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A BRIEF HISTORY OF PANICS AND THEIR PERIODICAL OCCURRENCE IN THE UNITED STATES

BY CLEMENT JUGLAR

MEMBER OF THE INSTITUTE, VICE-PRESIDENT OF LA SOCIETE D'ECONOMIE POLITIQUE

THIRD EDITION

TRANSLATED AND EDITED WITH AN INTRODUCTION AND BROUGHT DOWN FROM 1889 TO DATE

BY DECOURCY W. THOM

FORMER MEMBER OF THE BALTIMORE STOCK EXCHANGE AND OF THE CONSOLIDATED EXCHANGE OF NEW YORK

TO GOLDEN DAYS

Tonight at "Blakeford," I set down this dedication of the third edition of this book which has proved to be the pleasant companion of two visitations—one at "Wakefield Manor," Rappahannock County, Virginia, in 1891, the other at my old home "Blakeford," Queen Anne's County, Maryland, in 1915. The memories that entwine it there, and here mingle in perfect keeping and have made of a dry study something that stirs anew within me as I consider the work accomplished, my love and remembrance of the old days, and my love and unforgettingness of these other golden days under whose spell I have brought the book up to the present year.

DECOURCY W. THOM.

"BLAKEFORD,"

PREFACE TO THIRD EDITION

The second edition of this study of *Panics in the United States* brought us through the year 1891. I originated about one fourth of it.

This third edition brings us practically up to date. Of this edition I originated about one half. I hope it will prove helpful in many ways. I trust that it will force an appreciable number of men to realize that "business" or "financial" panic is not merely fear, as some have asserted; but is based upon the knowledge that constriction, oppression, unhappy and radical change in this, that, or the other kind of business must tend to drag down many others successively, just as a whole line of bricks standing on end and a few inches apart will fall if an end one is toppled upon its next neighbor. Indeed, the major cause of "business" or "financial" panic is just reasoning upon existing conditions rather than a foolish fear of them. Over-trading and loss of nerve constitute the medium. Recent national legislation has gone far in enabling the business world in the United States to prevent panics, and farther yet in providing the means to cope with them when, in spite of precautions, they shall recur.

DEC. W. THOM.

"BLAKEFORD,"

October 10, 1915.

A BRIEF HISTORY OF PANICS

INTRODUCTION

COMPRISING A CONDENSATION OF THE THEORY OF PANICS, BY M. JUGLAR, RENDERED INTO ENGLISH, WITH CERTAIN ADDITIONAL MATERIAL, BY DECOURCY W. THOM.

In this translation, made with the author's consent, my chief object being to convey his entire meaning, I have unhesitatingly rendered the French very freely sometimes, and again very literally. Style has thus suffered for the sake of clearness and brevity, necessary to secure and retain the attention of readers of this class of books. This same conciseness has also been imposed on our author by the inherent dryness and minuteness of his faithful inquiry into hundreds of figures, tables showing the condition of banks at the time of various panics, etc., etc., essential to his demonstration. As an extreme instance of the latitude I have sometimes allowed myself, I cite my rendering of the title: "Des Crises Commerciales et de Leur Retour Periodique en France, en Angleterre et aux Etats-Unis" merely as "Panics and Their Periodical Occurrence in the United States": for M. Juglar himself states that a commercial panic is always a financial panic, as a falling away of the metallic reserve indicates its breaking out; and I have only translated that portion dealing with the United States, deeming the rest unnecessary, for this amply illustrates and proves the theorem in hand.

To this sketch of the financial history of the United States up to 1889, when M. Juglar published his second

edition, I have added a brief account to date, including the panic of 1890, the table headed "National Banks of the United States," and some additions to the other tables scattered through this book.

From the prefaces to the French editions of 1860 and of 1889, and other introductory matter, I have condensed his theory as follows:

A Crisis or Panic may be defined as a stoppage of the rise of prices: that is to say, the period when new buyers are not to be found. It is always accompanied by a reactionary movement in prices.

A panic may be broadly stated as due to overtrading, which causes general business to need more than the available capital, thus producing general lack of credit. Its precipitating causes are broadly anything leading to overtrading:

In the United States they may be classed as follows:

- I. PANICS OF CIRCULATION, as in 1857, when the steadily increased circulation, which had almost doubled in nine years, had rendered it very easy to grant excessive discounts and loans, which had thus over-stimulated business, so that the above relapse occurred; or, we may imagine the converse case, leading to a quicker and even greater disaster: a sudden and proportionate shrinkage of circulation, which, of course, would have fatally cut down loans and discounts, and so precipitated general ruin.
- 2. A PANIC OF CREDIT, as in 1866, when the failure of Overend, Gurney, & Co. rendered the whole business world over cautious, and led to a universal shrinkage of credit. [I take the liberty of adding that it seems evident to me that such a danger must soon confront us in the United States, unless our Silver Law is changed, because of a finally inevitable distrust of the government's ability to keep 67-cent silver dollars on an equality with 100-cent gold dollars.]
- 3. PANICS OF CAPITAL, as in 1847, when capital was so locked up in internal improvements as to prove largely useless.
- 4. GENERAL TARIFF CHANGES. To the three causes given above the translator adds a fourth and most important one: Any change in our tariff laws general enough to rise to the dignity of a new tariff has with one exception in our history precipitated a panic. This exception is the tariff of 1846, which was for revenue only, and introduced after long notice and upon a graduated scale. This had put the nation at large in such good condition that when the apparently inevitable Decennial Panic occurred in 1848 recovery from it was very speedy.

The reason for this general effect of new tariffs is obvious. Usual prices and confidence are so disturbed that buyers either hold off, keeping their money available, or else draw unusually large amounts so as to buy stock before adverse tariff changes, thus tightening money in both ways by interfering with its accustomed circulation. This tendency towards contraction spreads and induces further withdrawal of deposits, thus requiring the banks to reduce their loans; and so runs on and on to increasing discomfort and uneasiness until panic is speedily produced. The practical coincidence and significance of our tariff changes and panics is shown by an extract below from an article written by the translator in October-November, 1890, predicting the recent panic which was hastened somewhat by the Baring collapse. [Footnote: *Inter-relations of Tariffs, Panics, and the Condition of Agriculture, as Developed in the History of the United States of America*.

This brief sketch of our economic history in the United States seeks to show that Protective Tariffs have always impoverished a majority of our people, the Agriculturists; that agriculture has thus been made a most unprofitable vocation throughout the States, and that this unsoundness at the very foundation of the business of the American people has often forced our finances into such makeshift conditions, that under any unusual financial strain a panic, with all its wretched accompaniments, has resulted.

To consider this properly, we must note the well known fact that in this land, those who live by agriculture directly, are more than one half of our population. Their votes can cause to be made such laws as they see fit, hence, one would expect the enactment of laws to raise the price of farm products, and to lower the price of all that the farmer has to buy. But the farmers vote as the manufacturers and other active classes of the minority of our voters may influence; and only twice in our history, from 1789 to 1808, and from 1846 to 1860, have enough of the minority found their interests sufficiently identical with that of the unorganized farmer-majority to join votes, and thus secure at once their common end. In consequence of this coalition during these two periods, two remarkable things happened: 1st, agriculture flourished, and comfortable living was more widely spread: 2d, panics were very infrequent, and the hardships and far-reaching discomforts that must ever attend adjustments to new financial conditions after disturbances were, of course, minimized.

It is not fair to deduce very much from the first period of prosperity among the farmers, 1789 to 1808, for, during this time, there were no important business interests unconnected with agriculture; but we may summarize the facts that from 1789 to 1808, there was, 1st, no protection, the average duty during this time being 5 per cent., and that laid for revenue only; 2d, that agriculture flourished; 3d, that there was not a single panic.

"The Embargo" of 1808, followed by the Non-Intercourse Act in 1809 and the War of 1812-15, and the war tariff, by which double duties were charged in order to raise money for war purposes, caused us to suffer all the economic disasters flowing from tariffs ranging between absolute protection, and those practically prohibiting,

and intensified by the sufferings inseparable from war.

During this period agriculture, for the first time in our history, was in a miserable condition. It is significant that for the first time too, we had a protective tariff. Though our people made heroic efforts to make for themselves those articles formerly imported, thus starting our manufacturing interests, they had, of course, lost their export trade and its profits. When the peace of 1814 came, we again began exporting our produce, and aided by the short harvests abroad, and our own accumulated crops, resumed the profitable business which for six years our farmers and our people generally had entirely lost. Our first panic, that of 1814, came as a result of our long exclusion from foreign markets, being followed by the stimulation given business through resumption of our foreign trade in 1814, which was immensely heightened by the banks issuing enormous quantities of irredeemable paper, instead of bending all their energies to paying off the paper they had issued during the war.

But worse than the suffering entailed by this panic, was the engrafting upon our economic policy of the fallacious theory made possible by the Embargo and the Non-Intercourse Act, (which was equivalent, let me enforce it once more, to that highest protective tariff, a prohibitory one) that all infant manufactures must be protected, that is, guaranteed a home market, though such home market be one where all goods cost more to the purchaser than similar goods bought elsewhere, and this in order that the compact little band of sellers in the home market may make their profit. This demand for protection was made by those who had started manufactures during the years from 1808 to the end of the war of 1815, when, as we have seen, imports were practically excluded.

In 1816 their demand met explicit assent, for, in the tariff of that year, duty for protection, not for revenue, was granted; and an average of 25 per cent. duties for six years, to be followed by an average of 20 per cent. duties, was laid upon imports. For a few years bad bread crops in Europe, demand for our cotton, and an inflation of our currency delayed a panic.

But, we had started on our unreasoning course. We had tried to ignore the laws of demand and supply, and had forgotten that it is also artificial to attempt preventing purchases in the cheapest, and selling in the highest markets; and to help a few manufacturers we had put up prices for all that a large majority of our population,—the agriculturists mainly—had to buy. In a short while the demand for what the farmers had to sell fell away, and bills could not be met, and their troubles were added to those of the minority of the consumers of the country; the volume of business fell off, and a panic came in 1818. The influences that led up to it continued until 1846, as follows: The great factors in producing this state of affairs were the successive tariffs of 1818, with its 25 per cent. duty upon cottons and woollens, and its increased duties on all forms of manufactured iron, (the tariff of 1824 which increased duties considerably), and the tariff of 1828, imposing an average of 50 per cent. duties, and in which the protective movement reached its acme (omitting, of course, the present McKinley Bill with its 60 per cent. average duty). In 1832, consequently, a great reaction in sentiment took place, and the "Compromise Tariff" was passed and duties were lowered. From this period, the advocacy of a high tariff in order to protect "Infant Industries," no longer "Infant" was largely abandoned, and its advocacy was generally based upon the fallacy, less obvious then than now, of securing high wages to laborers by means of high import duties. This plea for high duties the laborer found to be fallacious.

They (agriculturists mainly) found that they had to pay more for manufactured goods, so that the manufacturers could still buy their raw materials at the advanced prices, pay themselves the accustomed or increased profits, and then possibly pay the laborer a small advance in wages.

The advance did not compensate for increased cost of necessaries of life. If competition reduced the manufacturers' profit, the first reduction of expenses was always in the laborer's pay. The recognition of these truths brought about the further reduction of duties until 1842, in which year the tariff was once more raised. It was not until 1846 that we enjoyed a tariff which sought to eliminate the protective features. It is significant that a period of greater profit and stability among our business men, but especially among our farmers, was then inaugurated. This was the first tariff, since that of 1816, not affected by politics. It lasted-until 1857, and the country flourished marvellously under it.

From 1816, when protection was first resorted to, until today, tariff rates have been almost continually raised, mainly by votes of the agriculturists, misled by the manufacturers and politicians, influenced by the manufacturers' money. And a fact worth noting is that financial panics have come quick and furious. They came in 1818, and in 1825-26, in 1829-30, and so on, (see page 13). Sudden changes in our tariff rates have unvaryingly been followed by financial panics within a short period. Changes to lower rates have not brought panics so quickly as changes in the reverse direction.

Low tariff without protective features, maintained steadily, has been coincident with constantly increasing prosperity to the country at large: but most especially to the agriculturists. This is readily understood, for purchases of imported and manufactured goods and all outfit needed for the farmers' land and family can be made at low—and owing to the competition that always arises to supply a steady and natural market—lowering prices. Moreover, the settled prices prevailing throughout the country allow of assured calculations and precautions as to business ventures, and permit such a ratio to be established between expenses and income, that at the end of the fiscal year a profit, not a loss, may be counted upon.

This was the experience of our agriculturists during the second and last prosperous time of our farmers, 1846-60. During that period agriculture flourished; the tariff was low and there were only two panics, that of 1848,

and the one of 1857, and the first (a non-protective one) should not be considered as precipitated by the tariff of 1846, except that some few suffered briefly in readjusting themselves to the changed, (though better), condition of the new tariff. The vast majority of the nation reaped enormous benefits from the changes inaugurated.

The panic of 1857 was caused by over-activity in trade speculation, and over-banking, and the tariff of the same year was really passed to help avert the panic threatening. It had the contrary effect, it is believed, for it still further, of course, unsettled rates for goods, when prices were already unstable. But the point is to be noted that in reality tariff change followed practical panic in this instance rather than practical panic tariff change. The high protective war tariffs, beginning in 1860, and increased for war purposes and granted largely as an offset for those internal revenue taxes laid to carry on the war, have been continued as a body ever since, as is well known, despite the internal revenue taxes having been abolished except on whiskey and tobacco. It is equally well known that farming has grown less and less remunerative since 1860, and that the panics of 1864, 1873, and 1884 have been unfortunate culminations of almost unceasing financial discomfort, which has been most forcibly exemplified during the last two months. Even now the financial fabric is in unstable equilibrium, and this latest monstrosity—the McKinley Bill—imposing the highest tariff we have ever exacted—an average duty of 60 per cent., and coming when a panic was due, bids fair to hurry us into another and a terrible financial panic. If it does not do so, it will be because our crops are too bountiful to allow it, but it will at least have made the agriculturists and all buyers of other commodities than agricultural produce pay more for all purchases. It will bring no more money into their pockets, but it must take out considerably more. The people appreciate this. The nation's pocket nerve has been touched. This is the meaning of the recent election, it seems to the writer. But whether the impending danger can be averted even if a prompt, though wise and slow reversal of tariff policy can be forced by the next Congress is doubtful, for unrest and timidity have been evoked and require time to be allayed before easy and orderly business operations will in general be resumed, unless indeed bountiful crops here and demand abroad once again reverse the logic of the situation.

Certain it is that our tariff laws must interfere as little as possible with the natural law of demand and supply in making prices, or we must be content to suffer from the instability that artificiality always brings with it.

Our plain duty is to enact as speedily as possible a tariff that shall by small but continued changes cut down our protective duties and substitute non-protective duties until our tariff is for revenue only; for thus and thus only can the vast majority of the agriculturists buy what they need most cheaply, and so find that to purchase necessaries does not cost them more than the total of their sales; and our exports of produce, chiefly owing to agricultural prosperity, would increase, thus materially helping to build up our general business so that the other nations will have to pay us, in the gold we require for comfortable management of our business, the growing trade balances against them.

The rough table below suggests that sudden tariff changes have precipitated panics, which have come quickly if the change was to higher protective duties and somewhat slower if the change was to lower protective duties; that slow and well considered changes doing away with protective duties generally have not caused disturbances; and that agriculture has flourished in proportion as we approached tariff for revenue only. It has for obvious reasons required about one year for financial trouble to be shown by decrease in value of farm produce as evinced by wheat-flour exports.

Special conditions, such as excessive wheat corps here and deficiency abroad or special tariff favors to flour export, may even increase the amount exported despite an otherwise untoward effect of the new tariff upon farmers. I have selected flour exports as the article best reflecting the chief interest of the farmers, and at the same time the state of general business for manufacturing, transportation and such other branches as are concerned with it.

--- TARIFFS ,- They have all | | Condition of agriculture and | been designedly | | incidentally of general + protective | Panics. | business as suggested by export | save the one | | of wheat flour from 1790-1890. '- of 1846. +----- | Year. Barrels. Dollars. | | 1790 724,623 4,591,293 | | 1791 619,681 $3,408,246 \mid \mid 1792\ 824,464\ \mid \mid 1793\ 1,074,639\ \mid \mid 1794\ 846,010\ \mid \mid 1795\ 687,369\ \mid \mid 1794\ 846,010\$ 1796 725,194 | | 1797 515,633 | | 1798 567,558 | | 1799 519,265 | | 1800 653,056 | | 1801 1,102,444 | | 1802 1,156,248 | | 1803 1,311,853 9,310,000 | | 1804 810,008 7,100,000 | | 1805 777,513 8,325,000 | | 1806 782,724 6,867,000 | | 1807 1,249,819 10,753,000 | | 1808 263,813 1,936,000 | | 1809 846,247 5,944,000 | | 1810 798,431 6,846,000 ,- Practical | | 1811 1,445,012 14,662,000 | exclusion of | | ,- 1812 1,443,492 13,687,000 Say + all imports | | | 1813 1,260,943 13,591,000 1814 | through the war = | 1814 | + 1814 193,274 1,734,000 '- Prohibitory Tariff. | | '- 1815 862,739 7,209,000 | | ,- 1816 729,053 7,712,000 ,- Duties for six | | '- 1817 1,479,198 17,751,376 1816 + years @ 25% and | 1818 | ,- 1818 1,157,697 11,576,970 '- thereafter @ 20%. | | | 1819 750,669 6,005,280 | | | 1820 1,177,036 5,296,664 1818 ,- Duties 25% on | | | 1821 1,056,119 4,298,043 | Cotton and Woollens, | | + 1822 827,865 5,103,280 + and all duties | | 1823 756,702 4,962,373 | on Manufactured | | 1824 996,792 5,759,176 '- Iron increased. | 1825-26 | | 1825 813,906 4,212,127 | | | 1826 857,820 4,121,466 | | '- 1827 868,492 4,420,081 | | ,- 1828 860,809 4,286,939 1828 { Average duty of 50%. | | | 1829 837,385 5,793,651 | | + 1830 1,227,434 6,085,953 | | | 1831 1,806,529 9,938,458 | | '- 1832 864,919 4,880,623 ,- Compromise Tariff, | | ,- 1833 955,768 5,613,010 | gradual reduction | | 1834 835,352 4,520,781 | of duties from | | 1835 779,396 4,394,777 | 50% average until | | | 1836 505,400 3,572,599 1833 + in 1842 the average | 1836-39 | + 1837 318,719 2,987,269 | was 20%. But this | | | 1838 448,161 3,603,299 | was levied for | | | 1839 923,151 6,925,170 | Protection not | | | 1840 1,897,501 10,143,615 '- merely for Revenue. | | '- 1841 1,515,817

7,759,646 | | ,- 1842 1,283,602 7,375,356 1842 {Imposed higher duties. | | + 1843 841,474 3,763,073 | | | 1844 1,438,574 6,759,488 | | '- 1845 1,195,230 5,398,593 | | ,- 1846 2,289,476 11,668,669 ,- Imposed lower | | | 1847 4,382,496 26,133,811 | duties and these | | | 1848 2,119,393 13,194,109 1846 | were not for | | | 1849 2,108,013 11,280,582 + Protection purposes, | | | 1850 1,385,448 7,098,570 | they were simply | 1848 | + 1851 2,202,335 10,524,331 '- for Revenue. | | | 1852 2,799,339 11,869,143 | | | 1853 2,920,918 14,783,394 ,-Reduced Tariff | | | 1854 4,022,386 27,701,444 | rates on above | | | 1855 1,204,540 10,896,908 1857 + plan because of | | '- 1856 3,510,626 29,275,148 | redundant | | ,- 1857 3,712,053 25,882,316 '- prosperity. | 1857 | + 1858 3,512,169 19,328,884 | | '- 1859 2,431,824 14,433,591 ,- War Tariff | | | protection restored | | ,- 1860 2,611,596 15,448,507 1860 + as compensation for | 1864 | '- 1861 4,323,756 24,645,849 | Internal Revenue | | '- taxes. | | | | 1862 As above........ | | 1862 4,882,033 27,534,677 1864 As above....... | | 1863 4,390,055 28,366,069 | | ,- 1864 3,557,347 25,588,249 | | | 1865 2,641,298 27,507,084 | | | 1866 2,183,050 18,396,686 | | + 1867 1,300,106 12,803,775 | | | 1868 2,076,423 20,887,798 | | | 1869 2,431,873 18,813,865 ,- 10% reduction, but | | | 1870 3,463,333 21,169,593 | coffee and tea put | | '- 1871 3,653,841 24,093,184 1872 + on Free List and | | ,- 1872 2,514,535 17,955,684 | whiskey and tobacco | 1873 | | 1873 2,562,086 19,381,664 'taxes reduced. | | | 1874 4,094,094 29,258,094 | | | 1875 3,973,128 23,712,440 1875 ,- 10% reduction | | | 1876 3,935,512 24,433,470 '- above repealed. | | + 1877 3,343,665 21,663,947 | | | 1878 3,947,333 $25,695,721 \mid \mid \mid 1879\ 5,629,714\ 29,567,713 \mid \mid \mid 1880\ 6,011,419\ 35,333,197\ , \text{- Duties really raised} \mid \mid \mid 1881\ 1881 \mid 1881\ 1881\ 1881 \mid 1881\ 1881$ 7,945,786 45,047,257 | on class of goods | | '- 1882 5,915,686 36,375,055 | most used, but | | ,- 1883 9,205,664 54,824,459 | apparently lowered | 1884 | | 1884 9,152,260 51,139,695 1883 + the tariff, for | | | 1885 10,648,145 52,146,336 | it considerably | | + 1886 8,179,241 38,443,955 | reduced rates on | | | 1887 11,518,449 51,950,082 | many little used | | | 1888 11,963,574 54,777,710 '- classes of goods. | | '- 1889 9,374,803 45,296,485 | | 1890, - McKinley Bill | | ,- 1890 12,231,711 57,036,168 '- average of 60% duty. | | '-1891 11,344,304 54,705,616 | | 1892 15,196,769 75,362,283, - Free silver | | | and sudden | | 1893 16,620,339 75,494,347 1893 + ill-distributed | | 1894 16,859,533 69,271,770 -94 | and drastic tariff | | 1895 15,268,892 51,651,928 | reductions and | | 1896 14,620,864 52,025,217 '- insufficient revenue.| | | | 1897 14,569,545 55,914,347 1897 ,- | | 1898 15,349,943 69,263,718 | Tariff | | 1899 18,485,690 73,093,870 | disturbance | | 1900 18,699,194 67,760,886 | to | 1901 18,650,979 69,459,296 | higher | 1902 17,759,203 65,661,974 1903 | rates. | | 1903 19,716,203 73,756,404 | | | 1904 16,699,432 68,894,836 + The | | 1905 8,826,335 40,176,136 | propaganda | | 1906 13,919,048 59,106,869 1907 | for | | 1907 15,584,667 62,175,397 | keener | | 1908 13,937,247 64,170,508 | regulation | | 1909 10,521,161 51,157,366 | of | | 1910 9,040,987 47,621,467 | business. | | 1911 10,129,435 49,386,946 '- | | 1912 11,006,487 50,999,797 | | 1913 ,- Tariff reductions to | | 1913 11,394,805 53,171,537 | produce a revenue; | | 1914 12,768,073 62,391,503 | not on a protective | | + basis. The further | | | regulating of | | | business. | | '- The "World War." | | -----

The retarding or precipitating influence of a good or bad condition of agriculture upon the advent of a panic is also indicated.

