are the leading agricultural nation of the world, and hence are the largest consumers of agricultural implements; but we are also in advance of every other nation in the use of agricultural machinery. Our use of iron and steel in

agriculture takes rank next to their use in the construction and maintenance of railroads. We lead all nations in the manufacture of cut-nails and spikes. Having a larger and more rapidly increasing population than any other country that is noted for its consumption of iron, we are consequently the largest consumers of nails and spikes in the construction of dwellings and public buildings, stores, warehouses, offices and similar structures. Our extended and varied mining operations consume iron and steel in large quantities. So do our manufactures of scales and balances, letter-presses. burglar-proof and fire-proof safes, sewing-machines, and wagons and carriages. Sewing-machines are an American Considerable quantities of iron or iron and invention. steel are used for sewer and other gratings, street-crossings, iron pavements, lamp-posts, posts for awnings, all sorts of small hardware, horseshoes and horseshoe nails, wire-rope, iron hoops, iron cots and bedsteads, woven-wire mattresses, iron screens, iron railings, and fire-arms. In the manufacture of machine and hand tools and general cutlery we are excelled by no other nation, and in the use of machine tools we are in advance of every other nation. In general cutlery our saws and axes especially enjoy a world-wide reputation. Not the least important use to which iron and steel are put in this country is in the extension of the iron industry itself, - every blast-furnace, rolling-mill, or steel works that is erected first devouring large quantities of these products before contributing to their general supply.

In the substitution of steel for iron this country is rapidly progressing, especially in the construction and equipment of its railroads. During the past few years fully two thirds of all the rails that have been laid on American railroads have been made of Bessemer steel, and at present a still larger proportion of steel rails is required by our railroad companies. On several American railroads the boilers of all new locomotives are now required to be made of steel, and the tendency is toward the exclusive use of steel for locomotive boilers, and its general use for stationary and marine boilers. The tires of American locomotives are now made

e construction nations in the g a larger and other country re consequently he construction rehouses, offices varied mining quantities. So , letter-presses, g-machines, and re an American on or iron and street-crossings, ings, all sorts of nails, wire-rope, -wire mattresses,

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country is rapidly and equipment of iully two thirds of can railroads have sent a still larger our railroad comthe boilers of all made of steel, and f steel for locomoionary and marine ves are now made exclusively of steel, and the fire-boxes of our locomotives are generally made of steel. The steel used in the construction of American locomotives is now chiefly produced by the openhearth process. We have built a few steel bridges, but there is no marked tendency to substitute steel for iron in bridgebuilding. Steel is, however, largely used in the manufacture of wire, including wire-fencing, and for car and carriage axles, carriage tires, fire-arms, screws, and many other purposes. But little steel has yet been used in this country for nails and horse-shoes.

Mention has been made of the artistic finish of some of our iron-work; but the subject seems worthy of further notice. It is not only in stove-founding, in the graceful designs of bridges and elevated railways, and in the delicate combination of iron with other materials in the construction and ornamentation of buildings that American iron-workers have displayed an exquisite taste and a bold and dexterous touch. The fine arts themselves are being enriched by the achievements of our iron-working countrymen. An iron foundry at Chelsea, in Massachusetts, has recently reproduced, in iron castings, various works of art with all the fidelity and delicacy of Italian iron-founders. The most delicate antique patterns have been successfully copied. Shields representing mythological groups and classic events, medallions containing copies of celebrated portraits, panels containing flowers and animals, an imitation of a Japanese lacquer-tray one sixteenth of an inch thick, and a triumphal procession represented on a large salver comprise some of the work of the Chelsea foundry. Some of the castings have been colored to represent bronze, and others to represent steel, while others again preserve the natural color of the iron. The bronzed castings resemble beaten work in copper. Only American iron is used. The ornamental uses to which art castings of iron may be put are many, and as they can be cheaply produced it may be assumed that a demand will ere long be created for them that will be in keeping with the artistic taste which has been so generally developed in our country during the past few years.

We conspicuously fall behind many other nations in the use of iron and steel for military purposes. We maintain only a small standing army and a small navy, and hence have but little use for iron or steel for the supply of either of these branches of the public service. We are also behind many other nations in the use of iron and steel sleepers for railway tracks. We yet have an abundance of timber for railway cross-tics, and hence do not need to substitute either iron or Except possibly as an experiment, there is steel cross-ties. not an iron or steel cross-tie in use in this country. It is a singular fact that we still import many blacksmith's anvils. their manufacture being a branch of the iron business to which we have not yet given adequate attention. Anvils of the best quality are, however, made in this country. A far more serious hiatus in our iron industry is found in the almost total absence of the manufacture of tin plates, the basis of which is sheet-iron, as is well known. As we can import the crude tin as easily as we import other commodities, our failure thus far to manufacture tin plates must be ascribed to the only true cause, - our inability to manufacture sheet-iron and coat it with tin as cheaply as is done by British manufacturers. It is not improbable that tin ore may be yet discovered in our own country in sufficiently large quantities to supply any domestic demand that may be created for its use.

CONCLUSION. — In reviewing the historical pages of this report the most striking fact that presents itself for consideration is the great stride made by the world's iron and steel industries in the last hundred years. In 1788 there were only eighty-five blast-furnaces in Great Britain, most of which were small, and their total production was only 68,300 tons of pig-iron. In 1880 Great Britain had 967 furnaces, many of which were very large, and their production was 7,749,233 tons. A hundred years ago there were no railroads in the world for the transportation of freight and passengers. Iron ships were unknown, and all the iron bridges in the world could be counted on the fingers of one hand. Without railroads and their cars and locomotives, and without iron ships and iron bridges, the world needed but little C

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iron. Steel was still less a necessity, and such small quantities of it as were made were mainly used in the manufacture of tools with cutting edges.

The great progress made by the world's iron and steel industries in the last hundred years is as marked in the improvement of the processes of manufacture as in the increased demand for iron and steel products. A hundred years ago all bar-iron was laboriously shaped under the triphammer; none of it was rolled. Nor was iron of any kind refined at that time in the puddling furnace; it was all refined in forges, and much of it was made in primitivo bloomary forges directly from the ore. Nearly all of the blast-furnaces of a hundred years ago were blown with leather or wooden bellows by water-power, and the fuel used in them was chiefly charcoal. Steam-power, cast-iron blowing-cylinders, and the use of bituminous coal had just been introduced. Less than sixty years ago heated air had not been used in the blowing of blast-furnaces, and fifty years ago anthracite coal had not been used in them, except experimentally. Thirty years ago the Bessemer process for the manufacture of steel had not been heard of, and the open-hearth process for the manufacture of steel had not been made a practical success. Thirty years ago the regenerative gas furnace had not been invented. The ninetcenth century has been the most prolific of all the centuries in inventions which have improved the methods of manufacturing iron and steel, and which have facilitated their production in large quantities.

The next most important fact that is presented in the historical chapters of this report is the astonishing progress which the iron and steel industries of the United States have made within the last twenty years. During this period we have not only utilized all contemporaneous improvements in the manufacture of iron and steel, but we have shown a special aptitude, or genius, for the use of such improvements as render possible the production of iron and steel in large quantities. Enterprising and courageous as the people of this country have always been in the manufacture of iron and steel, they have shown in the last

ations in the We maintain nd hence have either of these behind many pers for railper for railway either iron or ment, there is untry. It is a smith's anvils, on business to ion. Anvils of country. A far found in the alplates, the basis s we can import ommodities, our st be ascribed to acture sheet-iron by British mannmay be yet disge quantities to ated for its use. I pages of this self for consid-'s iron and steel 1788 there were ritain, most of was only 68,300 d 967 furnaces, production was e were no railreight and pasthe iron bridges rs of one hand. tives, and withecded but little twenty years that they have in all respects been fully alive to the iron and steel requirements of our surprising national If we had not applied immense blowing. development. engines and the best hot-blast stoves to our blast-furnaces our present large production of pig-iron would have been impossible. If we had not built numerous large rolling-mills we could not have had a sufficient supply of plate-iron for locomotives and other boilers, the hulls of iron ships, oiltanks, nails and spikes, and other important uses: nor of sheet-iron for stoves and domestic utensils; nor of tee, angle, and channel iron for bridge-building and general construction purposes; nor of iron rails for our railroads; nor of bariron and rod-iron for a thousand uses. If we had not promptly introduced the Bessemer process the railroads of the country could not have been supplied with steel rails, and without the four and a half million tons of American steel rails that have been laid down in the past twelve years our trunk railroads could not have carried their vast tonnage of agricultural and other products, for iron rails could not have endured the wear of this tonnage. If we had not established the manufacture of crucible steel and introduced the open-hearth process there would have been a scarcity of steel in this country for the manufacture of agricultural implements, springs for railway passenger-cars, tires for locomotives, etc. Foreign countries could not in late years have supplied our extraordinary wants for pig-iron, rolled iron, iron and steel rails, and crucible and open-hearth steel, for, if there were no other reasons, the naturally conservative character of their people would have prevented them from realizing the magnitude of those wants. If our iron and steel industries had not been developed in the past twenty years as they have been it is clear that our railroad system could not have been so wonderfully extended and strengthened, and without this extension of our railroads we could not have produced our large annual surplus of agricultural products for exportation, nor could our population have been so largely increased by immigration as it has been.

We cannot fully comprehend the marvellous nature of the

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changes which have taken place in the iron and steel industries of this country in recent years, unless we compare the early history of those industries with their present development.

In Alexander Hamilton's celebrated "Report on the Subject of Manufactures," presented to Congress on the 5th of December, 1791, just ninety years ago, it was stated with evident satisfaction that "the United States already in a great measure supply themselves with nails and spikes," so undeveloped and primitive was her iron industry at that time. In the preceding year, 1790, "Morse's Geography" elaimed, in a description of New Jersey, that "in the whole State it is supposed there is yearly made about 1,200 tons of bariron, 1,200 ditto of pigs, and 80 of nail rods;" and in 1802 it was boastingly declared in a memorial to Congress that there were then 150 forges in New Jersey, "which at a moderate calculation would produce twenty tons of bar-iron each annually, amounting to 3,000 tons." In 1880 there were several rolling-mills in New Jersey and several hundred in the United States which could each produce much more bar-iron in a year than all of the 150 forges of New Jersey would produce in 1802.

Less than fifty years ago the American blast-furnace which would make four tons of pig-iron in a day, or twenty-eight tous in a week, was doing good work. We had virtually made no progress in our blast-furnace practice since colonial days. In 1831 it was publicly proclaimed with some exultation that "one furnace crected in Pennsylvania in 1830 will in 1831 make 1,100 tons of pig-iron." But, as George Asmus has well said, "a time came when men were no longer satisfied with these little smelting-pots, into which a gentle stream of air was blown through one nozzle, which received its scanty supply from a leather bag, squeezed by some tired water-wheel." After 1840 our blast-furnace practice gradually improved, but it was not until about 1865 that any furnace in the country could produce 150 tons of pig-iron in a week. Ten years later, in 1875, we had several furnaces which could each make 700 tons of pig-iron in a week; in 1880 we had several which could each make 1,000 tons in a

week; and in 1881 we had one furnace which made 224 tons in a day, 1,357 tons in a week, and 5,598 tons in a month.

In 1810, seventy years ago, we produced only 917 tons of steel, none of which was crucible steel. In 1831, fifty years ago, we produced only about 2,000 tons of steel, not one pound of which was crucible steel of the best quality. So imperfect were our attainments as steelmakers in 1831 that we considered it a cause of congratulation that "American competition had excluded the British common blister steel altogether." In 1880 we had virtually ceased to make even the best blister steel, better steel having taken its place and in that year we produced 1, 247, 385 gross tons of steel of all kinds, 64, 664 tons of which were crucible steel. Our production of Bessemer steel and Bessemer steel rails in 1880 was larger than that of Great Britain.

It was not until 1844 that we commenced to roll any other kind of rails than strap rails for our railroads, and not even in that year were we prepared to roll a single ton of T rails. In 1880 we rolled 1,305,212 gross tons of rails, nearly two thirds of which were steel rails, and nearly all of which were T rails.

The growth of the iron and steel industries of the United States during the present century is perhaps best exemplified in the statistics of the production of our blast-furnaces at various periods. In 1810 we produced 53,908 gross tons of pig-iron and cast-iron; in 1840 we produced 315,000 gross tons; in 1860 we produced 821,223 gross tons; and in 1880 we produced 3,835,191 gross tons. Our production in 1881 will be about 4,500,000 gross tons.

The position of the United States among iron and steel producing countries in 1880 is correctly indicated in the following table of the world's production of pig-iron and steel of all kinds, which we have compiled from the latest and most reliable statistics that are accessible. This table places the world's production of pig-iron in 1880 at 17,688,596 gross tons, and the world's production of steel in the same year at 4,343,719 gross tons. The percentage of pig-iron produced by the United States was nearly 22, and its percentage of steel was nearly 29.

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UNWROUGHT STRILL

PIG-IRON.

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Tons of 2,240 Pounds.	Crucible and Other Kinda	000'021z	172,222	240,000	131,118	25,000	25,000	17,368	22,000	25,000	287,708
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Total

Although this country cannot produce iron and steel as cheaply as European countries which possess the advantages of cheap labor and proximity of raw materials, it is not excelled by any other country in the skill which it displays or the mechanical and scientific economies which it practises in any branch of their manufacture, while in certain leading branches it has displayed superior skill and shown superior aptitude for economical improvements. Our blast-furnace practice is the best in the world, and it is so chiefly because we use powerful blowing-engines and the best hot-blast stores. possess good fuel, and carefully select our ores. The excellent quality of our pig-iron is universally conceded. Our Bessemer steel practice is also the best in the world. We produce much more Bessemer steel and roll more Bessemer steel rails in a given time by a given amount of machinery, technically termed a "plant," than any of our European No controversy concerning the relative wearing rivals. qualities of European and American steel rails now exists, and no controversy concerning the quality of American Bessemer steel ever has existed. We experience no difficulty in the manufacture of open-hearth steel in the Siemens-Martin furnace, and our steel which is thus produced is rapidly coming into general use side by side with crucible steel. In the manufacture of crucible steel our achievements are in the highest degree creditable. In only one respect can it be said that in its manufacture we fall behind any other country: we have not paid that attention to the manufacture of fine cutlery steel which Great Britain has done. This is, however, owing to commercial and not to mechanical reasons American crucible steel is now used, without prejudice, in the manufacture of all kinds of tools, and in the manufacture of carriage-springs and many other articles for which the best kinds of steel are required. In the quantity of open-hearth and crucible steel produced in a given time by a given plant, we are certainly abreast of all rivals. The largest crucible steel-works in the world are those of Park, Brother, & Co., Our rolling-mill practice is fully equal at Pittsburg, Penn. to the best in Europe, except in the rolling of heavy armor

THE IRON AND STEEL INDUSTRIES.

plates, for which there has been but little demand, and in the production of which we have, consequently, had but little experience. The quality of our rolled iron, including bariron, plate-iron, sheet-iron, iron hoops, and iron rails, is uniformly superior to that of foreign rolled iron. In the production of heavy forgings and castings, as well as all lighter products of the foundry and machine-shop, this country has shown all the skill of the most advanced iron-working countries in Europe. In the production of steel castings we have exhibited creditable skill and enterprise, and we are in advance of all countries in the regular use of the Bessemer converter for this purpose.

All of our leading iron and steel works, and indeed, very many small works, are now supplied with systematic chemical investigations by their own chemists, who are often men of eminence in their profession. The managers of our blastfurnaces, rolling-mills, and steel-works are themselves frequently well-educated chemists, metallurgists, geologists, or mechanical engineers, and, sometimes, all of these combined. Our rapid progress in increasing our production of iron and steel is not mercly the result of good fortune or the possession of unlimited natural resources, but is largely due to the possession of accurate technical knowledge by our iron-masters, and by those who are in charge of their works, combined with the characteristic American dash which all the world has learned to respect and admire. The "rule of thumb" no longer governs the operations of the iron and steel works of this country.

A feature of our iron and steel industries which has attended their marvellous productiveness in late years is the aggregation of a number of large producing establishments in districts, or, "centres," in lieu of the earlier practice of erecting small furnaces and forges wherever sufficient waterpower, iron ore, and charcoal could be obtained. This tendency to concentration is, it is true, not confined to our iron and steel industries, but it is to-day one of the most powerful elements that influence their development. It had its beginning with the commencement of our distinctive rolling-mill

sess the advantages erials, it is not exwhich it displays or which it practises in in certain leading and shown superior Our blast-furnace is so chiefly because best hot-blast stores, ir ores. The excellly conceded. Our in the world. We roll more Bessemer nount of machinery, ny of our European he relative wearing eel rails now exists, ty of American Bescience no difficulty in the Siemens-Martin luced is rapidly comh crucible steel. In achievements are in one respect can it be hind any other counthe manufacture of has done. This is, mechanical reasons. without prejudice, in d in the manufacture les for which the best antity of open-hearth ime by a given plant, The largest crucible Park, Brother, & Co., practice is fully equal olling of heavy armor

iron and steel as

era, about 1830. In colonial days and long after the Revo. lution our iron-making and steel-making establishments belonged to the class of manufacturing enterprises described by Zachariah Allen, in his "Science of Mechanics," in 1829. "The manufacturing operations in the United States are all carried on in little hamlets, which often appear to spring un in the bosom of some forest, gathered around the waterfall that serves to turn the mill-wheel. These villages are seattered over a vast extent of country, from Indiana to the Atlantic, and from Maine to North Carolina, instead of being collected together, as they are in England, in great manufacturing districts." While these primitive and picturesque, but unproductive, methods could not forever continue, it is greatly to be regretted that our manufactures of iron and steel and other staple products could not have grown to their present useful and necessary proportions unattended by the evils which usually accompany the collection of large manufacturing populations in small areas.

Upon the future prospects of iron and steel industries it is unnecessary for us to dwell. Our resources for the increased production of iron and steel for an indefinite period are ample, and all other essential conditions of continued growth are within our grasp. We are to-day the second iron-making and steel-making country in the world. In a little while we shall surpass even Great Britain in the production of steel of all kinds, as we have already surpassed her in the production of Bessemer steel and in the consumption of all iron and steel products. The year 1882 will probably witness this consummation. We are destined also to pass Great Britain in the production of pig-iron. These conditions and results are certainly gratifying to our national pride, for, of themselves, they assure the ultimate pre-eminence of the United States among all civilized countries. If it be true, as recorded in the second chapter of Daniel, that "iron breaketh in pieces and subducth all things," the country which produces and consumes the most iron and steel must hold the first rank. When the United States takes the position which it is destined soon to take, as the leading iron and steel producing

THE IRON AND STEEL INDUSTRIES.

as well as consuming country, the saying of Bishop Berkeley, that "Westward the course of empire takes its way," will receive a new interpretation; for the iron industry, which had its beginning in Asia, and then passed successively to the countries along the Mediterranean, upon the Rhine, and in the north of Europe, will then have made the circuit of the world.

g after the Revo. stablishments beises described by anics," in 1829. ted States are all pear to spring up and the waterfall villages are scatn Indiana to the i, instead of being l, in great manue and picturesque, er continue, it is tures of iron and ave grown to their unattended by the on of large manu-

eel industries it is s for the increased efinite period are f continued growth second iron-mak-

In a little while production of steel d her in the proumption of all iron bably witness this pass Great Britain litions and results ride, for, of themnce of the United breaketh in pieces wich produces and ld the first rank. on which it is desd steel producing

XVI.

LES DETTES PUBLIQUES.

FROM NEYMARCK'S LES DETTES PUBLIQUES EUROPÉENNES, PP. 86-102.

L-AUGMENTATION DES DETTES PUBLIQUES DEPUIS 1870.

DANS cette longue énumération de chiffres, ce qui frappe tout d'abord l'esprit, c'est l'augmentation considérable de la dette publique des États Européens depuis 1870. Cette dette s'élevait à 75 milliards en 1870 environ; elle atteint 115 milliards en 1886. L'augmentation n'est pas moindre de 40 milliards.¹

Nous avons pris à dessein cette date de 1870 qui nous rappelle les plus grands malheurs que notre pays ait jamais supportés, les lourdes charges qui ont été la conséquence de

¹ D'après le journal de la "Société de statistique" (avril, 1867), la dette publique d'Europe s'élevait, en 1865-1866, aux chiffres suivants :--

Dépenses totales des budg	ets										10 m	illiards	508	millions.
Capitailsation des dettes								•			66	44	013	44
Intérêt et amortissement	•	•	•	•	•	•	•	•	•	•	2	"	438	"

La population de l'Europe était évalué à 291,738,379 habitants; la dette par habitant représentait 226 fr. 30.

M. Paul Boiteau, dans son article sur le budget général de l'État, inséré dan le Dictionnaire des finances de M. Léon Say, a réuni sous le titre de : "Budget Européens" la plupart des budgets du continent, et p.ur en faciliter l'étude, il a placé en regard du montant des dépenses prévues pour l'exercice 1885, le montant des dettes consolidées et autres qui grèvent l'actif des différents Étau ainsi que le montant des dépenses militaires et celles du service de la Dette et de l'amortissement. Il obtient les chiffres suivants :---

 Prévisions totales des dépenses badgétaires annuelles
 18 milliards 848 millions.

 Capitaliastion des dettes consolidées, des dettes amortissables, annuités diverses, etc.
 108
 "

 Dépenses du service des dettes et de l'amortissement
 4
 "
 804
 "

 Dépenses militaires, guerre et marine
 4
 "
 439
 "

On pourra comparer ces chiffres à ceux que nous donnons plus loin.

la guerre, le fardeau qui pèse sur nous tous. La guerre de 1870 a coûté à la France plus de 10 milliards; sans elle nous ne serions pas grevés d'impôts écrasants, et aucun peuple ne supporterait plus facilement que nous le poids de sa dette publique.

Aucun pays n'a, en effet, subi des désastres aussi grands que les nôtres; aucun n'a eu une indemnité de 5 milliards à payer à l'étranger; aucun n'a dû reconstituer sa puissance militaire, son matériel de guerre; aucun n'a eu à refaire, pour ainsi dire, la patrie elle-même tout entière. Et cependant que voyons-nous? A l'exception de l'Angleterre qui, par suite de divers remboursements d'annuités, a pu diminuer sa dette de 1,350 millions; à l'exception du Danemarck qui, par suite de conversions heureusement effectuées, a pu réduire sa dette de 20 millions, tous les pays se sont endettés depuis 1870 dans des proportions énormes. Voici sur ce point quelques chiffres précis. Nous rangeons les États par ordre d'accroissement de leurs dettes depuis 1870.

AUGMENTATION DU CAPITAL NOMINAL DE PLUSIEURS DETTES PUBLIQUES DEPUIS 1870.

France											12	2 m	illi	ard	ls.		
Russie ¹ .									•		11	L	6	¢			
Prusse											8	3	¢	•		217	millions.
Italie				•							5	3	¢	•		132	"
Hongrie .						•			•		2	2	6	¢		249	"
Autriche .											1	L	"	¢		770	**
Espagne .											1	L		6		300	"
Belgique .													6	6		89	"
Roumanie .																701	"
Allemagne																526	"
															Ì	388	"
																270	"
								÷			-					244	"
															÷	194	"
														÷	÷	181	"
Hambourg										÷					Ì		"
Finlande .							•	·	•		Ċ				•	20	"
	Russie ¹ Prusse . Italie . Hongrie . Autriche . Espagne . Belgique . Roumanie . Allemagne . Saxe . Grèce . Serbie . Würtemberg . Suède . Hambourg	Russie ¹ Prusse Italie Hongrie Autriche Espagne Belgique Roumanie Allemagne Saxe Grèce Serbie Würtemberg Hambonrg .	Russie 1 . Prusse . Italie . Hongrie . Autriche . Espagne . Belgique . Roumanie . Allemagne . Grèce . Serbie . Suède . Hambonrg .	Russie ¹ . Prusse . Italie . Hongrie . Autriche . Espagne . Belgique . Roumanie . Allemagne . Grèce . Serbie . Suède . Hambourg .	Russie 1 . Prusse . Italie . Hongrie . Autriche . Espagne . Belgique . Roumanie . Allemagne . Grèce . Serbie . Suède . Hambourg .	Russie 1 . . Prusse . . Italie . . Hongrie . . Autriche . . Espagne . . Belgique . . Roumanie . . Allemagne . . Grèce . . Serbie . . Suède . . Hambourg . .	Russie 1 . . Prusse . . . Italie . . . Hongrie . . . Autriche . . . Espagne . . . Belgique . . . Roumanie . . . Allemagne . . . Grèce . . . Serbie . . . Suède . . . Hambourg . . .	Russie 1 . Prusse . . Italie . . Hongrie . . Autriche . . Espagne . . Belgique . . Roumanie . . Allemagne . . Grèce . . Serbie . . Suide . . Hambourg . .	Russie 1	Russie 1	Russie 1	Russie ¹ 11 Prusse 11 Prusse 11 Italie 12 Hongrie 12 Autriche 12 Espagne 12 Belgique 12 Roumanie 12 Allemagne 12 Saxe 12 Grèce 12 Serbie 12 Würtemberg 12 Hambourg 12	Russie ¹ 11 Prusse 3 Italie 3 Hongrie 2 Autriche 1 Espagne 1 Belgique 1 Roumanie 1 Saxe 5 Grèce 5 Serbie 5 Suède 5 Hambourg 5	Russie ¹ 11 Prusse 3 Italie 3 Italie 3 Hongrie 2 Autriche 1 Espagne 1 Belgique 1 Roumanie 1 Autriche 1 Roumanie 1 Saxe 5 Grèce 5 Serbie 5 Suède 5 Hambonrg 5	Russie ¹ 11 " Prusse 3 " Italie 3 " Hongrie 2 " Autriche 1 " Espagne 1 " Belgique 1 " Roumanie 1 " Grèce	Russie ¹ 11 " Prusse 3 " Italie 3 " Hongrie 2 " Autriche 1 " Espagne 1 " Belgique 1 " Roumanie 1 " Grèce	Russie ¹ 11 " Prusse 3 " 217 Italie 3 " 132 Hongrie 2 " 249 Autriche 1 " 770 Espagne 1 " 300 Belgique 1 " 300 Belgique 1 " 809 Roumanie 701 1 # 89 Roumanie 701 270 \$288 \$270 Serbie 270 \$270 \$270 \$270 Serbie 1 194 \$124 \$124 Wärtemberg 194 \$121 \$121 \$121 Suède 1 194 \$121 \$121 Hambourg 24 \$241 \$121 \$121

Cette augmentation du capital nominal des dettes publiques européennes qui atzeint, depuis 1870, 40 milliards environ,

¹ Augmentation depuis 1866.

ES.

PÉENNES, PP. 86-102.

