

# INVESTIGATION OF CONCENTRATION OF ECONOMIC POWER 

## A STUDY

SUBMITTED BY THE

## FEDERAL TRADE COMMISSION

TO THE

# TEMPORARY NATIONAL ECONOMIC COMMITTEE CONGRESS OF THE UNI'PED S'IATES 

SEVENTY-SIXTH CONGRESS

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Public Resolution No. 113
(Seventy-fifth Congress)

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.M'THORIZING AND DIRECTING A SELECT COMMITTEE TO
    MAKE A FULIL AND COMPPFTE STUDY AND INVESTIG.-
        TION WITH RESIECT TO THE CONCENTRATION OF
        ECONOMIC IOWER IN, ANI) FINANCLAL CONTROH,
            OYRR, I'RODUCTION AND DISTRIBUTION
                        OF GOODS ANI) NERYICES
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                                PART \(31-31-A\)
    INVESTMENTS, PROFITS, AND RATES OF RETURN FOR SELECTED INDUSTRIES

Printed for the use of the Temporary National Economic Committee

(Created pursuant to Public Res. 113, 75th Cong.)
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Dewey Anderson, Erecutive Secretary
Theodore J. Kreps, Economic Adviser

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Part I
DIGEST OF STUDIES OF LONG-TERM PROFITS OF TOBACCO, STEEL, FARM MACHINERY, SULFUR, CEMENT, AND RAYON INDUSTRIES


## DIGEST OF STUDIES OF LONG-TERM PROFITS OF TOBACCO, STEEL, FARM MACHINERY, SULFUR, CEMENT, AND RAYON INDUSTRIES

The Temporary National Economic Committee assigned to the Federal Trade Commission the study of long-term profits of industries in which there is a high degree of concentration of control of the business and where monopolistic practices have been known to exist or are suspected. The study was limited to six such industries, namely: tobacco, steel, farm machinery, sulfur, cement, and rayon. However, additional industries might have been included if time permitted.

The results of the study of long-term profits of these six industries are presented in separate reports and are summarized herein. The reports deal with the investments, profits, rates of return, and other pertinent information for the important companies in each industry. Altogether seven such reports are available, of which two relate to the sulfur industry. These two reports have already been presented for the record of the Temporary National Economic Committee as exhibits 388 and 389 . The reports for the six industries are as follows:

Investments, profits, and rates of return for tobacco processors.
Investments, profits. and rates of return for iron and steel manufacturers.
Investments, profits, and rates of return for manufacturers of farm implements and machines.

Financial report, including investments, profits, and rates of return for Texas Gulf Sulphur Co.

Financial report, including investments, profits, and rates of return for Freeport Sulphur Co.

Investments, profits, and rates of return for cement companies.
Investments, profits, and rates of return for rayon companies.
The period covered by the studies dates back 20 years or more. The information is presented for the principal companies as well as for a varying number of other companies, individually and by groups, in each industry. In each case the companies selected for study account for a major portion of the production or capacity of the industry: The basic information was obtained in part by questionnaire and in part from reports of the Federal Trade Commission and other published reports. For some companies, the information was obtained by field. examination at their offices. The study of the cement industry was based on Federal income-tax returns.

The average annual rates of return earned on the investinents by the companies representative of each industry are a's follows:

| Industry | Maximum number of companies ${ }^{1}$ | Years | Rates of return on- |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total investment | Stockholders' investment | Common-stockholders' equity |
| Tobacco processors. | 13 | 1917-37 | Percent 16.44 | Percent 18.22 | Percent $21.90$ |
| Iron and steel manufacturer | 11 | 1917-38 | 6. 59 | 7.02 | . 7.03 |
| Farm machinery manufactu | 72 | 1913-37 | 8. 10 | 8.44 |  |
| Texas Gulf Sulphur Co.-. | 1 | 1919-38 | 28.75 | 28.75 | 28:75 |
| Freeport Sulphur Co. | 1 | 1919-38 | 15.87 | 15.87, |  |
| Cement companies. | 18 | 1917-36 | (2) ${ }^{13}$ | 9.99 | $r^{11.04}$ |
| Rayon companies.. | 8 | 1915-38 | 13.99 | 14.18 |  |

[^0]
## Tobacco Industry

The 13 companies which are the subject of the report on investments, profits, and rates of return for tobacco processors produced over 97 percent of the total United States production of cigarettes in the year 1934, over 89 percent of the smoking tobacco, more than 75 percent of the chewing tobacco, and over 98 percent of the snuff. In view of these large proportions, the operating results of the 13 companies are significant for the industry. The 13 companies are as follows:

American Tobacco Co.
Liggett \& Myers Tobacco Co.
P. Lorillard Co.
R. J. Reynolds Tobacco Co.