The symptoms of approaching panic, generally patent to every one, are wonderful prosperity as indicated by very numerous enterprises and schemes of all sorts, by a rise in the price of all commodities, of land, of houses, etc., etc., by an active request for workmen, a rise in salaries, a lowering of interest, by the gullibility of the public, by a general taste for speculating in order to grow rich at once, by a growing luxury leading to excessive expenditures, a very large amount of discounts and loans and bank notes [Footnote: Our recent banking history has proved rather an exception to this law as far as bank notes are concerned, because of the obviously unusual cause of sudden and enormous calling in of government bonds, the basis of bank-note issue.] and a very small reserve in specie and legal-tender notes and poor and decreasing deposits.

On the other hand, the lowest point of depression following a panic is accompanied by the converse of the symptoms just enumerated.

Bank balance sheets reflect in cold figures the result of the above influences. Prices being high, and discounts and loans large in proportion to deposits, and having steadily increased for years, danger is near; further, when discounts and loans are not only large in proportion to deposits, having increased steadily for years, and then suddenly fallen off noticeably for a considerable time, only to increase again, danger is imminent.

On the other hand, a steady and radical reduction of loans and discounts, following a panic and extending until new enterprises are very scarce, till prices are very low, till there is wide-spread idleness among workmen, a decrease in salaries and in interest rates, when the public is wary and speculation dead, and expenditures are cut down as far as possible, may be taken to mean a rapid and continued resumption of every prosperous business: but if the above process is only partially performed, renewed trouble must result;—in other words, liquidation to really be helpful (to congested business) must be thorough.

A study of the first of the following tables, "National Banks of the United States," illustrates the above generalization. It is unnecessary to mention that 1878, 1884, and 1890 have been the last three panic years. But it is very necessary in studying this table, to bear in mind that its figures are taken from the standing of the banks at the first of the year, while the panics generally occurred later in the year: the last two, for instance in the second and fourth quarter, respectively. The third and fourth tables will give more exact figures in this connection. Table Two, dealing with State Banks, is given merely to round out our banking history as told in figures.

The increase or diminution of deposits of course reflects a confident and successful, or a panicky and impoverishing, state of general business.

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•					•		426 124 540	
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	•				•		6 1303 390 2	
							Mch. 1 956 49	
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							473 165 60	
							7.9 " 1880 Feb	
454 159	848 146	61 487 33.3 -	126 14.8 "	1881 Mch.13	1 1073 4	458 176 933	3 1567 494 3	31.5 - 140
15 " 188	2 Mch.11	1182 469 1	91 1036 1	696 514 30	0.3 - 146	14 " 1883 M	[ch.13 1249 49	90 196
1004 169	0 441 2	6.1 - 245 24.4	" *1884 Mc	h. 7 1321 5	515 209	1046 1770	449 25.3 - 275	5 26.2 "
1885 Mch.	10 1232	524 206 99	6 1726 49	94 28.6 - 236	5 23.6 "	1886 Mch. 1	1367 533 213	2 1152
1897 530	27.9 - 2	215 18.6 " 1	887 Mch. 4	1515 555	231 12	224 2010 4	495 24.6 - 291	23.7 "
1888 Feb.1	4 1584	582 246 125	51 2079 49	95 23.7 - 333	3 26.6 "	1889 Feb.26	1704 596 269	9 1354
2219 515	5 23.1 - 3	350 25.8 " *1	1890 Feb.28	1844 626	290 1	479 2395	551 22.2 - 365	24.6 "
1891 Feb.2	26 1927	662 316 148	33 2461 53	34 21.7 - 444	1 29.8 "	1892 Mch. 1	2044 679 33	0 1702
•				•			627 22.6 - 408	
•							1965 662 329	
•							669 25.4 - 318	
•							2152 628 334	
•					•		5 - 67 3. " 190	
•							3 3785 971 2	
							Feb. 6 3350 73	
•							1158 25.1 - 16	
							4071 814 63	
							01 21.3 - 348	
							4840 927 77	
							5. - 39 .73 "	
	•			•			031 927 5630	
							140 2.3 " 191	
							066 1012 7148	
•		•					-+++	+
MOIE:-IU	iese rigur	es are for the s	tanuny at th	e msi pari oi	ı me year	as murcated. T	rainc rears.	

TABLE NO. 2.

UNITED STATES TABLE OF BALANCE SHEETS. MILLIONS OF DOLLARS.

204 59 557 188 1208 301 1855 186 53 576 190 1307 332 1856 195 59 634 212 1398
343 1857_* 214 58 684 230 1416 370 1858 155 74 583 185 1422 394 1859 193 104
657 259 1476 401 1860 207 83 691 253 1562 421 1861 202 87 696 257 1601 429
$1862 \mid 183 \mid 102 \mid 646 \mid 296 \mid 1492 \mid 418 \mid 1863 * \mid 238 \mid 101 \mid 648 \mid 393 \mid 1466 \mid 405 \mid++$
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TABLE NO. 3.

UNITED STATES TABLE OF BALANCE SHEETS OF THE NATIONAL BANKS—QUARTERLY STATEMENT. MILLIONS OF DOLLARS.

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|NUMBER | |SURPLUS| |CIRCU- | ON | LEGAL | COUNTS| DUAL | OF | |AND UN- | YEAR |LATION | HAND
|TENDERS| AND | DEPOSITS| BANKS |CAPITAL|DIVIDED| | | | | LOANS | | | | | PROFITS| ----+------
MIN|MAX MIN|MAX MIN|MAX MIN| | | | | | | | 1865 | 66| 4| 72| 166| 183|1500 |393 |20 | 2nd Q| | | | | | | | | |
3rd "| | 18 | 189 | | | | | | 4th "|171 | | |487 | | | | | 1866 | | | | |500 | | | | 2nd "| 213|19 | 187 | 500 | | | | | 3rd "| | | | |
522|1644 |415 |71 | 4th "|280 | | | | | | | | 1867 | | |205 |603 |564 | | | | 2nd "| | 9| | |558 | | | | 3rd "| | | | |
"||||||4th ||295 ||||||1869 ||29 |||1617 ||426 ||116 ||2nd |||||657 ||580 ||||3rd ||||80 |||||
4th "| |48 | | | | | | | | 1870 | | | |686 |574 | | | | 2nd " | | |688 | 511 | 1648 | 430 | 124 | 3rd " | | 18 | 94 | 79 | |546 | | | |
4th ~"|296~|~|~|~501|~|~|~1871~|~|~|~725~|~|~|~|~2nd~"|~|~122~|~|~|~|~|~3rd~"|~|~13|~93|~|~1790~|458~|140~|~4th~"|318~|~1319~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|~1790~|
| 97 | | | | | 1872 | | | | 831 | 611 | | | | 2nd " | | | 122 | | | | | | 3rd " | | 10 | | | | 1940 | 479 | 147 | 4th " | 336 | | | | | 620 | |
| | 1873 * | | | | | | | | 2nd " | | 16|10 97|885 |656 | | | | 3rd " |339 | 19 | | 622 616 | 1976 | 491 | 153 | 4th " |341 | 33 |
92|944 | | | | | 1874 | | | 103 | | | | | | 2nd "| 21| | 836| 540| | | | 3rd "| | | 80|897 | 595|2027 | 493 | 173 | 4th "|
331| | |955 |682 | | | | | 1875 | | | | |695 | | | | 2nd "| | 8| |984 | |2087 |504 |182 | 3rd "| | | | | 618 | | | 4th " | 314 | |
70|||||---+*PANIC YEARS
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MILLIONS OF DOLLARS. ---+---+ | |SPECIE | | DIS- | INDIVI- |NUMBER | |SURPLUS| |CIRCU- | ON | LEGAL | COUNTS| DUAL | OF | |AND UN- | YEAR |LATION | HAND |TENDERS| AND | DEPOSITS| BANKS |CAPITAL|DIVIDED| | | | LOANS | | | ----+-----+ |MAX MIN|MAX MIN|MAX MIN|MAX MIN|MAX MIN|MAX MIN|MAX MIN|MAX MIN|| | | | | | | | 1876 | | | | | | 2089 | 499 | 184 | |2080|479||3rd"||21|||||167|4th"||66|||||1878||54|||||2nd"||29||881|604||||3rd"||1878||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1881||1 $\mid |625| |2053| |466| |165| |4th| ||303| || || || || ||1879| |41| |54| |826| |588| || ||2nd| || ||814| |2048| |454| |153| |3rd| ||3rd| ||3rd|$ |457 |159 | 4th | | 317 | 105 | |1040 | | | | | 1881 | | | 52 | |1000 | | | | 2nd | | 298 | 128 | | | 932 | 2132 | 463 | | 3rd | | | | | |1200 |1122 | | |191 | 4th "|315 | |68 | | | | | | 1883 | | | | | | | | 2nd " | 97 | | | | | | 3rd " | 304 | 115 | | | | | | 4th " | | | | | 1000|2501 |509 |196 | 1884 *| | |80 |1300 |1100 | | | | 2nd "| |109 | 75 | | |2664 |524 | | 3rd "| 289|128 |77 |1306 | | | |209 | 4th | | |167 | | 1200|1000 975 | | | | 1885 | | | | | | | | | 2nd | | |177 | |79 | | | | | | 3rd | | | |69 | 1200 | |2714 |527 |206 | 4th "| 268| | | |1100 | | | | 1886 | |171 | 62| | | | | | 2nd "| |149| |1470 |1152 |2852 |548 | | 3rd *PANIC YEARS


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2nd "| |239 | |2171 |1769 | | | |
3rd "| | | 113 | | | | | |
4th "|145 | 209| | | |3784 |689 |353 |
1893 | | | | | | | |
1st "| 149| | 90|2161 |1751 |3830 |688 |352 |
2nd "| | 186| | | | | | |
3rd "| 182| | | 1843| | | | |
4th "| |251 |131 | | 1451 | | |
1894 | | | | | | | |
1st "|174 |259 |146 | 1872 ||3777 |678 ||
2nd "||||||
3rd "| 189| | |2007 |1728 | | | |
4th "| | 218| 119| | | | |339 |
1895 | | | | | | | |
1st "| 169|220 | | 1965| |3728 |662 | |
2nd "|||||||
3rd "| | | | |1736 | | | |
4th "|185 | 196| 93|2059 | | | |340 |
1896 | | | | | | | | |
1st "| 187| 196| |1982 |1687 |3699 |653 | |
2nd "| | |118 | | | | |
3rd "|||||||
4th "|210 | | 110| 1893| 1597| | |342 |
1897 | | | | | | | |
1st "|202 | 233| | | 1669|3634 |642 | |
2nd "| | | 126 | | | | | |
3rd "||||||
4th "| 193|252 | 107|2100 |1916 | | |341 |
1898 | | | | | | | | |
1st "| 184| 271|120 | | |3594 |628 | |
2nd "|||||||
3rd "|||||||
4th "| | | 110|2214 |2225 | | |340 |
1899 | | | | | | | |
1st "| |371 |116 | | | |608 | |
2nd "| 199| | | | | | |
3rd "|||||||
4th "| | 314| 101|2496 |2522 |3602 | |363 |
1900 | | | | | | | |
1st "| 204| 339| 122| | | | | |
2nd "|||||||
3rd "|||||||
4th "| | |145 |2706 |2623 |3942 |632 |403 |
1901 | | | | | | | |
1st "| 309|399 | | | | | | |
2nd "|||||||
3rd "| | | 164 | | | | |
4th "| | 369| 151|3038 |2964 |4291 |665 |448 |
1902 | | | | | | | |
1st "| 309| | | | | | |
2nd "| 309| |164 | | | | | |
3rd "|||||||
4th "| | 366| 141|3303 |3209 |4666 |714 |516 |
1903 | | | | | | | |
1st "| 335| | | | | | |
2nd "| | |163 | |3200 | | | |
3rd "|||||||
4th "| | 378| 142|3481 | |5118 |758 |564 |
 MILLIONS OF DOLLARS.
     _+__-+
   | |SPECIE | | DIS- | INDIVI- |NUMBER | |SURPLUS|
    |CIRCU- | ON | LEGAL | COUNTS| DUAL | OF | |AND UN-|
YEAR |LATION | HAND |TENDERS| AND | DEPOSITS| BANKS |CAPITAL|DIVIDED|
```

|MAX MIN|MAX MIN|MAX MIN|MAX MIN|MAX MIN|MAX MIN|MAX MIN|

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1904 | | | | | | | |
1st Q| 380| 453| | | | | | |
2nd "|||||||
3rd "| | | 169 | | | | | |
4th "| |504 | |3772 |3707 |5477 |776 |594 |
1905 | | | | | | | |
1st "| 424| |178 | | | | |
2nd "| | | 157| | | | |
3rd "| |495 | | | | | |
4th "| | 460| |4016 |3889 |5833 |808 |632 |
1906 | | | | | | | |
1st "| 498|492 |175 | | | | | |
2nd "| | | | | | | |
3rd "|||||||
4th "| | 459| 152|4366 |4289 |6199 |847 |687 |
1907 | | | | | | | |
1st "| | | 173 | | | | | |
2nd "| 543| | | | | | |
3rd "|||||||
4th "| |531 | 151|4678 |4819 |6625 |901 |749 |
1908 | | | | | | | |
1st "| | | | | | | |
2nd "| | |192 | | | | |
3rd "|||||||
4th "| 599|680 | |4840 |4720 |6865 |921 |779 |
1909 | | | | | | | |
1st "| | |198 | | | | | |
2nd "| 615| | | | | | |
3rd "|||||||
4th "| |694 | 176|5148 |5120 |7006 |953 |825 |
1910 | | | | | | | |
1st "| 667| | | | | | |
2nd "|||||||
3rd "|||||||
4th "| |672 | 169|5467 |5304 |7204 |1004 |894 |
1911 | | | | | | | |
1st "| 680| | 168| | | | | |
2nd "| | | | | | | |
3rd "| | | 185 | | | | | |
4th "| |761 | |5663 |5536 |7328 |1026 |930 |
1912 | | | | | | | |
1st "| 704| | | | | | |
2nd "| |769 |188 | | | | | |
3rd "|||||||
4th "| | | |6058 |5944 |7420 |1046 |969 |
1913 | | | | | | | |
1st "| 717|749 | | | | | | |
2nd "| | |189 | | | | |
3rd "|||||||
4th "| | | |6260 |6051 |7509 |1059 |1007 |
1914 | | | | | | | |
1st "| 720| |201 | | | | | |
2nd "| |792 | |6357 |6111 |7493 |1057 |1003 |
3rd "|1018 | 746| | | | | |
4th "| 848| 534| 128| | |7581 |1065 |1007 |
1915 | | | | | | | |
1st "| 746| 591| 127|6499 |6348 |7599 |1066 |1012 |
     _+___+
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The adage "buy cheap and sell dear," or its practical equivalent—so scary and imitative are investors—*Buy during the last of a selling movement and sell during the last of a buying movement,* resolves itself, we venture to repeat, into: *Buy when the decline caused by a panic has produced such liquidation that discounts and loans, after steady and long-continued diminution, either become stationary for a period or else increase progressively coincident with a steady increase in available funds; and sell for converse reasons.*

These conclusions are also reached by our author through analyses of the Financial History of England, France, Prussia, Austria, etc. These I omit as unnecessarily wearisome to the reader since I give that of our own country. However, I will here quote the following: "What must be noted is the reiteration and sequence of the

same points (faits) under varying circumstances, at all times, in all countries and under all governments," and also this table showing all the panics and their practical coincidence in the past eighty-five years, in France, England, and the United States.

```
France England United States
  1804 1803
  1810 1810
  1813-14 1815 1814
  1818 1818 1818
  1825 1825 1826
  1830 1830 1829-31
  1836-39 1836-39 1837-39
  1847 1847 1848
  1857 1857 1857
  1864 1864-66 1864
          1873 1873
  1882 1882 1884
(a 1889-90 (a 1890-91 1890-91
p 1894 p 1894 1893-94
p 1897 p 1897 1897
r 1903 r 1903 1903
o 1907 o 1907 1907
x 1913 x 1913 1913
m m
a a
t t
е е
11
y) y)
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Truly these thirteen panics in the three countries have been practically simultaneous and one common cause must have originated them. The only cause common to all was overtrading to such an extent that neither credit nor money were to be had, so that a forced liquidation or panic inevitably ensued.

The above table effectually does away with the theory that new tariffs are directly productive of panics. For most certainly new tariffs did not occur in England, France, and the United States just before or during all the panic years enumerated, and yet, practically simultaneously in free-trade England, high-protection France, and sometimes low-tariff, sometimes high-protection United States have panics occurred for eighty years.

But, as I have shown in a note attached to this Introduction, a new tariff or a general change of duties is apt to precipitate a panic, on account of the unsettling of business, and that the consequent shaking of credit adds its quota to the forces finally culminating in a panic cannot be doubted. As a matter of history with us, substantially new tariffs have always happened to be the immediate forerunners of a panic, and this I believe to be true in the case of other countries.

Why is this? Is it not because the people instinctively turn to tinkering at and changing their chief tax—the tariff—whenever they as a whole need financial relief; and have we not shown that such relief is needed almost every ten years, when the overtrading, inseparable from the development of all thriving communities has made the call for credit impossible to grant?

A new tariff may defer, or hurry, or, occurring simultaneously, will intensify a panic, but it may not hope to avert one when due: yet if its changes be very gradual, fixed and long predicted, and of a nature to bring about or confirm a judicious tariff for revenue only, they will materially help to put business on so firm and sound a basis that recovery from the inevitable, and approximately decennial panics, will be wonderfully expedited. Thus a new tariff is a quite accurate forewarning of a panic, and is also to no inconsiderable extent a contributory cause. (See foot-note on page 5, *seq.*, *Interrelations of Panics, Tariffs, and the Condition of Agriculture*, etc.; and especially what is said of the panic of 1848, on page 10.)