UES DEPUIS 1870.

ffres, ce qui frappe ation considérable epuis 1870. Cette viron; elle atteint n'est pas moindre

de 1870 qui nous tre pays ait jamais la conséquence de

e" (avril, 1867), la dette suivants: milliards 508 millions. " 013 " " 438 "

9 habitants; la dette par

éral de l'État, inséré dan ous le titre de : "Budges our en faciliter l'étude, l our l'exercice 1885, le 'actif des différents Étas du service de la Dette et

8 milliards 848 millions.

	431	46	
	864	48	
**	439	66	

ounons plus loin.

a en pour conséquence l'augmentation des intérêts et des amortissements annucls pour les emprunts contractés, l'accroissement des dépenses totales des budgets, une surcharge dans les impôts. Combien ne serions-nous pas allégés si nous n'avions pas à payer chaque année les lourds impôts qui grèvent notre commerce et notre industrie, et qui, s'ajoutant aux frais de production, ont rendu la concurrence à nos produits d'autant plus facile? Toutes proportions gardées. les pays d'Europe souffrent, comme nous, de ces lourdes charges qui, dans tous les pays, obèrent les contribuables. C'est la guerre, toujours la guerre, qui redoit aux budgets. Depuis seize ans, les budgets de la guerre et de la marine ont coûté à la France plus de 11 milliards, c'est-à-dire plus de 700 millions par an; l'Allemagne et la Russie n'ont pas dépensé moins de 10 millards, chacun pendant la même période, l'Autriche et l'Italie presque le même chiffre. Voilà donc cinq grands pays qui, en vue d'une guerre probable, dépensent tous les ans de 500 à 900 millions, depuis seize aus. Que coûterait donc la guerre elle-même ?

Les États européens paient annuellement pour leurs dépenses de la guerre et de la marine à peu près les mêmes sommes que pour l'intérêt et l'amortissement de leurs dettes. D'après les derniers bu 'ets, ainsi que le prouvent les chiffres que nous publions plus loin, la guerre et la marine coûtent à l'Europe 4 milliards 528 millions, alors que l'intérêt et l'amortissement des dettes publiques réclament 5 milliards 343 millions. En voici le relevé : —

térêts et des ntractés, l'acune surcharge pas allégés si rds impôts qui qui, s'ajoutant currence à nos rtions gardées, de ces lourdes s contribuables. oit aux budgets. le la marine ont dire plus de 700 ont pas dépensé même période, ire. Voilà donc obable, dépensent seize ans. Que

our leurs dépenses êmes sommes que ttes. D'après les chiffres que nous oûtent à l'Europe t l'amortissement 343 millions. En

Etats.	Exercices financiers.	Capital nominal de la dette.	Intérêts et amort. ann.	Dépenses ann. Guerre et marine.
		Milliards- Millions,	Millions,	Millions.
Prusse	ler avril, 1886	4.814	220 1	539.1
	31 décembre, 1886 .	526	20.1	039.1
	81 décembre, 1884 .	9.288	389.9 (842
	31 décembre, 1884 .	3.178	206.8	042
	81 décembre, 1885 .	525	21.5	
	31 décembre, 1885 .	800	33.2	
Hambourg	31 décembre, 1883	178	8.7	
Bavière.	ler avril, 1886	1.790	61.1	
Bade	31 décembre, 1885 .	53	2.1	
Etats allemands .	81 décembre, 1885 .	268	11	
Italie	31 décembre, 1885 .	11.131	532	842.0
Suède	81 décembre, 1885 .	845	16.4	85.8
Norwège	30 juin, 1885	151	6	18 :
Daneniark	81 décembre, 1885 .	274	12.4	23
Pays-Bas	31 décembre, 1885 .	2.260	69.5	69.
Belgique	31 décembre, 1885 .	1.771	86.5	45.6
Espagne	ler juillet, 1886	6.042	274.1	200.3
Portugal	1er juillet, 1886	2.821	89.3	39,3
Angleti Te 1	31 mars, 1885	17.829	737.5	740.:
Suisse	ler janvier, 1886	82	1.8	17.
Serbie	i3 juin, 1886	244	13.7	16.
Roumanie	ler avril, 1887	729	59.2	28.
Grèce	ler janvier, 1886	348	83	23
Turquie	1880-1881	2.622	55.4	200
Bulgarie	ler janvier, 1885		2.1	
	31 décembre, 1885 .	65	5.9	6.
	31 décembre, 1885 .	18.028	1.038	982.
France	31 décembre, 1886 .	31.000	1.336	859.
Totaux		117.112	5.343.2	4.528.

II. – DÉPENSES DE LA GUERRE, DE LA MARINE, CAPITAL NOMINAL ET INTÉRÉTS DES DETTES.

Dans quelles proportions énormes les dettes publiques de toute l'Europe ne pourraient-elles pas être réduites si les dépenses de la guerre n'absorbaient pas tous les ans plus de 85% de ces mêmes dettes ? Toutes les puissances enropéennes ont des embarras financiers; toutes ou presque toutes augmentent ou ont besoin d'augmenter leurs impôts. Toutes, sans exception, font des armements considérables. Cette

¹ D'après une note de l'honorable M. Hangcosek, de la Société de statistique de Londres, de fin mars, 1884, à fin mars, 1885, l'Angleterre paie comme intérêt $^{22,000,000} \pounds$, et 7,000,000 \pounds comme amortissement, soit au total 20,500,000 \pounds .

situation présente les plus graves dangers et plus que jamais cependant, le maintien de la paix est nécessaire à l'Europe pour consolider son crédit, améliorer l'état de ses finances, donner de l'essor et de la confiance au commerce et à l'industrie.

III. - LES CONVERSIONS DE RENTES À L'ÉTRANGER ET EN FRANCE.

Et cependant, malgré les charges de toute nature qui pèsent sur les États, les rentes de ces mêmes pays se sont négociées pendant l'année 1886 presque toutes aux plus hauts cours qu'elles aient cotés depuis 1870. Non seulement, grâce à l'abondance des capitaux et à l'abaissement du taux de l'intérêt, les fonds publics ont haussé, mais il a été réalisé, en matière de finances, des progrès considérables.

Les États, non plus que les villes et les sociétés industrielles ou financières, n'hésitent pas à effectuer, sur une très large échelle, des opérations qu'on eût è peine osé concevoir il y a moins de trente ans.

Aujourd'hui des États, dont la puissance financière a toujours été relativement restreinte, peuvent contracter des emprunts qui dépassent de beaucoup ceux que naguère encore des nations riches n'eussent tentés qu'avec appréhension.

Toutes les combinaisons auxquelles peuvent prêter les finances d'État qui étaient si longtemps restées dans le domaine de la théorie, sont pleinement entrées dans la pratique et se réalisent couramment. Bien des préjugés économiques et financiers se sont dissipés ; bien des principes, encore contestés naguère, ont triomphé et se sont imposés.

Le crédit a acquis une force d'expansion inouïc; les fonds publics, les valeurs mobilières se sont de plus en plus répandues, vulgarisées, démocratisées en quelque sorte. Leur grande facilité de circulation, leur mobilité, leur diffusion, leur accessibilité à toutes les fortunes, petites ou grandes, leur ont assuré une faveur que l'on peut trouver excessive, mais qui est, à divers points de vue, très justifiée. Cet essor de la fortune mobilière a déterminé une véritable révolution dans les conditions financières de l'existence des peuples.

plus que jamais saire à l'Europe de ses finances, commerce et à

RANGER ET EN

nature qui pèsent le sont négociées plus hauts cours ulement, grâce à ent du taux de s il a été réalisé, ables.

iétés industrielles r une très large sé concevoir il y a

nancière a toujours ster des emprunts guère encore des préhension.

vent prêter les fis dans le domaine la pratique et se s économiques et s, encore contestés

inouïe ; les fonds lus en plus répanque sorte. Leur té, leur diffusion, es ou grandes, leur er excessive, mais Cet essor de la e révolution dans

peuples.

Emprunts, unifications de dettes, conversions, sont des opérations devenues familières même aux moindres États. Et, chose assez étrange, c'est la France qui, après avoir été, avec l'Angleterre, l'initiatrice des grandes réformes financières, a été depuis quelques années, parmi les nations, la plus timide à réaliser les combinaisons heureuses, légitimes, profitables, que la puissance et la solidité de son crédit lui rendent si faciles.

Rien, en effet, de plus curieux à observer, autour de nous, que les nombreuses opérations de conversion déjà accomplies avec succès ou en voie de préparation. Si on peut reprocher à certains États une propension trop grande à emprunter, il faut bien reconnaître qu'ils se préoccupent aussi, pour la plupart, de n'emprunter qu'au plus bas prix possible. Dès que leur crédit s'étend et s'améliore, ils s'efforcent de remplacer les anciennes dettes coûteuses, onéreuses, par des dettes plus légères, contractées à un taux moins élevé. Ce sont maintenant des puissances financières de second et de troisième ordre qui nos donnent l'exemple. Dans cet ordre d'idées et de faits, il n'est certainement pas inutile d'examiner comment se sont effectuées les conversions récentes et d'indiquer les divers procédés jusqu'ici employés.

Depuis 1870, deux fonds d'États français ont été l'objet d'une conversion : l'emprunt Morgan, et la rente 5%. On se rappelle comment elles s'effectuèrent : on offrit aux porteurs d'obligations Morgan 6%, le même revenu en rente 3%, moyennant une soulte de 124 fr. par obligation. Les porteurs de rentes 5% eurent à opter entre le remboursement à 100 fr. de leurs rentes et l'échange contre un nouveau titre de rente $4\frac{1}{2}$ % non-convertible avant un délai de 10 ans qui expire en 1893.

La Belgique a opéré trois conversions : son $4\frac{1}{2}$ est devenu du 4%, puis du 3%. Pour la première opération, elle eut immédiatement recours à un syndicat de banquiers, qui se chargeait du placement de la rente nouvelle, tandis que l'État opérait le retrait de la rente convertie. Pour la seconde conversion, le gouvernement belge voulut opérer seul et émettre directement sa rente nouvelle; il n'obtint pas tout le succès

désiré et dut, après des essais peu favorables, accepter le concours qui lui avait été donné précédemment.

Tout récemment, ainsi qu'on l'a vu dans le cours de cette étude, la Belgique a réalisé une troisième conversion en convertissant ses rentes 4% contre du 3½%. Cette opération, effectuée directement par le Trésor, obtint un plein succès.

La Suède a, elle aussi, transformé successivement son $4\frac{1}{2}$ en 4% et en $3\frac{1}{2}\%$ en recourant à l'intermédiaire des grandes maisons de banque. Celles-ci émettaient sur les marchés étrangers la nouvelle rente suédoise, tandis que lÉ'tat restait chargé du retrait des anciens titres.

On conçoit que l'intervention des syndicats et des groupes financiers soit, pour ainsi dire, l'unique moyen des petits États qui n'ont pas de marché national. Il est certain que la Roumanie, par exemple, n'a pu effectuer la conversion de sa dette 6% que grâce au concours de puissantes maisons auxquelles elle s'est adressée. Ce sont ces dernières qui plaçaient la nouvelle rente tandis que l'État remboursait l'ancienne.

L'Espagne, lors de la récente conversion de ses emprunts de l'île de Cuba, s'est adressée à un groupe de banquiers : elle s'entendait avec eux pour le prix de la nouvelle rente à créer, et avec le produit du nouvel emprunt remboursait des dettes anciennes contractées à plus gros intérêt.

Les grands États qui ont, presque tous, d'importants marchés financiers ne se croient cependant pas toujours assez sûrs de leurs propres forces pour dédaigner le concours des banques et des institutions de crédit. Sans ces hautes influences, aucune opération de crédit importante ne pourrait, sans doute, acquérir un caractère international et obtenir la participation des marchés extérieurs. Aussi toutes les conversions opérées dans de larges proportions ne l'ont-clles été qu'avec la participation des syndicats.

La Hongrie a effectué la conversion de sa rente 6% en rente 4% en or, et elle prépare, en ce moment même, une opération du même genre sur d'autres dettes. Ici, les banquiers, groupés en vue de cette transformation, se sont chargés à la fois et du placement de la rente nouvelle et du retrait de la rente ancienne. Le remboursement au pair n'est devenu

les, accepter le t.

e cours de cette version en con-Cette opération, plein succès.

ement son 4½ en ire des grandes pur les marchés que lÉ'tat restait

est des groupes noyen des petits est certain que la conversion de sa tes maisons auxdères qui plaçaient ait l'ancienne.

de ses emprunts de banquiers : elle elle rente à créer, oursait des dettes

ous, d'importants lant pas toujours igner le concours Sans ccs hautes rtante ne pourrait, onal et obtenir la si toutes les cons ne l'ont-clles été

rente 6% en rente même, une opéralei, les banquiers, sont chargés à la et du retrait de pair n'est devenu obligatoire pour les porteurs de 6% hongrois qu'à l'issue de l'opération qui s'est effectuée par fractions échelonnées. La loi, qui a fixé les conditions dans lesquelles cette conversion fût autorisée, était conçue presque dans les mêmes termes que le projet que nous formulions nous-même dès le mois d'août, 1876,¹ en vue de la conversion éventuelle du 5% français.

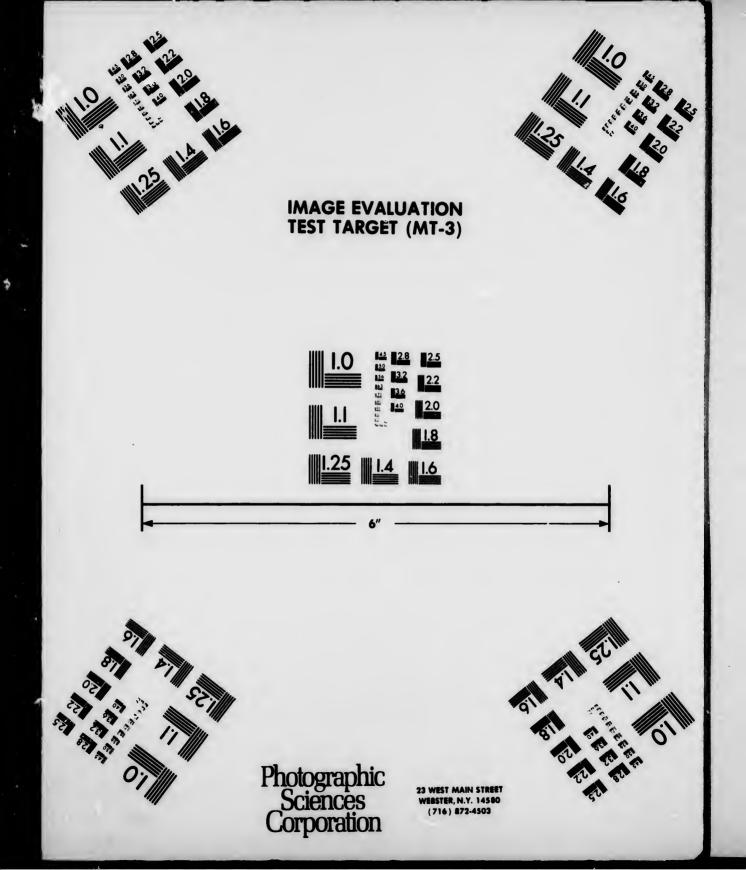
En Allemagne, les conversions de fonds prussiens, bavarois, et wurtembergeois se sont opérées par l'émission d'emprunts dont le produit a servi au remboursement des anciennes rentes.

A l'étranger, il nous reste à citer, au-dessus de tous, l'exemple des États-Unis qui ont accompli avec une habileté et un esprit de suite merveilleux des conversions successives dans les conditions les plus heureuses et les plus favorables, sans que les particuliers aient jamais eu à souffrir des conséquences de ces transformations répétées. Grâce à la prévoyance avec laquelle l'Amérique du Nord avait créé ses rentes par séries, des conversions partielles ont pu se succéder rapidement; et l'on a vu en peu d'années du 6% se transformer en 5%, puis en 4%, puis en 3%. Ces opérations nombreuses, les États-Unis les ont effectuées directement sur leurs propres marchés et à l'extérieur avec le concours de grandes maisons de banque.

Mais, en dehors des exemples que nous ont donnés les autres nations, nous pourrions rappeler ceux que, sous des formes diverses, nous ont offerts nos départements français et nos propres villes. Là encore, nous trouvons des efforts très louables et des combinaisons très variées. Nous avons vu des villes recourir au remboursement au pair d'anciennes dettes et à des emprunts plus avantageux pour alléger leurs charges, les unes s'adressant au public, les autres s'assurant l'appui de syndicats, d'autres enfin traitant, sans autre intermédiaire, avec le Crédit Foncier de France qui leur garantissait à un taux maximum les capitaux dont elle avaient besoin pour rembourser la dette antérieure contractée à un taux plus élevé.

Nous avons vu enfin, plus près de nous encore, le Crédit Foncier de France profiter, pour son propre compte, et au

¹ Voir notre étude : La Conversion de la Rente 5%. Paris, Dentu, édit., 1876.





grand profit de sa vaste clientèle d'emprunteurs, de l'abaissement du prix de l'argent, et convertir des obligations entrainant une annuité élevée par des titres n'exigeant qu'une annuité notablement inférieure. On sait avec quelle simplicité s'est effectuée cette opération: les portours des obligations à convertir avaient un droit de préférence dans la souscription des obligations nouvelles ; ils restaient libres de n'en pas user, mais étaient dûment avertis du remboursement prochain et obligatoire des titres anciens.

Ainsi les nations qui nous entourent et, chez nous-mêmes, les provinces, les villes, les institutions de crédit, ont pratiqué avec empressement et avec succès, sous les formes les plus diverses, des conversions qui, toutes, ont été profitables. En ce moment même, de grandes opérations de ce genre sont à prévoir. Il n'est pas douteux, en effet, que l'Angleterre ne se prépare à une nouvelle conversion de ses Consolidés dont les cours sont au-dessus du pair; dès que l'occasion sera propice, la transformation sera faite. En Italie, la conversion de la rente 5% est à l'ordre du jour, et il ne s'écoulera pas beaucoup de temps avant qu'elle ne soit réalisée. Déjà le gouvernement a préparé un projet pour convertir plusieurs dettes rachetables et offre du 4½ a la place du 5%.

Il est à remarquer que toutes ces conversions de rentes, qui ont diminué l'intérêt payé par les États à leurs prêteurs, n'ont nullement diminué les charges de ces divers pays. Pour être juste, équitable, toute conversion de rentes doit avoir pour conséquence une diminution d'impôts. Il n'en a rien été. Prenez tous les budgets des pays qui ont effectué des conversions; comparez les chiffres des dépenses publiques et des impôts à ceux qui étaient inscrits avant et après les conversions, vous trouverez partout des augmentations de dépenses et d'impôts.

Il faut remarquer, d'autre part, que presque toutes ces conversions n'ont pu être réalisées avec succès qu'autant que la haute banque est intervenue et leur a donné son concours. Il convient enfin de dire que toutes ces opérations ont été facilitées par l'abondance toujours croissante des capitaux

eurs, de l'abaisseoligations entraîexigeant qu'une ec quelle simplitours des obligasférence dans la restaient libres de a remboursement

chez nous-mêmes, rédit, ont pratiqué s formes les plus é profitables. En e ce genre sont à l'Angleterre ne se Consolidés dont les asion sera propice, a conversion de la ulera pas beaucoup Déjà le gouverner plusieurs dettes

sions de rentes, qui eurs prêteurs, n'ont es pays. Pour être es doit avoir pour l n'en a ricn été. ffectué des converpubliques et des après les converations de dépenses

presque toutes ces ccès qu'autant que nné son concours. opérations ont été ante des capitaux disponibles, et par la baisse du taux de l'intérêt, conséquence de cette abondance des capitaux.

IV. — ABAISSEMENT DU TAUX DE L'INTÉRÊT DE L'ARGENT DEPUIS 1870.

Depuis 1870, et surtout depuis le jour où, pour la première fois depuis la guerre, la rente 5% fut coté au pair, c'est-à-dire à 100, le 4 septembre, 1874, des changements profonds se sont produits sur les marchés français et étrangers dans le taux de capitalisation. Successivement, d'année en année, lentement d'abord, puis par étapes vigoureusement franchies, les valeurs de premier ordre, de première sûreté, descendirent de 5% d'intérêt à $4\frac{1}{2}\%$; les valeurs de second ordre, qui rapportaient $6\frac{1}{2}$, 7, et 8%, descendirent à 5% et même au-dessous. À mesure que le capital de ces valeurs augmentait, leur revenu devenait naturellement moins élevé.

Au lendemain de la guerre, un capital de 100,000 placé en rentes 5% aurait produit 5.500 à 6.000 fr. de rentes. Le même capital, placé aujourd'hui en rentes françaises 3% produirait à peine 3.700 francs.

Depuis 1870, le 6% Américain a disparu; converti d'abord en 5%, puis en 4%, le voilà maintenant en 3% en attendant une nouvelle conversion en $2\frac{1}{2}$.

Le 4½ Belge, les fonds Allemands, tols que les 5% Badois, Bavarois, Würtembergeois, etc., ont, sur la cote, cédé la place à des titres de moindre rapport, à des rentes de 3½ et de 3%, qui atteignent le pair.

Dans l'Europe entière, les rentes 4% qui ont été créées en remplacement de rentes 5% sont au pair et même au-dessus, ou ont été échangées contre du 3⁴/₃ ou du 3%.

Des fonds étrangers, exotiques, comme l'on dit en Bourse, strivent maintenant au taux moyen auquel se négociaient anciennement de bons crédits européens de second ordre. Les cotes anglaises nous donnent à cet égard, de curieux exemples.

Il y a dix ans seulement, voici, notamment, le 7% Japonais qui valait 100 fr. fin 1876 et qui maintenant vaut 113; à

pareille date, le 6% Argentin 1868, coté aujourd'hui 101 à 102, valait 60; le 5% Brésilien valait, fin 1876, 87 à 88; il est maintenant à 103, trois points au-dessus du pair.

Le 5% Italien qui ne donne net que 434, valait, fin 1867, 72 fr.: il était dans ces derniers temps à 102 fr. et même audessus, c'est-à-dire 20 fr. plus cher que le prix auquel nous émettions en 1871 notre rente française 5%.

Le 5% Roumail., qui valait 40 fr. fin 1876, et qui rapportait conséquemment 8%, se négocie au-dessus de 90. On évalue donc aujourd'hui le crédit de la Roumanie à un taux bien supérieur à celui auquel notre propre crédit était estimé en 1871 et 1872, puisque, dans ces deux années, la France émettait ses rentes 5% à 82,50 et 84 fr. 50.

La rente Autrichienne 4% or, cotée 89 à 90 fr. et qui, il ya peu de temps, s'est négociée même à 96 et 97 fr., est encore plus haut que nos rentes françaises en 1871. La rente Hongroise 4% or, a valu jusqu'à 88 dans ces derniers mois, alors que nous avons émis du 5% français 5 et 6 france plus bas.

Voici, pour les principaux fonds d'Etats, la différence des cours cotés au 31 décembre, 1869, et au 31 décembre, 1886:-

									81	déc., 1869.	81 déc., 188	6.
3% Français			•	•		•				70,05	82,20	
4,34 Italien										57,30	101,85	
6% Américain	•		•						•	84	134	(le 4%).
41 Belge	•	•	•	•	•	•	•	•	•	102	95,40	(le 3%).
5% Russe 1862	2	•	•	•		•		•		85	96	
8% Consolidés	1	ingl	ais		•	•	•	•	•	92	1011	

V. – MODES DÉMISSION ET TYPES DE RENTES EMPLOYÉS PAR LES GOUVERNEMENTS EMPRUNTEURS.

Nous venons de montrer comment les conversions de rentes effectuées par les principaux États avaient été réalisées et comment la baisse du taux de l'intérêt et l'abondance des capitaux avaient facilité ces opérations. Il n'est pas sans utilité de faire remarquer aussi comment les divers pays effectuent leurs emprunts. On voit, d'après cette étude comparative des dettes européennes, combien est variée la diversité des types de rentes émises. L'Angleterre a du 3%,

-d'hui 101 à 102, 87 à 88; il est air.

lait, fin 1867, 72 fr. et même aurix auquel nous

et qui rapportait 90. On évalue e à un taux bien était estimé en unées, la France

0 fr. et qui, il ya 97 fr., est encore .. La rente Honrniers mois, alors Francs plus bas. la différence des écembre, 1886:-

1 déc., 1896. 82,20 101,85 134 (le 4%). 95,40 (le 3%). 96 1011

NTES EMPLOYÉS UNTEURS.

nversions de rentes nt été réalisées et et l'abondance des Il n'est pas sans t les divers pays après cette étude bien est variée la ngleterre a du 3%, du 21%, des annuités terminables ; l'Autriche, du 4.20% métallique, du 4% or, 2 5% papier, du 5% argent, des lots à primes sans intérêts ... La Belgique a eu du 41, du 4%, du 3%. La Russie a émis de emprunts sous forme de rentes 6%, 5%, 4%; la Hollande a des rentes 81, 3%, 21%; l'Italie a du 5%, du 3%, et vient de décréter du 41%; la Norwège a du 41, du 4d. du 31%; le Portugal a du 5% et du 8%; la Prusse a du 4% et du 31%; la Roumanie a du 7%, du 6%, du 5%; la Saxe, du 31 et du 3%; la Suède, du 41%, du 4%, du 31%; le Würtemberg, du 41, du 4%, du 31%, etc. Parmi les fonds coloniaux, nous trouvons du 5% de la Nouvelle Zélande, du 5% Québec, du 6% Queensland, du 41, 4% et 31% des Indes, du 4% du Canada, de la Jamaïque, de Tasmanie, du 5%, 41%, 4% Victoria. Quel enseignement tirer de ces faits? C'est qu'on ne peut dire d'une façon absolue, c'est qu'il n'est pas scientifiquement ni pratiquement prouvé qu'il soit préférable pour un État de n'emprunter que sous un même type de rentes, et que la diversité de ces types de rentes peut nuire à leur plus-value. La vérité est qu'il en est des États comme des particuliers : le meilleur mode d'emprunt est celui qui coûte le moins cher et procure la plus grande somme des capitaux. Il peut être ntile d'emprunter sous forme d'obligations ou sous forme de rentes; en 4% ou en 3%; en 5% ou en 4½%. C'est une question d'opportunité et d'appréciation. Tous les gouvernements ont choisi la forme d'emprunt la plus avantageuse aux intérêts de tous, sans s'astreindre à n'émettre qu'un type de reates déterminé à l'avance.

Il en est de même pour le mode d'émission des emprunts. C'est la France qui, lors de la guerre de Crimée, généralisa le système des souscriptions publiques. Avant 1852 les emprunts d'État étaient soumissionnés par de grandes maisons de banque qui plaçaient ensuite les titres de rentes dans leur clientèle: plus tard, les gouvernements firent appel directement aux capitaux du publie sans se servir de l'intermédiaire des banquiers. Cependant, des modifications sérieuses se sont produites dans le système des souscriptions. Nous voyons l'Angleterre pour ses emprunts coloniaux, pour ses emprunts de villes, effectuer des appels au crédit

sous forme d'adjudication publique. Elle offre 4% d'intérêt. par exemple : elle s'engage à servir d'abord les demandes de ceux qui se contentent d'un intérêt moindre. Ce système favorise les souscripteurs les moins exigeants, ne décourage pas le public par des mécomptes immérités à la repartition et permet à l'emprunteur d'obtenir les conditions les plus favorables; ce genre de souscription rend les emprunts moins oréreux pour les emprunteurs. Les autres modes d'emprunts employés par les gouvernements sont des ventes fermes ou à option à des banquiers et à des établissements de crédit. Plusieurs États se sont bornés à charger des maisons de bauque d'émettre les emprunts qu'ils désiraient effectuer. moyennant une commission. A l'exception de l'Angleterre et de la France, presque tous les gouvernements européens traitent encore avec des syndicats de banquiers pour leurs émissions.

VI.-DE LA RÉPARTITION DES FONDS PUBLICS ÉTRANGERS DANS LES PORTEFEUILLES FRANÇAIS.

Dans le cours de cette étude, nous avons essayé de connaître le montant approximatif des valeurs étrangères appartenant à nos nationaux. Les chiffres que nous avons cités nous ont été donnés par les ministres des finances et les directeurs de statistique des gouvernements étrangers; mais ils auraient besoin d'être complétés, et aucune autorité ne pourrait mieux que notre conseil supérieur de statistique obtenir et grouper des indications plus nombreuses sur ce sujet important.

À de rares exceptions près, et sauf des circonstances particulières telles que la hausse ou la baisse du prix du change sur des valeurs internationales, les capitalistes français qui possèdent des valeurs étrangères ne font pas recevoir le montant de leurs coupons d'intérêt à l'étranger : ils s'adressent à des banquiers et des établissements de crédit français, pour encaisser leurs coupons échus.

Nous sommes convaincus que MM. de Rothschild, la Banque de Paris, la Société Générale, le Comptoir d'Escompte, le Crédit Lyonnais, le Crédit industriel et tous les banquiers-

ffre 4% d'intérêt, les demandes de lre. Ce système its, ne décourage à la repartition et ons les plus favoremprunts moius modes d'emprunts entes fermes ou à ements de crédit. r des maisons de siraient effectuer, on de l'Angleterre nements européens nquiers pour leurs

UBLICS ÉTRANGERS ANÇAIS.

essayé de connaître ngères appartenant s avons cités nous ces et les directeurs s; mais ils auraient é ne pourrait mieux obtenir et grouper iet important.

rconstances particuprix du change sur s français qui posrecevoir le montant ils s'adressent à des édit français, pour

othschild, la Banque toir d'Escompte, le ous les banquiersqui paient une patente spéciale comme effectuant des paiements de coupons étrangers, — répondraient sans difficultés à un questionnaire que le Conseil supérieur de statistique leur adresserait.

Ce n'est pas par simple curiosité que des documents semblables auraient besoin d'être mis au jour. Les questions financières et fiscales doivent, plus que jamais, prendre le pas sur les questions politiques. Or, ce que nos législateurs et la plupart de nos hommes politiques connaissent le moins, c'est l'exacte situation de la fortune publique de la France, le montant et la puissance de son épargne, la nature et le chiffre de ses placements soit sur des valeurs françaises, soit sur des valeurs étrangères. C'est à ce défaut de connaissances qu'il faut attribuer, pour beaucoup, les erreurs fiscales économiques et financières qui ont été commises dans l'établissement. l'augmentation et la suppression de tel ou tel impôt de préférence à tel ou tel autre. A une époque où il est question d'impôt sur les rentes, d'impôt sur les valeurs étrangères appartenant à des Français, d'impôt sur le revenu, etc., ces reuseignements sont indispensables si l'on veut éviter de dangereuses erreurs. Le Conseil supérieur ne doit pas hésiter, à notre avis, à faire la lumière sur ces questions spéciales : c'est du côte des statistiques financières, nous ne saurions trop insister sur ce point, que doivent porter les efforts et les travaux des hommes éminents qui font partie de la Commission.

VII.-DE LA COTE ET DE LA NÉGOCIATION DES RENTES FRANÇAISES AUX BOURSES ÉTRANGÈRES.

Nous devons aussi signaler une réforme que nous avons bien souvent réclamée et qui paraîtra sans doute utile à obtenir quand on se sera rendu compte de l'importance des emprunts étrangers contractés en France. À l'exception des fonds allemands, tous les fonds d'État étrangers, toutes les principales valeurs étrangères sont cotés à notre bourse; tous les gouvernements étrangers ont fait appel aux capitaux français. Or, aucune de nos rentes françaises n'est cotée ni à Vienne, ni à Saint-Pétersbourg, ni à Stockolm, ni à Christiania,

ni à Rome, ni à Florence, ni à Madrid, ni à Lisbonnc, ni à Athènes. Notre 3% est coté à Londres, Bruxelles, et Amsterdam. Et c'est tout. Cette situation mérite qu'on y porte attention.

L'affluence des fonds d'État étrangers sur le marché français, la facilité avec laquelle ils s'y placent et s'y negocient, sont des faits financiers qui révèlent une tendance des capitaux contre laquelle il serait peut-être à la fois très difficile de tenter une réaction soudaine et violente.

Il est certainement regrettable que nos nationaux deviennent les créanciers d'États dont la solvabilité et le crédit sont douteux. Il est non moins fâcheux qu'aux capitaux lentement formés par les hommes d'épargne de notre pays se substituent des titres étrangers dépourvus de garantie sérieuse.

Mais, d'autre part, il ne saurait être mauvais et il est même nécessaire et utile, au point de vue financier et économique, que les nations honnêtes et notoirement solvables soient débitrices de la nôtre. Il ne saurait être mauvais qu'à un moment donné il y ait entre les mains des capitalistes français une certaine quantité de bon papier étranger, bien et dûment garanti, et facilement réalisable.

On conçoit cependant qu'il y a un certain équilibre financier international que ne saurait être rompu sans inconvénient. On conçoit le péril qu'il y aurait pour la France à ne compter au dehors que des débiteurs et point de créanciers, à toujours absorber le papier et ne jamais en céder, à se saturer de valeurs étrangères tandis qu'elle ne placerait point dans les autres pays une quantité à peu près équivalente de valeurs françaises. On peut enfin mesurer le danger que notre pays pourrait courir le jour où les nations qui nous entourent gagneraient plus à notre ruine qu'à notre prospérité. Même au point de vue politique, ces considérations ne sont pas sans consistance.

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Politiquement, aussi bien que financièrement, il est donc sage et désirable d'intéresser l'Europe à nos progrès, à notre développement national, à notre avenir économique.

Un des moyens les plus efficaces d'atteindre ce but est de placer parmi les capitalistes étrangers la plus grande quantité possible de rentes et de valeurs françaises.

nne, ni à Athc Amsterdam. rte attention. r le marché t et s'y negop tendance des h la fois très ente.

ux deviennent le crédit sont capitaux lentere pays se subntie sérieuse. et il est même et économique, olvables soient nauvais qu'à un italistes français bien et dûment

uilibre financier convénient. On a ne compter au ciers, à toujours à se saturer de t point dans les ente de valeurs que notre pays nous entourent ospérité. Même te sont pas sans

ent, il est donc progrès, à notre nique.

e ce but est de grande quantité Mais, dira-t-on, cette expansion des titres français s'opérera naturellement, grâce à la confiance si grande que le crédit de la France inspire aux autres peuples. Si bien qu'il n'y aurait qu'à laisser faire au temps, aux capitaux étrangers et à la sagesse des nations pour assurer un résultat si souhaitable pour notre avenir.

Ce raisonnement est d'une logique excellente, et peut paraître très solidement fondé en théorie. Il est absolument vain, s'il n'est pas justifié par la pratique. Or, il ne l'est malheureusement pas.

Ce n'est pas tout de dire aux autres nations : "Moi, France, j'émets de la rente, offrant toutes garanties, pleine sécurité. Prenez-la; il n'y a rien de meilleur. Vous connaissez ma richesse, ma puissance de production, mon amour du travail, ma probité reconnue. Vous savez que j'ai toujours payé et bien payé; vous savez combien, même dans les circonstances les plus critiques, j'ai été ponctuelle à remplir mes engagoments. Prenez de ma rente ! Quels meilleurs titres avezvous chez vous ? Quels meilleurs placements ? Quel emploi plus productif et plus sûr ?"

Un tel discours n'aurait rien que de juste et d'exact. Tout le monde est pénétré de ces vérités et nous n'aurions à prêcher que des convertis.

Mais, pour que l'étranger prenne beaucoup de nos fonds d'État, encore faut-il qu'il sache où aller les prendre, où aller les acheter, et même où aller les vendre, le besoin échéant. Il faut les rendre accessibles à tous les capitalistes de l'Europe, et négociables facilement partout.

Or, c'est ce dont on ne nous paraît pas s'être suffisamment occupé.

Comme nous l'avons dit plus haut, nos rentes françaises ne sont pas cotées aux bourses étrangères. Dans ces dernières années, de grands emprunts ont été effectués chez nous notamment en rente 3% amortissable. On peut dire qu'à l'heure où nous sommes, cette rente est presque inconnue sur les grandes places financières de l'Europe. Il y a là une faute commise, une grave négligence qu'il faut se hâter de réparer. On doit faire pour nos rentes ce que les autres nations font

pour leurs fonds d'État qu'elles prennent tant de soin de nous faire connaître et auquels elles ouvrent accès sur tous les grands marchés européens.

VIII. — GUERRE, RUINE, OU RÉVOLUTION INDUSTRIELLE ET ÉCONOMIQUE.

Mais ce qui, à notre avis, ressort jusqu'à l'évidence du travail auquel nous nous sommes livrés, c'est que l'Europe entière, avec le poids de ses dépenses militaires, avec la surcharge des dettes publiques et d'impôts qui l'écrasent, marche, si elle persévère dans cette voie, à la guerre, à la ruine, à une véritable révolution industrielle et économique. Quel que soit le pessimisme d'une telle conclusion, nous ne pouvons taire nos impressions. La paix de l'Europe n'est, à vrai dire. qu'un état de guerre latent, et cette situation qui semble la condition ordinaire du vieux continent pèse de deux manières sur le monde civilisé : elle lui enlève, d'une part, une bonne partie des capitaux constitués par l'épargne annuelle, par le travail de tous, pour entretenir des soldats, acheter des fusils, des canons, des munitions, construire des forteresses, des navires ; d'autre part, elle l'empêche de se servir de ces capitaux énormes pour développer le commerce, l'industrie, le matériel de la production, diminuer les frais généraux de la nation. L'appréhension et les préparatifs de guerre deviennent aussi nuisibles et aussi coûteux que la guerre elle-même. Les finances de l'Europe sont tellement obérées qu'on peut craindre qu'elles ne conduisent fatalement les gouvernements à se demander si la guerre, avec ses éventualités terribles, ne doit pas être préférée au maintien d'une paix précaire et coûteuse. Si ce n'est point à la guerre que doivent aboutir les préparatifs militaires et les armements de l'Europe, ce pourrait bien être, ainsi que le disait, il y a vingt ans, lord Stanley, à "la banqueroute des États." Si ce n'est ni à la guerre ni à la ruine que doivent conduire de semblables folies, c'est assuré ment à une révolution industrielle et économique.

La vieille Europe lutte contre la concurrence de pays jeunes, riches, produisant à meilleur compte. Il est, au-delà de

ant de soin de nous accès sur tous les

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l'évidence du trac'est que l'Europe taires, avec la surl'écrasent, marche, e, à la ruine, à une omique. Quel que , nous ne pouvons pe n'est, à vrai dire, ation qui semble la se de deux manières ine part, une bonne me annuelle, par le s, acheter des fusils, des forteresses, des e servir de ces capiherce, l'industrie, le rais généraux de la de guerre deviennent erre elle-même. Les qu'on peut craindre vernements à se deés terribles, ne doit précaire et coûteuse. aboutir les préparape, ce pourrait bien lord Stanley, à "la à la guerre ni à la s folies, c'est assuré omique.

ence de pays jeunes, Il est, au-delà de l'Océan, une république puissante, l'Amérique, qui a su éteindre une dette que les nécessités d'une grande cause lui avaient fait contracter ; elle offre au monde entier le spectacle d'une prospérité sans exemple. Tout récemment, le message du président Cleveland à l'ouverture du Congrès a traduit le sentiment d'un véritable embarras de richesses. En Asie, tous les peuples commencent à profiter des découvertes et des progrès que l'Europe a accomplis, et comme dans ces pays le prix de la main-d'œuvre et les charges publiques sont presque nuls, l'Europe entière éprouvera chaque année, de plus en plus, les effets de l'apparition sur la scène commerciale et industrielle, de tous ces peuples qui n'ont pas à payer, tous les ans, ni quatre milliards et demi pour les dépenses de la guerre, ni plus de cinq milliards pour les intérêts de leurs dettes publiques.

Le maréchal de Moltke disait récemment au Reichstag "qu'à la longue les peuples ne pourront plus supporter les charges militaires." Il aurait pu ajouter que le jour où les peuples se rendront compte de tout ce que leur coûte la guerre, même lorsqu'elle demeure à l'état de simple risque, lorsqu'ils considéreront la masse croissante d'intérêts que le progrès jette chaque jour du côté de la paix. les gouvernés sauront ce jour-là dicter leurs volontés à leurs gouvernants. Les 41 milliards d'augmentation des dettes publiques de l'Europe. depuis 1870, mis en regard des milliards de diminution de la dette de l'Amérique offrent un puissant enseignement. Non. les peuples ne pourront plus à la longue supporter de tels fardeaux; non, ils ne pourront plus continuer à travailler, à peiner, à souffrir, à élever péniblement leurs familles pour que leurs biens, leurs ressources, leurs épargnes, les êtres qui leurs sont chers, soient sacrifiés et détruits par la guerre dans des luttes gigantesques. Ils veulent la paix, profiter des bienfaits qu'elle procure, échanger paisiblement leurs produits, commercer, travailler; ils veulent tous une administration économe, des diminutions d'impôts.

À ces désirs, les gouvernements répondent en augmentant tous les ans les charges militaires, les préparatifs de guerre, les charges publiques.

Les peuples finiront par se lasser du maintien d'un tel état de choses qui nous ramène aux temps barbares : la civilisation qui a abattu les barrières entre les pays et les individus, rendu les comunications plus rapides et plus faciles, établi des chemins de for et des routes, creusé des canaux, percé des montagnes et des isthmes, imposera la paix aux sociétés modernes d'une façon aussi irrésistible que la guerre s'imposait aux sauvages et aux sociétés anciennes. — Janvier, 1887.

en d'un tel état : la civilisation individus, rendu iles, établi des naux, percé des x aux sociétés la guerre s'impnes. — Janvier,

XVII.

THE WORLD'S PROGRESS IN TRADE AND INDUSTRY.

FROM NEUMANN-SPALLART'S "UEBERSICHTEN DER WELTWIRTHschaft,"¹ translated³ in the "Journal of the Statistical Society," Vol. XLV. pp. 82-114.

THE latter part of the present century has witnessed many changes in the economic and industrial conditions of the majority of the civilized countries of the world. Industries, arts, and manufactures have acquired a remarkable development: the more striking when we consider how rapidly the change has been effected. The progress made by individual States is easily traced by their degree of refinement and a study of their statistics; and from these it will be seen how quickly this transformation advances. Little less than a century ago the industries of certain countries and States were isolated and estranged; at the present time they are to a great extent united. It is not so long since that burdensome restraints were placed upon internal intercourse by reason of monopolies which were in the hands of guilds and corporations. In addition to this, staple rights and traffic rights, privileges which were granted to certain townships, had also the effect of restricting the progress of national, and in a far greater degree of individual, industries end trades. In some of the central European countries this state of affairs continued until very recently, and even when the horizon gradually began to widen among some of the more enlightened nations, this isolation still continued, though within extended boundaries. It was, however, not so much

¹ Jahrgang, 1880, Stuttgart. Julius Maier, 1881.

² The edition of the "Uebersichten" for 1887 has necessitated a number of changes in this translation. — B. R.

an isolation of town from town as province from province. and many European countries formed the type of a narrow minded policy of seclusion in their economic life. It was only during the decade from 1870 to 1880 that those administrative reforms were introduced which had the effect of causing the whole State to be recognized as a unit in respect of economic questions affecting the entire population. Soon after this important epoch in the history of economic progress, people became more sensible of the pressing need that existed of freeing commerce throughout the land from the burdensome restraints which had hitherto fettered it. As soon as the political horizon began to clear, the German States banded together and formed the Zollverein. Great Britain then proceeded to abolish protective tariffs; the continental States also, after a little time, reduced the existing high duties, repealed the guild and corporation laws, which until then had so paralyzed trade, and endeavored to enter into a species of political trades union with each other. It was not long before the European Governments, following the example set them by England and France in 1860, concluded a series of international commercial treatics, by which they reciprocally guaranteed to each other "most favored" treatment; and the subsequent modifications of the treaties thus contracted in the period 1860-68 were generally in a favorable direction, and tended to minimize the domain of customs' exclusion.

After the expiration of the treaty-period in 1877 we enter again upon a time of economic retrogression. The treaties during later years were not collectively renewed, and although in some cases the duties had been raised, yet there was no actual return to the old system of restrictive and prohibitive tariffs. The force of circumstances imperatively demands that commercial relations should remain undisturbed, and not suffer from restraints placed upon free importation into the respective countries. In connection with the close economic combinations of all civilized nations, there has in our time been an increasing effort to attain a similarity of conditions with reference to industry, justice, and administration. The

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e from province, type of a narrow nic life. It was that those adminhad the effect of s a unit in respect oopulation. Soon of economic propressing need that the land from the o fettered it. As the German States in. Great Britain fs; the continental the existing high a laws, which until ored to enter into a ich other. It was ents, following the in 1860, concluded aties, by which they nost favored" treatof the treaties thus enerally in a favorthe domain of cus-

od in 1877 we enter sion. The treaties newed, and although ed, yet there was no tive and prohibitire tively demands that sturbed, and not sufortation into the rethe close economic ere has in our time ilarity of conditions dministration. The unity of the most complex State relationships depends on the contents of numerous economic treaties. At first in Germany, and afterward in certain other European States, railroad organizations were formed. By means of these enterprises goods and personal property were transported throughout the whole length and breadth of the land. Even in a far greater degree than railways, have the postal and telegraphic systems been the means of uniting not only the State but the entire world, and of making people of all nations neighbors in spite of distance. The world's postal union, which extends nearly 1,300,000 square miles, and unites approximately 760 millions of people, is one of the happiest results of the development of commercial industries. In the same way, in 1865, the first steps were taken to establish an international telegraphic union, and the results in 1880 went far to prove that this union had been the means of breaking down the barriers of international commercial intercourse. Railway congresses, assemblies of a thoroughly cosmopolitan character, the postal congress, and the international telegraphic conference, - all enjoying official authority, - have been the means of extending still further commercial relations. What they accomplish in the region of intellectual and material culture is recorded in golden characters in the history of the world. They have proved, in a far greater degree than was anticipated, the means of promoting still further advancement in the economic conditions of the world. To them we owe the unity of the weights and measures on the basis of the metrieal system, the international system of goods transportation, and the adoption by entire groups of States of the same monetary standard, of which we have an example, first, in the Austro-German monetary conference, then in the conference of 1865, known as the Great Latin Conference, and lastly in the Scandinavian monetary union. The adoption of a complete international system of weights and measures is a question the settlement of which cannot be long deferred; the only point upon which controversy is likely to arise is the settlement of the basis which is to be taken. There has already been established a similarity in the inter-

national laws of banking and exchange. This has been the means of affording greater security for the protection of international rights, and given also an impetus to the distribution of capital. As may be easily credited, at no period of the world's history has there been a time when the rapid circulation of capital between one nation and another has been more easily and expeditiously effected than at present. The movement of milliards now occasions no surprise, and it is perfectly consistent that in the case of English or French capital which circulates in Austria, Germany, Russia, Egypt, or in South America, or Asiatic countries, any excess or deficiency may be provided for by credit drawn on Europe, in America, or India. Thus in the same way all commercial enterprises combine to assist in the development of cosmopolitan economy, - railways, posts, and telegraphs being the outward sign of this union. With these goes hand in hand the division of labor which conveys the production of the masses to its proper place in the world. With the ever-increasing masses, the necessity of the world's production being considerably extended becomes a matter of the first importance, and there are now no barriers sufficiently strong to resist this universal demand. Administrative institutions must be so adapted that this century's legislation may be fixed on a firm and lasting basis.

International relations have had the effect of creating a new order of life, in which the industrics of individual States, without detriment to their independence or individuality, must perform their share of the functions of the whole, of which they constitute a unit. The part then which in the world's economy is taken by individual States is of the greatest value; and though the present economic conditions of the world are not yet fully developed, they are sufficiently advanced to enable us to form an idea of their ultimate importance. Wonderful progress has been already made, and even if it be found that the improvements which have so far manifested themselves in these economic conditions will not be further advanced by the present generation, still there can be no question as to the excellent results of which they have

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his has been the protection of inus to the distried, at no period e when the rapid and another has than at present. surprise, and it nglish or French ermany, Russia, untrics, any excredit drawn on the same way all the development s, and telegraphs h these goes hand ys the production vorld. With the e world's produca matter of the rriers sufficiently dministrative inntury's legislation

t of ereating a new individual States, or individuality, s of the whole, of hen which in the States is of the pnomic conditions ey are sufficiently heir ultimate imlready made, and which have so far onditions will not on, still there can t which they have already been productive. In all parts of the civilized world the growth of capital has made rapid progress, and even during the commercial crisis of 1873, and the consequent depression, this progress, though certainly interrupted, was not wholly checked. It again received a powerful impulse in 1880-82, and has by no means come to a standstill in the relatively unfavorable years 1883-85. Adequate employment for these accumulated millions has been possible in large Thus, for instance, when sufficient economic undertakings. profit was not obtainable in Europe by reason of a fall in the rates of interest, capital was diverted into other channels, and employed in foreign investments in far distant countries, which, though remote, yet offer a fair field for investment. In this manner inventions and enterprise have been universally stimulated.

All these considerations lead us confidently to predict that though there may be interruptions and checks to the ever increasing progress in the improvements of the world's economic conditions, these interruptions are of a purely temporary character, and must eventually be overcome. Industries and commerce which have advanced with such rapid strides, and the vast amount of labor and capital which have been expended upon railroads, shipping, telegraphs, etc., have all given an impetus to the world's progress, and eannot fail to make a lasting impression upon it.

In order thoroughly to appreciate the changes which the world's economic conditions have experienced under the different natural political and social influences, as well as to estimate the reaction caused by crises, or periods of speculation, favorable or unfavorable harvests, wars, or revolutions, protection or free trade, and other important factors in determining the national prosperity, it will be necessary to arrange a broad and comprehensive system of statistics extending over a lengthened period. We have to deal with such a mass of complex individual elements, that only the consideration of the most important will lead us to any logical deduction. Social economy, commercial policy, finance, changes of administration, as also the specific influences of

good or bad years, must be taken into account. In the investigation of a subject so complicated as the present, we must be satisfied with very crude information, and as it is impossible to obtain accurate and reliable data, we are obliged to depend in a very great measure upon inference and deduction. As a means of approximately estimating the extent of increase or decrease in material prosperity, it is advisable to take as a basis for the calculation, the income-tax returns, affording as they do a certain indication of the position of national wealth.

Among the nations which have contributed so enormously to increase the world's prosperity, Great Britain takes the foremost place, the growth of her national capital having since the commencement of the present century made very rapid strides. A reforence to the income-tax returns will show how great this annual increase has been. Mr. Dudley Baxter gives the income for the year 1814-15 as 146 millions sterling (according to the income-tax assessments); in 1843 it amounted to 251 millions, while in 1865 it rose to 396 millions, and in 1875 to 571 millions; and according to the estimates formed by one of the most distinguished statisticians, Mr. Robert Giffen, the national wealth of Great Britain, which in 1865 amounted to 6,113 millions, rose in 1875 to 8,548 millions; thus exhibiting for the decennial period an increase of 2,435 million sterling. Latterly, on account of the general depression which has prevailed, the annual increase of wealth is estimated only at 90 millions. Thus the progress for the entire period may be presented in the following statements:-

Years.					Authority.													National Wealth.	
1800					Beck	and	P	ul	ten	ey			:	•	•				£1,800,000,00
1840				•	Porter												•	•	4,000,000,00
1860					Leone	Le	vi					•	•	•		•	•	•	6,000.000.00
1875	•	•	•	•	Giffen			-			-			٠	٠	٠	٠	•	8,550,000,00
1880	•	•	•	•		•	•						•	•	•	•	•	•	about 9,000,000,00

And it will be readily conceded that the latter figures are rather under than over estimated, when we consider the fact that the amount of British capital invested in Government

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nt. In the inthe present, we , and as it is im-, we are obliged ence and deducing the extent of it is advisable to come-tax returns, f the position of

l so enormously to in takes the fore-I having since the very rapid strides. 1 show how great y Baxter gives the s sterling (accord-43 it amounted to 6 millions, and in estimates formed icians, Mr. Robert ain, which in 1865 to 8,548 millions; n increase of 2,435 the general deprescrease of wealth is progress for the ening statements:-

National Wealth.
£1,800.000,000
4 000.000.000
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about 9,000,000,000

e latter figures are e consider the fact ted in Government securities and different companies, in railway and other industrial enterprises, is estimated by Mr. Giffen, in his paper on the accumulation of capital in the United Kingdom, at 2,788 millions, and by the "Banker's Magazine" (March, 1881) at 3,465 millions. According to the income-tax returns, the exempted incomes in 1845 were at the rate of \pounds 7, in 1855 \pounds 11, and in 1875 \pounds 17 per head. According to the most recent calculations (1884), however, the amount is estimated at about \pounds 36 per head of the community. These figures will show at what an extraordinary rate the wealth of the country is increasing, and we may repeat that the estimates are rather below than above the mark.

As regards the progress of the national wealth in France, it appears from the examination of the data that the accumulation of capital has increased in the period 1848-71 from 50 to 60 per cent. M. L. Wolowski estimated the national wealth in 1871 at 150 to 200 milliards of francs, of which 120 milliards consisted of property in land and houses, so that this latter description of property has absorbed since 1851 about 20 milliards, or yearly one milliard of francs. This view of the national prosperity of France has also been taken by M. de Foville, after a critical examination of the estimates formed by M. Block, S. Mony, A. Amelin, Vacher, and other well-known writers. He estimates the national wealth, after the loss of Alsace and Lorraine, at from 200 to 216 milliards of francs; these estimates are also fortified by the authority of Fehler, who agrees in the main with De Foville as regards the increase in the accumulation of wealth, which may be estimated at 1,500 millions of francs yearly.