M. Juglar has fully analyzed the three phases of our business life into Prosperity, Panic, and Liquidation, which three constitute themselves into the business cycle, that for forty years past (that is, since the present Bank of England Act, and practically since that of the Law governing the Bank of France, both of which then increased the required specie reserve) has been of about ten years. These ten years may be apportioned roughly as follows: say, Prosperity for five to seven years; Panic a few months to a few years, [Footnote: The panic after 1873 is the only one I know extending to anything like the length it attained. This may be ascribed to the immense development and consequent speculation, and to the inflation of the currency coming after the period about the Civil War.] and Liquidation about a few years.

I have already pointed out the signs of prosperity, of panic, and of liquidation, but in view of existing conditions perhaps it may be well to restate here the quite familiar fact that the completion of liquidation that precedes the beginning of another period of prosperity is characterized by lack of business, steady prices, and a

marked growth in available banking funds.

[The various tables spread through this pamphlet are fully explained by their headings and the text.]

In conclusion I wish to express my thanks for the courtesy M. Juglar has extended me, and to state my appreciation of the motives, painstaking patience, and undoubted originality he has shown in explaining and executing so faithfully and with such genius a most laborious and yet spirited work. It is only justice that such an achievement should have been awarded a prize by the French Institute (Academy of Moral and Political Sciences) and have gained for M. Juglar the Vice-Presidency of the "Society for the Study of Political Economy."

DeCourcy W. Thom.

Wakefield Manor.

A HISTORY OF PANICS IN THE UNITED STATES CONSIDERED WITH SPECIAL REFERENCE TO AMERICAN BANKS.

The English Colonies soon after their settlement issued paper money. The first was Massachusetts, which issued it even before her independence, in 1690, to obtain funds in order to besiege Quebec.

This example was followed to such an extent that it caused a marked speculation in favor of hard money, varying according to the quantity of notes in circulation. In 1745, after a successful campaign against Louisburg and the taking of that fortress, two million pounds of paper money were issued, which step decreased its value. When liquidation occurred these paper pounds were not worth 10 per cent. of their face value.

The War of Independence obliged Congress to issue three million of paper dollars. This amount increased to \$160,000,000, so that Congress declared, in 1779, that it would not issue more than \$200,000,000. Notwithstanding this guaranty, notwithstanding the forced and legal rating conferred by this enactment, notwithstanding the war spirit, it depreciated; and in 1779 it was necessary to decree that, disregarding its normal value, it should be taken at its face. In 1780 it was no longer taken for customs dues. In 1781 it had no rating and was not even taken at 1 per cent. of its face value.

Between 1776 and 1780 the issue of paper money increased to \$359,000,000.

BANK OF NORTH AMERICA.—In 1781 Mr. Morris, Treasurer, persuaded Congress to form a bank (the Bank of North America) with a capital of \$10,000,000, of which \$400,000 should be turned over to help the national finances. The capital was too insignificant and the course of politics too unpropitious to accomplish this end. However, the example encouraged the States to take up their paper money. Upon the adoption of the United States Constitution the issuing of paper money ceased, and gold and silver were the only means of circulation. Thence arose great embarrassment for the Bank of North America, which, hampered by its loans to the Government, increased its note circulation to an enormous proportion. The ebb of paper through every channel finally aroused the public fears, and people refused the notes. Every one struggled to obtain metallic money, hence it became impossible to borrow, and bankruptcy followed. Such was the, excitement that the Philadelphians as a body demanded and obtained from the Assembly of Representatives a withdrawal of the charter; but the Bank, relying upon Congress, continued until March 17, 1787; succeeded even in extending its charter fourteen years; and later obtained a second extension, limited, however, to Pennsylvania.

The difficulty experienced in the manufacture of money led Mr. Hamilton, Secretary of the Treasury, to propose to Congress in 1790 the founding of a National Bank. After some doubts as to the power of Congress, it was authorized. It began operations in 1794, under the title of "Bank of the United States," with a capital of ten millions, eight millions being subscribed by private individuals, and two millions by the Government. Two millions of the first sum were to be paid in metallic money, and six millions in 6 per cent. State bonds; the charter was to run till March 4, 1811. It seemed to be a good thing for the public and the stockholders, for during twenty-one years it paid an average of 8 per cent. dividends. In 1819 the question of renewing its privileges came up, the situation being as follows:

ASSETS, EIABIETTIES.
6 per cent. Paper \$ 2,230,000 Capital Stock \$10,000,000

Cash 10,000,000 Circulation 4,500,000

Loans and Discounts 15,000,000 Deposits 8,500,000

The profits from the Bank, the prosperous state of the country, and the increase of productions led people to think that the issuing of paper money caused it all; seduced by this alluring theory the "Farmers' Bank" was founded in Lancaster in 1810, with a capital of \$300,000. Others followed; such was the mania that the Pennsylvania Legislature was forced to forbid every corporation to issue notes. Despite this preventive message the excitement rose so high that companies, formed to build harbors and canals, also put notes into circulation; in this way the law was eluded.

From 1782 to 1812 the capital of the banks rose to \$77,258,000; upon the 1st of January, 1811, there were already eighty-eight banks in existence. Until the declaration of war (June, 1812), the issuing of notes was always made with the intention of redeeming them, but the over-issue soon became general, and depreciation followed. The periodical demands for dollar-pieces for the East Indian and Chinese trade were warnings of the over-speculations on the part of those companies whose members were not personally liable. Traders, who through their notes or their deposits had a right to credit with the banks, did not hesitate to ask for \$100,000, whereas, formerly they would have hesitated to ask for \$1,000. The war put a stop to the exportation of precious metals, which, in the ordinary course of things, limits the issue and circulation of paper. The upshot of this was to redouble the note issue, each one believing its only duty was to get the largest amount into circulation. Loans, and enormous sums of money, were distributed above all reason among individuals and among the States. The increase of dividends and the ease of obtaining them extended the spirit of speculation in certain districts, and especially among those who owned land. The remarkable results shown by the Bank of Lancaster, the "Farmers' Bank," which, by means of an extraordinary issue of notes, had yielded as much as 12 per cent. and piled up in capital twice the amount of its stock, caused it to be no longer thought of as a bank intended to assist trade with available capital, but as a mint destined to coin money for all owning nothing at all. Led by this error, laborers, shopkeepers, manufacturers, and merchants betook themselves to quitting active occupations to indulge in golden dreams. Fear alone restrained some stockholders connected with the non-authorized companies, and led them to seek for a legal incorporation.

In Pennsylvania, during the session of 1812, an act was passed authorizing twenty-five banks, with a capital of \$9,000,000. The Executive nevertheless refused to ratify it, and returned it with some very well-deserved comments. In a second debate the first resolution was rescinded by a vote of 40 to 38. In the following session the proposition was renewed with more vigor, and forty-one banks with a capital of \$17,000,000 were authorized by a large majority; the representations of the Executive proved useless, and they immediately entered upon their duties with an insufficient capital.

To discount their own stock was a soon-discovered method. They thus increased the amount of notes, which depreciated in comparison with hard money, and dissipated on all hands the hope of exchanging with it.

In the absence of a demand from abroad for hard money, the demand came from within our own borders.

The laws of New England, which were very severe upon the banks, had placed a penalty of 12 per cent. upon the annual interest payments of those persons who did not pay their notes. The natural result was a difference of value between New England and Pennsylvania, which measured the depreciation caused by paper in the latter district. As remittances on New England could only be made in hard money, the equilibrium of the banks was disturbed; they were not able to respond to the demands for redemption, and a suspension of payments by the banks of the United States, except those of New England, took place in August and September, 1814.

THE PANIC OF 1814.—An agreement took place at Philadelphia between the bank and the chief houses allied with it to resume payments at the end of the war.

Unhappily, the public did not demand the accomplishment of this promise at the time fixed, and the banks, led on by the thirst of gain, issued an unprecedented amount of bank notes. The general approbation brought about a still further increase in their number: the bank notes of the Bank of Philadelphia were at a discount of 80 per cent.; the others at 75 per cent, and 50 per cent., and metallic money disappeared to such an extent that paper had to be used to replace copper coin. The depreciation of fiat money raised the price of everything; this superficial occurrence was looked upon as a real increase, and gave rise to all the consequences that a general inflation of value could produce. This mistake on the subject of artificial wealth made landed proprietors desire unusual proceeds. The villager, deceived by a demand surpassing his ordinary profits, extended his credit and filled his stores with the highest-priced goods; and importations, having no other proportion to the real needs than the wishes of the retailers, soon glutted the market. Every one wished to speculate, and every one eagerly ran up debts. Such was the abundance of paper money that the banks were alarmed lest they could not always find an investment for what they manufactured. It thus happened that it was proposed to lend money on collateral, while the greatest efforts to bring about its redemption were being made. This state of things lasted till the end of 1815, when it was recognized that the paper circulation had not enriched the community, but that metallic money had enhanced.

The intelligent portion of the nation comprehended that even where the estimated value of property had been highest, the true welfare of society had diminished. They learned too late the baleful effects of this circulation of paper money; the greater part of the States and cities had nothing to show for it.

A new class of speculators then appeared, trying to pass these worthless bank notes: forgers of paper money became more active. In the midst of this disorder a National Bank, which should afford a solid basis for the paper circulation, was considered. Influenced by these difficulties, and in hopes of remedying them, the Secretary of the Treasury proposed to Congress, in September, 1814, a few days after suspension, to found a

national bank, in order to re-establish metallic circulation, an end which the State banks had failed to accomplish.

This project, which lent the national credit to the capital of the bank, was antagonized by a good many members who exaggerated its consequences; at the same time that they took more or less important sums in bank notes, or borrowed from the banks upon the nation's guaranty, in order to re-establish the public credit and to obtain means for prolonging the war.

CAUSES OF THE PANIC OF 1814.—The bank directors laid the blame upon the blockade of the ports, which, interfering with, indeed even preventing, the export of products, occasioned the outflow of the metals. The national loans to carry on the war also had their influence. From the beginning of hostilities until 1814 they increased to \$52,848,000, distributed as follows: Eastern States, \$13,920,000; New York, Pennsylvania, Maryland, and District of Columbia, \$27,792,000; Southern and Western States, \$11,186,000.

Nearly all of this was advanced by the cities of New York, Philadelphia, and Baltimore. The banks made advances beyond their resources, augmenting their circulation in consequence. [Footnote: The cause of the crisis, according to the Committee of the Senate, was the abuse of the banking system; the great number and bad administration of the banks; and their speculations designed to advance their stock, and to distribute usurious dividends. When the Bank of the United States saw the danger that menaced it, it reduced its discounts and circulation. The circulation of the country banks fell from \$5,000,000 to \$1,300,000, and the total circulation from \$10,000,000 to \$3,000,000.

Increase and Decrease Circulation in Pennsylvania.

City Banks. Country. Total. 1814 \$3,300,000 \$1,900,000 \$5,200,000 1815 4,800,000 5,300,000 10,100,000 1816 3,400,000 4,700,000 8,100,000 1817 2,300,000 3,800,000 6,100,000 1818 1,900,000 3,000,000 4,900,000 1819 1,600,000 1,300,000 2,900,000

Number

of Banks. Capital. Circulation. Specie.

1811 ... 88 \$52,000 00 \$28,000 00 \$15,000 00

1815 ... 208 82,000 00 45,000 00 17,000 00

1816 ... 246 89,000 00 68,000 00 19,000 00]

From the 1st of January, 1811, to the 1st of January, 1815, one hundred and twenty new banks were registered, thus raising their capital to more than \$80,000,000; this increase took place during a war that entirely did away with foreign trade. The expenses of the war declared against Great Britain in June, 1812, were defrayed by notes issued by the banks of the various States. Six million dollars were obtained from them in 1812, in the following year, 1813, twenty million, and then fifteen million in exchange for twelve million of Federal stock, issued at the price of \$125 face for every \$100 paid in. Until January 1, 1814, in order to avoid taxation, Treasury bonds were issued in addition to what was contributed by the banks.

Up to this time no account of their administration had been rendered, but now Mr. Bland, a Maryland representative, called attention to the fact that all their operations seemed veiled from the public. Unfortunately we have been unable to find a statement of the discounts.

The suspension of specie payments differed with the corresponding state of affairs in England, inasmuch as it was not general, and, since each State was independent, the depreciation varied. It became very difficult to circulate paper, and the Government was again obliged to issue Treasury bonds, bearing 6 per cent. interest. In February, 1815, peace having been proclaimed, it was hoped that the banks would resume specie payments. There was no sign of it. The re-establishment of peace merely made some of the legal regulations seem less pressing upon the banks.

In the middle of May, 1815, the first English vessel arrived, and business became very active again. In May, June, and July it might have been said "This is the golden age of commerce." Discounts of unsecured paper were easy, and it was not an unusual occurrence to have notes of \$60,000 offered.

The banks had authorized a suspension of specie payment in order to force the issue of bank notes, and to stimulate trade, although Mr. Carey pretends that no over-trading had taken place. He blames them for having restricted their loans in October and November, thus producing a decline in prices; and the necessity of cutting down credits came about, according to him, from the speculations in National securities.

Six Philadelphia banks with a capital of \$10,000,000 held \$3,000,000 in Government stock.

On the 15th of February, 1815, when scarcely through with all this confusion, an effort was made to reestablish for the second time a United States Bank. It was authorized on the 10th of April, 1816, the Act

permitting the formation of a Company, with a capital of \$35,000,000, divided into 350,000 shares of \$100 each, of which the Government took 70,000 shares and the public 180,000 shares. These last were payable in \$7,000,000 of gold or silver, of the United States of North America, and \$21,000,000 in like money, or, in the funded debt of the United States either in the 6 per cent. Consolidated Debt at par, the 3 per cent. at 65, or the 7 per cent. at 106-1/2 per cent.; upon subscription \$30 was payable, of which at least \$5 had to be in gold or silver; in six months after, \$35, of which \$10 had to be in metal, and twelve months after the same amount was to be paid in the same manner. The directors were authorized to sell shares every year to the amount of \$2,000,000, after having offered them at the current price to the Secretary of the Treasury for fourteen days. The Government reserved the right to redeem the debt at the subscription price.

The charter, made out in the name of the president, ran until March 3, 1836. There were twenty-five directors of the concern, five of whom were appointed by the President of the United States with the consent of the Senate, and not more than three by the State; the stockholders chose the others.

The corporation could not accept any inconvertible property, or any farm-mortgage, unless for its immediate use, either as security for an existing debt, or to wipe out a credit.

It had no right to contract any debt greater than \$35,000,000, more than its deposits, unless by special act; the directors were made responsible for every violation, and could be sued by each creditor. They could only deal in gold and silver exchange, and not in other country securities which could not be realized upon at once. The Bank could purchase no public debt nor exceed 6 per cent. interest on its discounts and loans. It could lend no more than \$500,000, to the United States, \$50,000, to each State, and nothing to foreigners. It could give no bill of exchange greater than \$5,000; bank notes less than \$100 were to be payable on demand, and greater sums were not allowed to run longer than sixty days. Two settlements were to take place every year.

Branches were to be established upon demand of legislative authorities, wherever 2,000 shares of stock were subscribed for.

There were to be no bank notes less than \$5.00, and every bill of exchange, or bill payable at sight, was to be receivable by the public Treasury.

The duty of the Bank was especially to pay out and receive the public money, without profit or loss. It was to serve as agent for every State contracting a loan; the cash belonging to the United States was to be deposited at the Bank whenever the Secretary of the Treasury did not dispose of it otherwise, in which case he was to notify Congress.

Neither the Directory nor Congress could suspend payment of the bank notes, discounts, or deposits: such refusal carried a right to 12 per cent. interest. In exchange for this charter the Bank was to give \$1,000,000, to the Government in three installments.

The charter was exclusive during its life, excepting in the District of Columbia, where banks might be authorized, provided their capital did not exceed \$6,000,000. The Bank did not open at once, for it sent an agent to Europe to look up bullion. Between July, 1817, and December, 1818, it thus procured \$7,311,750, at an expense of \$525,000. On the 20th of February, 1817, it was decided that, excepting gold and silver and Treasury notes, no notes would be received at the Government Treasuries, save such as were payable to the banks in hard money. Notwithstanding this discrimination the Banks decided not to resume specie payment until the 1st of July, 1817.

In the meantime an immense speculation had taken place in its stock, which was compromising for the Bank and for the credit of its Directory, because several of its Directors appointed by the Government took part in it. For example, it became customary to loan a very large amount of money on the Bank's own stock, as much as \$125 on each share of \$100. Thus more than the purchase price was loaned upon them: in furnishing the means of paying for them by credit, speculation was aroused, and on the 1st of September, 1817, the market price advanced to \$156.50, at which rate it continued until December, 1818, when it fell to \$110.

At last the public perceived that the excessive issue depreciated the bank-note circulation, and that a greater shrinkage was imminent.

An office for the payment of bank dividends was opened in Europe, so as to increase the price of the stock and the speculation in it through this facility, rather than for the permanent benefit of the institution. Let us note here the short-sightedness of the Directors, who thought they would stem the depreciation of their means of payment by persuading all the banks to declare what was not true, that the bank notes were worth par.

On the 21st of February, still aiming at the same end, they announced the resumption of specie payment. The State Banks, remembering the embarrassment of the public, which for two years had paid an exchange of 6 per cent., persuaded themselves that few people would dare to ask for large sums. They hoped to come to an understanding and to cause the acceptance of a promise to pay upon a designated day.

We say "a promise to pay," for this was not a serious proposition, inasmuch as foreign money and that of the United States had enjoyed a higher market value for a long time.

The depreciation of the bank notes might result just as well, from the fear of the public's enforcing its rights, as from a refusal of the banks to make good their promises. This understanding was not, properly speaking, a resumption of specie payment, but rather a kind of humbug.

In January the banks of New York, Philadelphia, Baltimore, Richmond, and Norfolk decided to resume specie payment on the 20th of February, provided the balance showing against them was not demanded by the Bank of the United States before discounts became \$2,000,000, at New York, as much in Philadelphia, and \$1,500,000 in Baltimore; and these conditions were accepted.

The discount line of the Bank of the United States was thus greatly increased; it grew from \$3,000,000 on the 27th of February to \$20,000,000 on the 30th of April; to \$25,000,000 on July 29th, and to \$33,000,000 on the 31st of October. The Bank imported much metallic money, redeemed its notes and those of its branches without distinction; the notes of its Eastern and Southern branches were returned as soon as those of the North had paid them, and they were newly issued; consequently eighteen months after this practice began the cash boxes of the North were drained of their capital, the length of discount was reduced, and 5 per cent. was charged for sixty days. On April 1, 1819, only \$126,000, cash remained on hand, on the 12th only \$71,000, remained, \$196,000, was owed to the city banks.

Scarcely had the Directors of the National Bank succeeded in replacing the paper issued but not redeemed by their bank-note circulation, being fully aware from their own experience that the circulation could only reach a limited amount, than they inundated the market with it, and in a few months all reductions vanished. In this way the market price shortly resumed its former quotation, and all the difficulties reappeared. This imprudent management necessarily threw one portion of the public into debt, from which it had saved itself; and the other portion into the vortex which it had avoided. The critical moment was delayed somewhat, but the day of reckoning was near.

THE PANIC OF 1818.—The Bank at last discovered that it had passed the bounds of safety through its issues, and that it was at the mercy of its creditors. It saw firstly, on October 21, 1818, the payment of part of the State of Louisiana's foreign debt withdraw large sums, and then Chinese, Indian, and other goods reach fancy prices because of the depreciation of the circulating medium. All these influences produced a demand for specie payment which the Bank as a public one was obliged to meet, under penalty of 12 per cent. interest, and without power to avail itself of the same accounts as the State banks.

From this moment it thought fixedly of its safety and of how to reduce its notes; this reduction obliged the other banks to imitate it, and a new crisis shook trade in the end of October, 1818. During one year the National Bank furnished from its cash boxes more than \$7,000,000, and the others more than \$3,000,000.

The State banks naturally followed the same policy in their connection, and their circulation became reduced as follows:

It will give a faint idea of the excessive issue to state that the only difficulty was the impossibility of examination by the President and Cashier, and of their jointly signing the notes, which was made obligatory by the regulations; hence they asked power from Congress to grant this right to the Presidents and Cashiers of the Branch Banks. This facility was refused, but Congress granted a Vice-President and a Vice-Cashier to sign. With these issues and a simple capital of \$2,000,000, the Bank discounted as much as \$43,000,000, during one year, in addition to \$11,000,000, to \$12,000,000, loaned upon public securities.