There are so many insurmountable difficulties in the way of approximately estimating the increase in the national wealth of Germany, that a comparative statement is almost out of the question. The many political, administrative, and territorial changes which of late years have taken place, render it almost impossible to produce a comparison between its present position and that of earlier years; an idea, however, may be formed of the great progress made by this nation

by a study of the value of the exports, which increased from 1,060 million marks in the year 1850 to 6,554 million marks in 1884. Another method of arriving at an approximate idea of the increase of public wealth is to take the amount of duties levied on all steam industries. Dr. Engel computes the actual assessed capital in the German Empire employed in these industries at 11,104 million of marks. Dr. Soetbeer, in his valuable work on the extent and distribution of wealth, though taking a somewhat pessimistic view of the situation, states that in the kingdom of Prussia alone during the period 1872-78 — a period of industrial stagnation — there was found to be a sensible increase in the national wealth, as the following table will show: —

Years.										National Income.	Per Head of Population.				
														Marks.	Marks.
1872 .	•	٠	•	٠	٠	•	٠	•	٠	•	•	•	•	6,969,000,000	293
1873 .		•					•				•		•	7,195,000,000	299
1874 .														7,532,000,000	307
1875 .													.	7,628,000,000	811
1876 .													. 1	7,857,000,000	316
1877 .													. 1	7,992,000,000	315
1878 .		•												8,069,000,000	323

As an indication of the increase of national income, if we estimate it simply from the income-tax assessments, it will be seen that the tax-paying income, which amounted in 1854 to 302 million marks, rose in 1878 to 957 millions, — an increase of 300 per cent. It is evident, therefore, from an examination of Soetbeer's that there has been a very considerable increase in the national wealth of Prussia.

The remaining western European countries also afford valuable materials for researches into the question of the growth of economic power. Thus in the case of Austro-Hungary, C. von Czoernig, basing his calculations upon various statistical returns, estimates roughly the income derivable from land, mining, and other industries in 1859 at about 3,360 million florins; an unofficial publication issued in 1868 estimates it at 4,300 millions; and the

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increased from 4 million marks approximate idea amount of duties nputes the actual aployed in these Soetbeer, in his of wealth, though situation, states uring the period tion — there was tional wealth, as

ncome.	Per Head of Population.
(s.	Marks.
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)0,000	209
)0,000	807
00,000	811
00,000	316
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intries also afford he question of the e case of Austrocalculations upon ughly the income industries in 1859 official publication nillions; and the figures for the year 1874, taking the very lowest estimate, may be reckoned at from 5,500 to 6,000 million florins. M. Falbe Hansen is of opinion that the national wealth of Denmark amounted in 1873 to 2 million reichthalers, and M. Massalski estimates that of Belgium at 29 milliard francs; and as regards Sweden, it appears from a work which has been issued by an anonymous statistician, who has evidently devoted much care and attention to the subject, that its national wealth in the year 1876 amounted to four and one half milliards kroners, or five milliards marks.

Still more interesting than this review of Europe is a study of the remarkable progress which has been made in the economic conditions of the United States. This country possesses the data of regular valuations at every census, and from them we find that in 1790 the wealth of the then three millions of inhabitants was estimated at \$750,000,000 or an average of \$187 to each person. The decennial increase since that date is shown in the following table: —

Year.	Population.	Wealth.	Decennial Percentage Increase of Population.	Decennial Percentage Increase of Wealth.	Average Property to each Person.
			Per cent.	Per cent.	
1790	3,929,827	\$750,000,000			\$187
1800	5,305,937	1,072,000,000	35.02	43.00	202
1810	7,239,814	1,500,000,000	36.43	89.00	207
1820	9,638,191	1,882,000,000	38·13	25.40	195
1830	12,866,020	2.653,000,000	83.40	41.00	206
1840	17.069.453	8,764,000,000	32 67	41.70	220
1850	23,191,876	7,136,000,000	35.87	89.60	30
1860	31.500.000	16.159.000.000	35.59	126.42	514
1870	38,558,000	30.069.000.000	22.00	86.13	780
1880	50,155,783	43.642.000.000	80.00	45.00	870

Here also the progress of national wealth, as in England, was very slow prior to the year 1840, after which a much more rapid increase was made. The remarkable difference between the figures of 1850 and 1860 is attributed in the census-volume itself to an undervaluation for the year 1850. It is, however, affirmed that a sufficient improvement in statistical methods has taken place since 1860 to permit of a

correct comparison of the figures of that year with those of 1870 and 1880, and to establish statistically a rapid growth, particularly in the decade from 1860 to 1870. Especially in 1880 was an exact and comprehensive method employed in order to ensure the greatest possible accuracy. The comparative slowness in the increase of wealth from 1870 to 1880 is explained by the census commissioner by two considerations. In the first place the valuation in 1870 was made upon the basis of a depreciated currency, but in 1880 upon a gold basis; and in the second place there has been an increasing tendency of personal property to escape assessment. In any event the depression in the years 1874 to 1879 has also exerted an appreciable influence.

The aggregate of the national wealth for 1880 is made up from the following particular valuations: —

	Mill. Doll.
Farms	10,197
Residences and business real-estate, including water-	
power	9,881
Railroads and equipment	5,536
Telegraphs, shipping, and canals	419
Live stock, farming tools, and machinery	2,406
Household furniture, paintings, jewelry, books, etc	5,000
Mines and quarries, together with 1 the annual pro-	
duct	781
Three-quarters of the annual product of agriculture	
and manufacture and of the annual importation of	
foreign goods	6,160
Churches, schools, asylums, public buildings	2,000
Specie	612
Miscellaneous items, including tools of mechanics .	650
Total	43,642

In this summary of national wealth, which appears not to have been based upon the assessed valuation of property, as that amounted only to \$16,903,000,000, but upon 25,000 replies to inquiries and upon numerous local estimates, the public debt of the Union has not been taken into consideration, although it is chargeable in some manner to the total national wealth pro rata parte; but allowance has been made

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for private indebtedness, the debts of the various States, corporations, insurance companies, mortgages, etc. The correctness of the data has, however, been established with greater accuracy as regards the details, and under any circumstance we have here to do with one of the most interesting direct valuations of modern times.

For the completion of the foregoing data concerning the national wealth of the United States certain figures from the annual reports of the Treasury Department will serve, as they likewise tend to show both the rapid increase of national prosperity in recent years and in particular the remarkable fluctuations since 1879.

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Millions	omitted.]

For Fiscal Years Ending 30th June.	1875.	1880.	1881.	1883.	1883.	1884.
Ordinary national rev- enue. Ordinary national ex- penditure (exclu- sive of sinking fund	284-0	333·5	360-8	403·5	398-3	348·5
and interest on debt) Net public debt Interest on public	171 [.] 5 2,128 [.] 7	169·1 1,942·2	177·1 1,840·6	186-9 1,688-9	206·2 1,551·1	189·5 1,450·0
debt	103·1	95.8	82.5	71-1	59·2	54.6

It would be impossible to find in the financial position of any other State such striking evidence of the increase of national wealth as is discernible in the above figures.

The figures which we have already quoted will be sufficient to convince every one of the very remarkable universal increase which has taken place in national wealth during the latter part of the present century, both incomes and capital having increased in a much more noticeable degree during this period than in any other. We will therefore proceed to a statement of the causes which have contributed to this vast increase of wealth, — and this is a subject which cannot be dismissed in a few words, but requires, in order to make it thoroughly clear and comprehensive, to be dealt with somewhat exhaustively. It will here, however, be practicable only

to enumerate in as clear and concise a manner as possible what have been the most important factors in determining this remarkable development of national wealth. One of the chief points to be considered is the influence exercised on the economic conditions of the world by the introduction of machinery and its substitution for manual labor, which is one of the growths of the present century. The importance of the wonderful inventions and improvements which have taken place is visible in the effect which they have had upon the increase of capital invested in machinery, and which as an investment has far exceeded in profit that employed in manual labor. Then too the application of steam, which has wrought so complete a change in locomotion must be recognized. As an indication of the vast amount of the world's capital which is invested in steam undertakings, we may mention that Dr. Engel, in one of his interesting publications, estimates the capital so invested, in round numbers, at 133 milliard marks, distributed as follows: eighty milliards in railways, forty milliards in various steam undertakings, five milliards in sea-going steamships, and the remainder in river steamers. The part, then, taken by steam as a motive power, and the introduction of machinery in the improvement of the economic conditions of the world, are of the very greatest impor-These inventions have been the means of causing a tance. very large increase in the accumulation of national, and in a corresponding degree of the world's wealth. Another important element to which we must direct attention is the development of the credit system, which has in all civilized parts of the world taken place during the last twenty-five years. This does not necessarily produce fresh capital, but it has the effect of facilitating the better application of capital which is anywhere disposable; floating capital is collected and is brought into more permanent forms of investment. Deposit banks, savings banks, and credit institutions, and above all the general employment of bills of exchange, which have now become universally adopted, have all been the means of supplying what was in earlier years a want much felt, and have become important factors in determining the

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Another importion is the develall civilized parts twenty-five years. apital, but it has ication of capital npital is collected ms of investment. institutions, and of exchange, which have all been the years a want much n determining the augmentation of capital. The judicious operations of banking are mainly instrumental in rendering capital active and productive. It will be seen by reference to the international savings bank statistics, published by the Italian Statistical Bureau in 1876, how vast the operations of savings banks were. From this work it appears that although these institutions were only established some forty or fifty years ago, vet in the year 1875 in Europe alone about 6,400,000,000 marks, and in the United States about 3,500,000,000 marks, making in round numbers a total of 10 milliard marks, had been invested. This is a sufficient indication of the influence exercised over the accumulation of capital by other and similar institutions, and tends to show how by this credit system activity and usefulness have been given to accumulations which without these benefits would have become mere hoards. And lastly, we come to the question of the maintenance of the working population; and here we cannot lay too much stress upon the necessity which exists of increasing and maintaining a national working population, this population in itself representing so much living capital.

We will now turn to another method of estimating wealth. namely, an attempt to determine the economic condition of a country during a fixed period of time. This is a labor analogous to that which the science of meteorology has to set before itself in determining the peculiarities of weather in a certain neighborhood. As climate depends on a great complexity of individual elements, so what we call the world's economy is the result of various factors, which act upon the material processes of life in a given population with greater or less power. In both cases, in the statistics of meteorology and economy, a similar analytical examination of the causes of a total impression have to be the object of investigation; but while meteorology deals with actual elements or factors of the present, such as atmospheric pressure, temperature, humidity, direction and force of wind, etc., while it possesses exact measuring instruments for the determination of these, and finally can supply itself with an endless series of exact observations, economic statistics must be satisfied with surrogates

of the methods of natural science. In order to calculate upon the real elements of economic conditions when frequently remaining concealed, our investigation must often be satisfied with such appearances as lie upon the surface, and which in their nature are merely symptoms, and actually have them. selves no ultimate effect on the sources and action of things. Besides this, even these symptoms cannot in the real significance of the word be measured or exactly expressed, but only individually employed for computations and numerical comparisons. And finally, the same primary causes in the material life of culture have not the same effects among all nations and at all times. Thus even if we are able to point to more than more symptoms, we shall have to be careful in forming our conclusions, and cannot afford to overlook that almost all such results must in their very nature be empirical, that is to say, must depend upon laws which are only binding upon the given circumstances of space and time, and in no way permit us to generalize. The desired object, though comparatively limited, is nevertheless a difficult one to attain; it presents an array of operations which as regards physical science are superfluous, but are here indispensable. One of these operations consists in the choice of the most important, and of a study of the remainder of the accessible symptoms of the economic situation which are capable of being estimated. The symptoms, then, of the world's economy will be dealt with in the following pages. Another, which is an exact operation of measurement, consists, according to our theory, in the endeavor to deduce the type or normal course of the groups of facts or observations chosen as symptoms of the economic situation, which embrace definite The establishment of the type will result in many periods. cases in the choice of normal years as the point of comparison, and of the mcan, in many other cases, by choosing the commencement or the end of the series, and taking the average of an entire period as the mean.

There is scarcely any period which has been so characterized by a series of powerful reactions as that comprised between the years 1870-85. From 1870 until the middle of

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been so characterthat comprised bentil the middle of 1873 almost everywhere the progress of economic life could be clearly traced, and this was a period marked by a commercial crisis which made itself universally felt. There followed then a time of depression lasting until the year 1879, when a reaction set in. This revival was experienced in the United States about the end of 1879, and at the commencement of 1880 was felt in the countries of western Europe, Great Britain, the Netherlands, Belgium, France, and Germany. The effects of this reaction were somewhat slow in manifesting themselves in European countries, those first experiencing them being Holland, England, Belgium, and France, while the German States, Italy and Austro-Hungary were among the last. It will be impossible in a work of this description to pursue a complete analytical investigation into all the symptoms which are likely to afford any indication of the position of economic progress. These symptoms must be considered in groups, which we shall classify as follows, - primary symptoms, secondary symptoms, and reflective symptoms.

Under primary symptoms we proceed first to deal with the question of the extent of production. There is no more reliable basis on which to determine the real economic condition during a fixed period of time than that which lies in the activity manifested in producing power; but in considering this subject we must not lose sight of the fact that great discrimination is necessary to distinguish between the relative importance of these symptoms of increased production. For instance, we must inquire whether that particular branch of industry in which such expansion is visible affects articles which are liable to extremes of activity and depression, and whether by this the decline of great industries is regulated; and again we must satisfy ourselves to what extent the improvements or the reverse are affected by the prevailing conditions of administration or government. As affording a certain indication of the position of economic progress, we will take the case of mining industries. Activity, or stagnation here are certain symptoms of favorable or unfavorable position. On the other hand, if we take the case of harvests

and the wheat productions of good and bad years, as these are affected by the weather, and are entirely dependent for their abundance upon the rain and sun in due season, they have only a casual, and not what we should call a symptomatic character.

Let us now draw our deductions from the symptoms as manifested in the extent of production during the period 1870-85. All of the more important industries of the world experienced from 1870 to 1873 a wonderful extension, and as affecting the world's prosperity, this may be regarded as a token of the most favorable economic conditions. We will take as an example the enormous increase in cotton industries and in mines and iron works. As regards the former, the number of spindles and looms have everywhere increased very considerably, and the quantity of yarn and woven goods exported from England, which amounted in 1870 to 942 million pounds, rose in 1873 to 1,078 millions. The value of cotton goods in the same period increased from ninety-three millions sterling to 104 millions, - similar symptoms are everywhere visible in the industries of the world for the same period. As regards iron works, there was a considerable increase in the number of furnaces set up, and the total production of pig iron in the world rose from twelve million tons in 1870 to nearly fifteen millions in 1873. Everything during this period in fact tended to prove that the world's prosperity was making very rapid strides. A change, however, was wrought by the commercial crisis of 1873, and the effect of this crisis was to paralyze both the textile and iron industries, the statistics of the amount of production in each case showing a gradual but steady diminution. In the chief centres of the iron industry there were, at the end of 1876, 2,537 furnaces in existence, which were approximately capable of producing at the lowest estimate twenty million tons of iron; there were, however, but 1,329 of these furnaces at work, while 1,208 were at a standstill, and the quantity of iron produced amounted to only 280 million centners.

Again in 1878 we have very good authority for stating that

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it was a time of almost universal depression. To demonstrate this more clearly, we will take the case of the most important of the great industries, namely, the cotton industries, which in Great Britain, under favorable circumstances, give employment to some four millions of people.¹ In the years 1876 and 1877, though there were large sales owing to a great amount of stock having accumulated, the prices obtained were considerably below the market value. In 1878 there set in a complete cotton crisis, and the effects of this were more severe than any which had been experienced by the preceding generation. In the more firmly established houses the hours of labor were shortened, while in others business was entirely suspended, and there ensued a period of depression, not only as regards England, but in fact the whole world, unparalleled in commercial history. According to Ellison's cotton reports the depression reached its climax during the first three months of 1879, when there was apparent an indication of a grand revival of trade. The same features which characterized the cotton trade were apparent in woollen, silk, and linen industries, - the depression in the two latter being more marked than in the former.

It was only in the latter part of 1879 and in the beginning of 1880 that a marked improvement was to be seen in most of the important industries. It was particularly noticeable in the coal trade, the increase in the production of which in Great Britain, Germany, France, Belgium, and more espeeially in America (from fifty-two million tons in 1878 to sixtynine millions in 1880), may be assuredly taken as a certain indication of a steady improvement in the world's economic conditions. Soon afterwards, in the autumn of 1879, a stimulus was given to the production of iron in America, followed in a few months by renewed activity in the iron industries of Great Britain and most of the European countries. The fires which had been for some time extinguished were once more kindled, and the production of iron increased in one year at the rate of between twelve and twenty-one per cent. There was also renewed activity in the smelting and puddling

¹ This seems a great over-estimate. - Editor of "Journal."

works, and in fact towards the end of 1880 there was not only a marked but a widespread improvement of trade. The cotton industries of the world particularly exhibited signs of revival, and this may be accepted as a certain symptom of an amelioration of the economic position. Taking the case of spun yarn, the weekly production, which in Great Britain amounted in the year 1878-79 to 50,026 pounds, and on the Continent to 47,352 pounds, rose in 1879-80 to 58,038 and 50,344 pounds respectively, thus showing an increase in this one article of 572,200 pounds, or nearly twelve per cent in this year alone. The other branches of textile industries did not in the same degree exhibit such an improvement, yet it was evident that toward the close of 1880 unmistakable signs of revival were not wanting. This revival continued during the years 1881-82, but was not however destined to be permanent. The capacity of the markets of the world was everywhere overestimated, and the extent of production in the principal industries soon exceeded the demand. Although in 1883 an extension in some of the branches of production was still noticeable, yet the prices of the various products had commenced to decline. During the years 1884-85 the decline in the production of all the industries to which we have here called attention was most clearly marked; and as these industries comprise three-quarters of the value of the entire production of the world, depression or activity in them forms an excellent indication of the actual prosperity of the world.

Again, the extent of consumption is of symptomatic importance in regard to the condition of national wealth. The increase or decrease in the consumption of articles which may be termed necessaries, such as breadstuffs, provisions, and clothing, are not such reliable signs of an improvement or the reverse in national prosperity as the same fluctuations which may be observed in those articles which are not indispensable to man, and come under the heading of luxuries, as it is obvious that in a time of depression there would be a far more restricted consumption in the latter than would be found if trade and industries were flourishing and

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symptomatic imnational wealth. nption of articles breadstuffs, provile signs of an imsperity as the same nose articles which nder the heading of of depression there n in the latter than rere flourishing and

Although the data are of a somewhat meagre prosperous. description, we will again take the period of 1870-85 in which to form our conclusions as to the position of national wealth, judging from the extent of consumption. If we look first at the consumption of coffee, tea, sugar, and tobacco, it would appear that the same indications are shown of material prosperity during the period of 1870-73, and that the effect of the commercial depression which followed this period did not so seriously affect the national wealth as might have been expected, the consumption being certainly to some extent limited, but in most countries only in a very slight degree. From 1878 to the end of 1879 seems to have been the most unfavorable time of the whole period. On the other hand, in the year 1880 a revival is perceptible throughout the economic world, which continued with vigor during the years 1881-82, and was again checked in the years 1883-84. As an example of the consumption of coffee, the supply received in Europe in 1871 amounted to 2.47 million centuers, in 1875 to 3.30 millions, but in 1880 it fell as low as 2.74 million centners. From 1880 the consumption steadily increased until 1883, when it reached 4.39 million centners. It then again declined to 4.09 million centners in 1884, and to 4.31 in 1885. The great increase in the consumption of tea in 1870-74 was almost universal; it was only in 1878-79 that the consumption was first checked; and in the years 1880-83 it again distinctly increased. The same may be said as regards tobacco. A study of these articles in individual countries also reveals similar economic indications. In America, for instance, in the fiscal year 1879-80 the quantity of coffee imported amounted to sixty-nine million pounds, or 1.4 pounds per head of the community; that of tea to twelve million pounds, or 0.25 pounds per head; tobacco leaf to three millions; wine 6,394 million gallons and 1,303,356 bottles; and the American people retained in this year for home consumption about 130 million pounds more of refined sugar than they had done in previous years. In England, though this was a favorable year, yet the increase in luxuries was small, only cocoa, wine, and tobacco being

consumed in greater quantities, whereas there was a decrease in tea, coffee, and sugar. An examination, however, of the return of taxes for the last nine months of the year 1880 point conclusively to the fact that the economic position was substantially ameliorated. In France the signs of increasing prosperity were more apparent than in England, a very considerable augmentation in the imports of coffee, sugar, and tea being perceptible in 1880, and although this year was not a very favorable one as regards the wine production, yet as a set-off against this there were in 1880, 852,000 hectolitres more beer consumed than in 1879, and about 9,463 kilograms (valued at nine million francs) of tobacco and cigars than in the previous years, and there are not wanting signs to show that this increase of material prosperity was not of a spasmodic character. A similar progress was also to be seen in Belgium. And finally we will take the case of Germany, where in the year 1878 about 8.7 million marks more duty was paid on luxuries, such as sugar, tobacco, brandy, and beer, than in previous years, and this in connection with the information already given with regard to the imports of foreign produce, effectually removes all doubt as to the improvement at that time in its economic position. Only in Italy was there to be found a slight indication of an unfavorable tendency, and in Austria there was an inference of the maintenance of the status quo, the revival in both instances having taken place since 1880.

No one who has studied the commercial statistics of the decade 1870–1880 can fail to be impressed with the enormous increase which has taken place in the consumption of textile fabrics, iron, steel rails, and the production of other staple industries. To follow these in all their details would be out of place here; it will only be necessary to remark that they experienced a moderate rise dating from the year 1873, and a partial decline in 1880. As an American writer forcibly put it, the poor man in the time of depression wore his coat twice as long as he otherwise would, the rich man entertained less, and in many instances disposed of his horses and carriages: the tailor and the shoemaker complained that they had much

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statistics of the ith the enormous uption of textile f other staple ins would be out of urk that they exyear 1873, and a riter forcibly put re his coat twice entertained less, s and carriages: t they had much to mend and but little to make. As an illustration of this, we may mention that in England in 1878 about twenty-six million pounds less wool and 897,588 pounds less silk were consumed than in 1877, and besides this, all the warehouses were full of stock. The universal decrease in the consumption of these staple articles continued during the gloomy period 1874-79. The depression was of such a lasting character, and carried such disheartening effects in its train, that one hardly cared to inquire how it happened that such an unfavorable state of affairs, unbroken by any prospect of a speedy revival, could exist in central Europe and America. With this restriction in consumption was associated a curtailment of profits and a consequent lessening of income; and when in 1879 the horizon commenced to clear, and the first ray of hope was to be seen, it was welcomed with a feeling of intense relief by all classes of the community.

We will now see from the extent of commercial facilities what conclusions may be formed as to the actual economic position; and it appears to us, after many years of patient observation, that the increased activity in commercial enterprises should assuredly be placed in the front rank of what we have called the primary symptoms. If one follows the improvements which have during the last few years been made in railways, postal systems, telegraphs, banking, etc., one cannot fail to be impressed with their very vast importance as factors in determining the condition of the world's prosperity. Thus, in all civilized parts of the world, railways, one of the most important of these factors, showed a very rapid increase from 1870 to 1873 or 1874, both in the number of passengers earried and in the quantity of goods conveyed, and as a natural consequence the receipts from both sources greatly increased. From 1874 to 1878, and in many countries until 1879, there ensued a period of stagnation in railroad enterprise, and in fact to such an extent that not only were the effects very disastrous as regards industry, but great social dangers were apprehended.

As an example of the stagnation of industrial life in North America, we may state that the loss to holders of scrip in

bankrupt or worthless railways in 1877 is estimated in round numbers at 1000 million dollars, and that they were power. less to prevent the fearful strike which happened on the Baltimore and Ohio Railway on 16th July, 1877. It was only in 1879, or the beginning of 1880, that an improvement manifested itself in railway enterprise, and the revival was first experienced in the United States. In Great Britain, France, Belgium, and Austro-Hungary the traffic receipts began then gradually to increase; while in Italy alone a similar impulse does not appear to have been given until the autumn of 1881. From 1881 to 1883 great activity in railway construction and large increase of traffic were manifested in all countries of western civilization. There appeared, however, in the United States symptoms of a reaction in 1883, which led to an actual crisis in 1884. In European countries also a stagnation in commerce began in 1884, which continued in 1885, and caused a dangerous diminution in the dividends of railways.

In shipping, the same features are to be seen as those which characterized railway enterprise. During the same period we notice similar peculiarities in this particular branch of industry. The fluctuations in the number and tonnage of vessels built, the increase or decrease in the tonnage entering or clearing, and the amount of freight, — all these will show the condition of the world's prosperity.

The postal and telegraphic statistics are not of such valuable assistance as symptoms of the periodically favorable or unfavorable condition of economic progress. We will, however, give the following figures, as they tend to show, in a slight degree, which were the favorable and unfavorable periods. The number of newspapers and books sent through the British post-office rose from 202 millions in 1871 to 254 millions in 1873, that is, about twenty-six millions annually: from 1873 to 1874, however, the number rose to only 253 millions, that is, about four millions annually. With the revival of trade this number again rose from 328 millions in 1879 to 412 millions in 1882, that is, about twenty-eight millions annually, the same as before the crisis; and from 1882 to 1885, to 464 m., indicating a slight retrogression. The

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Let us now take another of the primary symptoms of cconomic progress; viz., the state of the money market. If we look at the value of paper currency as the substitute for cash payments, we find that it increased during the period 1869-73 about 1,679 million marks, and declined from that date till 1879, to the extent of 2,350 million marks. At this time there was a larger amount of uninvested capital lying idle than had ever before been known. The bank hoards accumulated, from the commencement of the period of stagnation, at least 1,100 to 1,200 millions of marks in gold and silver. If we take the returns of the two greatest financial institutions in the world, the clearing houses of London and of New York, we find that they show an increase from 190 milliard marks in 1870-71, to approximately 256 milliards in 1873-74; and on the other hand in 1878-79 they stood at 188 milliards, which, taken in conjunction with the increase of population, must be regarded as an unusual depression. How great was the revival of trade in 1880 may be gathered from the returns of both clearing houses, which show an increase from 203 milliard marks in 1878-79 to 266 milliards in 1880.

The condition of foreign commerce, though of course affected by the state of industrial enterprise, also furnishes in itself an important symptom of the economic situation, as by it one can compare the rise and fall in the purchasing power of nations. The wonderful fluctuations in national wealth are nowhere more clearly shown than in the statistical trade returns of the last decade. The figures, although they cannot be said to be in any case strictly accurate, still point conclusively to progress or retrogression in material pros-

perity. In almost all countries the export returns are less reliable than the statistics of imports. It must be borne in mind also that the volume of foreign trade is determined not by quantities but by value, and this is to a certain extent misleading, as changes must take place from time to time in the aggregate values of imports and exports; and one ought to consider how far these changes, which are due to fluctuations in average prices of commodities, affect the total import and export trade. We find, then, from an examination of the trade returns of the most important countries of the earth, that the total import and export trade increased from 1865 to 1872 annually 2,166 million marks; from 1872 to 1873 about 1,620 million marks; while from 1873 to 1877 it experienced a sudden and rapid decline. The year 1878 witnessed the inauguration of a brighter era, trade improving to the extent of nearly 1,400 million marks; and this revival continued to make progress throughout the years 1879 and 1880. To avoid misconception, we cannot insist too much upon the influence exercised over these remarkable fluctuations by the rise and fall in prices; these, of course, being very material elements in determining the general totals of imports and exports; but even making due allowance for the effect of the changes in prices, these fluctuations are none the less remarkable, and must be accepted as unmistakable symptoms of the economic situation. From the trade volumes of the various countries, we find that the value of the foreign trade of the United States in 1880 exceeded by 308 million dollars that of the preceding year. Great Britain, for the same period, showed an increase of seventy-nine millions sterling, France 482 million francs, and Austro-Hungary 55 million florins. These four countries, then, will serve as an illustration of the increasing growth of economic power, having in one year alone raised the value of the world's foreign trade to the extent of about 3,300 million marks.

We will now proceed to an examination of those symptoms of economic progress which we have designated above as secondary symptoms, and will consider first the prices of commodities and wages. The favorable period, comprised rt returns are less t must be borne in le is determined not to a certain extent rom time to time in orts; and one ought are due to fluctuafect the total import examination of the ntries of the earth, increased from 1865 from 1872 to 1873 873 to 1877 it expeyear 1878 witnessed le improving to the nd this revival conyears 1879 and 1880. t too much upon the e fluctuations by the , being very material tals of imports and for the effect of the none the less remarkakable symptoms of volumes of the varithe foreign trade of 308 million dollars ritain, for the same ine millions sterling, Hungary 55 million serve as an illustranic power, having in world's foreign trade s.

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between 1870 and 1873, was characterized by a general rise in the prices of commodities and in wages, by reason of the demand for industrial power far exceeding the supply. If we look at the trade circulars of London, Hamburg, and New York, which contain regularly the same staple commodities, we find that the highest prices as regards textile fabrics, iron, tin, copper, most articles of food, and colonial produce, were quoted in 1873 and 1874. The tables published by M. Bodio, the statements of Mr. Giffen in the Commercial History of the "Statist" (1881), the quotations of the New York commercial papers and of the Hamburg lists, all point to the existence of this symptom in the economic situation. Laspevres has conclusively shown that at hardly any period had the prices of commodities attained such a high rate as during the year 1871. The decline was first apparent in Hamburg in 1872; in New York and London, owing to the enormous supply on hand, it was experienced in 1874 or 1875. This decline, though gradual at first, began rapidly to assume larger proportions, and continuing until the middle or end of 1879, points to the existence of a distinct commercial depression. Laspevres states, on the authority of Hamburg quotations, that the fall in prices of commodities in Germany from 1873 to 1877 had been greater than after an experience of forty years had been thought possible. As regards England the "Economist," in its annual review, gives a very interesting statement showing the prices of staple commodities in 1870, as compared with 1845-50, the years for which the index number of 100 may be taken. From this it appears that, taking twenty-two categories whose total index number is originally 2,200, the prices stood in 1870 at 2,689, and in 1873 had increased to 2,947, and declined in 1879 as low as 2.202; that is, had fallen to the prices of 1845-50. Mr. Giffen points out in an exhaustive review that, with but few exceptions, the English heavy goods in the period comprised between 1873-79 became from 26 to 66 per cent cheaper. In 1878 lower prices ruled than had ever been quoted in London since 1850. M. A. de Foville, in a series of comparative statements, gives some interesting details of trade values; from

these we gather that in 1877 the values of imports into France were 14.5 per cent, and of exports 27.1 per cent lower than in 1862. The same decline was experienced everywhere, and it was a period of such universal commercial depression that many industrial establishments had to forsake all branches of their t many important woollen firms in England and America failed, owing to the ruinous prices which prevailed. The decline in the prices of coal and iron caused a loss in these industries in Great Britain of from 60 to 70 per cent.

The enhancement of prices was first observable in the United States, and was noticeable in the case of pig iron, silk, and steel, at the end of 1878, and this upward tendency continued till the middle of 1879. For example, Pennsylvania pig iron rose in 1878 from 16.5 to 18.5 dollars, and in 1879 from 28 to 32.5; it continued to rise, until in 1880 it attained the average price of 38 dollars per ton, approximately the same rate as was quoted in 1873; in the same way the Glasgow warrants, which were quoted in 1879 at 40s. per ton, reached the high price of 73s. in the year 1880; and this favorable impulse was not wholly confined to England and America, but was visible throughout the commercial world. The twenty-two goods categories of the "Economist," which we mentioned above, ascended from the lowest index number in 1879; viz., 2,202, in one year, to 2,538, an increase of about 16 per cent. Heavy goods, such as wool, cotton, yarn, twist, and manufactures, experienced during the course of 1880 a still greater enhancement of prices. According to the published statistics also of Germany, the rise of wholesale prices in 1880, as compared with 1879, was of a more marked character than was apparent in the returns of the majority of the other European countries.

In connection with the variation in prices, we ought at the same time to study the influence they exercised over wages These constitute an important symptom as regards industrial condition, and are instrumental in determining the degree of the material prosperity of various classes in the community. The old axiom of political economists, that wages only followed slowly in the wake of prices, has of late years suffered

ports into France c cent lower than d everywhere, and ial depression that ake all branches of ms in England and cs which prevailed. a caused a loss in 0 to 70 per cent.

observable in the ase of pig iron, silk, ward tendency conmple, Pennsylvania dollars, and in 1879 il in 1880 it attained , approximately the same way the Glas-879 at 40s. per ton, year 1880; and this ned to England and e commercial world. " Economist," which lowest index num. 2,588, an increase of as wool, cotton, yarn, during the course of es. According to the the rise of wholesale vas of a more marked rns of the majority of

rices, we ought at the exercised over wages as regards industrial rmining the degree of cs in the community that wages only folof late years suffered very considerable modifications. The effect of the sinking of prices upon wages during the period of depression between 1874 and 1878 was clearly apparent, and the same marked influence exercised by the impulse given to commercial activity and the improvement of the industrial condition was particularly noticeable in the augmentation of wages dating from the year 1879. It would be impossible in this review to enter into minute details of the fluctuations during the various periods of depression and commercial activity; but to show how high wages had risen before the crisis of 1873, we may mention that a special brand of champagne was ordered for the Belgian mining districts, and thousands of bottles consumed. In England the wages of coal miners rose from 48. 9d. a day in 1871 to 7s. 3d. in 1873, and in Scotland to 8s. 6d.; whereas in October, 1878, these wages had been rcduced to 2s. 9d. a day, a decrease to nearly one third. Furnace mcn who were receiving in 1869 only 3s. 9d. a day, in 1872 were paid 7s. 6d., and in 1873 as much as 8s. 6d.; but in 1876 they had to be content with 4s. 6d., and in 1878 with only 2s. 9d. a day. Puddlers were in 1868 in the receipt of 88. per ton, in 1873 13s. 3d., in 1874 11s. 6d., and in 1878-79 between 7s. and 7s. 6d. During this latter period wages in the textile industries also suffered a very considerable diminution. For instance, in one single year (1877-78) the spinners and weavers of northeast Lancashire suffered a reduction in wages to the extent of 10 per cent, and those of Oldham 15 per cent. It has been stated in the "Times" that the actual difference of miners' wages between 1873 and 1878 amounted to as much as twenty-six millions sterling. The reduction of wages was not confined to England alone, but extended also to America. We find there that after a period of commercial prosperity and high wages, there ensued a time of such unparalleled depression (in 1876) in the mining districts of Pennsylvania that it had the most disastrous results, one being a series of sanguinary riots, which necessitated for a time the establishment of martial law. The statistics of England, America, Belgium, and Germany, clearly show the increase in wages from the commencement of 1880. Accord-

ing to the estimates of Mr. Fallows, it would appear that the Scotch miners in 1879 received on an average 6d, and in 1880 9d. a day, more than they earned in 1878. And as regards the cotton industries, we gather from Ellison's well-known reports that out of the total value of British production, in 1879 only forty-four millions sterling, while on the other hand in 1880 forty-six millions sterling were put by for wages and profit. From America we have abundant information respecting the increase of wages in agricultural, mining, and other industrial enterprises, and these clearly show the improvement which had already taken place in 1880 in the industrial condition. According to more recent statistics wages continued to increase during the years 1880–83, and again declined in 1884–85.

We will now turn to the subject of the rates of discount, as also affording an indication of the economic progress. During the period 1870-79 there were very many fluctuations in the rates of discount. The Bank of England, we find, previous to the commencement of the period on which we have made our calculations, only changed its rate two or three times, or at the most seven times yearly. In 1870 and 1871 it was altered ten times, in 1872 fourteen times, and in 1873 twentyfour times, - in this year the bank rate was raised thirteen The rate of discount stood during a period of fiftytimes. seven days at 6 per cent, during twenty-two days at 7 per cent, and during thirteen days at 8 and 9 per cent. The Bank of France in 1870 and 1874 changed its rate four times, and in the three years 1871, 1872, and 1873, the rates were established at 5 per cent for 735 days, 6 per cent during 349 days, and 7 per cent during twelve days. Similar fluctuations were also experienced in Germany. In 1874 the commercial depression commenced to be universally felt, and from then until the middle of 1878 there were a greater number of changes in the rate of interest. The Bank of England altered its rate five times during one year, the Bank of France once only, and the rate was everywhere so reduced that it averaged - taking the chief financial centres, London, Paris, Amsterdam, Berlin, Vienna, Frankfort, and Brussels - only

appear that the c 6d., and in 1880 And as regards son's well-known sh production, in ile on the other put by for wages unt information reural, mining, and arly show the imin 1880 in the inent statistics wages 880–83, and again

ates of discount, as c progress. During fluctuations in the l, we find, previous hich we have made o or three times, or 0 and 1871 it was and in 1873 twentywas raised thirteen g a period of fifty--two days at 7 per d 9 per cent. The its rate four times, 873, the rates were er cent during 349 Similar fluctuations 874 the commercial elt, and from then greater number of of England altered ank of France once duced that it averes, London, Paris, nd Brussels — only 4.01 per cent in 1875, 8.52 per cent in 1876, and 3.55 per cent in 1877. In making up this average, the higher rates which prevailed in Vienna, Frankfort, and Berlin (41 to 51 per cent) are taken into account, as well as the lower ones of London (2.47 per cent), Amsterdam (3 per cent), and Paris (2.81 per cent), although these last determine with greater accuracy the industrial position, as they experienced the first fall; for in 1876 the bank rate in London stood at 2 per cent for 255 days, in 1877 again for 170 days, and it was only towards the end of 1877 that there was a rise. In 1878 the Bank of England rate of discount was scarcely more than 31 and 41 per cent, but in the open markets short bills were discounted at 15 and 14 per cert. In Paris, the rate was at the most 14 and 1] per cent, and it stood at 2 per cent only once, in March, and from October to December at 21. The rates at Berlin, Amsterdam, and Brussels exhibited greater regularity in their fluctuations between 21, 31, and 41 per cent. The unproductiveness of floating capital, and the absence of speculative spirit, cannot be said to afford such unfailing symptoms of material prosperity as these fluctuations in the bank rates. To pursue our investigations still further, we find that during the latter part of 1878, and also in 1879, a greater oscillation was to be found than in 1880; again the increases in the rate were also more important in 1878 and 1879 than in 1880, and clearly indicated a stimulus which was wanting in 1880. The alterations in the Bank of England rate amounted in 1878 to 11, in 1879 to 6, and in 1880 to 2 only; but in 1880, taking six of the most important financial circles of Europe, these alterations only amounted to 17, of which, as we have already shown, 2 occurred in London, 3 in Paris, 5 in Berlin, 2 in Brussels, 3 in Amsterdam, and 2 in Vienna. These symptoms tend to show that the lowering of rates of discount is a distinct voucher for the excess of the supply of lending capital over the demand. Economists agree in regarding them as indications of the approach of a lasting period of cheap money.

As regards investments, these are mainly dependent upon favorable or unfavorable economic conditions, as during a

period of commercial prosperity there would naturally be a larger amount of available capital to invest than would be the case were depression prevailing. The amount of capital invested in the formation of new industrial establishments and various forms of investment would afford an insight into the condition of the industrial position. It appears from a statement in the "Moniteur des Intérêts Matériels," in an article devoted to the consideration of the subject of investments, that they averaged during the ten years ending 1879, 6,109 million marks, the amounts for the years 1871-73 being very considerably above the average, thus clearly indicating the existence of a period of excessive speculation. The following statement shows the amount invested each year, and the character of the investments: —

[Millions omitted.]

Ye	875	•	In State and City Loans,	In Credit Institutions.	In Railways and other In- dustrial Enter- prises.	Total.	Above or below the Decennial Averages.
1870			Marks.	Marks.	Marks,	Marke. 4560	- 1549
1871	•	•	9360	1200	2000	12560	+ 6451
	•	•	4880	1564	4166		I 4001
1872	٠	•				10110	
1878	٠	•	8470	1896	8856	8722	+2613
1874		•	1268	236	1864	8868	- 2741
1875			872	850	646	1368	- 4741
1876			2356	66	498	2920	- 3189
1877			4618	820	1384	6822	+ 218
1878			2896	126	622	8644	- 2465
879	•	•	4406	1902	1212	7520	+ 1411
1880			1747	1035	1644	4426	- 1683
1881			2895	1033	2315	5743	- 366
1882			1075	409	2256	8740	- 2369
1883			1253	374	1741	8368	- 2741
884			1446	318	2193	3957	- 2152
1885	•		1181	151	1832	2664	- 8445

In this comparison the proportion of investments in credit institutions, banks, railway and industrial enterprises, to public loans is of special significance, and we therefore present it by per centage in the following table: —

Id naturally be a than would be the ount of capital instablishments and an insight into the pears from a stateiels," in an article set of investments, ending 1879, 6,109 1871-78 being very arly indicating the ion. The following each year, and the

Total.	Above or below the Decennial Averages.
Marka. 4560 12560 10110 8722 8368 1368 2920 6822 8644 7520	$\begin{array}{r} -1649 \\ +6451 \\ +4001 \\ +2613 \\ -2741 \\ -4741 \\ -3189 \\ +213 \\ -2466 \\ +1411 \end{array}$
4428 5743 8740 3368 3957 2664	

vestments in credit enterprises, to public therefore present it

Years.	Public Loans.	Credit Institutions,	Railways, etc.	Years.	Public Loans.	Credit Institutions.	Railways, etc.
1871 1872 1873 1873 1875 1875 1876 1877 1878	Per cent 74.5 43.5 40.0 38.0 27.5 80.75 73.25 79.25	Per cent. 9·5 15·5 16·0 7·0 25·75 2·25 5·0 3·50	Per cent. 16:0 41:0 44:0 56:0 46:75 17:0 21:75 17:25	1879 - 1880 - 1881 - 1882 - 1883 - 1883 - 1884 - 1885 -	Per cent. 58.75 39.45 41.70 28.74 87.20 86.54 44.33	Per cent. 25:25 28:38 17:99 10:93 11:10 8:03 5:67	Per cent. 16:0 37:17 40:34 60:31 51:80 55:43 50:00

Here we perceive that in the early period of speculation private enterprises, and in the subsequent period of depression public loans received the larger proportion of investments. After the revival in 1879 the relation between these two classes of investments is once more reversed, especially for the year 1882; on the other hand, since that date there would appear again to be an increase of public loans.

In the invested capital for the same period of the several individual countries, peculiarities similar to those which characterize the preceding tables are likewise to be found. Of capital invested in the English market, the "Economist" gives the following statement : —

	Yes	LT8,		Nominal.	lual. Actual. Years.					Nominal.	Actual.		
				Million £.	Million £.						Million £.	Million £.	
870				92.25	80.00	1879					56.47	47.46	
872				151.55	118.10	1880					122.20	77.60	
873				154.70	101.15	1881					189.40	115.25	
74			•	114.15	110.55	1882					145 55	94.65	
75				62.65	60.85	1888					81.15	76-90	
376				43.20	42.85	1884					109.03	90.60	
377				51.20	38.60	1885					77.97	77.87	
578				59.20	50·40								

These figures may be taken as more strictly accurate than those affecting the total investments, as they relate only to a single stock market; they indicate, moreover, the increase of invested capital up to the year 1874, the decrease from this period till 1878, and the rapid recovery since 1879; like-

wise the character of the recent phase from 1881 to 1885. This statement is the more interesting, as we can estimate very nearly, by the proportion etween the nominal and effective capital, whether the instants were of a purely speculative or real character. ... France, capital invested during the first six months of 1879 amounted to only 350 million francs, as compared with 1,748 million francs in the corresponding period of 1880. For the whole year, ending 30th June, 1880, it amounted in round numbers to 4,000 million francs, and this is exclusive of the Belgian, Austrian, and Russian loans, which were not directly floated on the Parisian market. There were established in Paris, in the year 1881, 432 new companies, with 1,929 million frances of capital; in the year 1882, 328 companies, with 798 million francs; in the year 1883, 230 companies, with 251.5 million frances; and in the year 1884, only 143 companies, with 91.9 million francs. In Germany during the first half of 1879, capital to the extent of only 142 million marks was invested, against 659 million marks in the corresponding period of the ensuing year, of which twenty-five million marks only were in railways and other companies, and the remainder in foreign loans. In Austria it is estimated that the total amount of invested capital in 1880 was only 170 million florins, compared with 271 million florins in 1879; but great stress is here laid upon the fact that, after a lengthened period of inaction, in 1880 money was for the first time largely invested in railways and commercial enterprises, in preference to foreign loans, - the amount represented by the former being fifty-four million florins. Thus, as may be gathered from the preceding observations, statistics of invested capital afford an important symptom of greater or less commercial activity.

Again we can discover, by reference to financial journals, the fluctuations which have appeared in the dividends paid by railways and other commercial enterprises. The influence of good and bad years exercised over these dividends is clearly shown in the comparative statements which they have from time to time published. For example, the depreciation of foreign stocks on the London Exchange amounted in July,

om 1881 to 1885. s we can estimate ominal and effectof a purely specual invested during o only 350 million ancs in the correyear, ending 30th rs to 4,000 million cian, Austrian, and ted on the Parisian , in the year 1881, ancs of eapital; in illion francs; in the nillion francs; and with 91.9 million f of 1879, capital to as invested, against eriod of the ensuing only were in railways in foreign loans. In punt of invested capcompared with 271 s here laid upon the ction, in 1880 money ailways and commerloans, --- the amount our million florins. ceding observations, portant symptom of

o financial journals, the dividends paid rises. The influence e dividends is clearly tich they have from the depreciation of amounted in July, 1873, to 49.2 millions sterling; and in October, 1875, the loss was estimated by the Foreign Loan Committee of the Stock Exchange to amount to as much as 157.8 millions sterling. There was in addition the loss by the joint-stock banks, fourteen of which alone, in 1878, suffered, according to the "Economist," a diminution in the value of their stock of ten million pounds sterling. As regards the chief industrial establishments of England it is admitted that the depreciation in the shares of the cotton spinning and weaving industries of Oldham from January, 1877, to 1879, represented a total loss of £1,360,000. The foregoing figures, however, convey only an approximate idea of the general loss of capital in Great Britain and Ireland, the actual extent being statistically unascertainable. In 1880, on the other hand, a decided improvement took place in the United Kingdom, which, when compared with the period of depression of 1879, is all the more clearly marked.1

As Mr. Giffen points out in the Financial and Commercial History of 1880, published in the "Statist," the increase of selling value of the mass of sceurities in the United Kingdom would probably amount to not less than 600 millions sterling. In the United States the loss in railway shares, from 1873 to 1877, amounted to nearly one milliard of dollars, but the improvement which took place after September, 1879, to a great extent made up this loss, as in May, 1880, it was already reduced to 200 million dollars, and was soon afterwards almost entirely removed. A similar improvement in the value of securities was also to be found in the case of Austria. There it appeared that the value of the different description of securities, which amounted in 1873 (May) to 1,589 million florins fell to 755 in 1876; in 1877 it was only 879, and in 1878, 906 million florins; but a steady improvement then set in, until in 1880 the total increase in the value of all securities amounted approximately to 300 million forins. This favorable tendency continued in both countries, as in Great Britain, until the close of 1881, after which a general decline in securities took place until 1885.

¹ See "Statist," Dec. 11, 1880, for full details.

Statistics of bankruptcies and failures may likewise be taken as unfailing symptoms of the industrial position. But our information as regards this subject is by no means complete, owing to the scarcity of official data. The following table, which has been carefully compiled by R. Seyd, serves, however, to indicate the economic phases from 1870–1884 in the United Kingdom by the number of failures: —

Number.				. rs ,	Yes			Number.		 •		175,	Yes		
15,05							1878	8,151							1870
16,63	.						1879	8,164	.						1871
13,14							1880	8,112	.						1872
12,00							1881	9,064			÷				1878
11,019			÷			÷	1882	9,250							1874
10,59				÷			1883	9,194		÷					1875
14,39				•	÷	•	1884	10,848				÷		÷	1876
5,089			:				1885	11,022							1877

It is noteworthy that the extreme depression of the large industries in Great Britain was already relieved in 1878, whereas of the smaller trades not until 1879. As regards the United States the periods of commercial activity and of depression are clearly perceptible in the statistics of failures published by Messrs. Dun, Wiman, & Co. According to these returns, the smallest number of 'failures in the Union is to be found in the years 1869–1872; a depression begins in the latter half of 1873, which steadily increases until 1878; and the years 1879–1881 witness a genuine revival. The yearly average of the number of failures, and the amount of liability, in the different periods is as follows: —

Yearly Average.												Number of Failures.	Amount of Liabilities.			
1866-1872		•						•		•					2,889	\$83,000,00
1873-1878		•	•												7,886	200,000,00
1879-1884		•			•	•	•	•		•	•	•	•		7,311	124,000,00

¹ The years 1884 and 1885 cannot be compared with the preceding years, owing to the enactment, on 25th Aug., 1883, of a new and more stringent bankruptcy act.

may likewise be al position. But by no means com-.. The following y R. Seyd, serves, om 1870–1884 in ares : —

			Number.
		· · · · · · · · · · · · · · · · · · ·	15,059 16,637 13,147 12,005 11,019 10,599 14,394 5,089

ression of the large relieved in 1878, 79. As regards the tivity and of depresics of failures pub-According to these n the Union is to be ssion begins in the ses until 1878; and evival. The yearly amount of liability,

Number of Failures.	Amount of Liabilities.
2,889	\$83,000,000
7,886	200,000,00
7,311	124,000,000

with the preceding years, and more stringent bank-

In France the movement is not so strikingly accentuated, as that country was less affected by the crisis of 1873; yet the fuctuations were considerable. Thus in 1872 the number of declared bankrupts amounted to 5,306, and the extent of their failures was represented by a total of 215 million francs; in 1873, 5,508, liabilities 218 millions; in 1874, 5,596, liabilities 241 millions; in 1875, 5,361, liabilities 246 millions, and in 1876, 5,193, liabilities 298 millions. It was not until 1877 that any real improvement was visible; and in 1881, though there were 6,795 failures, the amount of liabilities was only 236 million francs. Finally, in Austria, according to the pub. lished returns, the number of insolvents in 1875 was 1,381; in 1876, 1,777; in 1877, 1,377; in 1878, 1,334; in 1879, 1,048; and in 1880 only 971 failures. The amount of debt in 1876 was established at nearly twenty-six million florins; in 1877 at thirteen millions, and in 1878 at about fourteen millions.

The intimate connection between the economic and social conditions demands no extended proof. The bonds of union between these two phases of life are so numerous that we proceed directly to a statistical presentation of a series of phenomena which we have termed *reflective* symptoms, inasmuch as they reveal the reactions of a greater or lesser degree of economic prosperity in a nation or period.

We here look first into the condition of the working classes, and we find that during the favorable period, 1870-73, complaints of want of employment were almost unknown, whereas the demand for labor, on the contrary, was great and wages were high; but in 1874 there came a change, the hours of labor were reduced, and workmen were discharged in great numbers. This was particularly exemplified in the years 1876-77, when the conditions of trade were most unfavorable, and it was especially noticeable in England and the majority of the continental countries. In America, moreover, in the beginning of 1877, it is estimated that the number of workmen totally unemployed amounted to half a million, and about an equal number worked only one or two days a week. At the end of 1877 the trades union committee gave the number of unemployed workmen as two millions. These com-

plaints began to cease about the middle of 1879, first in the United States and soon afterwards in England and Western Europe. From the data respecting the condition of labor in mining, textile, and other industries for 1880 it may be safely affirmed that the state of labor had then everywhere again materially improved. In the American Union, in particular, there was a great demand for laborers, which continued throughout the years 1881–83, and then again declined.

Strikes, likewise, afford a characteristic symptom of the etate of the labor market, not only by their numbers and duration, but also by the manner in which they terminate, whether in favor of the employers or the employed. On this general subject English, American, French, and Belgian statistics afree trading the information. As regards Great Britain, Mr. G. Fitting Elevan, in a very interesting report, has given a comparative statement, as follows, showing the number of strikes which took place in the years 1870-79: —

		Ye	ars.	ŝ			Number of Strikes.			Ye	ars.				Number of Strikes.
1870 1871 1872 1873 1873	•••••	•	•			•	80 98 343 365 286	1875 1876 1877 1878 1879	•••••	•	•	•	•	•	245 229 180 268 308

The greatest number of strikes during this period occurred in 1872-73, and happened at a time when industry was at its highest. There was then a very large demand for labor, and a great inflation in prices, and although men were getting good wages, yet they were not satisfied. Though the generality of them were earning more than they had ever earned before, they struck for a reduction of working hours. This was the reason for very many of the strikes which occurred at that time. The effort, on the other hand, of the masters to win back the extra hour they were obliged to concede in 1872-73, affords an explanation of the large number of strikes in 1879. In that year the greatest number of strikes occurred in the building trade (598), the metal trades (390), mining indus-

879, first in the ad and Western dition of labor 1880 it may be then everywhere Union, in pars, which contingain declined.

symptom of the ir numbers and they terminate, ployed. On this and Belgian stads Great Britain, report, has given ag the number of 9:—

			Number of Strikes.
•••••		••••••	245 229 180 268 308

is period occurred dustry was at its and for labor, and nen were getting hough the generhad ever earned hours. This was n occurred at that e masters to win acede in 1872-73, of strikes in 1879. s occurred in the b), mining industries (339), and textile industries (440), which establishes beyond a doubt their symptomatic connection with the economic situation. The improvement in the economic condition, and the extension of raw production, increased, beyond what could otherwise have been expected, the demands for higher wages, and the number of strikes in 1881-82. In America, as well as in England, the years in which the activity in commercial enterprises was greatest, were characterized by the largest number of strikes, - for example, 1871-72. During this period there was a cessation of work in the anthracite coal mines of Pennsylvania, by which 90,000 workmen were put on half time. Strikes in the coal regions continued, indeed, in the years 1874 and 1875; but the second period of their occurrence in remarkable numbers was not reached until 1876-77. This was a period of great distress, during which wages were reduced, and hands were discharged. There resulted in consequence one of the most unfortunate strikes that ever took place in America. It occurred in the State of Pennsylvania, and culminated in open revolt and bloodshed. Then followed the strike on the Baltimore and Ohio Railway, which was also of a very serious nature. From 1870 to 1880 the social tension was again relaxed; and with the revival in the years 1881 and 1882 the strikes also increased, especially among the laborers in the coal mines, iron works, and kindred industries of the Southeast. Both at this time and in 1883 the ends of the workmen were thereby attained. In 1884 and 1885, however, the strikes in America have been chiefly characterized by their futility. In France, Belgium, and Germany similar symptoms of the economic situation are not lacking, but they appear in a less marked degree. The recent phases of socialism and social-communism in those countries are an expression of the changing situation and a reflex of their economic condition. With the improvement of the latter the influence of socialistic leaders must diminish.