In order to carry on its operations, it exchanged in Europe a portion of its funded debt for gold and silver, and bought specie in the West Indies. From July, 1817, to July, 1818, it imported \$6,000,000, of specie, at an expense of \$500,000, but the excessive issue of paper drained away the cash more rapidly than the Bank could import it. In the face of this hopeless struggle, in July, 1818, it entirely changed its course and reduced its discounts, and 10 per cent. premium was then paid for cash, and the reduction of nearly \$5,000,000, in the discount line in three months only had a disastrous effect, while at the same time they would only receive for redemption the notes issued by each Branch Bank: hence general embarrassment arose, and as the Bank of the United States was withdrawing cash from the local banks, Congress wished to forbid the exportation of gold and silver. The committee appointed on the 30th of November, 1818, to examine the affairs of the Bank concluded that it had violated its charter:

- 1. In buying \$2,000,000, of the Public Debt.
- 2. In not requiring from the purchasers of its stock the payment of the second and third instalments in cash, and in the Public Debt of the United States.
 - 3. In paying dividends to purchasers of its stock who had not entirely paid up.
 - 4. In allowing voting by proxy to a greater extent than the charter permitted.

Upon receipt of the report the Governor fled, and the shares fell to \$93. In 1818 the speculation was so wild that no one failed on account of a smaller sum than \$100,000. A drawing-room that had cost \$40,000, and a bankrupt's wine-cellar estimated to have cost \$7,000, were cited as instances of the general prodigality. The Senatorial Committee of Inquiry declared that the panic imposed ruinous losses upon landed property, which had fallen from a quarter to even a half of its value. In consequence forced sales, bankruptcies, scarcity of money, and a stoppage of work occurred. House-rents fell from \$1,200, to \$450; the Federal stock alone held its own at 103 to 104.

On the 13th of December, 1819, a Committee of the House of Representatives reported that the panic extended from the greatest to the smallest capitalists. It concluded by demanding the intervention of the legislative power to restrain the corporation, which, spreading its branches throughout the Union had inundated it with nearly \$100,000,000, of new circulating medium. Those who unfortunately owed money lost all the fruit of long work, and skilled laborers were obliged to exchange the shelter of their old homes for the inhospitable western forests. Forced sales of provisions, merchandise, and implements were made, greatly below their purchase price. Many families were obliged to limit their most necessary wants. Money and credit were so scarce that it became impossible to obtain a loan upon lands with the securest titles; work ceased with its pay, and the most skilful workman was brought to misery; trade restricted itself to the narrowest wants of life; machinery and manufactories lay idle; the debtor's prison overflowed; the courts of justice were not able to look after their cases, and the wealthiest families could hardly obtain enough money for their daily wants.

The Committee appointed by the Senate of Pennsylvania reported on the 29th of January, 1820, that, to prevent a bad administration of the banks, it was necessary:

- 1. To forbid them to issue more than half of their capital in notes.
- 2. To divide with the State all dividends in excess of 6 per cent.
- 3. Excepting the president, that no director should be re-appointed until after an interval of three years.
- 4. To submit to the State's inspection the bank's business and books.

From this period excessive profits and losses ceased on the part of the American banks. The change of directory of the National Bank, called forth by the unfortunate experience of 1818, was the beginning of a very fortunate epoch. As was always the case, business affairs resumed their usual course when liquidation ceased. Among the various causes assigned for the panic, the increase of import duties had to be pointed out, and the decrease of the Public Debt which was reduced between 1817 and 1818 more than \$80,000,000. It was impossible to turn any portion of the public deposits in proper time either into Federal stock or such other forms of value as its creditors might demand, without staking or breaking down any respectable institution whatever. But these seem to be only secondary causes.

Panic of 1825 to 1826.—In 1824 in Pennsylvania there was a new rage for banks, and in 1825 there was a repetition of the marvellous days of 1815. American banking bubbles have always been exactly similar to the English South Sea bubble, and to Law's bank in France. In July, after an advance dating from 1819, there was a reaction, a panic, and liquidation. Here we cannot point out any of the causes which we have indicated above; the growth of trade and the exaggeration of discount sufficiently explain the difficulties of the situation.

In Pennsylvania in 1824 a bill was passed re-establishing the charters of all the banks which had failed in 1814. In New York they thought of banks alone; companies with a capital of \$52,000,000 were formed. Ready money had never been so abundant, if we can judge of it by the amount of subscriptions and the great speculations in stocks.

Three millions were subscribed to the "New Jersey Protection Company" in one day. But in July, when the decline on the London market was reported, the want of hard money forced itself into notice. Exchange on England rose from 5 per cent. to 10 per cent.; the discount on New Orleans notes, from 3 per cent. became 50 per cent., and on the 4th of December it had fallen back to 4 per cent. What fluctuation! What disasters!

Mr. Biddle, the President of the United States Stock Bank, said that the crisis of 1825 was the most severe that England had ever experienced, superinduced as it was by the wild American speculation in cottons and mines. Cotton cloth fell from 18 to 13 cents per yard; and out of 4,000 weavers employed in Philadelphia in 1825 not more than 1,000 remained. The reaction of liquidation was experienced in 1826, and from 1827 money was abundant.

EMBARRASSMENT OF THE LOCAL BANKS IN 1828 TO 1829.—Is it necessary to mention these embarrassments? The trouble of 1828 affected only the local banks and not at a11 those of the United States. The chief cause was the Bank of the United States' increase of circulation from August, 1822, to August, 1828. From \$5,400,000 it had become \$13,000,000 without adding anything to the circulation, merely displacing an equal amount of local bank notes through drafts of branches that it put into circulation. These branch banks' drafts were in form of bank notes, signed by the chief employees of the branches, drawn, it might be, on each other or on the main bank. A great issue of paper was thus brought about; without this roundabout method it would have been impossible to have forced the issue of the notes from the mere physical inability of the president and cashier to sign so large a number. Congress had always refused to delegate this power to any other persons; in consequence of this practice the inevitable result occurred in 1828, as might have been foreseen, and a conflict between notes of the Bank of the United States and that of the local banks occurred.

These drafts circulated everywhere; the branch banks received them on deposit, but did not redeem them: hence it was necessary to guard against panic by keeping hold of cash. This course increased the issue of the Bank of the United States, and of the local banks which discounted the paper of the central bank as if it were so much cash. The local banks, then, whose paper did not widely circulate, exchanged their bank notes for drafts, thus reducing the amount of circulation of the first, increasing that of the central bank, and hence that of the total issue of its bank notes; the local banks continued to exchange their paper with its narrow and limited circulation for drafts of this latter, which passed everywhere.

There occurred, then, in 1828 and 1829 an accidental and very brief scarcity of cash, whose cause we have just indicated; but since the second half of the year difficulties arising from metallic circulation had disappeared.

PANIC OF 1831.—The course of business, having scarcely suffered a stoppage, continued until 1831, and not till then did The Bank, being the agent of the Treasury and having \$11,600,000 on deposit, would have been forced to become a borrower in order to pay out the \$2,700,000 demanded from it. However, its request was granted.

Jackson soon learned with surprise that, business being more impeded than ever, the President had despatched an agent to England to contract with the Barings a loan of \$6,000,000. Seeing the Bank to be insolvent he resolved not to renew its charter. The Bank tried to hide its insolvency by the most foolish land speculations, which had already caused such great disaster in 1818 and 1820. The issue of bank notes had given fresh spirit to speculation. These bank notes were received by the National Treasury and returned to the Bank on deposit, which again loaned them to pay for land upon security of the land sold, with the result that the credit granted the Nation was merely fictitious.

In 1832, Congress having voted for the extension of the Bank's charter, President Jackson refused to ratify it on account especially of certain changes, it sought to introduce. "Why," said he, "grant a capital of \$35,000,000 when the first company only had \$11,000,000?"

But though the Bank's charter could not be arranged, the law of July 10, 1832, dealing with the regulation of banks, prescribed that "a report" upon their exact condition should be submitted to Congress every year.

In 1833 General Jackson ordered the withdrawal of the Government deposits from the Bank. The law required that the reasons for the withdrawal of the deposits should be given, and the secretary, Mr. Duane, refused to give them, saying the Bank was not insolvent. He was dismissed and replaced by a more amenable secretary. The deposits were withdrawn and placed in different State Banks, The Bank of the United States was obliged to limit its discounts and loans, thus causing trouble; however, the President wished at any loss to establish a metallic circulation.

President Adams favored small paper notes of 25 to 10 cents, to the extent of \$1,000,000. From 1831 to 1837, \$3,400,000 twenty-five cent notes, \$5,187,000 ten-cent notes, and \$9,771,000 five-cent notes were issued. To prevent an abuse of this it was necessary to resume a metallic circulation immediately. In 1833 the amount of small notes issued had already reached \$37,000,000; in 1837 it became \$73,000,000; it even exceeded these figures; it was this circulation of small paper notes that had to be made smaller than \$120,000,000

Notwithstanding these frequent panics the national prosperity and the increase of wealth were unquestionable and astonished all observers.

From 1817 to 1834 the national expenses diminished from \$39,000,000 to \$24,000,000, decreasing even to \$14,000,000 in 1835, while the income grew to \$37,000,000.

From 1826 to 1836 the condition of business, despite the panic of 1831, grew easier. Industries, agriculture, and commerce were prosperous and every enterprise was successful. Both in New Orleans and in New York there was much building, and more than 1508 houses were erected between January 1 and September 1, 1836. This general prosperity carried with it the seeds of trouble.

The rapid increase of the National revenue gave birth to the belief that capital had increased in the same proportion. This superabundance of income produced temporarily by the inflation in business was recklessly thrown away. People speculated in land, projected a hundred railroads, canals, mines, and every sort of scheme, which would have absorbed \$300,000,000 if carried out.

The national capital being insufficient, loans were made in England and Holland, where the rate of interest being more moderate stimulated the passion for enterprises. Finally, in order to stop the flow of English capital to America, the Bank of England raised the rate of interest; this brought people to their senses. They saw the impossibility of carrying out a third of their schemes. Cotton fell, and panic seized the public.

Since 1818 a period of flow and ebb in trade had been seen every five or six years, but this stoppage was much more serious. The lack of ready money and capital destroyed confidence. Money was not to be had upon any collateral; and the banks stopped discounting. The people lacked bread, the streets were deserted, the theatres empty; social observances were in abeyance, there were no more concerts, and the whole social round was stopped.

The Bank of the United States used various expedients to temporarily moderate the crisis until the very moment that it burst all the more violently in 1839, and brought about a new and radical reform.

From the time that the separation of the Bank of the United States from the Government and the cessation of its operations as the National Bank was brought about, the quotation on bank notes considerably decreased, as well for those payable at sight as for the deferred notes payable in twelve months. The President sent an agent to London to raise money upon the bank shares.

Fearing that General Jackson would not establish a new bank, and by way of counterpoise, one hundred banks were created with a capital of more than \$125,000,000; issues of bank stock were not to exceed three times the

amount of the capital, but this provision was not observed; the issue was without regulation and without limits, and during an inflation in prices of the necessaries of life which had doubled in value, and which had turned the people's attention to agriculture. The price of land had for some time advanced tenfold, and the advance in cotton caused the Southern planters to abandon indigo and rice.

Imports in 1836 exceeded the exports by \$50,000,000, which had to be paid in gold or silver. This outflow of metal created a great void.

The advance in the discount rate in the Bank of England under such circumstances came like a thunder-clap, and the distended bladder burst. Banks suspended payment, and bank notes lost from 10 to 20 per cent. Exchange on France and England rose to 22 per cent., all metal disappeared from circulation, and a thousand failures took place. The English export houses lost from L5,000,000 to L6,000,000 sterling; values fell from maximum to minimum. The losses in America were even greater; cotton fell to nothing. At the worst of the panic people turned to the Bank of the United States, and its President, being examined as to the means of remedying the trouble, stated that it was above all necessary to maintain the credit of the Bank of England in stead and in place of private credit, which had disappeared. He proposed to pay everything in bank paper on Paris, London, and Amsterdam.

When the panic came the Bank was very much shaken. At the beginning of April, 1837, the New York banks suspended payments because demands for hard money for export played the chief role; the other banks suspended in their turn, promising to resume with them.

The Bank of the United States, suspended also, Mr. Biddle, the President, asserting that it would have continued to pay were it not for the injury done by New York. This was false, for the New York banks shortly after resumed payment, hoping they would be imitated, but the other banks refused to do so. Mr. Biddle wished, in the first place, to await the result of the harvest. To uphold the Bank, he tried to bring about exchanges, both with banks and general business, not only in America but in Europe, in order to establish a unity of interests which would sustain him and conceal his real condition. In this he was successful to a certain degree, for in 1840 in his balance sheet \$53,000,000 of paper of the different States was shown up. He wished above all to secure the monopoly of the sale of cotton: a senseless speculation hitherto unexampled, [Footnote: A similar episode has occurred in our time in the speculation in metals by the "Comptoir d'Escompte."] the like of which may never be seen again.

Whilst the Bank came to the relief of New York business through its exchange and its deferred notes, Biddle posed as the great cotton agent, on condition that the Bank's agents should be consigned to at Havre and Liverpool. In their embarrassment this proposition was accepted by the planters. Cotton was thus accumulated in those two places. This monopoly advanced the price, and vast sums were realized, which enabled him to enlarge the scope of his business. In 1837 he was enabled by this means to draw on London for L3,000,000 sterling; the difference between 5 to 6 per cent. interest and discount at 2 per cent. produced a very handsome profit. The cotton merchants prospered as well as the exchange agent, and Mr. Biddle paid the planters in bank notes which the Bank could furnish without limit, while he received in Europe hard money for the cotton; this aroused opposition.

In the second half of 1837 he established in Missouri, Arkansas, Alabama, Georgia, and Louisiana a number of new banks, to make advances to the planters, and to sell their products for them in Europe. They started with very slight capital, they observed no rules in issuing paper, their bank notes fell 30 per cent. in 1838, and the planters would not take them.

The Bank of the United States, fearing lest foreign capitalists should take advantage of the difficulties of the planters by buying this cotton, cheapened on account of the encumbrances upon the district producing it, resolved to come to the rescue of the Southern banks, and to join them in their operations by purchasing their shares and their long-time paper, having two years to run. It thus put \$100,000,000 into the business, and in 1838 it had loaned them upon their cotton crops not less than \$20,000,000 at 7 per cent. payable in three years.

It had bought the bank shares at 28 per cent. below par; through its help they had risen again to par; and then it threw them upon the London market, which absorbed them. In order to explain the immense credit enjoyed in Europe by the United States and their banks, we must observe that the extinguishment of the National obligations through surplus crops threw a false light upon the credit of the States, as well as particularly upon that of the corporation. For many years American investments had been sought for above all others in London, and as nothing happened during the first year to destroy that confidence, the amount thus employed increased from \$150,000,000 to \$200,000,000 in 1840. In Pennsylvania \$16,000,000 of European money was used in the Bank of the United States, and \$40,000,000 in those of the different States, all of which was payable in two or three years.

Mr. Biddle had succeeded in sustaining the different States with the National credit. He knew how to utilize the credit of American goods in Europe, and drew from the London market an immense sum against exchange long-time paper and paper payable in America. The Bank's paper fell from 4 to 6 per cent., and it was in such demand that the Bank of England took it at 2 to 3 per cent. discount. But finally the market had all that it could take. The attention of merchants was attracted to Mr. Biddle's gigantic speculations, who paid paper in America and collected hard money in London. Business interests complained about the contraction in the market. The Bank's stock of cotton increased steadily, and between June and July it rose from fifty-eight to ninety million bales.

This speculation had already yielded \$15,000,000 profit, but the market was overloaded, and quotations could not keep up. The planters had made a great deal by the advance in cotton, but the paper money remitted them lost from 15 to 25 per cent. A panic was approaching. The cotton crop, amounting to 400,000 bales, was one fifth less than was expected; they awaited an advance in price, but the contrary occurred. The high prices had brought out all the stored cotton; the factories had reduced their work. Nevertheless bale after bale was forwarded to Liverpool and to Havre. The sale in this last port in February and March, 1839, having produced a loss, they continued to store it. As soon as Mr. Biddle was aware of this stoppage he sought to hide the difficulty by extending his business. He proposed to start a new bank in New York (the other had headquarters in Philadelphia) with a capital of \$50,000,000. He once more issued long-time paper, and bought with American paper canals, rail-roads, and shares which he threw upon the English market. This lasted until the long-time paper lost 18 per cent. in America, and until American exchange and investments were no longer received on the Continent.

The Parisian house of Hottinguer like its other agents, sold little until the first of July, and when it saw that the effort to monopolize cotton could not succeed, fearing to continue this gigantic operation, it declared that it employed too much capital. In the midst of all this, some new bills of exchange reached Paris without consignment of corresponding value; and the house of Hottinguer protested.

Hope of Amsterdam discontinued his connection. The London agent called upon the Bank of England for help, which was granted upon the guaranty of certain firms of that place and a deposit of good American paper.

Rothschild accepted the refused bills of exchange, after having found out that a sum of L400,000 would suffice for Mr. Biddle's agent; these L400,000 offered as a guaranty consisted of Government stock, and of shares in railroads, canals, and banks. This agreement was not given out freely, which still further increased the feeling of distrust. A crisis in which \$150,000,000 of European capital were destined to be engulfed was rapidly approaching.

BREAKING OUT OF THE PANIC OF 1839.—The English papers had already warned the people to be distrustful. The *Times* said it was impossible to have any confidence in the Bank as long as it would not resume specie payments. Mr. Biddle defended himself through papers paid for the purpose, finally in the Augsburg Gazette, while he waited for the soap bubble to burst. His retained defenders claimed that the 150,000 bales of cotton sent to Europe had not been sold, but received on commission. Advances in paper had been made which in the month of August, 1839, were to be paid in notes by the Southern banks, for a new grant made to the Bank by the State of Pennsylvania permitted it to buy the shares of other banks, and by this means to gain their management; their notes lost 20 to 50 per cent. as compared with the Northern banks.

Through his profit upon the difference of the notes, and through the payment for the cotton in paper, and through the sale of bullion exchange, Mr. Biddle had made five to six million dollars, which lay at his command in London.

The protection of his bills of exchange made a great impression in England; the rebound was felt in America, where the panic, moderated in 1837 through the intervention of the Bank, burst forth with renewed fury in 1839, and brought about the complete liquidation of that establishment.

At the same time the English market was very much pressed, for, according to a notice of the Chamber of Commerce, the number of that year's bankruptcies was greater than usual. From June 11, 1838 to June, 1839, there were 306 bankruptcies in London, and 781 in the "provinces,"—in all, 1,087. At Manchester there were 82, at Birmingham 54, at Liverpool 44, at Leeds 33. The London Exchange was flooded with unsalable paper, an occurrence which had also taken place on a smaller scale in 1837.

Such was the interruption of business that interest for money rose to 20 per cent., and the discount rate for the best paper to 15 or 18 per cent.

The various States in the Union had contracted debts with inconceivable ease, and interest payments were provided for by new loans. President Jackson declared it necessary to make a loan in order to pay interest moneys. It was deemed inexpedient to impose new taxes to provide for the cost of the public works. Great was the embarrassment in America, and as no more money came from England, it was necessary for the Americans to look for it in their own country.

Business circles were flooded with long-time paper running at a discount of one half of 1 per cent. a month. Discount rose to 25 per cent. The panic was so great that all confidence was destroyed. The Bank of the United States, in order to maintain its credit, paid its depreciated long-time paper.

The struggle between the Bank and its opponents, led by President Van Buren, re-commenced. These last declared that the Bank had erred in circulating the \$4,000,000 of notes of the old bank, which should have been retired coincidently with the charter; and the Senate forbade their circulation.

The Government claimed large sums from the Bank, the statement of which showed close to \$4,000,000; and, as it could not secure this amount in money, it was decided to issue \$10,000,000 of Treasury bonds. The Bank party wished to push the Government into bankruptcy, in order to induce it to turn to them for help, and, through the issue of "circular specie," oblige it to adopt a system of paper money.

A bill was brought forward with this view. Biddle, who wished to increase the circulation, said he could

resume specie payments, and thus forced his shares to rise; but the rejoicing of the Bank party was soon disturbed by the fact that collectors of taxes were forbidden to receive any bank note for less than \$20, which was not redeemable in hard money.

After a struggle of eight years the separation became complete, and the administration of National finances was withdrawn from the Bank.

In 1836, a law was passed providing that upon the expiration of its charter, the National funds should be again deposited with it, as soon as the Bank resumed specie payment. Upon the suspension in 1837, the Government was forced to abate the law, in order to protect the specie, and imposed on its financial and postal agents some of the duties of the Treasury. In 1840, the management of the public Treasury constituted a separate and distinct department. Such was the liquidation following the panic, that Congress granted the Bank three months in which it must either resume specie payment or liquidate. To conform to this decree the State of Pennsylvania fixed the resumption of specie payments by its banks, for January 15, 1841. The shares of the Bank, which had yielded no dividend in 1839, and offered a similar outlook for the first half of 1840, fell to \$61. They had been quoted as high as \$1,500. General liquidation and a loss of 50 per cent. was inevitable. This occurred in 1841. Thus ceased for a time the bank mania in the United States.

We will recall here Buchanan's opinion about the Bank: "If the Bank of the United States, after ceasing to be a national bank, and obtaining a new charter in Pennsylvania, had restrained itself to legitimate banking, had used its resources to regulate the rate of home exchange, and had done everything to hasten the resumption of specie payments, it would have resurrected the National Bank.

"But this is no longer possible; it has defied Congress, violated the laws, and is mixed up in politics. The people have recognized the viciousness of its administration; the President, Mr. Biddle, has concluded the work Jackson began."

Tables indicating the banks which suspended during the panic: In 1814, 90; in 1830, 165; in 1837, 618; in 1839, 959. The last panic, from 1837 to 1839, produced, according to some pretty accurate reports of 1841, 33,000 failures, involving a loss of \$440,000,000.

PANIC OF 1848.—The entire discounts, which had risen to \$525,000,000 in 1837, fell to \$485,000,000 in 1838, only to rise again to \$492,000,000 in 1839, and the real liquidation of the panic occurred only then. Discounts fell at once to \$462,000,000, then \$386,000,000; the abundance of capital, and the low price at which it was offered, cleared out bank paper until it was reduced from \$525,000,000 to \$254,000,000 in 1843. [Footnote: We have not the outside figures, the maximum or minimum.]

The metallic reserve increased from \$37,000,000 to \$49,000,000 (1844); the circulation was reduced from \$149,000,000 to \$58,000,000.

The number of banks in 1840, from 901 fell to 691 in 1843, and the capital itself from \$350,000,000 in 1840 was reduced to \$200,000,000 in 1845 and to even \$196,000,000 in 1846.

All these figures clearly indicate liquidation. The market, freed from its exchange, was enabled to permit affairs to resume their ordinary course.

In fact an upward movement was taking place. Discounts rose from \$264,000,000 to \$344,000,006 in 1848.

Banks increased from 691 in 1843 to 751 in 1848, and their capital grew from \$196,000,000 in 1846 to \$207,000,000. The paper circulation rose from \$58,000,000 to \$128,000,000 in 1848. Deposits from \$62,000,000 reached \$103,000,000 in 1848. The metallic reserve alone fell from \$49,000,000 in 1844 to \$35,000,000 in 1848.

The consequences of the European panic were felt in America, but without causing much trouble. The liquidation of the panic of 1839 was barely over, and was still too recent to have permitted sufficient extension of business.

Embarrassments were slight and brief; discounts, nevertheless, fell from \$344,000,000 to \$332,000,000.

The store of bullion, in spite of the surplus and the favorable balance produced by the export of grain to Europe, fell from \$49,000,000 to \$35,000,000; with the following year the forward movement recommenced.

PANIC IN 1857.—The stoppage in 1848 was very brief. Discounts rose regularly from \$332,000,000 to \$364,000,000, \$413,000,000, \$57,000,000, \$576,000,000, \$634,000,000, and finally \$684,000,000 in 1857. The progression was irresistible. The circulation rose from \$114,000,000 to \$214,000,000. The banks increased at such a rate that, from 707 in 1846, with a capital of \$196,000,000, there were in 1857 1416, whose capital had risen to \$370,000,000,—a very inferior figure, in comparison to the number of banks, to that of 1840, when 901 banks only had a capital of \$358,000,000.

The metallic reserve, from \$35,000,000 in 1847, easily reached \$59,000,000 in 1856: but it was in proportion neither with the number of the banks nor their discounts and circulation; and, after all, this is only a moderate sum. We have not the extreme maximum or minimum, and the suspension of specie payments took place notwithstanding the amount of cash on hand, which was greater in 1857 than in 1856.

Deposits accumulated from \$91,000,000 to \$230,000,000; they rose to their greatest height in the very year of the crisis; nevertheless, they could not be drawn out.

During the Eastern war the prosperity of the United States had been so great that the clearing-houses established in New York in 1853, and in Boston in 1855, offered only a slight opposition to the excessive issue: at least, in 1837 the Congressional report stated the cash on hand was \$6,500,00—that is to say, \$1.00 in metal to each \$6,00 in paper.

In 1857 cash on hand was \$14,300,000, or \$1.00 in hard money for each \$8.00 in paper.

The banks had attracted deposits by high interest, and loaned the money to wild speculators. On the 22d of August, 1857, the amount of loans had become almost \$12,000,000, counting together metal, notes, and deposits.

From December, 1856, to June, 1857, they had shown great strength. Discounts had risen from \$183,000,000 to \$190,000,000 in June; cash on hand had risen from \$11,000,000 to \$14,000,000. The only evidence of weakness, so to speak, was that the withdrawal of deposits had risen from \$94,000,000 to \$104,000,000, while the circulation diminished \$1,000,000.

In June "the position of the Bank ought not to have caused any fear, to the most far-sighted," says the report of the Committee of Inquiry.

Foreign exchange was favorable, and it is known that is the bankers' guide. June, July, and August were tranquil, except for a slight disturbance in business experienced by the country bankers through the constantly increasing amount of notes presented for redemption, and among the city bankers by requests for discount.

The collapse of the "Ohio Life," which had the best New York connection, was the first muttering of the storm, and was soon followed by the suspension of the Mechanics' Banking Association, one of the oldest banks in the country. The suspension of the Pennsylvania and Maryland banks followed. Public confidence remained unshaken—it relied upon the circulating medium.

Only one bank went to protest, and that on September 4th, on a \$250 demand. Another protest followed on the 12th, a third on the 15th, both for insignificant amounts. Demands in the way of withdrawal amounted to almost nothing, and there was nothing like a panic.

The deposits at the savings banks were a little less, but this did not continue. Only at the close of September was the demand by the country banks for payment upon the Metropolitan American Exchange Bank for payment greater than it had ever been.

On the 13th of October, with exchange at par, an abundant harvest, with a premium of 1/4 to 1/2 per cent. on metal, the banks suspended specie payment, but resumed it on the 11th of December. The most critical period lasted about a month. The first step towards resumption of payments was made after the resolution adopted by the Committee of Liquidation to call upon the country banks to redeem the notes of the Metropolitan Bank, paying an allowance of 1/4 of 1 per cent. interest, running from the 20th of November.

At this time the city bankers held, in bills issued and in signed parcels of \$5,000 each, about \$7,000,000 due by the country banks. They were thus enabled to accomplish the payment of their notes at the rate of 20 per cent. a month by the 1st of January, 1858. The same favor of repaying their notes at the rate of 6 per cent. was granted to the city banks.

We need not inquire if, having granted this delay, the banks proved their liberality. The abundant harvest also assisted liquidation.

From 1853 to 1857 the metallic reserve fell to \$7,000,000, deposits rose to \$99,000,000, and discounts and loans to \$122,000,000.

BANKS OF NEW YORK.

Proportion of Metallic Reserve. Deposits. Discounts, the Metallic Advances. Reserve to Deposits.

1854 ... \$15,000,000 \$ 58,000,000 \$ 80,000,000 26% 1855 ... 9,900,000 85,000,000 101,000,000 11% 1856 ... 10,000,000 100,000,000 112,000,000 10% 1857 ... 7,000,000 99,000,000 122,600,000 7%

The reduction of the metallic reserve, increase of deposits and of discounts and of advances, are here clearly indicated.

From 1853 to 1857 the bank circulation hardly varied \$100,000, indicating that the demand for hard money came from abroad and from the interior. The circulation was not the cause of the suspension,—at least such was the opinion expressed by the superintendent of the New York banks in his report.

In 1856 twenty-five companies were started, and three bankers opened business with a capital of \$7,500,000,

of which \$7,200,000, was paid in.

In 1857 there were only five of these banks and three bankers having a capital of \$6,000,000, of which only \$4,000,000 were paid in. The collateral deposited by the banks represented \$2,500,000 in 1856, on which credit of \$2,000,000 in notes was granted.

In 1857 the same collateral did not exceed \$560,000 estimated value, on which a credit of \$383,000 in paper was granted.

At the height of the crisis failures were so numerous that a general suspension of payments, and, in consequence, a stoppage of business was dreaded. This suspension, in place of being general, turned out to be merely partial; it occurred at a juncture when it might well be feared that it would lead on to the very greatest disasters, but, far from harming, it helped the market. The banks had suspended payment upon a common understanding among themselves and with business circles. The critical moment having passed, tranquillity reappeared as soon as the course determined on was known.

If suspension of payment hurts the credit of a bank, it does not necessarily lead to the depreciation of its bank notes.

There are a good many proofs of this: in 1796, when the Bank of England suspended, its bank notes did not depreciate; and if this state of things did not last, the blame must be laid upon the excessive issue. And in France, in 1848 as well as in 1871, the Bank of France suspended without the depreciation of its bank notes becoming very noticeable. So, in New York, bank notes passed at 2 or 3 per cent. loss at this crisis.

The crisis disappeared with the end of the year, and resumption of payments took place between New York and Hamburg, with the return of specie and a rate of 4 per cent.

It was the same in France and England. A more serious panic and a more rapid recovery had never been seen. The rigidness and not the severity of the pressure that had to be exercised shows the condition of business. There had been most blamable practices employed; but the market as a whole was sound, and had faced the storm.

Only four banks had suspended, three of which were shaky before the panic, and the fourth had already resumed payments.

At no other period could one have obtained such an amount of credit upon a simple paper circulation; fictitious paper was the source of all the wrecks. To get it into circulation the most varied contrivances were resorted to, and fraud itself was not wanting; the signatures even became fictitious, their owners could not be found. Shams and discriminations under all forms, designed to permit speculation without capital, without exchange of goods, without real transactions between the drawer and the acceptor of the bill of exchange, were rife.

In his message, President Buchanan ascribed the crisis to the vicious system of the fiduciary circulation, and to the extravagant credits granted by the banks, although he was aware that Congress had no power to curb these excesses. When there is too much paper, when the public has created an endless chain of bank notes, representing no real value, it is enough that the first ring break for the whole gear, thus no longer held together, to fall to pieces. If we mark the situation of the New York banks before and during the panic—that is to say, in 1852 and in 1857, we will ascertain as follows:

June, 1851. June, 1856. June, 1857.

This table demonstrates that two items show a great increase: capital increased \$47,000,000 and paper discounted \$43,000,000; while, in face of an increase of \$1,000,000 of specie on hand, the note circulation decreased \$800,000.

Far from finding a mistake, we find a proof of the Directors' prudence. If there was an error in the issuing of paper, it was not on the side of the banks; it was the public itself that was chiefly in fault.

We find the causes of the panic in the issues of railway obligations and shares, which had chiefly been placed in European markets, and whose gross amount was estimated at L1,000,000. The speculation in land and railroads had been carried on either with borrowed money or by open credits, and by accommodation notes, back of which there was no second party.

The mistake of the banks was in trying to conduct their whole business by their note circulation and to concentrate their capital in the bank offices, and meanwhile, as they refused to loan to the stockholders of the banks, discounts in New York fell off \$10,000,000. Finally the capital could not be entrusted to the disposal of the banks and it was necessary to compel them to make a deposit of \$100,000 for each association, and \$50,000

for each banker.

Such were the final advices given by the inspector-general of the banks of New York at the close of his report, dealing with how to prevent the recurrence of panics. To have confidence in their efficacy, it was necessary to forget the past and its lessons.

The reforms already made and those still asked for in the bank system could yield no remedy for those abuses lying beyond legislative action. The American newspapers did not hesitate to demand them, well aware that they would produce no effect; however, they congratulated themselves with having drawn away from effete Europe one million sterling now realized upon the soil of the United States without any equivalent given for it to the foreign lenders.

PANIC OF 1864.—The crisis of 1864 was mixed up in the United States with the War of Secession; it was a political crisis, and is not properly to be considered here.

PANIC OF 1873.—During the last two months of 1872 the American market had been very much embarrassed; the lowest rate of discount was 7 per cent., and in December it was quoted at even 1/32 of 1 per cent. or a quarter of 1 per cent. a day!

The year 1873 was anxiously awaited in hope of better times. In the middle of January, 1873 the rate of interest declined a little to 6 or 7 per cent., but soon the rate of 1/32 of 1 per cent. per day reappeared and continued until the month of May.

In the first days of April the market was in full panic; it grew steadier in the first week of May, and in the month following. It relapsed on September 1st, and requests for accommodation redoubled until the sharpest moment of the panic. On that day there were no quoted rates; money could not be had at any price: some few loans were made at 1-1/2 per cent. per day.

This panic broke forth on September 18th, through the failure of Jay Cooke, after a miserable year, during which money was constantly sought for and was held at very high prices in all branches of business. As to the loans for building railroads, they followed one another so rapidly that, from the month of October, 1871, to the month of May, 1873, they could not be placed at a lower rate than 7 per cent. Bankers succumbed beneath the burden of their unsalable issues. This was a grave misfortune for the railroads. In the single year 1873 there were constructed 4,190 miles of railroad in the United States, which, at \$29,000 per mile, represented the enormous sum of \$121,000,000, and in the last five years \$1,700,000,000.

The commercial situation was not so bad, and the number of failures did not reach the proportion that might have been feared.

After the failure of Jay Cooke came those of Fiske & Hatch, of the Union Trust Company, of the National Trust Company, and of the National Bank of the Commonwealth. On the 20th of September, for the first time, the Stock Exchange in New York City was closed for ten days, during which legal-tender notes were at a premium of 1/4 per cent. to 3 per cent. above certified cheques.

On the 18th there was a run on the deposits. Withdrawals continued on the 19th and 20th, especially by the country banks, and the banks' correspondents. No security could be realized upon; and in order to relieve the situation the Secretary of the Treasury bought \$13,500,000 of National 5-20 bonds, stating that he could do no more.

The New York Stock Exchange was reopened September 30th, without any notable occurrence; but everything was very low. Several other suspensions occurred—for instance, that of Sprague, Claflin, & Co.

The rate of discount being 9 per cent., a panic was feared in London. The banks passed the most critical period on October 14th; out of \$32,278,000 legal-tender dollars at the beginning of the panic, only \$5,800,000 remained on hand. Not until the middle of November did the decline stop and a slight advance take place. Throughout the panic the bank reserves were much below the legal requirement of 25 per cent; from the 13th to the 30th of September they fell to 24.44 and 23.55 per cent.

The New York Clearing House in September adopted a measure which permitted dealings to continue. It authorized the banks to deposit the bills on hand, or the other securities they had accepted, in exchange for which they issued certificates of deposit bearing 7 per cent. in notes of \$5,000 to \$10,000 to the extent of 70 per cent. of the security deposited. Thus \$26,565,000 of them were put into circulation.

Furthermore, they made a common fund of the legal tenders belonging to the Associated Banks for mutual aid and protection. The suspension of payment took place first in New York and then extended to the large cities of the Union; it lasted forty days, until the 1st of November; this measure was looked upon as having prevented the greatest disasters.

The table setting forth the situation, compared with the balance sheets of the Associated Banks of New York on January 1st, April 1st, July 1st, September 1st, and October 1st of the years 1870, 1871, 1872, and 1873, shows us the following changes: discounts had fluctuated from \$250,000,000 in January, 1870, to \$309,000,000 in September, 1871; they had become reduced to \$278,000,000 in September, 1873, on the eve of the panic, and from the month of September, liquidation of the panic having begun, they were reduced to \$250,000,000. Deposits from \$179,000,000 in January, 1870, rose to \$248,000,000 in July, 1871, with \$296,000,000 of bills

discounted, and once more reached \$198,000,000 in September, 1873, with \$278,000,000 of discounts and \$195,000,000 in December.

Even at the most critical moment of the panic they continued larger than the usual average of the preceding years.

The metallic reserves played too feeble a role to have caused failure; they had varied from \$34,000,000 in June, 1870, to \$9,000,000 in September, 1871, \$18,000,000 in September, 1873, and \$23,000,000 in December, 1873.

The circulation varied still less: from \$34,000,000 in January, 1876, it decreased to \$27,000,000 in July, 1872, and remained at the same figure during the year 1873, if we can judge of this by the balance sheet rendered on the first day of each quarter. In each case there is no opportunity for us to charge an excessive issue.

According to the statement of the Comptroller of the Currency, paper discounted decreased between the 12th of September and the 1st of November from \$199,000,000 to \$169,000,000.

To sum up, the circulation had fluctuated very little; deposits from \$99,000,000 had increased to \$167,000,000 between the 12th and 20th of September, at the most critical period; and when suspension was universal, they had declined to \$89,000,000. After the breaking out on the 18th of October, and since then from the 22d of November, they had risen to \$138,000,000.

The metallic reserve, after a brief revival from \$14,000,000 to \$18,000,000 between the 12th and 20th of September, had fallen back to \$10,000,000, only to rise to \$14,000,000 in November.

In the midst of these difficulties, the securities of the various States held up. Since the first months of 1873, the demands of the English market caused an upward movement in them; in September it was impossible to make a loan, without using them as collateral. In order to help the market somewhat, the Treasury bought about \$13,000,000 of National securities on the Stock Exchange, but, lacking resources, that was the only effort it could make. The German Government invested quite a large sum in the new five per cents., so that the advance in public securities lasted through the whole year: the market rate for 5-20's advanced from 91 per cent. in April to 96 per cent. in October, in the midst of the market's panic.

The \$15,000,000 of indemnity awarded by the Geneva Court of Arbitration, and paid by England for having admitted privateers into her ports, was put into 5-20's. Apart from this strength in the public securities, the railway obligations, especially those upon new roads, were very much depressed; they could no longer be placed, ninety new companies having stopped paying their coupons, whilst those of the old lines held their quotations.

Great speculators, Vanderbilt at the head, formed syndicates, embracing several companies, and made prices as suited their plans. The death of Mr. Clarke in June dealt the first blow to this combination, and the failure of George Bird Grinnell brought about its dissolution.

The liquidation of this tremendous concern kept down prices for a long time.

The price of gold, still quoted at 112-1/2 per cent. in January, 1873, rose to 119-1/2 per cent. in April, superinduced by speculation, for at the height of the panic it declined to 106 on the 6th of November. It is true that at that time all doubtful accounts were liquidated, and demands for gold had disappeared; if we were to rely upon the export figures only, we would find them less than in the preceding years.

Exchange rates were much more depressed; from 109.45, representing par, they fell to 107.25 for the best 60-day paper. This paper was much sought after by speculators, who, when discounting it, procured bonds authorizing them to transfer the titles unless payment was made promptly at maturity. Prices fell so low that it was often impossible to negotiate paper at any price. The activity reigning at the beginning of the year showed itself in the Exchange movement; the excess of imports over exports rose in the first months to \$100,000,000, whilst in the preceding year it did not exceed \$62,000,000; prices ruling in the American market attracted goods from all quarters.

PANIC OF 1884.—The panic which burst upon the United States in 1884 was the last thunder-clap of the commercial tempest which had reigned since the month of January, 1882. Public opinion already recalled the decennial period which separated the existing panic from that of 1873. The acute period was of short duration; the crash occurred on May 14th, and the decline of values had touched bottom by the end of June. From the 9th of June the people began to steady up, they felt the ground firmer under their feet. The situation gave evidence of great strength; and, notwithstanding the dearness of money, and an enormous fall in prices, there were only a few failures, and at the close of the year equilibrium was re-established, although the liability of the losses had risen to \$240,000,000. These losses, it is true, were almost entirely borne by financiers and speculators, rather than by manufacturers and traders.

The month of May, 1884, concludes the prosperous period which followed the crisis of 1873. During this period the most gigantic speculations in railroads occurred; the zenith of the movement was in 1880, and as early as 1881 a retrograde movement began, only to end in the disasters in question. The decline in prices had been steady for three years; they had sunk little by little under the influence of a ruinous competition, caused by the number of new lines and the lowering of rates, but above all through the manipulations by the managers on

a scale unexampled until now. In connection with the disasters of May, 1884, the names of certain speculators who misused other people's money, such as Ward, of Grant & Ward; Fish, President of the Marine Bank; and John C. Eno, of the Second National Bank, will long be remembered. General Grant, who was a silent partner in Ward's concern, was an innocent sufferer, both in fortune and reputation.