In connection with the subject of strikes and workmen's wages we must not omit to give a passing glance at the effect which the peculiar conditions of the labor market have upon immigration and emigration. In consequence of the increased

facilities for emigration this is a subject which has attained a vast importance, and may be classed as one of the relevant symptoms of the economic position. The great centre of attraction for those leaving the more densely populated of the European countries appears to be the United States. As we have already pointed out there have been very many changes in the conditions of commercial activity during the period under our consideration. The effect these changes have had upon immigration into the United States may first be seen in the speculative era from 1871 to 1873, when there was a very great influx of immigrants. Then in 1874-78 the powerful attractions which induced such vast numbers to migrate were wanting; consequently we find at that time a considerable decrease in these numbers. In 1879, with the return of prosperity, there again appeared an increase in immigration. This attained its maximum in 1881-82, after which occurred a decline, owing to the diminishing opportunities of labor and a more critical state of affairs in the New World. The official

Years E	ears Ending 80th June.				ne.		Number of Immigrants,	Years E	Number of Immigrants.						
	• • • •	•	•	• • • •	•	•	321,350 404,806 459,803 813,339 227,498 169,986 141,857 138,469	1878-79 1879-80 1880-81 1881-82 1882-83 1883-84 1884-85	•	•	•	•	•	•	177,826 457,257 609,431 788,992 603,322 518,592 395,346

In this stream of American immigration the largest number of persons is uniformly supplied by Germany, and next to it by Great Britain and Ireland. By reference also to the emigration returns of the other European countries we discover a uniformity of movement in corresponding years that can only be explained upon similar economic grounds. According to these statistics it can thus be affirmed in general of Europe, as has been demonstrated by Mr. Giffen for Great Britain in particular, that an increase of emigration

h has attained f the relevant at centre of atopulated of the States. As we many changes ring the period anges have had first be seen in here was a very 78 the powerful to migrate were a considerable e return of prosnigration. This hich occurred a es of labor and a rld. The official

june.	Number of Immigrants.
	177,826 457,257 669,431 788,992 603,322 518,592 395,346

the largest numrmany, and next eference also to an countries we responding years conomic grounds. affirmed in geny Mr. Giffen for be of emigration is to be regarded as characteristic of a period of economic prosperity, and the reverse as indicative of a period of economic depression.

Another and very interesting symptom of the conditions of material prosperity lies in the movement (Bewegung) of the population. The variations in the number of births, deaths, and marriages afford clear indications of the favorable or unfavorable conditions of the years in which they occur. Marriages especially would appear to be a most important element in determining the economic condition in different years. It will readily be conceded that an increase or decrease in the number of these point conclusively to the existence of material ease or the reverse. In dealing with this subject for the assigned period we find that the years 1870-73 were characterized by a very marked increase in the number of marriages, thereby indicating the existence of favorable conditions and confidence in a time of increased prosperity. This increase was particularly noticeable in Great Britain, Germany, France, Belgium, Austro-Hungary, and Holland. With the unfavorable reaction of 1873 and 1874, on the other hand, the number of marriages in all these countries began to decrease. In Italy, Switzerland, Norway, and Denmark, the economic reaction was likewise similarly manifested; but corresponding to a later maximum in the frequency of marriages, the decrease occurred not until 1877-78. At the close of 1879 increasing confidence was here and there again slightly perceptible in the number of marriages. In their greater frequency, however, during the years 1880 and 1881, in England, France, Austria, and Italy, we discover decided and powerful symptoms of the improved economic and social conditions. In the United States, where as a whole this relation ought to be most apparent, it is only to be proven statistically in particular States; but this detached evidence from Massachusetts, Connecticut, and Rhode Island, shows the most striking effects of the changing prosperity of the last twelve years upon the frequency of marriages. The favorable and unfavorable conditions of life are not so strikingly manifested in the "movement" of population as regards births and deaths as in

the case of marriages. In the births, however, a considerable diminution is to be found, beginning with the year 1877 or 1878 and continuing until the year 1881 or 1882. In the majority of European countries the death rate was likewise highest in those years in which the birth rate was lowest. The years of depression thus appear not to have seriously affected at the time the entire growth of the population, but the after effects were undoubtedly felt in 1879-80. The crisis of 1873, however, had a direct and unmistakable influence on the number of suicides. M. Jochnick states that in twenty-two European countries the number of suicides increased from 99 in every million of inhabitants during the quinquennial period 1871-75 to 119 per million in the period 1876-80. M.A. von Oettingen, taking another group of twenty European countries. gives also the following statement of the increase of suicides in successive quinquennial periods between 1870 and 1878 :--

Years.											Number of Sulcides,	Proportion per Million Ininabitants			
1870-1874														20,306	80
1871-1875													.	20,208	80 80 85
1872-1876				•									.	21,638	85
1873-1877													.	23,654	92
1874-1878													.	24,910	97

The fact, however, must not be overlooked that statistics relating to suicides must necessarily be incomplete, as on this subject it is almost impossible to obtain reliable data, owing to omissions. Statistics of mendicity and crime likewise afford abundant proof that good and bad times make their influence felt in a very perceptible manner in the domain of social life. They are consequently an additional and corroborative symptom of economic progress or retrogression.

It is, then, by all the symptoms which we have enumerated that we have endeavored to estimate the world's prosperity; and these have unquestionably proved that in the period from 1870 to 1885 economic conditions have been exposed to greater and more varying fortunes than they had ever before

considerable year 1877 or 1882. In the was likewise e was lowest. nave seriously opulation, but 30. The crisis o influence on t in twenty-two reased from 99 quennial period 80. M. A. von pean countries, ase of suicides '0 and 1878 : --

of icides.	Proportion per Million Inhabitants.
0,306	80
0,208	80
1,638	85
3,654	92
4,910	97

hat statistics reblete, as on this e data, owing to likewise afford e their influence in of social life. roborative symp-

ave enumerated ld's prosperity; the period from cen exposed to had ever before experienced. At the commencement of the period there were unmistakable signs of an increase in wealth almost without parallel in commercial annals; afterwards for a number of years there were apparent a sensible decline in wealth and an enormous reduction of profit; and again, dating from the middle of 1879, there were signs of renewed commercial activity, a fresh impetus was given to trade, investments were found for capital hitherto unemployed, workmen were in greater demand, wages were good, a vory marked improvement was to be seen not only in the European but also on the American exchanges, and in fact there was a general revival in all branches of trade and industry. This revival continued until the close of 1882 or the middle of 1883, after which economic symptoms again indicated a period of depression for 1884 and 1885. The recent years of economic advance must be a convincing proof to those pessimists who took such a desponding view of the situation, that their fears as to the ultimate improvement in material prosperity were altogether groundless. Who is there who still believes in the hypothesis that the depression of 1874-78 marked the termination of commercial and industrial prosperity? Who now believes that the crisis of 1873 marked a new era, and that the highest point which improvements in trade and industry could reach had been attained? Who in like manner will now share the pessimist view of the present depression that in the future a very great decrease of prosperity is to be looked for before the increase is to be expected ? Past experience must give ground for confidence in a new revival in the economic life of the present, and in a still greater increase of prosperity for the future. Who can predict what wonderful inventions may yet be in store for us, - what improvements electricity, for instance, may effect in the future? Who can gainsay the improvements which are continually being brought to bear upon machinery? In looking at the wonderful strides with which cultivation and improvement have been advancing, who can fail to be impressed with a sense of their vastness and of their very great importance? All these point to the inauguration of a new and even brighter era in econ-

omic life. And although we are of the opinion that the characteristics of the ensuing economic period may differ materially from those which marked the preceding or \sim wet after a patient study of the facts in connection with present situation, we can by no means look forward to a period of continued depression. While it may readily be concluded from the symptoms of the existing depression that the next revival is not to be expected with great precipitancy, yet the more slowly and more gradually the disturbed equilibrium between production and consumption, between prices and wages, and between interest upon capital and profits of investments is adjusted, so much the greater is the guarantee for the permanent consolidation of economic life.

ppinion that the od may differ maing or vet after with present o a period of cone concluded from t the next revival acy, yet the more nilibrium between and wages, and of investments is the for the perma-

APPENDICES.

I.

LEADING SECTIONS FROM THE ENGLISH NAVIGA-TION ACTS.

ACT OF 1660, 12 CAR. II., C. 18.

An Act for the Encouraging and Increasing of Shipping and Navigation.

For the Increase of Shipping and Encouragement of the Navigation of this Nation, wherein, under the good Providence and Protection of God, the Wealth, Safety, and Strength of this Kingdom is so much concerned; (2) Be it enacted by the King's most Excellent Majesty, and by the Lords and Commons in this present Parliament assembled, and by the Authority thereof, That from and after the first day of December, one thousand six hundred and sixty, and from thenceforward, no Goods or Commodities whatsoever shall be imported into or exported out of any Lands, Islands, Plantations, or Territories to his Majesty belonging or in his Possession, or which may hereafter belong unto or be in the Possession of his Majesty, his Heirs and Successors, in Asia, Africa, or America, in any other Ship or Ships, Vessel or Vessels whatsoever, but in such Ships or Vessels as do truly and without Fraud belong only to the People of England or Ireland, Dominion of Wales, or Town of Berwick upon Tweed, or are of the Built of and belonging to any the said Lands, Islands, Plantations, or Territories as the Proprietors and right Owners thereof, and whereof the Master and three-fourths of the Mariners at least are English; . . .

III. And it is further enacted by the Authority aforesaid, That no Goods or Commodities whatsoever, of the Growth, Pro-

duction or Manufacture of Africa, Asia, or America, or of any Part thereof, or which are described or laid down in the usual Maps or Cards of those Places, be imported into England, Ireland, or Wales, Islands of Guernsey and Jersey, or Town of Berwick upon Tweed, in other Ship or Ships, Vessel or Vessels whatsoever, but in such as do truly and without Frand belong only to the People of England or Ireland, Dominion of Wales, or Town of Berwick upon Tweed, or of the Lands, Islands, Plantations, or Territories in Asia, Africa, or America, to his Majesty belonging, as the Proprietors and right Owners thereof, and whereof the Master, and three-fourths at least of the Mariners are English ; . . .

IV. And it is further enacted by the Authority aforesaid, That no Goods or Commodities that are of Foreign Growth, Production, or Manufacture, and which are to be brought into *England*, *Ireland*, *Wales*, the Islands of *Guernscy* and *Jersey*, or Town of *Berwick* upon *Tweed*, in *English*-built Shipping, or other Shipping belonging to some of the aforesaid Places, and navigated by *English* Mariners, as aforesaid, shall be shipped or brought from any other Place or Places, Country or Countries, but only from those of the said Growth, Production, or Manufacture, or from those Ports where the said Goods and Commodities can only, or are, or usually have been, first shipped for Transportation, and from none other Place or Countries; . . .

VIII. And it is further enacted by the Authority aforesaid, That no Goods or Commodities of the Growth, Production, or Manufacture of Muscovy, or of any the Countries, Dominions, or Territories to the Great Duke or Emperor of Muscovy or Russia belonging; as also that no Sort of Masts, Timber, or Boards, no foreign Salt, Pitch, Tar, Rosin, Hemp or Flax, Raisins, Figs, Prunes, Olive-Oils, no Sorts of Corn or Grain, Pot-Ashes, Wines, Vinegar, or Spirits called Aqua-Vitae, or Brandy-Wine, shall from and after the first day of April, which shall be in the Year of our Lord one thousand six hundred sixty-one, be imported into England, Ireland, Wales, or Town of Berwick upon Tweed, in any Ship or Ships, Vessel or Vessels whatsoever, but in such as do truly and without fraud belong to the People thereof, or some of them, as the true Owners and Proprietors thereof, and whereof the Master and three-fourths of the Mariners at least are English: And that no Currans nor Commodities of the Growth, Production, or Manufacture of any the Countries, Islands, Dominions, or Territories to the Ottoman or Turkish Empire belonging, shall from

APPENDIX I.

rica, or of any n in the usual agland, Ireland, own of Berwick seels whatsoever, ong only to the des, or Town of Plantations, or ajesty belonging, whereof the Mas-

English ; . . . cy aforesaid, That owth, Production, England, Ireland, Town of Berwick Shipping belongt by English Mariom any other Place a those of the said those Ports where are, or usually have a none other Place

uthority aforesaid, th, Production, or ries, Dominions, or Muscovy or Russia aber, or Boards, no ax, Raisins, Figs, Pot-Ashes, Wines, randy-Wine, shall 1 be in the Year of , be imported into ipon Tweed, in any but in such as do thereof, or some of of, and whereof the least are English: rowth, Production, Dominions, or Teronging, shall from and after the first day of *September*, which shall be in the year of our Lord one thousand six hundred sixty-one, be imported into any the afore-mentioned places in any Ship or Vessel, but which is of *English* built, and navigated, as aforesaid, and in no other, except only such foreign Ships and Vessels as are of the Built of that Country or Place of which the said Goods are the Growth, Production, or Manufacture respectively, or of such Port where the said Goods can only be, or most usually are, first shipped for Transportation, and whereof the Master and three-fourths of the Mariners at least are of the said Country or Place; . . .

XVIII. And it is further enacted by the Authority aforesaid, That from and after the first Day of *April*, which shall be in the Year of our Lord one thousand six hundred sixty-one, no Sugars, Tobacco, Cotton-Wool, Indigoes, Ginger, Fustick, or other dying Wood, of the Growth, Production, or Manufacture of any *English* Plantations in *America*, *Asia*, or *Africa*, shall be shipped, carried, conveyed, or transported from any of the said *English* Plantations to any Land, Island, Territory, Dominion, Port or Place whatsoever, other than to such other *English* Plantations as do belong to his Majesty, his Heirs and Successors, or to the kingdom of *England* or *Ireland*, or Principality of *Wales*, or Town of *Berwick* upon *Tweed*, there to be laid on shore; . . .

ACT OF 1662, 14 CAR. II., C. 11.

XXIII. And whereas some Doubts and Disputes have arisen concerning the said late Act, For increasing and encouraging of Shipping and Navigation, about some of the Goods therein prohibited to be brought from Holland and the Parts and Ports thereabouts; (2) Be it enacted and declared, that no Sort of Wines, (other than Rhenish) no Sort of Spicery, Grocery, Tobaceo, Pot-Ashes, Pitch, Tar, Salt, Rozin, Deal-Boards, Fir, Timber, or Olive-Oil, shall be imported into England, Wales, or Berwick, from the Netherlands or Germany, upon any Pretence whatsoever, in any Sort of Ships or Vessels whatsoever; . . .

Аст оf 1663, 15 CAR. II., с. 7.

V. And in regard his Majesty's Plantations beyond the Seas are inhabited and peopled by his subjects of this his Kingdom of *England*, for the maintaining a greater Correspondence and Kindness between them, and keeping them in a further Dependance

33

upon it, and rendring them yet more beneficial and advantageous unto it in the further Imployment and Increase of *English* Shipping and Seamen, Vent of *English* Woollen and other Manufactures and Commodities, rendring the Navigation to and from the same more safe and cheap, and making this Kingdom a Staple, not only of the Commodities of those plantations, but also of the Commodities of other Countries and Places for the Supplying of them; and it being the Usage of other Nations to keep their Plantations Trade to themselves:

VI. Be it enacted, and it is hereby enacted, That from and after the five and twentieth day of March, one thousand six hundred sixty-four, no Commodity of the Growth, Production, or Manufacture of Europe, shall be imported into any Land, Island, Plantation, Colony, Territory, or Place to his Majesty belonging, or which shall hereafter belong unto or be in the Possession of his Majesty, his Heirs and Successors, in Asia, Africa, or America. (Tangier only excepted) but what shall be bona-fide, and without Fraud, laden and shipped in England, Wales, or the Town of Berwick upon Tweed, and in English built Shipping, or which were bona-fide bought before the first day of October one thousand six hundred sixty and two, and had such Certificate thereof as is directed in one Act passed the last Sessions of this Present Parliament, intituled, An Act for preventing Frauds, and Regulating Abuses in his Majesty's Customs; and whereof the Master and three Fourths of the Mariners at least are English, and which shall be carried directly thence to the said Lands, Islands, Plantations, Colonies, Territories, or Places, and from no other Place or Places whatsoever; any Law, Statute, or Usage to the contrary notwithstanding; . . .

See English Statutes at Large.

APPENDIX II.

and advantageous of English Shipd other Manufacn to and from the gdom a Staple, not , but also of the the Supplying of to keep their Plan-

ed, That from and thousand six hunroduction, or Manany Land, Island, Majesty beinging, he Possession of his Africa, or America, na-fide, and without or the Tewn of Berping, or which were ber one thousand six cate thereof as is dithis Present Parliauds, and Regulating eof the Master and lish, and which shall Islands, Plantations, no other Place or sage to the contrary

II.

IMPORTANT SECTIONS OF AMERICAN NAVIGATION ACTS.

ACT OF JULY 20, 1789.

CHAP. III.— An Act imposing Duties on Tonnage.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the following duties shall be, and are imposed on all ships or vessels entered in the United States, that is to say:

On all ships or vessels built within the said States, and belonging wholly to a citizen or citizens thereof, or not built within the said States, but on the twenty-ninth day of May, one thousand seven hundred and eighty-nine, belonging, and during the time such vessel or vessels shall continue to belong wholly to a citizen or citizens thereof, at the rate of six cents per ton. On all ships or vessels hereafter built in the United States, belonging wholly, or in part, to subjects of foreign powers, at the rate of thirty cents per ton. On all other ships or vessels, at the rate of fifty cents per ton.

SEC. 3. And be it further enacted, That every ship or vessel employed in the transportation of any of the produce or manufactures of the United States, coastwise within the said States, except such ship or vessel be built within the said States, and belong to a citizen or citizens thereof, shall, on each entry, pay fifty cents per ton.

1 U. S. Statutes at Large, 27.

ACT OF DEC. 31, 1792.

CHAP. I. An Act concerning the Registering and Recording of Ships or Vessels.

SECTION 1. Be it enacted, . . . That ships or vessels which shall have been registered by virtue of the act, intituled "An act for registering and clearing vessels, regulating the coasting trade and for other purposes," and those which after the last day of March next, shall be registered, pursuant to this act, and no other (except such

as shall be duly qualified, according to law, for carrying on the coasting trade and fisheries, or one of them) shall be denominated and deemed ships or vessels of the United States, entitled to the benefits and privileges appertaining to such ships or vessels: P_{PO} -vided, That they shall not continue to enjoy the same, longer than they shall continue to be wholly owned, and to be commanded by a citizen or citizens of said states.

SEC. 2. And be it further enacted, That ships or vessels built within the United States, whether before or after, the fourth of July, one thousand seven hundred and seventy six, and belonging wholly to a citizen or citizens thereof, or not built within the said states, but on the sixteenth day of May, in the year one thousand seven hundred and eighty nine, belonging and thenceforth continuing to belong to a citizen or citizens thereof, and ships or vessels which may hereafter be captured in war, by such citizen or eitizens, and lawfully condemned as prize, or which have been or may be adjudged to be forfeited for a breach of the laws of the United States, being wholly owned by a citizen or citizens thereof, and no other, may be registered as hereinafter directed: Provided, That no such ship or vessel shall be entitled to be so registered, or if registered, to the benefits thereof, if owned in whole, or in part, by any citizen of the United States, who usually resides in a foreign country, during the continuance of such residence, unless such citizen be in the capacity of a consul of the United States, or an agent for, and a partner in, some house or trade or co-partnership, consisting of citizens of the said states actually carrying on trade within the said states.

1 Statutes at Large, 287.

ACT OF MARCH 1, 1817.

CHAP. XXXI. — An Act concerning the navigation of the United States.

Be it enacted, . . . That after the thirtieth day of September next no goods, wares, or merchandise, shall be imported into the United States from any foreign port or place, except in vessels of the United States, or in such foreign vessels as truly and wholly belong to the citizens or subjects of that country of which the goods are the growth, production, or manufacture; or from which such goods, wares, or merchandise, can only be, or most usually are first shipped for transportation: *Provided*, nevertheless, That this regulation shall not extend to the vessels of any foreign nation

or carrying on the all be denominated ates, entitled to the ps or vessels: *Pro*e same, longer than be commanded by a

ips or vessels built after, the fourth of six, and belonging ouilt within the said e year one thousand thenceforth continuand ships or vessels h citizen or citizens, have been or may be laws of the United izens thereof, and no eted: Provided, That oe so registered, or if in whole, or in part, ually resides in a foruch residence, unless the United States, or or trade or co-partners actually carrying on

igation of the United

day of September next ported into the United ept in vessels of the truly and wholly bery of which the goods or from which such or most usually are, nevertheless, That this of any foreign nation which has not adopted, and which shall not adopt, a similar regulation.

SEC. 4. And be it further enacted, That no goods, wares, or merchandise, shall be imported, under penalty of forfeiture thereof, from one port of the United States to another port of the United States, in a vessel belonging wholly or in part to a subject of any foreign power; but this clause shall not be construed to prohibit the sailing of any foreign vessel from one to another port of the United States, provided no goods, wares, or merchandise, other than those imported in such vessel from some foreign port, and which shall not have been unladen, shall be carried from one port or place to another in the United States.

3 Statutes at Large, 351.

ACT OF MAY 24, 1828.

CHAP. CXI. — An Act in addition to an act, entitled, "An act concerning discriminating duties of tonnage and impost."

Be it enacted, . . . That, upon satisfactory evidence being given to the President of the United States by the government of any foreign nation that no discriminating duties of tonnage or impost are imposed or levied in the ports of the said nation upon vessels wholly belonging to citizens of the United States, or upon the produce, manufactures, or merchandise imported in the same from the United States, or from any foreign country, the President is hereby authorized to issue his proclamation, declaring that the foreign discriminating duties of tonnage and impost within the United States are and shall be suspended and discontinued, so far as respects the vessels of the said foreign nation, and the produce, manufactures, or merchandise imported into the United States in the same from the said foreign nation, or from any other foreign country: the said suspension to take effect from the time of such notification being given to the President of the United States, and to continue so long as the reciprocal exemption of vessels belonging to citizens of the United States, and their cargoes, as aforesaid, shall be continued and no longer.

4 Statutes at Large, 308.

ACT OF FEB. 10, 1866.

CHAP. VIII. - An Act to regulate the Registering of Vessels.

Be it enacted, . . . That no ship or vessel, which has been recorded or registered as an American vessel, pursuant to law, and

which shall have been licensed or otherwise authorized to sail under a foreign flag, and to have the protection of any foreign government during the existence of the rebellion, shall be deemed or registered as an American vessel, or shall have the rights and privileges of American vessels, except under the provisions of an act of Congress authorizing such registry.

14 Statutes at Large, 3.

ACT OF JUNE 26, 1884.

CHAP. CXXI. — An Act to remove certain burdens on the American merchant marine and encourage the American foreign carrying trade.

SEC. 14. [Be it further enacted,] That in lieu of the tax on tonnage of thirty cents per ton per annum heretofore imposed by law, a duty of three cents per ton, not to exceed in the aggregate fifteen cents per ton in any one year, is hereby imposed at each entry on all vessels which shall be entered in any port of the United States from any foreign port or place in North America, Central America, the West India Islands, the Bahama Islands, the Bermuda Islands, or the Sandwich Islands or Newfoundland; and a duty of six cents per ton, not to exceed thirty cents per ton per annum, is hereby imposed at each entry upon all vessels which shall be entered in the United States from any other foreign ports:

SEC. 17. When a vessel is built in the United States for foreign account, wholly or partly of foreign materials on which import duties have been paid, there shall be allowed on such vessel, when exported, a drawback equal in amount to the duty paid on such materials, to be ascertained under such regulations as may be prescribed by the Secretary of the Treasury. Ten per centum of the amount of such drawback shall, however, be retained for the use of the United States by the collector paying the same.

23 Statutes at Large, 57.

Аст оf MARCH 3, 1891.

CHAP. DXIX. — An Act to provide for ocean mail service between the United States and foreign ports, and to promote commerce.

Be it enacted, . . . That the Postmaster-General is hereby author ized and empowered to enter into contracts for a term not less than five nor more than ten years in duration, with American citizens, for carrying of mails on American steamships, between ports of the

APPENDIX II.

United States and such ports in foreign countries, the Dominion of Canada excepted, as in his judgment will best subserve and promote the postal and commercial interests of the United States, the mail service on such lines to be equitably distributed among the Atlantic, Mexican, Gulf, and Pacific ports. . .

SEC. 3. That the vessels employed in the mail service under the provisions of this act shall be American built steamships, owned and officered by American citizens, in conformity with the existing laws. . . . They shall be divided into four classes. The first class shall be iron or steel screw steamships, capable of maintaining a speed of twenty knots an hour at sea in ordinary weather, and of a gross registered tonnage of not less than eight thousand tons. No vessel except of said first class shall be accepted for said mail service under the provisions of this act between the United States and Great Britain. The second class shall be iron or steel steamships, capable of maintaining a speed of sixteen knots an hour at sea in ordinary weather, and of a gross registered tonnage of not less than five thousand tons. The third class shall be iron or steel steamships, capable of maintaining a speed of fourteen knots an hour at sea in ordinary weather, and of a gross registered tonnage of not less than two thousand five hundred tons. The fourth class shall be iron or steel or wooden steamships, capable of maintaining a speed of twelve knots an hour at sea in ordinary weather, and of a gross registered tonnage of not less than fifteen hundred tons.