The Marine Bank suspended on the 5th of May, and in the following week the Metropolitan drew down in its train a large number of bankers and houses of the second order. The confusion was then at its height. Owing to the very delicate mechanism of the credit circulation, the banks and the clearing house were the first attacked and the most shaken, but they immediately formed themselves into a syndicate to resist the storm which was upsetting all about them. As cheques were no longer paid, settlements no longer took place, and the credit circulation was suspended; this stoppage was liable to induce the greatest consequences, hence it was necessary to be very circumspect. Here it was not possible to suspend the law, as in England the Act of 1844 was suspended, permitting an excess of the official limit for the note issue, but the banks could have been empowered to demand authority to change the proportion enacted by the law creating National Banks. They had no recourse to any of these violations of the Statutes, which prove only too often under such circumstances that regulation by law is impossible; they satisfied themselves, without having the public powers intervene, with issuing clearing-house certificates, that is to say, promises, which they were bound to accept as cheques in settling up the operations of each day. It was through this help that the Metropolitan Bank was enabled to resume payments on the 15th of May, the evening of the day following its suspension. The Second National Bank was a loser through the acts of its President, Mr. John C. Eno, but his father and the Directors hastened to make good the deficit. At this moment the excitement was intense, deposits were withdrawn, and 1 per cent. a day was paid, and even more, to obtain ready money or credit; under the influence of numerous sales of securities, exchange fell rapidly, metallic money was secured in London even, to be hurried to New York, Never could purchases be made under better auspices. Above all is this true when we observe that the condition of companies was much better known than in 1873. The year 1883 had been disturbed by numerous failures. There had been no crash, but prices, far from advancing, had held their own with difficulty. On the eve of the breaking out of the panic there was complaint about the accumulation of goods in the warehouses, and of the difficulty of making exports. No scheme worked out, despite a very high protective tariff, and people were asking themselves what was its effect under the influence of unfavorable exchanges. Gold flowed away from the country, and cash on hand decreased each day.

On the 1st of January, 1884, the New York & New England Railroad was placed in the hands of a receiver by order of the court. The same thing happened on the 12th of January to the North River Company. In February, March, and April many houses exhibited their balance sheets. The fall in prices grew accentuated not only on the Stock Exchange, but in all markets. The discomfort increased until the 6th of May, the day on which occurred the failure of the National Marine Bank, whose President was associated with the house of Grant and Ward, which went down shortly afterwards with a liability of \$17,000,000. This financial disaster made a great stir. Anxiety spread everywhere, when on the 13th of May the President of the Second National Bank of New York was also forced to suspend payment with a liability of \$3,000,000; this was the final blow to credit. Every operation was suspended, all exchange became impossible; not securities but money was lacking. At one time the panic was such that the rate of discount and loans rose to 4 per cent. a day!

Although the panic was general, it was rather a panic of securities in the chief places of the United States, especially in New York.

One no longer knew on whom to count to provide ready money. Offerings were made on the Stock Exchange where there were no bidders, and the market disappeared in the midst of a panic which paralyzed every one.

This melancholy state of things was still further aggravated on the 14th of May by the failure of Donnel, Lawson, & Simpson and Hatch & Foote. On May 15th it was the turn of the Savings Banks of New York, of Piske & Hatch, and of many others. It was impossible to obtain any credit from the banks, and all securities were unsalable, unless at ruinous rates. Reduced to such an extremity, it was necessary to adopt some course to help the market and avoid suspension of payments.

The certified checks issued by the banks did not answer, and it was necessary to have recourse to a new means of settlement. The members of the clearing house emerged from their usual passive role to intervene and to do a novel thing: they issued certificates that they accepted in the name of the most embarrassed institutions whose fall they wished to avert, in order to prevent the failure of others. Then, as everybody was making default, the Secretary of the Treasury in his turn wished to aid the common effort to sustain the credit of the situation, and, in order to accomplish this by the most regular methods, he pledged himself to prepay the debt, whose term was close at hand.

Despite these last helps it was easily seen how great must be the disorder, to induce recourse to such methods. Never had they been employed until now, which is proof enough of the enormity of the situation, whose equilibrium, had been disturbed since 1887, the year in which high prices in everything had been reached on the Stock Exchange.

To still further increase the joint responsibility of the members of the clearing house, it was agreed that a committee should be charged with receiving as collateral bills and securities in exchange for which certificates of deposit bearing 3 per cent. were issued at the rate of 75 per cent. of the amounts deposited. This agreement being adopted, a way to re-open the National Metropolitan Bank was sought. A selection made from its collection of bills showed the securities it could pledge for clearing-house certificates; and, its circulation being

thus re-established, it was enabled on May 15th to take part in settlements.

Upon the announcement of a syndicate composed of the banks and the clearing house, things settled down; the general distrust diminished; there was the necessity and wish to realize, but funds were lacking.

The rise in the discount rate attracted foreign capital little by little, and exchange grew easier. With the help of the syndicate the credit circulation became re-established, and the rate of discount declined to 5 per cent. For commercial needs money was always to be had at 4-1/2 per cent. and at 5 per cent. when at the Stock Exchange it was necessary to pay 4 per cent. per day!

The panic was terrible from the 3d to the 10th of May; for two days no one wished to part with his money; it was impossible to borrow on any collateral, at any price whatever. Hence came a decline in the public securities, which fell below the low prices of 1873.

The public complained that it could not have foreseen the panic, because the loss of gold had been concealed by the oft-repeated assurance that there was a reserve of \$600,000,000 in Washington.

Similar situations in 1857 and in 1873 were recalled, and it was remarked that like troubles had not occurred until after a long period of high prices, when capital was scarce and the rate of interest high, whereas this was far from being the case at this period.

It was nevertheless notorious that the decline in prices began two years back, that the advance in prices had been stopped by the breaking out of the panic of 1882 in Europe, at Paris, and that since that moment prices had begun to decline, less rapidly, however, than in Europe, because the shock had then merely disturbed a market which had not yet recovered from the panic of 1873, from which, in consequence of the Franco-Prussian war, France had escaped. The mine not being sufficiently charged in the United States the explosion had not recurred. Speculation, unable to restore a new impulse to the rise in prices, was nevertheless able to hold its own, until May, 1884, when the delayed explosion finally occurred, covering the market with ruins and bringing about a liquidation with its accustomed train, a great and lengthy decline of prices.

We may here note similar delays in the breaking out of panics, in the period of 1837, 1839, 1864-1866 in France and in England. Even an involved state of affairs may be hidden by certain conditions, and the situation, although itself exposed to the same excessive speculation, may witness the breaking out of the panic which has been delayed for a certain time, only to occur simultaneously with the beginning of a decline of prices, and when it is thought that danger has been escaped.

As in Brussels and in the United States in 1837-1839 and in England in 1864-1866, large houses and powerful institutions of credit had maintained a whole scaffolding of speculation which was already out of plumb, but still able to stand upright through the general effect of the parts which connected them, and in this unstable equilibrium it sufficed for a single one to detach itself in order to overthrow the whole edifice at a juncture at which it was hoped it would continue to stand and even grow stronger. Does not this prove that after these epochs of expansion and activity characterizing prosperous periods (and there is no prosperous period without a rise in prices) a stoppage is necessary, a panic allowing a period of rest to permit the liquidation of transactions employed in helping to make a series of exchanges at high prices, and to allow the capital and savings of countries which had been too rapidly scattered and exhausted to reconstruct themselves during these years of tranquillity and of slackening business?

Confidence had already returned in New York despite the steady demands of the country bankers upon their correspondents, which pulled down the reserve below the legal limit; nevertheless in the midst of all the failures there was no suspension of specie payments.

The crisis of 1884, according to the Comptroller of the Currency, had been less foreseen than the crisis of 1873, and this notwithstanding it was sufficient to observe the number of enterprises and schemes flung as a prey to speculation, in order to foresee that financial troubles and disasters to the country must result.

The continuation of payments in gold, the low prices, and the outlook for a fine harvest gave courage, preserved the remaining confidence, and already allowed a speedy resumption of business to be anticipated.

The panic, although spreading over the whole Union, raged especially in New York. Without wishing to expatiate upon its primary causes, the Comptroller of the Treasury could not help remarking that it had shown itself under the same circumstances as recently as in 1873; above all there were issues for new enterprises; the speculation had rushed to take them up at a premium, and people now asked their true value.

At this juncture railroad earnings, instead of increasing, showed weakness, and suffered a slight reaction; the solvency of houses interested began to be doubted; new loans were refused them, and immediately the artificially constructed edifice gave way.

To advance prices on the Stock Exchange, the banks had made immense loans on the shares and obligations of the new railway issues, and as soon as quotations, artificially maintained at the rates to which they had been carried, began to drop, everything became unsalable. Until this occurrence, led on and fascinated by the rise in prices, every one had bought; hardly was the advance arrested when every one reversed their operations at the same time. The bankers had loaned not only their capital but in addition a part of their clients' deposits; brokers had encouraged a speculation which brought them business; and thus it was that all hands had flung themselves upon a path that could only lead to ruin.

The Comptroller of the Currency remarks with pride that, in the midst of the general upheaval and numerous failures of honorable houses, only two National Banks were involved: one of them failed, the other suspended payment.

The amount of liability of the banks and bankers of New York who succumbed during the month of May was estimated at \$32,000,000, whereas that of the only National Bank which shared their fate did not exceed \$4,000,000, the bank which suspended not having occasioned any loss.

Unhappily the year did not pass without its being necessary to mention new misfortunes: eleven National Banks failed, and it is a fact that among the banks and private bankers more than a hundred were counted in the list.

Despite the close watch bestowed upon the banks it was surprising to uncover all the tricks to which the National Marine Bank of New York was given over, and, which until now had escaped the official examiners.

It suspended payment on May 6th, and the same day it was debited with \$555,000; the books had been erased and overcharged for the benefit of one client alone to the amount of \$766,000. He was a debtor to the amount of \$2,400,000, six times the Bank's capital, and a portion of this debt was under a good many names of subordinate clerks. This same client had three open accounts, one as administrator, then a general account, and a special account. The whole thing was fictitious; the schemers sought to conceal irregularities, and had thus imposed on the examiners and on the Directors themselves.

The certificates issued by the clearing house, when credit had entirely disappeared, rendered a great service and sustained a great number of houses in equilibrium, which without this assistance must have succumbed. They were granted especially to the banks belonging to the Association, in order to make their daily settlements.

During the crisis of 1873 the same means had been resorted to, but too late; the panic was already at its height and the commotion general, so that nothing could re-establish confidence. This was not the case in 1884: the rapidity and decision with which the Associated Banks took steps gradually re-established confidence throughout the country. The maximum of issue did not exceed \$24,900,000, of which \$7,000,000 were for the National Metropolitan Bank; from the 10th of June balances at the clearing house were paid in legal money. Commercial paper, which for the most part was the collateral for these certificates, had already been redeemed. The Metropolitan National Bank alone requested time to liquidate.

The issue of these certificates was very rapid: \$3,800,000 on the 15th day of May, \$6,800,000 on the 16th, \$6,700,000 on the 17th, or more than \$17,000,000 in these first three days; then on the 19th, 20th, and 22d, \$1,500,000, and that was all. The remainder of the amount was given in driblets. Payments, although slower, were made from the 1st of July to the 1st of August.

Let us now run over these occurrences: in 1873 instead of \$24,900,000 in certificates \$26,565,000 had been issued; \$22,000,000, had been issued between the 22d and the 29th of September, the redemptions took place from the 3d of November to the 31st of December.

In both cases the same amount, so to speak, had been sufficient to answer for all needs. If so small a difference sufficed to save a disordered market, people could not understand why panics could not be provided against. It was necessary to remember that this assistance was only felt when the decline of prices had already re-established an exchange of goods, bringing about the liquidation of houses unfortunately involved.

From the month of June, owing to the bank balances or the rate of exchange, the tranquillity and steadiness which had become re-established grew daily; after the storm of the first few days no new disasters had occurred except the failures of Mathew and of Morgan.

The position of the market grew firmer and the clearing house reduced its loan certificates, which now replaced the former excessive issues of bank notes. From \$24,000,000 they had already decreased to \$18,000,000; of this amount \$6,000,000 were taken by banks as a last resource, and there then remained only \$12,000,000 in circulation. These \$6,000,000 had served to sustain the shaken banks, and it is pleasant to state that outside of these requirements the amount needed was no larger.

Failures had ceased in the great centres, but they continued in the interior of the country; the shock, like a great wave, took a certain time to overrun the various States.

SUCCESSION OF PANICS IN THE UNITED STATES STUDIED THROUGH THE BALANCES OF THE BANKS. —Following the historical summary of panics in the United States it will be useful to have a general table, so as to glance at the very rare documents which permit us to follow the working of the Banks through their balance sheets. We know their organization, and we take upon ourselves to state results flowing from it.

It strikes us at once that abuses and panics have constantly occurred. Can we note a difference in the frequency and gravity of the casualties, according to whether we observe them working under the former or the new (the National Bank) system, inaugurated during the War of the Secession in 1864, when the machinery for the issue of bank notes was insufficient for the new requirements?

Without lingering over the regulations before and after 1864, let us consider the differences we may ascertain by examining the balance sheets. Unfortunately, the exactness of our observation is lessened on account of the very diversity of the field it covers.

In the case of the banks of the United States we have had to content ourselves with the returns that the Comptroller of the Currency gives in his annual report on a stated day during the months of February, May, June, October, and December, beginning with the year 1865. Before that period we had only the yearly situation of the banks of the different States upon one given day; we are better informed on the second period; however, basing our conclusions upon the few balance sheets we possess, we ascertain the same series of development and increase. Although there are lapses, still, from another point of view, the table will be more complete, because it embraces all the banks of the United States. On such an extended field, it is true, we risk seeing great discrepancies disappear and lose themselves in the magnitude of the amounts whose movements we follow. In order better to grasp them, we have put before us the returns of the banks of the United States, together with those of the Associated Banks of New York City; we may thus recognize and follow the share played by each of them.

During the first period of the State Banks (1811-1864), the increase in the number of the banks was continuous, except for two stoppages, in 1841 and in 1862; in 1841, during the liquidation of the panic of 1839, and in 1862 at the beginning of the War of Secession; the crisis of 1857 did not interrupt the movement.

The capital of the banks had followed the same changes. From \$52,000,000 in 1811 to \$368,000,000 in 1840, a reduction to \$196,000,000 in 1846, and finally the last maximum reached in 1861, \$429,000,000, at the breaking out of the war. In 1864 a new organization of the banks under the name of "National Banks" presented to the State Banks, without suppressing them, a state of affairs destined to cause their liquidation, which, in fact, practically occurred.

As in England and France, the amount of discounts, as the balance sheets give it to us, rose each year during the prosperous period.

Thus from 1830 to 1839 it reached \$492,000,000 from \$200,000,000, to decline again to \$254,000,000 at the end of the liquidation in 1843.

In the following period the same rising movement from \$254,000,000 to \$344,000,000 was reproduced in 1848. The panic in Europe burst forth in 1847; it resounded very slightly in the United States in 1848, as its subsequent liquidation in 1849 indicates, which only reduced the local discounts to \$332,000,000.

A new period of prosperity followed the preceding events; the growing movement re-appeared, and from \$332,000,000 carried the amount of the discounts to \$684,000,000 between 1849 and 1857. The panic broke out simultaneously throughout the whole world; but notwithstanding the wrecks it caused, such was the saving already, so healthy was the general situation of business, that, after having thrown out a little scum, the current of affairs resumed its course until 1861, and discounts had already reached the amount of \$696,000,000. This amount is greater than that we have noted in 1857, but at that time (whilst the movement continued in Europe up to 1864), despite the shock it received by the declaration of war here, there was complete stoppage until the end of the struggle; we have here come across a political panic, not a business one. Peace re-established, the movement resumed its course under new conditions and with a reorganization of the banks under the name of "National Banks." A change was due, but, as everything was made ready, it was speedy. The first balance sheet of the National Banks dates from 1864. The amount of discounts had already exceeded the sum of \$100,000,000 in 1865, and grew to \$500,000,000 in 1866. Once started the movement took its own course:

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1865 ...... $166,000,000 1870 ...... $725,000,000 1866 ...... 500,000,000 1871 ...... 831,000,000 1867 ...... 609,000,000 1872 ...... 885,000,000 1868 ...... 657,000,000 1873 ...... 944,000,000 1869 ...... 686,000,000
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The yearly progression was interrupted as in Europe, and the explosion occurred at the same time. The rise in prices stopped, and incipient liquidation became apparent at the end of the year, and reduced the amount of paper on hand to \$846,000,000, but, instead of lasting, as in Europe, a movement of revival, analogous to that which had followed the panic of 1864 in England, occurred. The amount of discounts rose from \$856,000,000 to \$984,000,000 in 1875, and then, and then only, the real retrograde movement showed itself as in Europe, and reduced the amount of the discounts to \$814,000,000 in 1879, simultaneously with the movement in France and in England, when prices had reached the lowest quotations, and when a resumption of business was about to occur. In a word, affairs resumed their course; from the end of the year the amount of paper discounted rose to \$933,000,000, and the steady advance as set forth in table No. 3 continued each year, until it reached \$1,300,000,000 in 1884. The panic had burst forth in Europe in 1882, and the agitation, so lively was its impulse, lasted during eighteen months; but, as we have stated, the rise in prices ceased in 1882.

Starting from this time, a reaction appeared. The paper on hand lowered to \$1,200,000,000 in 1885. This liquidation was scarcely noticeable, because we cover the whole Union, and there is always an upward movement in the new portions of it which have not yet taken part in business movements. If we note what occurred in the Associated Banks of New York, the very place where the greatest amount of business is carried on, the depression of the amount of paper on hand is most noticeable after the inflation observed at the height of the panic, while the decrease that we point out showed itself more slowly with the slackening of business. Thus, in the last period, the greatest amount of paper appears on hand—at the close of 1881, \$350,000,000, and the minimum in December, 1884, the very year the panic had burst forth, and when, during the first months, the sum of \$351,000,000 reappeared once more; except for a million, exactly the same amount there was in 1881.

This maximum amount was only an accident, under the influence of pressing needs at the time of the difficulty, for since 1881 the yearly reduction of the maximum and minimum amounts ensued. This tendency had occurred suddenly, and disappeared likewise; the resumption dating from 1885, a year sooner than in Europe.

The discounts of the New York Banks, which had been reduced to \$287,000,000, rose immediately upon the opening of the new period of prosperity, and a growing activity carried them to \$408,000,000 in 1889; after a few more fortunate years we come to the end of the period of prosperity and high prices.

We gather the following about discounts from the balance sheets of the Associated Banks of New York. If we cast our eyes over the balance sheets of the National Banks of the Union, we must note a falling off of \$100,000,000 in the paper discounted, that is, from \$1,300,000,000 to \$1,200,000,000 (1884-1885). After this short period of stoppage, clearly indicating the necessity for liquidation, discounts resumed their steady expansion, and rose to \$1,470,000,000 in 1886, to \$1,587,000,000 in 1887, and finally to \$1,684,000,000 in 1888, when we were in the midst of a period of development and consequently of high prices and of prosperity; and the same is true in France and England.

The study of a single section of the balance sheets, that of discounts and loans, has allowed us to follow the periods of prosperity, of panic, and of liquidation. When we next consider the other sections, we find the confirmation of our anticipations. Among these sections, in the order of importance, we notice first, public deposits in the form of running accounts; they constitute the reverse of the loans and discounts, whose total is immediately credited to the banks' clients, and the increase of paper on hand also follows. From 1865 to 1873 the steady increase was uninterrupted, viz., from \$183,000,000 to \$656,000,000; the maximum amount shows itself in the first quarter of 1873, eight months before the maximum of discounts and loans; in 1888 they ran down to \$622,000,000; there is, say, a difference of \$300,000,000 between the two totals, and this difference is the same, we observe, as that between the highest and the lowest of the two sections, as we notice it in the same year, during the liquidation of the panic of 1873. [Footnote: See table of balance sheets of the Banks of the United States.]

In the last period the progression is the same; from \$598,000,000 the amount of deposits advanced to \$1,350,000,000, whilst discounts and loans reached \$1,684,000,000; that is to say, there was still a difference of \$334,000,000. The relationship of the two sections was much more marked than in France and in England, where the amounts carried in accounts current vary more.

In the United States we then experienced a market based on credit, which, through discounts or loans by the banks, had reached the amount of the accounts current, and was about to call the clearing house into action to settle debts everywhere.

The office of the circulation of bank notes, subsequent to the severe regulations enacted in 1863 for the organization of National Banks, had varied in the last two periods that we are studying. From 1863 to 1873, after the war troubles, in proportion as greenbacks were withdrawn, the bank notes issued by the National Banks not only took their place, but replaced those of the State Banks, whose position the National Banks had taken.

We observe them rise firstly from \$66,000,000 to \$341,000,000 (1865-1873) at the sharpest period of the panic. We might even charge them with causing it, if the disproportion alone of the two sums, \$341,000,000 bank notes compared with \$944,000,000 of bills discounted, did not at once repel this theory. It is only necessary to glance at this idea to see its falsity.