SEC. 4. That all steamships of the first, second, and third classes employed as above and hereafter built shall be constructed with particular reference to prompt and economical conversion into auxiliary naval cruisers, and according to plans and specifications to be agreed upon by and between the owners and the Secretary of the Navy, and they shall be of sufficient strength and stability to carry and sustain the working and operation of at least four effective rifled cannon of a caliber of not less than six inches, and shall be of the highest rating known to maritime commerce. . .

SEC. 5. That the rate of compensation to be paid for such ocean mail service of the said first-class ships shall not exceed the sum of four dollars a mile, and for the second-class ships two dollars a mile, by the shortest practicable route, for each outward voyage; for the third-class ships shall not exceed one dollar a mile, and for the fourth-class ships two-thirds of one dollar a mile for the actual number of miles required by the Post Office Department to be travelled on each outward bound voyage: ...

26 Statutes at Large, 830.

ized to sail under foreign governall be deemed or e rights and privpyisions of an act

is on the American ican foreign carry-

t of the tax on tone imposed by law, a e aggregate fifteen ed at each entry on the United States a, Central America, ne Bermuda Islands, I a duty of six cents er annum, is hereby shall be entered in

ed States for foreign ls on which import on such vessel, when e duty paid on such tions as may be pren per centum of the etained for the use of same.

mail service between promote commerce.

eral is hereby author a term not less than h American citizens, , between ports of the

III.

THE AMERICAN CIVIL WAR.

COST OF THE WAR.

FROM REPORT OF SPECIAL COMMISSIONER OF THE REVENUE (DAVID A. WELLS) 1869, PP. iv-vii.

IT would seem desirable at this point, now that all feeling in regard to the subject from its bearing on political questions has apparently passed away, to place upon record the exact cost of the war, as nearly as the same can be determined. With this object attention is asked to the following exhibit: ----

> The amount of outstanding national indebtedness March 7, 1861, was \$76,455,299.28.

> During the four years of war which terminated in April, 1865 (April 1, 1861, to April 1, 1865), the actual receipts of the treasury, were as follows: ---

From internal revenue		•	\$314,337,317 01
From customs			280,861,618 45
From lands		•	1,812,083 80
From direct tax			4,668,259 31
From miscellaneous sou	rce	s	74,120,413 37

Total receipts

The receipts of revenue from April 1, 1865, to June 30, 1869, inclusive, during which period the larger portion of the expenditures

\$675,799,691 94

has been directly in consequence of the war, were as follows: -From internal revenue . . \$967,207,221 41 From austoma 700 001 975 07

	-		
From miscellaneous source	s	194,949,122 13	
From direct tax	•	9,017,217 30	
From lands	•	7,402,188 28	
From customs	•	129,991,010 81	

APPENDIX III.

The amount of outstanding indebtedness, less cash and sinking fund in treasury, June 30, 1869, was \$2,489,002,480.58.

Deducting from this the amount of outstanding indebtedness at the outbreak of the war (\$76,455,299.28), we have, as the sum borrowed for war purposes and not repaid out of the receipts above indicated \$2,412,547,181 30

Making the total expenditure (loans and receipts) in eight and a quarter years of war and its effects . . . Deducting the amount which, but for the

war, might be taken as the average expenditure of the government during this period, say \$100,000,000 per annum . .

which sum represents the cost of the war to the United States government down to June 30, 1869.

To this sum should be added the value of the pensions now paid by the government on account of the war, if the same were capitalized. This at eight years' purchase of the present annual payment, would amount to about *two hundred millions*.

But this aggregate, however large, must still further be increased by other items if we would reach the true cost of the war to us as a people, the above representing only the expenditures of the national government.

These additional charges are substantially as follows: ----

Increase of State debts, mainly on war account	\$123,000,000 00
County, city, and town indebtedness in-	
creased on account of the war (estimated)	200,000,000 00
Expenditures of States, counties, cities, and towns, on account of the war, not rep-	
resented by funded debt (estimated)	600,000,000 00
Estimated loss to the loyal States from the diversion and suspension of industry, and the reduction of the American marine	
and carrying trade	1,200,000,000 00
Estimated direct expenditures and loss of property by the Confederate States by	
reason of the war	2,700,000,000 00

\$1,908,567,625 09

REVENUE (DAVID

all feeling in recal questions has exact cost of the With this object

\$675,799,691 94

521

\$4,996,914,498 33

825,000,000 00

These estimates, which are believed to be moderate and reasonable, show an aggregate destruction of wealth, or diversion of industry, which would have produced wealth in the United States since 1861 approximating *nine thousand millions* of dollars—a sum nominally in excess of the entire increase of wealth, as returned by the census for the whole country from 1850 to 1860.

This, then, was the cost of the destruction of slavery; the cost of compromise; the cost of the unfaithfulness of those who founded this nation to the idea by which the nation lives. What does it measure? It is substantially a thousand millions a year for nine years; or at the wages of five hundred dollars a year, the labor of two millions of men exerted continuously during the whole of that period. It is three times as much as the slave property of the country was ever worth. It is a sum which at interest would yield to the end of time twice as much as the annual slave product of the South in its best estate.

"The places of those who sleep in their graves have been filled by new laborers; the incubus of slavery, which was slowly but surely making the fertile South a desert scorched as by a consuming fire, has been removed; thousands of miles of new railroads; inventions never before excelled in their labor-saving character; millions of acres of the richest lands opened to settlement, now render labor easy and product large." Without faltering and without tampering with the public faith, it is now the duty of this people to undertake the far easier task of payment for the service already rendered. If we hesitate or falter, dishonor, second only to that which tolerated slavery, will overwhelm the land, and the idea of a free people governing themselves will become a scorn and a by-word among nations.

PAYMENT OF THE WAR DEBT.

FROM REPORT OF THE SECRETARY OF THE TREASURY (HUGH MC-Culloch) 1884, pp. xxvii-xxix.

It is in the highest degree gratifying to the Secretary to notice the great reduction of the public debt since it reached its highest point in August, 1865, and its continued reduction since his last report, in 1868. The following table exhibits the reduction both of principal and interest: —

APPENDIX III.

On August 31, 1865, the indebtedness of the United States, not including bonds issued to the Pacific Railroad Companies, was as follows:---

Debt bearing coin interest	\$1,108,310,191 80
Debt bearing currency interest	1,273,220,103 16
Matured debt not presented for payment .	1,503,020 09
Debt bearing no interest	461,616,311 51
Total debt	\$2,844,649,626 56
Cash in the treasury	88,218,055 13
Amount of debt less cash in the treasury	\$2,756,431,571 43

The annual interest charge was \$150,977,697.87, and the average rate paid was 6 $r_{0.5}^{3}$ per cent.

On Nov. 1, 1868, the indebtedness of the United States, not including bonds issued to the Pacific Railroad companies was as follows: ---

Debt bearing coin interest		\$2,107,577,950 00
Debt bearing currency interest	•	72,325,000 00
Matured debt not presented for payment	t.	9,753,723 64
Debt bearing no interest	• •	409,151,898 42
Total debt	•	\$2,598,808,572 06
Cash in the treasury		

Amount of debt less cash in the treasury \$2,484,935,552 82

The annual charge was \$126,408,343, and the average rate paid was 5 $\frac{1}{10}$ per cent.

On Nov. 1, 1884, the public debt was as follows: ----

Debt bearing interest	. \$1,206,475,600 00
Debt on which interest has ceased sin	ice
maturity	. 12,547,485 26
Debt bearing no interest	. 623,468,436 36
Total debt	. \$1,842,491,521 62
Cash in the treasury	

Amount of debt less cash in the treasury \$1,408,482,948 69

erate and reasondiversion of inne United States ns of dollars — a of wealth, as re-1850 to 1860.

slavery; the cost ss of those who tion lives. What d millions a year dollars a year, the nously during the a sthe slave propn which at interest as the annual slave

is have been filled ch was slowly but ed as by a consums of new railroads; or-saving character; to settlement, now faltering and withw the duty of this nent for the service shonor, second only n the land, and the become a scorn and

EBT.

EASURY (HUGH MC.

Secretary to notice reached its highest action since his last the reduction both

The annual interest charge is now (1884) \$47,323,831.50, and the average rate paid $3_{100}^{0.9}$ per cent.

Reduction of debt in sixteen years .	•	\$1,076,452,604 13
Reduction of annual interest charge	•	79,084,511 50
Reduction of debt in nineteen years .		1,847,948,622 74
Reduction of annual interest charge	•	103,653,866 37

In the management of its debt the United States has been an example to the world. Nothing has so much surprised European statesmen as the fact that immediately after the termination of one of the most expensive and, in some respects, exhaustive wars that have ever been carried on, the United States should have commenced the payment of its debt and continued its reduction through all reverses until nearly one half of it has been paid; that reduction in the rate of interest has kept pace with the reduction of the principal; that within a period of nineteen years the debt, which it was feared would be a heavy and never ending burden upon the people, has been so managed as to be no longer burdensome. It is true that all this has been effected by heavy taxes, but it is also true that these taxes have neither checked enterprise nor retarded growth.

3,831.50, and

452,604 13 084,511 50 948,622 74 653,866 87

es has been an rised European nination of one stive wars that ould have comduction through id; that reduceduction of the the debt, which burden upon the densome. It is es, but it is also rise nor retarded

IV.

THE GROWTH OF CANADA, 1867-1890.1

FROM JOHNSON'S GRAPHIC STATISTICS OF CANADA.

2,719,4695	1.973.987	1,456,795	968,104	134,285	201.220	Production of coal in Doutinion ² [Net tons of 2,000 pounds]
	16,944.421	14,053,013		· · · · · ·	· · · · · ·	
18,446,100	14,084,712	13.577,845	9,527,155	11,415,870	12,982,825	•
14.004	10.73	6.891	4.826	2 679	2.522	•••
10 000 000	911.086.14	000 000 L	14,120,477		4,000,002	"
17,893,567	15,435,064	11,713,633	5,120,507		959,061	" Deposite in Building and Loan Societies
129,631,465	90,383,673	867,498	58,367.943		82,808,104	" Deposits hy the people in chartered Savings ²
196, 967, 400	158,209,174	118.916.970	123,796,038		60.600.316	Banks - Discounts given by cliartered
2,846,608	2,206,168	2,200,464	091'617'7		1,009,365	
N. 1963,182	6 241,288	9,221,188	9,830,836		7,675,423	" Cotton manufactures
	9.063.626	6, 358, 867	12.767.575		7.667.335	" Woollen manufactures
	10, 200, 010	17 Fut 201	A1 477 990		000,000,000	ti
	- 610'01' 20I	CHE 281.11	119,618,657		308°908'LL	" For home constant ption
	108,941,486	86,489,747	128,070,283		73,459,644	Imports - Total
、	26.357 JOH-	17.607.577.	12.700.507		6.893.167	" - Animals and their products
1	20,809,100 P	- 868 TOG 64	17 968 268	•	12 871 (165	- Fores
1 19:997	8.650 LST	2,877,361	8,878,060	•	1,446,857	* Mines
	100,092,7	6,579,656	5,800,627		8,857,510	
1	196, 226, 361	87,911,458	71,886,979		67.567.888	Remorts - Total
196 806 87	18,266,428	14.071,343	16,361,012		8,518,300	Taxation - Customs
- 890,673,84	68,296,916	42,182,862	36,656,023		21,139,531	Assets
- 526,112,296 -	109,807,106,607	\$194,634,440	\$151,663,401	\$115,998,706	\$96,896,666	Debt Gross
	1885.	1880.	1875.	1870.	1868.	

V.

THE UNITED STATES IN 1890.

THE POPULATION OF THE UNITED STATES, 1890.

ROBERT P. PORTER.

[Eleventh Census Bulletin, No. 16.]

THE population of the United States on June 1, 1890, as shown by the final count of persons and families, exclusive of white persons in Indian Territory, Indians on reservations, and Alaska, was 62,622,250; including these persons the population will probably reach in round numbers 63,000,000. In 1880 the population was 50,155,783. The absolute increase of the population in the ten years intervening was 12,466,467, and the percentage of increase was 24.86. In 1870 the population was stated as 38,558,371. According to these figures the absolute increase in the decade between 1870 and 1880 was 11,597,412, and the percentage of increase was 30.08.

Upon their face these figures show that the population has increased between 1880 and 1890, 869,055 more than between 1870 and 1880, while the rate of increase has apparently diminished from 30.08 to 24.86 per cent. If these figures were derived from correct data, they would be disappointing. Such a reduction in the rate of increase in the face of the heavy immigration during the past ten years would argue a diminution in the fecundity of the population or a corresponding increase in its death rate. These figures are, however, easily explained when the character of the data used is understood. It is well known, the fact having been demonstrated by extensive and thorough investigation, that the census of 1870 was grossly deficient in the Southern States, so much so as not only to give an exaggerated rate of increase of the popu-

lation between 1870 and 1880 in these States but to affect very materially the rate of increase in the country at large. . . .

It is fair to assume that the rates of increase of population of the Southern States between 1860 and 1870 and between 1870 and 1880 were related to one another in a proportion similar to the corresponding rates in the Northern States during the same periods. In the term "Southern States" is here included the two Virginias, the two Carolinas, Georgia, Florida, Alabama, Mississippi, Louisiana, Texas, Arkansas, Tennessee, and Kentucky. The census of 1870 is known or is suspected to be deficient in all these States. In the other States and Territories there is no suspicion of incompleteness. The population of the Southern States in 1860, 1870, and 1880, was as follows:—

1860	•	•	•		•	•	•	•	•		•	•	•	•	•	10,259,016
1870	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	11,250,411
1880	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	15,257,393

The population of the other States and Territories in 1860, 1870, and 1880, was as follows: —

1860				•		•	•	•	•	•			•	•	•	21,184,305
1870	•	•		•		•	•	•	•	•	•	•	•	•	•	27,307,960
1880	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	34,898,390

The rate of increase in these other States and Territories was 28.9 per cent between 1860 and 1870, and 27.8 per cent between 1870 and 1880. These two rates are so nearly equal that in extending them to the Southern States they may be regarded as identical; in other words, it may be assumed that the rate of increase in the Southern States between 1860 and 1870 and between 1870 and 1880 were the same.

Classified as white and colored, the population of the Southern States was as follows: —

							Ye	ar.							White,	Colored,
1860		•	•		•	•	•	•		•		•		•	6,366,703	3,890,037
1870	•	•	•	•	•				•		•	•	•		7,067,213	4,179,222
1880		•											•		9,592,568	5,657,635

890.

TATES, 1890.

1, 1890, as shown sive of white pera, and Alaska, was tion will probably he population was alation in the ten entage of increase d as 38,558,371. in the decade bepercentage of in-

population has inhan between 1870 rently diminished vere derived from a reduction in the ration during the e fecundity of the eath rate. These e character of the fact having been tigation, that the rn States, so much rease of the popu^{*}

The increase of the white between 1860 and 1880 was 50.67 per cent, or at a uniform rate for each ten years of 22.75 per cent. The increase of the colored between 1860 and 1880 was 45.43 per cent, or at the rate of 20.6 per cent for each ten years. Applying these rates of increase respectively to the white and colored population in 1860 there results as the approximate white population in 1870, 7,815,128 and for the colored, 4,691,385. These results are in excess of the figures as returned by the census of 1870, in the case of the white 747,915, and in the case of the colored 512,163, a total of 1,260,078, which may be assumed as approximately the extent of the omissions by the faulty census of 1870. The total population in 1870 was, therefore, approximately 39,818,449, in. stead of 38,558,371.

Assuming these figures to represent approximately the true population in 1870, the rates of increase would stand as follows:-

															Per cent.
1860.	31,443,321	•	•	•		•	•	•	•	•	•	•	•		
1870.	39,818,449	•	•	•	•	•		•	•	•		•	•		26.6
1880.	50,155,783	•	•	•	•	•	•	•	•	•	•		•	•	25.9
1890.	62,622,250	•	•	٠	•	•	•	•	•	•	•	•	•	•	24.8

Omitting from consideration those States in which the census of 1870 is known or is presumed to have been faulty, the rate of increase between 1870 and 1880 in the remaining States has been very nearly maintained in the decade between 1880 and 1890.

POPULATION OF UNITED STATES IN 1870, 1880, AND 1890 BY GEOGRAPHICAL DIVISIONS.

GEOGRAPHICAL DIVISIONS.		POPULATION.		INCREASE FROM 1880 TO 1890.	INCREASE FROM 1870 TO 1880.	INCREASE FROM 1866 TO 1870.
	1890.	1980.	1870.	Per cent.	Per cent.	Per cent.
The United States	62,622,250	50,155,783	38,558,371	24.86	80.08	22.6
North Atlantic division .	17,401,545	14,507,407	12,298,730	19.95	17.96	16.09
South Atlantic division .	8,857,920	7,597,197	5,853,610	16.59	29,79	9.11
North Central division .	22,362,279	17,364,111	12,981,111	28.78	83.76	42.70
South Central division .	10,972,898	8 919,871	6,484,410	28.02	89.62	11.54
Western division	8,027,613	1,767,697	990,510	71 27	78.46	60.02

APPENDIX V.

30 was 50.67 per 22.75 per cent. 30 was 45.43 per ears. Applying and colored popuite population in These results are s of 1870, in the colored 512,163, pproximately the 1870. The total y 39,818,449, in-

tely the true popl as follows: —

	1	Per cent.
		26.6
		25.9
	•	24.8

which the census of lty, the rate of inng States has been 880 and 1890.

1880, AND 1890 BY

ASE 880 90.	INCREASE FROM 1870 TO 1880.	INCREASE FROM 1860 TO 1870.
ent.	Per cent.	Per cent.
86	30.08	22.63
95	17.98	16.09
59	29.79	9.11
78	83.76	42.70
02	39.62	11.54
27	78.46	60.02

IRON AND STEEL INDUSTRIES.

IRON-ORE MINING INDUSTRY.

JOHN BIRKINBINE.

[Eleventh Census Bulletin, No. 113.]

DURING the year ended Dec. 31, 1889, the production of iron ore amounted to 14,518,041 long tons, which was contributed by twenty-six States and two territories, and this output represented a value on cars or carts at the mines of \$33,351,978, an average of \$2.30 per ton.

The stock of ore on hand at the commencement of the census year was 1,966,824 long tons, while at its close this amount was augmented to 2,256,973 tons, an increase for the entire country of 290,149 tons, or nearly 15 per cent. The stock of iron ore carried over is equivalent to 15.55 per cent of the production for the census year, but the increased stock, that is, the amount of ore mined but not consumed, represents but 2 per cent of the total output for 1889. Owing to the fact that the census year for mining corresponded with the calendar year 1889, the stocks of iron ore on hand at the commencement and end of the year represented a larger amount than would have been the case a few months earlier, the practice of mine managers whose products must reach a market by means of water transportation encouraging a depletion of stock at the mines during the shipping season and an augmentation during the winter months, when navigation is suspended. . . .

Michigan was by far the largest producer of iron ore in the census year 1889, a total of 5,856,169 long tons having been mined, the value of which was \$15,800,521 at the mines, an average of \$2.70 per ton. The tonnage from Michigan therefore represents 40.34 per cent of the total, while the aggregate value is 47.38 per cent of that of the entire country.

The credit of holding second rank lies between the States of Alabama and Pennsylvania, the former, from the figures collected, having apparently a slightly greater output than the latter. This uncertainty is owing to the fact that the reports obtained from two of

the larger Alabama mines covered operations commencing May 1, 1889, and ending May 1, 1890, and no detailed record of the amount of ore produced and labor employed during the three months of 1890 was obtainable. The position of Pennsylvania is also affected by the refusal of one large producer to supply absolute figures; but it will be noted that in the shipments or apparent consumption of iron ores Pennsylvania takes precedence of Alabama.

Alabama is therefore placed second as a producer of iron ore, with 1,570,319 long tons, valued at \$1,511,611, an average of 96 cents per ton. These figures represent 10.82 and 4.53 per cent, respectively, of the total output and value.

Pennsylvania closely follows Alabama, its output being 1,560,234 long tons, valued at \$3,063,534, an average of \$1.96 per ton, and 10.75 and 9.19 per cent, respectively, of the total output and value.

The other State which produced over 1,000,000 tons in the present census year was New York, which is credited with 1,247,537 long tons, valued at \$3,100,216, an average of 2.49 per ton, the figures representing, respectively, 8.59 and 9.30 per cent of the total output and value.

These four States therefore produced a total of 10,234,259 long tons, or 70.49 per cent of the entire output of the iron-ore mines of the United States, while the value of the ore aggregates \$23,475,882, or 70.39 per cent of the total valuation. . .

Although the iron ores of the United States are very liberally distributed, the production in the year 1889 came from comparatively limited areas. This statement will be made more prominent by taking the output of various sections of the country for this purpose.

If the United States be divided into eastern and western sections by the most prominent physical feature, namely the Mississippi River, a_{11} connecting the headwaters of this stream by an imaginary line with the Lake of the Woods, the output of that portion of the United States east of this division in 1889 was 14,043,782 long tons, or 96.73 per cent of the total production of the United States, and that of the western division 474,259 long tons, or 3.27 per cent. If the eastern division is again subdivided by a line nearly east and west, following the Ohio and Potomac rivers, uniting these along the southern boundary of Penusylvania, the northern portion produced 11,153,282 long tons in 1889, or 79.42 per cent of the output of the eastern division and 76.82

APPENDIX V.

per cent of the total for the United States, and the southern portion 2,890,500 long tons, or 20.58 per cent of the product of the eastern division and 19.91 per cent of the total for the United States.

Adding to the stock of iron ore on hand Jan. 1, 1889, 1,966,824 long tons, the production for the year, 14,518,041 tons, and deducting the stock on hand Jan. 1, 1890, 2,256,973 long tons, there is an apparent total consumption of 14,227,892 tons, valued at \$32,766,506. To this apparent consumption, however, should be added: (1) the materials which are charged into blast furnaces as ore, but which are products coming from the puddling and heating furnaces and the rolls and hammers of rolling mills; (2) the materials from the retorts in which the franklinite of New Jersey is treated for the removal of zinc, leaving as a residuum a mixture of iron and manganese oxides, employed in blast furnaces for producing spiegeleisen; and (3) the blue billy or purple ore, the residuum of pyrites burned to produce sulphuric acid, and some of the silicates of iron, which, as cinder, result from the treatment of copper ores, may also be utilized and smelted as iron ores.

The following résumé illustrates the apparent consumption of iron ore and materials used as iron ore in the year 1889:-

APPROXIMATE CONSUMPTION OF IRON ORE, ETC., BY VARIOUS INDUSTRIES IN 1889.

[Long tons.]

Items.	Total.	Used in Rolling Mills, Forges, etc.	Used in Silver Smelting.	Used in Blast Furnaces.
Total	15,733,405	424,500	157,908	15,151,057
Domestic iron ore	14,227,892	417,000	157,908	13,652,984
Foreign iron ore	853,573	7,500		846,073
Mill cinder, scale, residuum, blue billy, etc.	652,000			652,000

Comparing the figures for the census year ended Dec. 31, 1889, with the census year 1880, it is found that a total of 7,120,362 long tons of ore were mined in 1880, valued at \$23,156,957, while the production of the census year 1889 shows a total output of

mmencing May 1, while a record of the during the three of Pennsylvania is to supply absolute its or apparent condence of Alabama. roducer of iron ore, 1, an average of 96 and 4.53 per cent,

put being 1,560,234 \$1.96 per ton, and ie total output and

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l of 10,234,259 long the iron-ore mines the ore aggregates uation. . . . es are very liberally came from comparanade more prominent the country for this

ern and western secnamely the Missisf this stream by an the output of that ivision in 1889 was total production of vision 474,259 long is again subdivided e Ohio and Potomac undary of Pennsyl-2 long tons in 1889, h division and 76.82 14,518,041 long tons, valued at \$33,351,978, an increase of 7,397,679 long tons, or 103.89 per cent, over the production of 1880, and an augmented value of \$10,195,021, or 44.03 per cent.

The average value per ton of iron ore at the mines has been reduced from \$3.25 per long ton in 1880 to \$2.30 per ton in 1889. This is due to the consolidation of a number of mines which have been grouped under one management, reducing the cost of superintendence, office force, administration, etc., encouraging the use of improved machinery and permitting systematic and advanced methods of mining, greatly increasing the output of the mines. The reduced freight rates, due to improved facilities, shipping and receiving docks, special vessels and cars having been built for orehandling and transportation, render the competition between the mines much keener than in 1880. The low cost of mining ore in the Southern States has also contributed to this diminution of value at the mines.

Iron ore was obtained from twenty-three States in 1880, and all of these States, with the exception of Indiana and Vermont, were producers, as reported to the Eleventh Census. In addition to the States which mined ore as reported to the Tenth Census, there are added Colorado, Idaho, Minnesota, Montana, New Mexico, Utah, and Washington as new producers for the Eleventh Census. Of these, Colorado and Minnesota were the only States which contributed largely to the output of 1889. . . .

The total value of the iron-ore mines of the United States Dec. 31, 1889, was \$109,766,199, as against \$61,782,287 invested in 1880 in regular mining establishments, an increase of \$47,983,912, or 77.67 per cent.

The State of Michigan has advanced from second place in 1880, with a total reported investment of \$17,496,775, to first position in 1889, with an investment of \$41,958,571, an increase of \$24,461,796, or nearly 140 per cent, or 38.23 per cent of the total capital used in iron ore mining for the United States.

Pennsylvania occupies second place, with a valuation of \$16,-249,313, or 14.80 per cent of the total, a decrease of \$1,372,388, or 7.79 per cent from the 1880 valuation of \$17,621,701, when it occupied first place.

New York follows next, occupying the same relative rank as in 1880, with \$12,489,481, or 11.38 per cent of the total valuation for the United States, an increase in capital of \$4,226,342, or 51.15 per cent.

Minnesota, which produced no ore in 1880, Alabama, Missonri, and Wisconsin, follow in the order named, the last three occupying, respectively, ninth, fifth, and fourteenth places in 1880.

The valuation of the iron-ore mines of the above seven States as reported is \$93,422,218, or 85.11 per cent of the total capital invested in ore mining. . . .

The returns recorded show that the mining of iron ore gave employment directly to 38,227 persons, an increase of 6,559 men, or 20.71 per cent, over the Tenth Census, when the number was 31,668 engaged in work connected with breaking down and raising the ore and delivering it in cars or carts or on stock piles at the mines. This force was divided as follows: 1,366 foremen (680 employed above and 686 below ground), 2,079 mechanics, 12,432 miners, 21,010 laborers (14,531 above and 6,479 below ground), 820 boys (709 being employed above and 111 below ground), and 520 men in offices. Omitting the latter, the total number actually employed in handling the ore was 37,707, and the amount paid in wages direct to miners and contractors reached a total of \$15,458,118. This would show an average earning capacity for each man employed of \$409.95 per annum, and includes the contractors' profits and the additional pay allowed to foremen. This is an increase over the figures for 1880 of \$101.01, or 32.70 per cent, which is due principally to the fact that a larger number of the mines are now under ground, permitting the men to be constantly employed throughout the year and demanding better skill.

The lowest expenditure for labor per ton of ore was in the States of Alabama and Georgia and North Carolina, where it amounted to 69 and 71 cents per ton, respectively, due to large open workings and modern and systematic systems of mining, and in Alabama and Georgia to the soft character of the ore, etc.

In Pennsylvania one half of the iron ore credited to the State comes from the Cornwall ore hills, where the soft character of the ore and its accessibility assist in reducing the average cost of labor employed in mining for the entire State to 75 cents per long ton. The cost of mining the hard Lake Superior ores is best illustrated in the State of Michigan, where \$1.19 was expended for wages per ton of ore won. The high cost in Colorado, Idaho, and Montana is due to the higher rates of wages prevailing in those States and the small amount of ore won.

In the New England States, New Jersey, Ohio, Delaware, and

an increase of e production of 44.03 per cent. nes has been reper ton in 1889. ines which have cost of superinaging the use of l advanced meththe mines. The shipping and resen built for oretion between the of mining ore in minution of value

in 1880, and all nd Vermont, were In addition to the Census, there are ew Mexico, Utah, enth Census. Of tes which contrib-

Jnited States Dec. 32,287 invested in se of \$47,983,912,

ond place in 1880, 5, to first position ., an increase of r cent of the total ates.

raluation of \$16,se of \$1,372,388, .621,701, when it

elative rank as in ne total valuation of \$4,226,342, or

Maryland the exploitation of old workings or of scattered deposits causes a high cost per ton for wages. The use of improved machinery and the predominance of large mines assist in reducing the cost for labor in Wisconsin, Minnesota, Alabama, New York, and other States. The partial employment of convicts in Tennessce, Texas, and Georgia, affects the figures for these States.

Michigan, as the largest producer, naturally gives employment to the greatest number of persons, namely, 13,120, or 34.32 per cent of all the employés at the mines of the United States; Pennsylvania follows with 4,410 employés, or 11.54 per cent; New York ranks third, its iron-ore mining industry giving employment to 3,178 persons, or 8.31 per cent of the total number of employés; and Alabama occupies fourth place, which State reported a total of 3,122 employés, or 8.17 per cent. These four States had 23,830 persons, or 62.34 per cent of the total, employed in their iron-ore mines.

Alabama returns the largest output per employé, Minnesota, Wisconsin, Michigan, New York, Missouri, Pennsylvania, Georgia and North Carolina, Tennessee, Colorado, New Jersey, Virginia and West Virginia, and Ohio, following in the order named.

The total cost of the ore mined, as represented by schedules returned, aggregates \$24,781,658, equivalent to an average cost of \$1.71 per ton of ore mined against \$2.21 in 1880, a decrease of \$0.50 per ton, or 22.62 per cent. The difference includes more than supplies and materials. These figures indicate the advance made in labor-saving appliances and improved facilities for mining and handling the product of the mines.

In the total cost of producing iron ore Alabama is the only State which averages less than \$1 per ton, namely, 82 cents. Next in order of low cost come Texas, \$1.05; Tennessee, \$1.08; Pennsylvania, \$1.10; Georgia and North Carolina, \$1.14. In Colorado the cost of producing one long ton of ore, \$3.49, is greater than in any other State.

APPENDIX V.

sattered deposits of improved mato in reducing the New York, and ts in Tennessee, tates.

es employment to or 34.32 per cent States; Pennsylcent; New York g employment to nber of employés; reported a total of States had 23,830 d in their iron-ore

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na is the only State 82 cents. Next in e, \$1.08; Pennsyl-1.14. In Colorado , is greater than in

PRODUCTION OF PIG-IRON.

WILLIAM M. SWEET.

[Eleventh Census Bulletin, No. 9.]

THE production of pig-iron during the year ended June 30, 1890, was the largest in the history of the iron industry of this country, amounting to 9,579,779 tons of 2,000 pounds, as compared with 3,781,021 tons produced during the census year 1880, and 2,052,821 tons during the census year 1870. From 1870 to 1880 the increase in production amounted to 1,728,200 tons, or nearly 85 per cent, while from 1880 to 1890 the increase was 5,798,758 tons, or over 153 per cent. The following table shows the production of pigiron in the various sections of the country in the census years 1870, 1880, and 1890, in tons of 2,000 pounds, including castings made direct from the furnace. The statistics for 1870 and 1880 are for the census years ended May 31, but for 1890 they cover the year ended June 30.

	Tons of 2,000 Pounds.					
DISTRICTS.	Year ended May 81, 1870.	Year ended May 31, 1880.	Year ended June 30, 1890.			
New England States	84,471	30,957	33,781			
Middle States	1,311,649	2,401,093	5,216,591			
Southern States	184,540	350,436	1,780,909			
Western States	522,161	995,335	2,522,351			
Far Western States		8,200	26,147			
Total	2,052,821	3,781,021	9,579,77			

From the above it will be seen that the pig-iron industry of New England has been practically stationary during the past twenty years, while during the same period, and especially since 1880, there has been a wonderful development of the manufacture of pig-iron in all other sections of the country.

The relative rank of the various States is seen to have undergone Pennsylvania still retains its leadermany changes since 1880. ship as the producer of about one half of the pig-iron that is annually made in the United States, producing 51 per cent of the total production in the census year 1880, and over 49 per cent in 1890. Ohio was second in rank in both 1880 and 1890, the output of pig-iron in the former year being over 14 per cent of the total production in the United States, and in the latter year over 13 per cent. Alabama, which occupied tenth place in 1880, with an output of 62,336 tons, is now the third largest producer of pig-iron. the production of this State in 1890 amounting to 890,432 tons. an increase of more than 1.328 per cent over the production of 1880. Illinois, which was seventh in rank in 1880, is fourth in 1890, and New York, which was third in 1880, occupies fifth place in 1890. Virginia, which was seventeenth in rank in 1880, is now sixth; while Tennessee has gone from thirteenth to seventh place.

Notwithstanding the fact that the production of pig-iron has increased from 3,781,021 tons of 2,000 pounds in 1880 to 9,579,779 tons in 1890, the total number of completed furnaces has decreased during the ten years from 681 to 562.

Of the 562 completed furnaces at the close of the census year 1890 there were 338 in blast, of which 110 were anthracite or anthracite and coke furnaces, 165 coke and bituminous coal furnaces, and 63 charcoal furnaces. The number of furnaces building at the date mentioned was 39, of which 9 were in Virginia, 7 in Alabama, 5 in Pennsylvania, 4 in Illinois, 3 each in Kentucky, Tennessee, and Michigan, 2 in Maryland, and 1 each in Georgia, Ohio, and Wisconsin.

One of the most noticeable features in the growth of the manufacture of pig-iron in this country during the past decade is the development of the blast-furnace industry of the Southern States. In 1880 the South had already commenced to appreciate the value of the extensive deposits of iron ore and coal within her borders and to realize the superior advantages which she possessed for the cheap production of pig-iron, owing to the close proximity to each other of these materials, and a number of large coke furnaces were built in that year and the few succeeding years. The greatest activity, however, in undertaking new furnace plants was in 1887, during which year 5 new furnaces were blown in and 25 others were under construction. There has been but little abatement in this activity to the present time.

APPENDIX V.

have undergone ains its leaderron that is anper cent of the : 49 per cent in 1890, the output ent of the total year over 13 per 80, with an outucer of pig-iron, to 890,432 tons, he production of 880, is fourth in cupies fifth place k in 1880, is now to seventh place. f pig-iron has in-1880 to 9,579,779 aces has decreased

f the census year anthracite or annous coal furnaces, ces building at the nia, 7 in Alabama, itucky, Tennessee, Georgia, Ohio, and

owth of the manupast decade is the southern States. ppreciate the value within her borders e possessed for the proximity to each coke furnaces were ars. The greatest plants was in 1887, in and 25 others little abatement in

The greatest activity in the development of the Southern pigiron industry during the past decade was in Alabama. This State produced in the census year 1890, one half of all the pig-iron made in the South, and was only exceeded in production in the United States by Pennsylvania and Ohio. Virginia and Tennessee now occupy, respectively, second and third places among the pig-iron producing States of the South. Prior to the census year 1890 Tennessee was the second leading manufacturer of pig-iron in that section, but the activity which has been noticeable during the past few years in Virginia, in the erection of new furnaces has placed this State next to Alabama among Southern States in the quantity of pig-iron produced. In 1880, West Virginia was the leading producer of pig-iron in the South, but in 1890 it was fourth in rank. The manufacture of pig-iron in Kentucky and Georgia has been practically stationary during the past decade, and prior to the census year 1890 but little progress had been made by Texas. Two charcoal furnaces were building in that State in the census year 1890, both of which were completed but not blown in at the close of that year. All of the furnaces in North Carolina, seven in number, were idle in 1880, and since that year very little activity has been shown in the erection of new works, while the seven furnaces referred to have either been abandoned or are now classed as longinactive furnaces. With the exception of West Virginia and Maryland, nearly all the pig-iron made in the South is produced from southern ores, and of the quantity produced by the use of mineral fuel, much the larger part is made from southern coke. Most of the pig-iron made in West Virginia is produced from Lake Superior ores. In Maryland the recent building of four large coke furnaces by the Pennsylvania Steel Company, at Sparrow's Point, near Baltimore, to smelt iron ores from Cuba, has suddenly brought this State more prominently forward as a manufacturer of pig-iron. Two of the furnaces were blown in during the census year 1890, and of the other two, one is completed and ready for operation. . . .

The following table shows the production of pig-iron in the United States, in tons of 2,000 pounds, in the census years 1880 and 1890, arranged according to the fuel used, with the percentage of increase or decrease in production in 1890:—

Fuel Used.	Year ended May 81, 1880.	Year ended June 30, 1890.	Percentage of Increase in 1890.	Percentage of Decrease in 1890,	
Anthracito alone	Tons. 1,112,785 713,982 1,515,107 485,018 4,220	Tons. 823,258 1,879,008 6,711,974 655,520 9,929	163.20 843.00 50.69 184.78	70.05	
Total	3,781,021	9,579,779	153.36	• • •	

The foregoing figures clearly exhibit the important part that bituminous coal and coke have taken in the growth of the pig-iron industry since 1880. The larger proportion of the production of pig-iron credited to these fuels is made from coke alone. A few furnaces use raw bituminous coal only, and their production is included in the total for coke and bituminous coal. In the use of anthracite coal alone as a blast-furnace fuel there is seen to have been a marked decrease since 1880, while the production of pig-iron with mixed anthracite coal and coke has more than doubled...

PRODUCTION OF STEEL.

WILLIAM M. SWEET.

[Eleventh Census Bulletin, No. 13.]

THE total production of steel in the United States in the form of ingots or direct castings during the year ended June 30, 1890, amounted to 4,466,926 tons of 2,000 pounds, as compared with 1,145,711 tons produced during the year ended May 31, 1880; an increase of 3,321,215 tons, or 290 per cent.

The following table gives the production of the various kinds of steel in the form of ingots or direct castings in 1880 and 1890. The statistics for 1880 are for the census year ended May 31, 1880, but for 1890 they cover the fiscal year ended June 30, 1890. A few steel works produce blister, cemented, and other miscellaneous steel, but the quantity made annually is very small, and the statistics thereof for 1880 and 1890 are not included in the table below.

APPENDIX V.

Percentage of Increase in 1890.	Percentage of Decreme in 1890.					
163.20 848 00 50.69 184.78	70.05					
153.36						

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States in the form of nded June 30, 1890, s, as compared with ed May 31, 1880; an

the various kinds of s in 1880 and 1890. ended May 31, 1880, d June 30, 1890. A nd other miscellanevery small, and the ncluded in the table

KINDS OF STREE.									Tons or 2,000 Pounds.				
AIRDS OF STREE. (Ingots or direct eastings.)									Year ended May 81, 1880.	Year ended June 30, 1890.			
Bessemer steel	•	•	•	•								985,208	3,788,572
Open-hearth steel			•	•	•		•				•	84,802	504,351
Crucible steel		•	•				•			•	•	76,201	85,536
Clapp-Griffiths steel	•	•	•	•	•	•	•	•	•		•		83,963
Robert-Bessemer steel		•	•	•	•	•	•	•	•	•	•		4,504
Total	•	•	•	•				•				1,145,711	4,466,920

During 1880 fourteen States contained steel-making establishments, and steel was produced in that year in each of these States except Rhode Island and Maryland. In 1890 steel works were located in nineteen States, and steel was made in that year in each of these States except Kentucky, Missouri, and Virginia.

Pennsylvania continues to occupy the position of the leading producer of steel in the United States, producing 57 per cent of the total production in 1880, and 62 per cent in 1890. Illinois was second in rank in both years, and Ohio was third. From 1880 to 1890 the increase in production in Pennsylvania was 324 per cent, in Illinois 241 per cent, and in Ohio 314 per cent. Since 1880 the manufacture of steel has been abandoned in two States, namely, Rhode Island and Vermont, and seven States have engaged in its production, namely, Alabama, California, Colorado, Indiana, Michigan, Virginia, and West Virginia. . .

The remarkable growth that has taken place in the Bessemer steel industry of this country during the past ten years is well shown by the above figures. The increase in the number of establishments producing Bessemer steel has been the result almost entirely of the demand for steel in forms other than rails. All of the eleven Bessemer steel plants that were completed in 1880 had been built to manufacture steel for rails, many of them being added to previously existing iron rail mills. Of the fifty-three Bessemer steel plants at the close of 1890 only fourteen made steel rails during that year, and of the total quantity of rails produced over 90 per cent was made by ten of these works. Thus, while the pro-

duction of steel rails has nearly trebled in amount since 1880, the number of establishments engaged in their manufacture has shown but little change in the ten years, although many of these works have greatly increased in size and efficiency. The competition in the manufacture of Bessemer steel rails has compelled many of the rail mills to convert a large part of the steel produced by them into forms other than rails, the production of rails to any considerable extent at the present time being possible only in works favorably located for the supply of cheap raw materials and operated under the latest and most improved methods of manufacture. Included in the total production of Bessemer steel rails during 1890 were 65,273 tons rolled in iron rolling mills from purchased Bessemer steel blooms.

While the demard for steel rails has shown a remarkable growth since 1880, thereby forcing a practical discontinuance of the manufacture of iron rails, there has also been a rapidly increasing use of steel for nails, bars, rods, wire, and other miscellaneous forms. The growth of the Bessemer steel industry in this direction is clearly shown in the number of plants that have been added to iron rolling mills during the past ten years for the purpose of manufacturing steel in forms other than rails. The increased quantity of Bessemer steel manufactured in these miscellaneous forms is approximately shown by a comparison of the ingots and rails produced, over 75 per cent of the ingots made in 1880 being converted into rails, while in 1890 the percentage of rails made to ingots produced was only 53 per cent.

The production of open-hearth steel in the form of ingots or direct castings during 1890 amounted to 504,351 tons of 2,000 pounds, as compared with 84,302 tons made during 1880. In 1880 there were 25 establishments containing open-hearth steel plants, located in ten States, and in 1890 there were 58 establishments containing open-hearth steel plants, located in twelve States. Since 1880 the manufacture of open-hearth steel has been abaudoned in two States, Vermont and Rhode Island, and four States have engaged in its manufacture, New York, Alabama, Indiana, and California. During the past few years great activity has taken place in the erection of open-hearth steel plants, and indications point to a still larger production of this kind of steel during the next few years.

The crucible steel industry has shown but little progress since 1880, the production in that year amounting to 76,201 tons of

APPENDIX V.

since 1880, the cture has shown y of these works e competition in lled many of the ced by them into any considerable 1 works favorably d operated under acture. Included during 1890 were inchased Bessemer

remarkable growth nance of the manuly increasing use of iscellaneous forms. In this direction is nave been added to for the purpose of ls. The increased these miscellaneous n of the ingots and made in 1880 being age of rails made to

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t little progress since ig to 76,201 tons of 2,000 pounds, as compared with 85,536 tons produced in 1890. In 1880 there were 36 establishments containing crucible steel plants, located in nine States, while in 1890 the number of establishments had increased to 47, located in eleven States. For purposes requiring special grades of steel the product of the crucible process will be always in demand, but the high cost of manufacture prevents it in many instances from successfully competing in price with the other processes mentioned.

The first basic steel made in the United States was produced experimentally at Steelton, Pennsylvania, by the Pennsylvania Steel Co. on May 24, 1884, in a Bessemer converter. The beginning of the manufacture of basic steel in this country as a commercial product, however, dates from 1888, on the 28th of March of which year the first basic open-hearth steel was produced at the Homestead Steel Works of Carnegie, Phipps, & Company, Limited, at Homestead, near Pittsburgh, Pennsylvania. Since that date the manufacture of basic open-hearth steel has been continued at these works, and during 1890 this firm commenced the erection of eight additional open-hearth furnaces for the manufacture of basic steel, of which number four are now in operation, and the remaining four furnaces are expected to be ready for working in a short time. When completed these works will contain 16 open-hearth furnaces prepared to manufacture basic steel. The manufacture of basic steel is now also regularly carried on at the Steelton works of the Pennsylvania Steel Company, where a combination of the Bessemer and open-hearth processes is used. During 1890 the Henderson Steel and Manufacturing Company, at Birmingham, Alabama, produced steel experimentally by the basic process. Since the close of the year the Southern Iron Company has successfully commenced the manufacture of basic open-hearth steel at its works at Chattanooga, Tennessee. The Pottstown Iron Company, at Pottstown, Pennsylvania, has also produced steel by the basic process.

In Great Britain and on the Continent the basic process has been received with great favor, and large quantities of basic steel are made annually by all the leading iron and steel producing countries abroad. The wonderful growth of the steel industry of Germany and Luxemburg during recent years has followed the introduction of this process, the iron ores of these countries being especially suited to the manufacture of basic steel.

While the basic process is applicable to either the Bessemer or open-hearth process, its use in this country in connection with the

open-hearth furnace is most promising of successful results, and the indications are that the growth of the basic steel industry of the United States will be largely in this direction. The total production of basic steel in the United States during 1890 amounted to 62,173 tons of 2,000 pounds, nearly all of which was made by the basic open-hearth method, a small part being produced by the duplex process, a combination of the Bessemer and open-hearth methods.

MUNICIPAL RECEIPTS AND EXPENDITURES.

ROBERT P. PORTER.

[Eleventh Census Bulletin, No. 82.]

THE statistics of this bulletin showing in detail the receipts and expenditures for one year of one hundred principal or representative cities in the United States, aggregating a population of 12,425,366, or about two thirds of the urban population of the United States, have been prepared by Mr. J. K. Upton. The following table shows the total receipts and expenditures as classified by the detailed statement:—

P	EC	ET	рт	P

Taxe Spec Spec Lice Fees Wat Inte Inco Misc

Loan Fun From Bala

EXPENDITURES.

es	\$139,283,226	Libraries	\$\$18,202
cial assessments, streets and		Schools	26,198,173
ridges	13,296,035	Fire	11,865,402
cial assessments, sewers	1,380,057	Health	2,280,817
enses { Liquor	11,782,307	Lighting	7,747,813
Other	8,411,539	Police	17,817,435
s, fines, and penalties	2,714,464	Charitable objects .	7,166,901
terworks	18,826,269	Streets and bridges	33.580,209
erest on deposits	575,057	Sewere	6,943,519
ome from funds and invest-		Buildings and improvements .	9,715,070
ents.	10,852,461	Parks and public grounds	12 672,494
celianeous	12,880,088	Salaries	11,833,458
		Waterworks	19,086,751
		Interest on debt	32,250,368
		Miscellaneous	34,861,043
Total ordinary receipts	8215,001,448	Total ordinary expenses	\$234,626,655
ne	84,852,668	Loans	59,488,191
ids and transfers	18,381,673	Funds and transfers	28,330,335
m State or county	5,443,947	Balance, cash on hand at end of	
ance, cash on hand begin-	0,110,011	year	36,579,193
ing of year.	85,844,656		
Grand total	\$359,024,892	Grand total	\$359,024,392

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sful results, and steel industry of a. The total proag 1890 amounted ich was made by g produced by the and open-hearth

NDITURES.

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ENDITURES.

					\$\$18,202
		÷			26,198,173
•		÷	÷		11,865,402
		Ċ	÷		2,280,817
•	•	÷	Ċ		7,747,813
•	•	Ċ	Ċ	÷	17,817,435
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vu				÷	11,833,458
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		n84			\$234,626,655
ex	pe	1184		•	53,488,191
	•	•			28,330,335
an	ď	nt -	end	t of	100
•	•	•		• •	36,579,198
					\$359,024,302

APPENDIX V.

Comparing detailed amounts expended by cities with those expended by States, the magnitude of municipal expenditures is clearly exhibited.

Omitting amounts on account of loans, transfers, and funds, the ordinary expenditures of the State of Massachusetts for the year ending Dec. 31, 1889, as compiled by this office, was \$4,955,669. With like omissions, the expenditures for the city of Boston for the year named amounted to \$16,117,043. Like ordinary expenditures of the States of New York, Massachusetts, Pennsylvania, Ohio, Missouri, and Illinois, the six largest States in the Union in population, for one year amounted in the aggregate to \$28,859,010, while in the same period the ordinary expenditures of New York City alone amounted to \$48,937,694. The State of New York expended in 1889, for legislative, executive, and judicial purposes \$1,619,127, an amount considerably exceeding like expenditures in any other State; but the amount for the same period paid for salaries alone for such purposes in certain cities was as follows: New York, \$3,488,834; Brooklyn, \$2,325,684; Philadelphia, \$1,131,376.

NATIONAL, STATE, AND COUNTY INDEBTEDNESS.

ROBERT P. PORTER.

[Eleventh Census Bulletin, No. 64.]

THE total and per capita indebtedness of seventy-nine foreign nations, the United States, the several States, and their respective counties, given in the present bulletin, was prepared by Mr. J. K. Upton. The indebtedness of the world for 1890 and 1880, as far as it has been possible to collect the data for this bulletin, with the amount of increase or decrease, is as follows:—

DIVISIONS.	DEBT LESS S	INKING FUND.	Increase,	Decrease.	DEBT PER CAPITA.		
	1890.	1880.			1890.	1880.	
Totaj	\$26,917,096,680	\$25,818,521,219	\$1,098,575,461		53.82	80.73	
Foreign nations .	\$25,636,075,840	#23,481,572,185	\$2,154,503,655		33.36	34.14	
The United States	915,962,112	1,922,517,864		\$1,006,555,252	14.63	35 88	
States and terri- tories	223,107,883	290,826,643		67,218,760	3.56	5.79	
Counties	141,950,845	124,105,027	17,845,818		2 27	2.47	

From the summary published it will be seen that relatively the burden of debt falls far heavier upon the inhabitants of the principal foreign countries, except those of Germany, than upon those of this country. France in 1889 had a debt per capita of \$116.35, and it is understood that this does not include certain annuities of an unstated but large amount; Great Britain, though slowly decreasing its debt, had a burden at that time of \$87.79 per capita; Russia, \$30.79; Austria-Hungary, \$70.84; Italy, \$76.06; Belgium, \$63.10; The Netherlands, \$95.56, while that of the United States was but \$14.63, and of its indebtedness nearly one half was made up of non-interest-bearing notes.

While individual fluctuations in the amounts of indebtedness of the seventy-nine foreign nations reported have been considerable during the decade, the aggregated indebtedness shows relatively but little change, especially if compared with the increase of population.

The public debt of the United States shows a gratifying decrease within the last ten years, the burden per capita having been reduced from \$38.33 in 1880 to \$14.63 in 1890.

The indebtedness of the States and Territories has also decreased \$67,218,760 during the decade, reducing the per capita from \$5.79 in 1880 to \$3.56 in 1890. It should be remembered, however, that of the total decrease of State debt as reported there has been scaled by refunding in some of the Southern States about \$28,500,000.

The indebtedness of the counties, though increasing somewhat within the decade, has not kept pace with the increase of population, and the per capita has been reduced from \$2.47 in 1880, to \$2.27 in 1890.

Aggregating the national, State, and county indebtedness, the per capita shows a decrease from \$46.59 in 1880 to \$20.46 in 1890, or more than one half, and this decrease has been brought about mainly by voluntary taxation. The aggregate surplus receipts of another decade like the one just past would relieve the country from nearly all national, State, and county indebtedness could they be distributed for the purpose.

hat relatively the ants of the prin-, than upon those capita of \$116.35, ortain annuities of hough slowly de-87.79 per capita; \$76.06; Belgium, the United States one half was made

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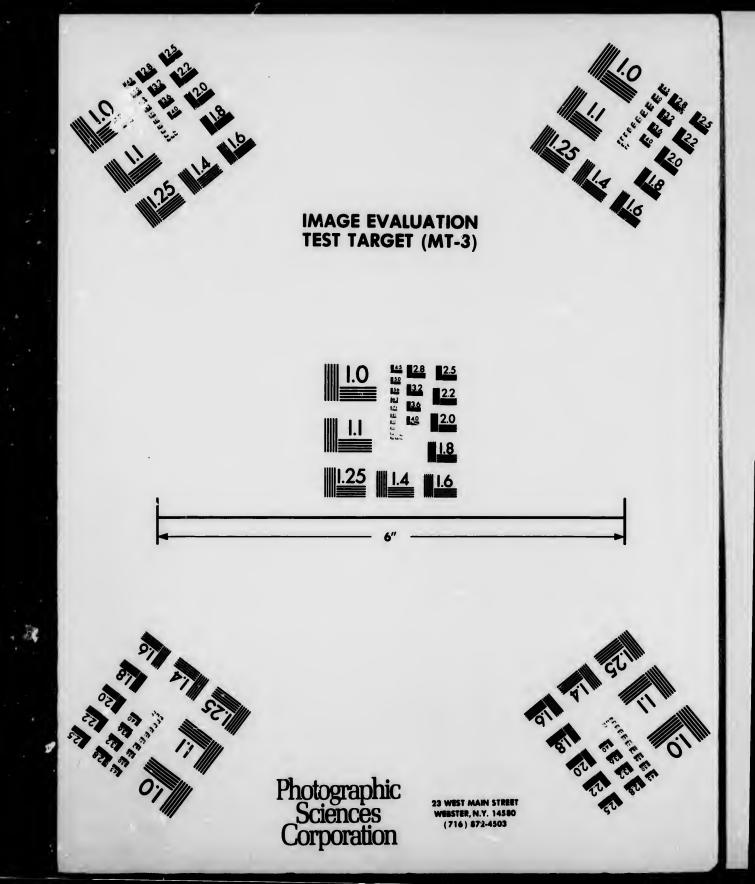
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