The maximum circulation of bank notes has here coincided with the panic, a thing which had not happened either in France or in England for a long time, and instead of presenting its highest figure during the liquidation of the panic of 1873, it shows us its lowest figure, \$290,000,000 in 1877. Far indeed from increasing at this time as happened in Europe, the amount of bank notes in circulation decreased by means of the ebbs of metallic cash into the coffers of the banks: in reality the cause was lacking here; the ebb of specie was hardly felt at all.

With \$4,000,000 in 1865, the reserve was poorly provided, increasing to \$48,000,000 in 1870. At the end of the bursting forth of the panic of 1873 it became reduced to \$10,000,000, at the worst of the panic to \$16,000,000; then, under the influence of a slight whirl, it rose to \$33,000,000 in 1874, without reaching the highest figure of the preceding period, but soon the flow reappeared and reduced this metallic reserve to \$8,000,000 in 1875. It was not until after this depression that the true ebb reappeared, when the circulation of bank notes was at its lowest figure (\$290,000,000).

Whilst the \$8,000,000 specie reserve grew successively to \$54,000,000, \$79,000,000; \$109,000,000, and finally to \$128,000,000 in 1878, 1879, 1880, and 1881; that is to say, upon the approach of the panic, the circulation also expanded from \$290,000,000 to its highest figure \$323,000,000 in 1882, the year of the European crash and of the stoppage of the rise of prices in the United States. As to the minimum amount of the specie reserve, it is to be noted in 1883, between the critical years 1882 and 1884.

Metallic reserves are too small in the United States for their fluctuations to exhibit the same regular course they offer us in Europe; the least need exhausts them, and the smallest payments fill them to overflowing. The panic soon brought about a default in payment and a need of metallic money to re-establish equilibrium, but this remedy, if it does precede panics, sometimes precedes them by a year, as we have observed in 1883, and the same irregularity is apparent whether we observe the banks of the whole United States, or the Associated Banks of the City of New York.

After the panic of 1882-1884, the ebb of specie into the coffers of the National Banks of the United States and of the Associated Banks of New York resumed its usual course, and raised its level in the case of the National Banks from \$97,000,000 to \$177,000,000 between 1883 and 1885, and even to \$181,000,000 in 1888. This ebb occurred both in England and France at the same time, proving that cash reserves do not increase to the detriment of each other; it is a flood of specie or of bar-gold rendered easily available, through the conclusion of the decline of prices and the slackening of business, extending to the whole world, and in which each one partakes in proportion to its wealth, and above all in proportion to its credit circulation, and of the perfection of the settlements by means of clearing houses.

This regular course in the metallic reserves is no longer to be noted in the circulation of bank notes; instead of increasing and of entering its exchanges during the return of specie into the coffers of the banks, they again took part in the paper-money reserves. From \$323,000,000 in 1882 we see the circulation of bank notes decrease each year little by little until it is reduced to \$151,000,000 in 1888; and this remarkable fact confronts us in the face of an unheard of expansion of business, almost 50 per cent. greater than in 1873; and of a twofold simultaneous reappearance of \$84,000,000 specie and of \$172,000,000 bank notes. What then is the role of specie and of bank notes in the course of business in the United States? Much inferior to that which it plays in Europe in the absence of the machinery of a clearing house embracing the whole country, instead of being limited to some large cities.

The multiplicity of banks has strikingly helped the economic progress of the United States. From 1,500 National Banks in 1865 with a capital of \$393,000,000, the number rapidly rose to 2,089 in 1876.

The panic of 1873 did not hinder the movement; however, during its liquidation, the number shrank to 2,048, only to rapidly advance to 2,500 by the close of 1882, and 2,664 in 1884, and this movement did not even suffer a slackening as in 1873 during the liquidation of its crisis; it continued steadily, and we enumerate 3,120 banks in 1888.

The increase is a third more than in 1876, but it is far from being thus in the case of the capital, which only rose from \$504,000,000 to \$588,000,000—that is, only 16 per cent. The small banks in the new centres of population are the factor, then, which annually increases the number.

THE CONDITION OF BUSINESS IN 1888-92.—[Footnote: The facts I state in this *resume* are based upon statistics printed in the *Commercial and Financial Chronicle*.—DEC. W. THOM.]—The year 1888 was fairly prosperous despite a Presidential election, but securities were heavy, depression was general, and some few stocks shrank amazingly. Excessive issue of new railroad securities and disastrous competition between certain of the Southwestern roads were without prudence. Money was easy, bank-note circulation continued to decrease till it was only \$151,000,000, and legal tenders to \$81,000,000, but specie reserve rose to \$181,000,000, the banking capital to \$592,000,000 plus, the exports to \$1,350,000,000, and discounts and loans rose to \$1,684,000,000.

The sharp speculations in wheat and the formation of the French copper corner caused a certain fluctuation in general business. Large crops, excepting wheat; a flourishing cotton manufacture, a decline in production of petroleum by agreement, a 6 per cent. decline in pig-iron production, a very heavy one in Bessemer iron, and a very small export trade as compared with imports occurred. But in the year 1889, the export movement, consisting largely of cotton, was very great, being the greatest since 1880, and near the maximum, and compared favorably with the immense imports induced by the new tariff of 1890. In fact, the year 1889 surpassed all its predecessors in the volume of trade movements; the bank clearings showing an increase of 13 per cent. over 1888. The cotton, corn, and oats crops were the largest ever raised, and the wheat crop was almost the largest. But cotton brought fair prices, and cotton manufactures and production of iron were also considerably ahead of any previous year, while petroleum played an important part at good prices. Railroad earnings showed a wonderful recovery from 1888, and many reports gave the largest figures ever recorded.

During this year many consolidations and a number of foreclosures occurred. Railroad building fell to 5,000 miles compared to 7,000 in 1888. In general business, manufacturing and trade were extremely active, yielding plenty of work, good wages, and fair profits.

But the wool crop and its manufacture, a decline in the anthracite coal production, farm-mortgage pressure in the middle West, and low rates for corn and oats were untoward circumstances. Speculation on the general exchange was small, indicating a growing congestion, as was proved by the low bank reserves, especially in the last quarter of the year; but there was a heavy absorption of investment securities.

Gold, to the amount of \$37,000,000, was exported in the first six months. A small amount of it returned before 1890. Failures exceeded those of 1888 by 203 in number and about 20 per cent. in money. The woollen trade contributed much of this showing.

Importations surpassed all previous years, while exports exceeded them by nearly \$20,000,000, and the net export of gold amounted to nearly \$40,000,000. Money was easy during the first quarter, and then for a week a 10 per cent. rate occurred.

Thereafter, excepting the usual July 1st hardening, easy rates prevailed till August. Stiffening and fluctuating rates ensued till 30 to 40 per cent. in exceptional cases had been reached in December.

During the year, bank circulation declined to \$126,000,000. Specie reserve sank to \$164,000,000 and rose to

\$171,000,000 with the ending of the year; legal tenders to \$84,000,000, and the number of banks rose to 3,326; their capital to \$617,000,000; their deposits to \$1,436,000,000, and their discounts and loans to \$1,817,000,000, and surplus and undivided profits to \$269,000,000.

Unused deposits, capital, surplus, and undivided profits were growing very small in comparison with loans and discounts at the end of the year.

The banks had to work closely, and the demands of the South and West for currency were severely felt.

PANIC OF 1890.—In this condition the year 1890 opened, and, with ever growing pressure for bank accommodation, displayed great activity throughout all departments of trade and transportation, with an unequalled volume of transactions.

But it was as impossible to grant to the overtrading the money needed,—though the Secretary of the Treasury, in seventy days, threw a million a day into the market by buying Government Bonds,—as it had been for the "Gentleman's Agreement" of 1888—that of the chief railroad presidents—to maintain rates, to permanently sustain prices of railroad securities against an oversupply of them; however, both delayed the inevitable.

The debates on the silver question in Congress, leading to hopes of cheap money, and the higher prices due to this temporary and delusive stimulus; the large gross railroad earnings, demand for structural iron; the Buenos Ayres crisis, leading London to ship us large amounts of our securities; our small wheat, oats, and corn crops, and large cotton crop; the tariff discussion, ending with the McKinley Bill on October 6th, and the low bank reserves and money pressure beginning in August and lasting pretty steadily till December, and an immense shrinking of securities, were the chief features of the year; and failures beginning with that of Decker, Howell, & Co., in New York, on November 11th, and reaching a climax with the embarrassment of Baring Brothers [Footnote: Meanwhile Messrs. Charles M. Whitney & Co., David Richmond, J. C. Walcott & Co., Mills, Roberson, & Smith, Randall & Wierum, Gregory & Ballou, P. Gallaudet & Co., had failed in New York, the North River Bank of that city had been thrown into a receivership, and in Philadelphia the failure of Messrs. Barker Brothers, had been followed by a number of others. This was all bad enough, but sinks into insignificance when we recall the financial terror inspired by the great and historic house of Baring Brothers proving unable to meet its engagements, amounting to about, L28,000,000. The Bank of England received notice of its difficulties on September 7th, and by the 15th had secured from a syndicate, composed of the great London houses, a guaranty that it would be protected from loss to the amount of L4,000,000 if it would liquidate the Barings' business, and from the British Government the right to issue L7,000,000 of notes provided that sum was used to loan the Barings, and it therefore assumed on that date the task of paying the Barings' acceptances of L21,000,000 and L7,500,000 of other liabilities. Thus was averted what would probably have been the greatest panic in the world's history. That which occurred was a mere bagatelle to what was threatened. It is difficult to bestow too much credit upon Mr. William Lidderdale, Governor of the Bank of England, for conceiving and managing this plan. He has saved hundreds of thousands of homes and interests from misery. Under his able administration it is expected to extinguish the Barings' liabilities without calling on the Government, and it is believed something will be saved for the Barings from their former assets in business. This is deeply to be wished, for though the Barings have continued business under form of a stock concern with a million pounds capital, they are wonderfully restricted as compared with their former state. They have performed in banking too many helpful actions in furtherance of civilization to be eclipsed without sincere regret.] in mid-November, which failure itself greatly accelerated the panic, were the chief events of the year. Railroad building had increased to 6,081 miles, and the consequent new securities were poorly absorbed. Manufactures were generally prosperous.

The huge imports to take advantage of old tariff rates absorbed much money, while the Baring liquidation and that of other houses identified with South American enterprises, and the distrust bred by our Silver Bill caused a return of our securities, necessitating such a curtailment of credit that our panic took place. From July through December 31st, money ruled high and fluctuating.

The year shows a decline in circulation to \$123,000,000, a decline of specie reserve to \$178,000,000 with a subsequent rise to \$190,000,000, a decline in legal tenders to \$82,000,000, and of deposits to \$1,485,000,000, while the banks increased to 3,573 with a capital of \$657,000,000, and a surplus and reserve of \$316,000,000, and discounts and loans rose to \$1,932,000,000.

The year 1891 has exhibited the usual incidents succeeding a time of reorganizations after panics and, after a period of selling and settlement, a rehabilitation of affairs and the consequent advance in prices of securities. The unprecedented abundance of our crops as a whole, coupled with the almost universal shortage in European countries, largely aided the rehabilitation. Bank balances reflected this startlingly. On February 26, 1891, loans and discounts and over-drafts amounted to \$1,927,654,559.80. On May 4, 1891, loans and discounts and over-drafts amounted to \$1,969,-\$46,379.67. On the former date capital, deposits, surplus, and undivided profits amounted to \$2,462,456,677.92, and on the latter date to \$2,567,288,143.45.

On July 9, 1891, discounts, loans, and over-drafts amounted to \$1,963,704,948.07, and capital, deposits, surplus, and undivided profits to \$2,522,609,679.78.

Confidence is restored and prices have advanced, and should advance still further. There seem to be only three things that could check the advancing market, and of those the two chief ones seem pretty surely relegated to a fairly distant future. These latter two are, in the order of importance: (1) a free silver law, *i.e.*, a

law making, say, 67 cents' worth of silver pass for an equivalent of a 100-cent dollar; and (2) a very radical and abrupt change in our tariff law. The remaining and very minor influence is the breaking out of a general European war, which would at first induce a selling of our securities, and so lower prices, but which finally and shortly would benefit us by a subsequent returning flood of money exchanged for our various bread-stuffs, and supplies, and even securities of different sorts.

It would be better for our future if the liquidation of the last panic had been more radical in some cases, notably in land speculation. In this liquidation has not been thorough, and, as far as these cases influence the market, it has remained for a long time unsound, and even now is not fully recovered.

The past twelve months have witnessed a continued settling of old accounts, and the undertaking of new business, in a limited way, despite a somewhat uneasy feeling about silver and the now accomplished Presidential election. But the fact that an analysis of the bank returns to the Comptroller of the Treasury shows that available resources (capital, deposits, surplus, and undivided profits), as compared with demands (loans and discounts), are good and growing, considered in regard to the other signs indicating prosperity (see Introduction), justifies the prediction of the steady development of a prosperous period.

PANIC OF 1893-4.—It was early in 1893 that I wrote the last page of *A Brief History of Panics in the United States*. Two of the three checks to business prosperity to which I then referred, virtually occurred very soon. The determined resolve of the "free silver" members of Congress to continue the heavy monthly utterance of silver dollars redeemable at par in gold kept many business men most disquieted. They saw that the free gold in the Treasury was sinking greatly and steadily. They knew, also, that there was semi-official assertion of the right of the United States to redeem its silver dollars in Government notes. The Free-Coinage Bill had been passed by the Senate in July. The House defeated it. The legal fights against certain great railroad combinations and frequent labor strikes put additional burdens on the market.

In the United States and abroad the doubt of our willingness and ability to redeem our obligations at par in gold on demand grew most rapidly. Accordingly, exports of gold increased and hoarding of it began at home. To all this was added the expectation of a severe downward revision of our tariff laws if the Democratic Party should succeed, as was expected, in the Presidential election in November.

Business was scared and slowing down and, therefore, using less and less of its working capital. The false ease of increasing loanable funds in the custody of the banks lulled many into a specious confidence. But gold was exported in increasing quantities. Should the Government issue bonds in exchange for gold for the purposes of redemption? The Philadelphia & Reading receivership occurred. Easy money led to many consolidations of transportation properties and to very many large commitments. Money tightened. In March, it loaned at 60% per annum. Would President Cleveland call an extra session of Congress in March to repeal the silver law and to issue bonds in order to replenish the free gold in the Treasury? The Stock Market showed a great decline in quotations.

In April, 1894, Secretary of the Treasury Jno. G. Carlisle forbade the further issuance of gold certificates for gold deposited in the Treasury under Act of July 12, 1882, whenever the gold in the Treasury "reserved for the redemption of United States notes falls below \$100,000,000." This further alarmed the business world, which was not reassured when on the 20th Carlisle announced that the Treasury would pay gold for all Treasury notes so long as he had "gold lawfully available for that purpose." President Cleveland, that stalwart man, uttered this high and firm pronouncement on April 24th: "The President and his Cabinet are absolutely harmonious in the determination to exercise every power conferred upon them to maintain the public credit, to keep the public faith, and to preserve the parity between gold and silver and between all financial obligations of the Government." Very good, thought business, but how and when will you act accordingly?

Lack of business confidence increased greatly. Money rates advanced. Security values fell; imports greatly exceeded exports. Silver certificates were at 83. Something was about to snap in the general business machine. National Cordage broke from 57 to 15-1/2 on May 1st, receivers were appointed, and the panic of 1894 had declared itself and grew worse on the 4th and 5th. Call money rose to 40%. June witnessed great distress in business circles. On the 27th the Government of India stopped the coinage of silver for individuals and decreed the exchange value of the rupee at 16 pence. This lowered the exchange value of our silver bullion certificates to 62. President Cleveland helped matters somewhat by announcing that Congress would be convened early in September. In early July the panic increased somewhat despite the President's call for Congress to assemble on August 7th. Time loans were hardly obtainable. Conditions in August grew worse. Business was almost at a standstill, and failures were very frequent. From August 7th until the affirmative action on the 28th by the House of Representatives as to the repeal of the Silver Act, there was great concern.

Then hope revived; but hoarding of currency increased. Great banking interests in New York helped the situation mightily by importing over \$40,000,000 gold. September was an anxious but more hopeful month as the prompt adoption by the Senate of the Free-Silver Bill was anticipated. However, the weary debate dragged on in the Senate. President Cleveland demanded the unconditional adoption of the House measure. Certain compromisers, led by Senator Arthur P. German of Maryland, suggested that during each of the following fifteen months the Government purchase the minimum amount of 1,000,000 ounces of silver, and then stop all such purchases against which silver certificates had to be issued. This plan for speedy action President Cleveland and the Secretary of the Treasury opposed as worthless unless concurrently there was an issue of \$100,000,000 of Government bonds to replenish the gold in the Treasury. They asserted that new legislation must be had before any such bonds could be validated. So the business world continued to suffer.

Let me here state the fact, that without any fresh authorization, Secretary of the Treasury Carlisle did in January, 1895, issue \$50,000,000 of Government bonds to replenish the free gold in the Treasury, and that an injunction suit against their sale was dissolved by Judge Cox at Washington on the 30th of that month. Gorman had been right. The credit of the country would not have suffered by the additional issuance of some final \$60,000,000 (?) of silver certificates if the gold in the Treasury had concurrently been upbuilt to the extent of \$50,000,000 to \$100,000,000; but an immensity of business loss would have been averted.

But to resume the orderly recital of those times. October dragged along its weary length, while the Senate debated and business withered. Finally, on the 30th, the Senate accepted unconditional repeal of the Free-Silver Act. On November 1st, it became a law. The fear of repudiation thus escaped, though with fearful loss, the country plunged into all the unsettlement caused by a too sudden and too extensive change in the tariff. These changes were announced by the House Committee on December 27th.

The conditions mentioned in the last paragraph beginning on page 22 of the introduction to this book, were at work. Before the market had recovered from the "Silver panic" of 1893-4, the terror caused to the business world by the proposed very decided changes in the customs dues laid hold upon every trader in the United States and reflectedly upon every one of its citizens. It shook business throughout. Would not such a plan as is set forth in the footnote below [Footnote: "Mr. DeCourcy W. Thorn expressed himself yesterday as heartily indorsing the Democratic celebration to be held in this city January 17 next, to which all the party leaders will be invited and at which subjects of interest to the party will be discussed.

"When asked to give his opinion on some of the questions worthy of discussion at this gathering Mr. Thorn mentioned the tariff and economy in the conduct of national affairs.

"In the coming national Democratic celebration," he said, "I hope suggestions dealing with a rational reformation of the tariff and the need for national economy of every kind will be duly considered, and that on these two subjects alone, to be treated thoroughly but temperately, will this national Democratic gathering advise our party as to its best course to pursue.

"In three successive Presidential canvasses since the Civil War the Democratic party has received a majority vote of the people of the United States, and in my opinion would have gained three thereby, instead of the alternate two, elections to the Presidency if the tariff issue, the major one of the two great issues—namely, tariff and economy—on which they won, had been so sought to be applied as not to threaten unduly to affect general business."

PROTESTS AGAINST EXTRAVAGANCE

"All will agree with me that a reasonable economy, instead of the actual wild extravagance of government, is more than ever a national need. Who will disagree with me, that in addition to the contribution from internal revenue, the tariff should be used merely to contribute towards the due expenses of the Government economically administered, but so applied as not to break down the standard of American citizenship, as exemplified in the working people of our country; and eked out, if it is possible, by contributions into the national treasury of sound inheritance taxes?"

URGES CUT ON NECESSARIES

"Is it not possible to apply that general plan as follows: Divide, say, all of the articles now upon the tariff list into three classes.

- "(a) All such as are usually found in the typical American homes—I mean the homes of those admirably called by Grover Cleveland the 'plain people,' who are just the same class, I believe, as those indicated by Abraham Lincoln, when he said, 'God must greatly love the common people, for he made so many of them'—and put that list of articles on a free list or a severely tariff-for-revenue-only list.
- "(b) Create a second division composed of all the articles of luxury. Put upon them the very highest tariff they will stand and yet come into the country, except in the case of articles of antique art. These latter should be admitted free.
- "(c) Keep upon all other articles now in the tariff list the actual duties for the period of one year, but after that period and the actual imposition of the proposed new tariff I am discussing shall have begun, put all the articles involved in Class c upon a tariff-for-revenue-only basis, so constructed as not to break down the standard of the American workingman's living."

YEAR TO MARKET STOCK

"This period of one year—say, would allow manufacturers to market their stock on hand or already required to be produced on the basis of the market influenced by the quasi-Government protection extended by the existing tax laws of the nation.

"At the end of this period the manufacturer would be obliged to produce at less cost in order to find a market in competition with his foreign competitor, which competition would result in lower prices that he and his

foreign competitors would have to offer to the working people and other citizens of our country,"

EFFECT ON WAGES

"Those working people and other citizens would for a year have been enjoying at lesser cost all of the articles used in the typical American home I have referred to and could without loss therefore well afford to submit to a reduction in wages so long as that reduction in wages was contemporaneous with affording them a proportionate or more than proportionate reduction in cost of the articles for whose purchase those wages were sought to be expended. At the same time, the manufacturer at a proportionately lesser cost of production, through this reduction in wage-paying, would be selling as much or more of his old products at their old profit.

"Could we add to the income from the tariff and internal revenue the sums derived from the sound national inheritance tax I have mentioned above it is evident we would have supplied for the period of change from one tax system to another an 'adequate governor' to use a mechanical illustration, to prevent undue oscillation of prices in the business world."

BANK RESOURCES TO PREVENT STRAIN

"The further use of the existing financial agencies for cooperation of the banks in all sections to mass resources and apply them to prevent undue local strain upon credit dispels the fear of any necessary injury to the financial fabric in effecting this change.

"Grover Cleveland, whose character and principles I have long revered, seemed to me in the application of his plan for tariff reform to have endangered at once the success and the permanence of his reform of the tariff—which you recall was confessedly and very properly not a reformation to free trade—by failing to provide in it a method for avoiding or at least minimizing and shortening any incident disturbance to the business world. His plans, further, failed by not reasonably insuring for the transition period from the old tariff to the new one sufficient national income for national expenses."] have virtually prevented all that? When I sent that plan, which I had stated in an interview in the *Baltimore Sun* of December 24, 1910, to the various members of the Finance Committee of the United States Senate and to the Committee on Ways and Means of the House of Representatives, very many of them wrote me affirmatively on the subject.

To revert, however to the due order of our tale. It was on January 17, 1893, that Secretary of the Treasury John G. Carlisle, without any new legislative authority, offered to sell \$50,000,000 Government bonds already mentioned. If issued during the Silver-repeal fight when Gorman proposed his compromise, and if Carlisle had made it clear very early that as many such issues for gold would be made as were needed to keep the trading public safeguarded against any monetary-business cramping caused by the governmental policy affecting the tariff, a minimum rather than something approaching a maximum of disturbance would have followed. In better spirits because of the issuance of the \$50,000,000 Government bonds for gold, the business world worked along. The House had passed the Tariff Bill early in February by a big majority. Business soon looked up decidedly. But the Seigniorage Bill was adopted in March. President Cleveland, that sturdy upholder of the Nation's credit, vetoed it. He knew that any new moral obligation to keep at a parity with gold dollars worth in themselves less than one hundred cents in gold would materially shake domestic and foreign credit.

The veto had a deservedly splendid effect upon all our trading interests. This was increased by the failure of the House to override the President's veto of the Seigniorage Bill. But the Senate had not acted on the Tariff Bill. Business dwindled and there occurred strikes and other widespread labor troubles, especially in the bituminous coal trade. In many parts of the country the militia, and in Chicago United States troops, had to be employed to maintain order. Call money was a drug on the market. The net gold in the Treasury was very low. The Tariff Bill dragged its weary length along. President Cleveland and Chairman William L. Wilson of the Ways and Means Committee of the House insisted that the bill would produce sufficient revenue for the expenses of the Government. Senator Gorman and others in the United States Senate insisted to the contrary and demanded that the tariff on sugar should be kept at a high figure. A bitter controversy ensued. Finally, on August 13th, the House accepted the Senate Tariff Bill. It was time for some affirmative action, for among other threatening conditions the net gold in the Treasury had fallen to the lowest figure since resumption of specie payments in 1879.

Business began to revive. The issue of \$50,000,000 Government bonds for gold to replenish the Treasury stock was a very stimulating influence. The improvement dated virtually from the agreement in February between the Government and the Morgan-Belmont Syndicate to prevent the export of gold. In June, 1895, the Government gold was thus brought up to a round \$100,000,000 for the first time since December, 1894. But notwithstanding the fact that the business outlook was decidedly better, the inevitable disturbances to business following a general change in the tariff, unsettled political conditions in Europe and the selling of American securities owned abroad, the shortage of the American cotton crop, President Cleveland's Venezuela message, which many persons thought might bring on war with England, and another decline in the Treasury free gold, again shook business confidence.

Improvement, however, was stimulated by a remarkable increase in the supply of money in our balance of trade and by the virtual settlement of the Venezuelan question. The business situation was steadily clearing. The ills from the panic of 1893-4 were well behind us. The Spanish-American war proved to be harmless to us financially, while it tended to show that National neighborliness could be exercised in a splendidly unselfish

way. By our treaty of peace with Spain on December 10, 1898, an additional emphasis was given to the revival of trade. During 1899 a great rush to speculate brought the pinches in money inevitable in those pre-Reserve Bank days, but could not stop the general broadening of business interests although the industrial situation was unsatisfactory in spots. Indeed, the succeeding year was to witness severe industrial trouble destined to cause a general set-back in business. The situation cleared considerably when the November elections of 1900 showed the country to be safe from the Bryan silver policy.

Big business interests took hold of market conditions. Huge combinations of trade interests became the order of the day. The United States Steel trust was the vastest and was the transcendent achievement of J. Pierpont Morgan. The Stock Exchange was wild with speculation. The collapse came there in the famous decline of the 9th of May, 1901, precipitated by the Northern Pacific corner. In a month the market was tranquil again. The shooting of President McKinley produced great financial nervousness. The over-trading abroad, especially in Germany, was influencing us and all the rest of the world, which had not yet recovered from the vast financial cost of the English Boer War.

The ever increasing closeness of business relations the world over—their virtual solidarity, in fact—was being illustrated again with us. A chief example was trouble in the copper groups following a slackened world demand for their products.

Overtrading was doing its usual work. This induced loss of business courage in many quarters, or shall I say a realization that nowhere in the American business system was there any arrangement empowered so to marshal the competent strength of financial America that large and overwhelming disturbances should become impossible in business generally. Indeed, the Government forces seemed to tend contrariwise to big business practices. They took virtually their first step in "trust-busting" when they tried to break up the Northern Securities Company, which had been concocted to handle the celebrated Northern Pacific case. Labor troubles supervened. Many great speculative stock campaigns collapsed. The banks yielded to the imperative need to reduce credits. The year 1902 had almost experienced a widespread panic: but the marshaling of great private resources had restored confidence temporarily, and it closed in peace.

PANIC OF 1903.—Then came the real beginning of the protracted "trust busting" campaign. Business took fright, for it believed it was to be bullied rather than soundly regulated. Great failures on the Stock Exchange were its sure indications. Fear and distrust was upon all the American business world. Industries languished. Money was easy because less and less employed in trade. The great captains of industrial finance, however, patched up troubles and differences here and there and, availing themselves of the plentiful supply of money, soon had a notable speculation at work. Gradually the country took heart again and business experienced a revival.

It was thought that President Roosevelt, elected in November, 1904, would help bring about discrimination between "good" trusts and "bad" trusts, and whose "trust" is bad! But "trust busting" became an even more popular and political pursuit. Indeed, the abuses practised by many of them had created a situation regarding which the question was becoming in the popular mind simply this, "Shall trustdom rule the people or the people rule the trusts?" The sound control of both before the Constitution of their country must be the happy solution.

The Bill of May 9th of the House of Representatives, giving the Interstate Commerce Commission power to fix railroad rates, was ominous, and little noticed by the general business world; but some noticed and acted. The Senate had not voted; nor did they realize what rate-regulation implied to railroad balance sheets and so to the Stock Exchange. Some interest was selling securities. The business public was awakening to the fact that legislators, legislation, the people, and the law were hot after the business methods of many organizers. Fear, founded on a tardy awakening to facts, declared itself, but spasmodically, for now and again the great captains of finance and industry were trying to save the situation. They successfully aided whatever of momentum there was in general business. But Congressional activity as to any combinations in restraint of trade was unabated. It called upon the President for such information as the Interstate Commerce Commission might have as to a combination in restraint of trade between the Pennsylvania Railroad and certain lines allied with it.

The battle between the old style and the new style of managing great corporations was fairly on. Labor troubles added to the existing disarrangement of business. San Francisco's vast earthquake and consuming fire sucked much capital away from financial centres in order to replace the \$350,000,000 of capital destroyed. The money market was greatly restricted. The stock market showed signs of panic. The Secretary of the Treasury continued to help the situation as best he knew how. Notably, he offered \$30,000,000 Panama Canal Bonds, and very successfully sold them. That afforded an additional basis for bank-note issuing. The stock market responded with a fine upward swing. Heavy dividends were declared by certain leading railroad and other corporations. Indeed many high records were made by securities and so distracted attention from that steady tide of keener inspection and stricter regulation by the agents of the people which was destined to unmoor and toss and injure many a financial craft. Railroads asserted that the country needed a great increase in railroad trackage, but that the actual treatment of the roads deterred extensions through frightening capital. So the year 1906 wore away after having sorely tried the nerves of the whole business world which it left in a most justly apprehensive state.

THE PANIC OF 1907.—The panic of 1907 opened with great but feverish activity in business. Driven by necessity the railroads adopted the issuance of short-time notes for new capital, as the market would absorb no long-time obligations except at forbidding interest rates. Any signally untoward happening could promptly precipitate a panic. The United States Treasury withdrawal of Government deposits from the banks, and the

collapse of the Knickerbocker Trust Company in New York were such happenings.

On March 14th, the panic declared itself and pandemonium ruled on the New York Stock Exchange,—that prominent barometer of business conditions. In its coming it had exemplified again the characteristic symptoms of a panic which I have set forth on pages 7-16 of the introduction to this book. After the spasm of March 14th and the business cataclysm of the following October, the business world staggered along, but with the strength merely that results from courage and the exercise of reserve power husbanding its resources and lightening its load. The decrescendo movement of another business cycle had begun. Runs on financial institutions were prominent in our country. But throughout all the western world resources were strained. Money had been overused. Money rates were extremely high. Failures were frequent everywhere. In our own country painful disturbances, relaxation, and unrest were everywhere apparent. The radical doctrines of many political leaders tended to further unrest.

The business of the country was halting between the need sanely to regulate "big business" and the fact that "big business" had been obliged to fight for prosperity in the welter of unallowable but very often undeniable conditions. The railroads justly claimed that they were forbidden living rates. Their opponents accused them of carelessness and waste. The railroads and the Interstate Commerce Commission were the protagonists respectively of the conservative and the radical thought of the country, which is so rich in natural wealth and is inhabited by so resourceful a people that though by statutes they be well managed or not, their National wealth increases. So ran the business world away, but with a very slow and steady approach towards a rational rectification of disputed legislation as affecting business. Meanwhile the courageous "captains of industry" were leading in business as best they could and were better appreciating the temper and needs of the American people.

Added to the difficulties resulting from our languishing trade at home, we suffered reflectedly from the constriction of business in Europe, which was acutely aware that the disturbance in the Balkans threatened to destroy the peace of Europe. Conditions were not yet quite ready there for a cataclysmic war. For example, statistics had not quite demonstrated to Germany that the physique of her people and the rate of increase of their families were declining while the expenditures for superpreparedness for war was demanding either retroaction in that regard or else an expenditure from the principal of their property. Germany did make in one year the sacrifice of five per cent. of her principal for yet fuller preparedness for war. Indeed since late in 1908, it is fair to say that consciously or unconsciously the whole world has been in travail. Whatever broad measures statesmen anywhere have promulgated, have been subjected to the unusual stress and strain of world-wide unrest. Like the treacherous undertow that wrenches those who venture in, has been the world unrest upon all phases, incidences, and predicates of business. Some of us have long realized this; some have not.

With November, 1908, came the election of that great constitutionist, Taft, to the American Presidency upon a platform less radical than that of his opponent. This heartened the constructive forces of the country. But very little upbuilding resulted. The coming revision of the tariff was of itself sufficient further to restrict business undertakings, and to cause many great producers of goods to arrange to unload at lowering prices their actual and their future outputs. But the conserving of resources since the panic had helped the superficial situation, and the spasmodic stimulus that so often follows a general heightening of the tariff showed itself after the adoption of the tariff bill in August, 1909.

The illness and after a month or two the death of the great business leader, Harriman, caused in the securities market a great decline. Fundamental conditions were unsettled. The best that could be expected was a see-saw movement until some power should set our country and the business world at large once more securely on their respective bases. The Anti-Trust Law, the Interstate Commerce Law, and such like influences continued to disturb the United States, while Europe was beneath the surface unendingly agitated.

General business marked time while statesmen or pseudo-statesmen planned and promised panaceas. President Taft joined that populous group. The securities market, that barometer of business, fell beneath such assurance of further unsettlement. How can you continue to trade unless reasonably sure that conditions will remain fairly constant! All this militated against a normally quick recovery from a great panic. Little scares were frequently experienced. Influences matured and presented one great political party split into two great factions, while the other chief party endured something of the same development.

A conservative handling of National policies, or a radical one was the question in each case. The November elections indicated a popular revolt against the party in power—the Republican. Unshaken, President Taft followed his convictions and in his Presidential message, of December, 1910, to Congress called for a halt in legislating to regulate corporations, until the effect of the laws on the statute books could be studied. The stock, money, and industrial markets were marking time. Not to go forward in business or elsewhere is in itself to retrograde. Thus opened the year 1911. Under the influence of easy money, better business on some of the western railroads, better dividend declarations here and there, a rosy "prediction as to the early future of the iron market, and the belief that the Interstate Commerce Commission would grant better rates to the railroads, general business felt encouraged and prices advanced somewhat. But in February the Interstate Commerce Commission forbade the railroads any increase whatever in rates. The roads were obliged to institute many cramping economies which to them very often meant the using up of their corpus and to the business world of the United States a permeating retrogressive influence. Reductions in railroad dividends were symptomatic of that. To add to all this there developed additional business unrest predicated in the general tariff change favored by the House of Representatives in April.

The United States Supreme Court decision interpreting the Sherman Anti-Trust Law of 1890 as affecting the Standard Oil Company case and the American Tobacco Company case were delivered late in May and were unexpectedly reassuring to business. This was another evidence that the best thought of the Nation everywhere was seeking to rectify the looseness of the past without killing business initiative and continued endeavor. So matters see-sawed in the business world. It was indeed in a state of unstable equilibrum. Stocks declined now abruptly; then, after some slight recovery, gently; but the slant was decidedly downward.

The Government felt that its duty required it to push forward the investigation of industrial corporations; and that the Nation so demanded. And it was in October that the chief of such corporations—the United States Steel Trust—had a Government suit for dissolution filed against it. The sturdy bell-wether of the corporation flock was attacked by the great United States Government. What would happen to the humbler members of the flock! Certain court decisions were reassuring to corporations in November and business brightened for the time being and during much of December in certain notable instances, for in that month the Interstate Commerce Commission report appeared and seemed less drastic in tone.

The year 1912 opened with an additional influence promising increased alarm and marking of time. I mean that candidates for the Presidential nomination began their canvasses, which, of course, implied new plans for making new laws to govern business conditions. Former President Roosevelt announced his candidacy in February. President Taft was already constructively in the field. Governor Harmon of Ohio was mentioned in many quarters as a successful reformer who wished soundly to guide but not unwittingly injure business, while Underwood was similarly praised in addition to his record on the recasting of the tariff into a further revenue measure. Champ Clark, Speaker of the House of Representatives, was a popular candidate. And Woodrow Wilson loomed up as though forecast by destiny. At first and in many important sections of the country considerably more delegates to the Republican National Presidential Convention were chosen for Mr. Taft than for Mr. Roosevelt. This and brisker business served to hearten conservative interests, and the general market revived despite the decidedly downward influence in our country of the gigantic strike among English coal operators, who thereby spread trouble throughout the British Empire, and, through the solidarity of the financial world to-day, affected every financial centre.

The remainder of the year was dominated by the Presidential canvass. Taft, called by many a "stand-patter"; Roosevelt, "the insurgent," who proposed to mend all the troubles of the political public by his usual brusque methods; and Woodrow Wilson, the "conservative with a move on," made their appeals for popular support. Until the verdict in November a see-saw market took place in the United States, while Europe and reflectedly the remainder of the world became alarmed lest the war declared in October by the Balkan States against Turkey should produce world-wide trouble.

The November Presidential election showed that Woodrow Wilson received 435 votes, Mr. Roosevelt 90, and Mr. Taft 8. However, the popular vote for Woodrow Wilson was more than 1,000,000 below that cast for Messrs. Roosevelt and Taft jointly, and about 2,000,000 short of a majority of all the votes cast for the Presidential nominees—Socialist, Republican, Democratic, and so on. But the vitally significant fact is that the popular vote for the "stand-pat" candidate—Mr. Taft—was very small in comparison with the joint vote of the three candidates whose platforms called for a drastic handling of National policies,—Debs, Roosevelt, and Wilson.

Drastic recasting of the rules of any game unsettles play. The market dropped. But fortunately for the country the ripe and balanced and active intellect and character of Woodrow Wilson, elected President, lent much reassurance against the extensive political surgery he had been chosen to perform. All knew that he would be thorough and reasoning. All the grievous handicaps that business suffers from uncertainty of regulation, it was thought would be overcome as promptly as possible. But the pledged great change of the tariff was enough to induce retrenchment of business endeavor. With a major factor unusual in any proposition, how can stability, much less progress, be expected in any interest?

THE PANIC OF 1913.—Retrogression in business began very early in 1913 and increased until mid-October, 1914. On October 3, 1913, the new Tariff had become a law; but other reforms still jostled business. However, by mid-October, 1914, the Interstate Commerce Commission seemed to have become less radical in its views, the Industrial Trade Commission was at work apparently studying the essentials of the industrial situation, the United States Supreme Court was delivering opinions in check of indeterminate statutory meddling with business and the splendid potential of the Reserve Bank system was offering for use.

It is hard not to overstate the vast re-assurance offered to business by linking together the banking power of the country through the Reserve Bank system. Just as an enormously large number of troops skilfully thrown into an endangered—a panicky—position will ensure success, so can the vast resources of the Reserve Bank system restore financial order when panic fear is declaring itself. During the past two years of threatening from the disturbances in Mexico, our country has learned to forecast the benefit that the Reserve Bank system predicates; but our stay and confidence has been the cool and far-seeing statesmanship of our great President, Woodrow Wilson.

The breaking out of the "World War" in August, 1914, had so flooded our market with securities held in Europe that the Stock Exchange, following the continental example, closed from July 31st till November 28th, when the New York Stock Exchange and other American stock exchanges opened for restricted business in bonds and on December 15th to unlimited trading in stocks and bonds. Other kinds of exchanges acted much the same. This checked business in every direction, despite the great issuance of temporary Clearing House certificates. In two months the latter tendency was changed in many quarters.

Then began the "war boom." Gradually it has spread, bringing such enormous profits in all our lines of business supplying the needs of the "Great War," that the first twelve months of it showed more than a billion dollars trade balance in our favor, and that balance then began increasing on a progressive scale. Money is yet plentiful. All business is stimulated. Our crops are unexampled in quantity and money value. Everything points to great prosperity unchecked until the "Great War" ceases and withdraws the stimulating demand for our supplies.

Then will come a readjustment of our trade. Money will have become actually or potentially scarce because of the previous vast expansion of our business, and all the banking power of our country will be requisite to prevent a crashing panic. The Reserve Banks will have gotten fully to work by then, it is to be hoped. They will be needed to lead in the life-saving operations. Such first aid to the injured will obviate such financial sufferings as the old-time panics presented. They can hardly be expected to reduce the casualties to the volume of the slow panic in securities in the year 1913, for the volume of business involved at present is vastly more swollen and the kind more circumscribed.

It is interesting to note that panics have continued to appear about as regularly as usual, but less crushingly, since 1890, the date up to which the first and second editions of this book had traced them. Remedial or partially preventive measures have been more and more utilized by the financial powers to control them. Never will panics cease so long as trade and fear are exemplified on this earth, but just as modern medicine is overcoming the dangers threatening the physical man, so is modern finance overcoming panic and the other dangers which threaten financial stability. After all, reserve power and only a rational use of financial resources are the surest preventive of panic. And that the American people have not been forced through entrance into the "World War" to deplete their reserve strength, especially in a financial way, is due to the splendid conduct of our great President. He is leading this country to unexampled prosperity. Instead of consenting that old abuses in the business world should continue until an over-indignant public had grown riotously injurious, he has guided the current of their wrath, initiated or promulgated the methods for redressing their grievances, and has saved to the country, to its people, and to general business itself, the splendid and full service of business enterprise freed from the abuses and handicaps that unregulated conditions had forced it to employ in the unrestrained struggles of the open mart.

DECOURCY W. THOM.

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