American Snuff Co.
George W. Helme Co.
United States Tobacco Co.
Porto Rican American Tobacco Co.
Brown \& Williamson Tobacco Co.
Axton-Fisher Tobacco Co.
General Cigar Co., Inc.
Consolidated Cigar Co.
Bayuk Cigars, Inc.
The first eight companies listed above, together with British-American Tobacco Co., which controls Brown \& Williamson Tobacco Co., were controlled by the old American Tobacco Co. when it was ordered dissolved in 1911. In May 1911 the Supreme Court of the United States found the American Tobacco Co. to be a monopoly violating the provisions of the Sherman Antitrust Act. At that time the company produced from more than 76 percent to over 96 percent of the various tobacco products, except large cigars, of which it produced nearly $141 / 2$ percent. In addition to monopoly in the manufacture of tobacco products, the company exercised control over other products, such as licorice paste used in chewing tobacco, and tinfoil, cotton smoking-tobacco bags, wooden shipping boxes, tin and pasteboard boxes, and other containers.

The history of American Tobacco Co. dates from 1890, when the company was organized as a consolidation of the five principal cigarette manufacturers, who, among them, controlled approximately 90 percent of the country's cigarette business. ${ }^{1}$

According to the Report of the Commissioner of Corporations on the Tobacco Industry, the American Tobacco Co. soon began to extend its dominion to cover other branches of the tobacco industry. From 1894 to 1897 the company developed its plug-tobacco business by methods which succeeded in forcing its leading competitors to combine their interests with those of the American Tobacco Co. This resulted, late in 1898, in the organization, substantially under its control, of the Continental Tobacco Co. This company took over the plug-tobacco business of American Tobacco Co. and also that of several leading competitors, and shortly after its organization acquired Liggett \& Myers Tobacco Co., the largest and most important plug-tobacco concern in the country. The Continental, by this and subsequent acquisitions, acquired substantial control of the plug-tobacco business of the country.

Shortly after the organization of the Continental Tobacco Co., the combination obtained control of practically all of the leading snuff concerns of the country. This led to the formation of American Snuff Co. and placed the combination in a dominant position in the manufacture of all of the important kinds of tobacco, except cigars.

The combination then turned its attention to the cigar business, at that time the most important of all of the branches, but also the most.difficult in which to effect a combination. There was a very large number of small manufacturers and comparatively few large ones. Except for the cheaper type of cigars, machine production had been of little consequence. However, in 1901 the American Tobacco Co. entered extensively into the cigar business by organizing the American Cigar Co. The acquisition of the competing cigar companies by the American Cigar Co. immediately made the combination the largest single manufacturer of

[^1]cigars in the country, but it did not then possess, and never succeeded in acquiring, any large proportion of the total cigar business of the United States.

The power of American Tobacco Co. and associated companies was further greatly increased by the organization in 1901 of the Consolidated Tobaccocco., a holding company. The organization of this latter company was planned by leading interests of the combination and was the means of concentrating control within the combination. The stockholders of American Tobacco Co. and Continental Tobacco Co. were induced to exchange their common stocks for bonds of the new company bearing a fixed rate of interest. As a result, the greatly increased profits in the combination's business from the reduction in the internal-revenue tax soon afterward, which increase the stockholders generally could not foresee, accrued in large part to the advantage of the inside interests as the chief holders of the Consolidated's stock.

In 1904 the American, Continental, and Consolidated companies were merged into the present American Tobacco Co., the central concern in the combination. The present company formerly owned approximately two-thirds of the capital stock of British-American Tobacco Co., Ltd. (Imperial Tobacco Co. owning the other one-third), a majority of the stock of the American Cigar Co., ${ }^{2}$ P. Lorillard Co., United Cigar Stores Co., R. J. Reynolds Tobacco Co., MacAndrews \& Forbes Co., Conley Foil Co., and a majority of the common stock (but not a majority of all voting stock) of American Snuff Co. The American Tobacco Co. also controlled directly or indirectly numerous smaller concerns and owned, in fee, various plants and properties, which for the most part had been acquired from competitors. Through American Cigar Co., the company also controlled the entire capital stock of Federal Cigar Co., one-third of the stock of Porto Rican American Cigar Co. (American Tobacco Co. also owning one-third), and a majority interest in a number of other cigar and leaf-tobacco companies.

The decree of dissolution provided that practically the entire business of American Tobacco Co. and its subsidiary and affiliated companies comprising the combination should be divided among 14 separate companies, including the American Tobacco Co. A portion of the assets and business of the combination was sold to two companies created or resurrected for the purpose, namely, Liggett \& Myers Tobacco and P. Lorillard Co. The business of American Snuff Co. was divided into three parts, and the ownership of the company was detached from the control of the American Tobacco Co. American Snuff Co. retained a part of the business, while the rest was apportioned between George W. Helme Co. and Weyman-Bruton Co. (now United States Tobacco Co.), two new companies organized for this purpose.

The businesses of R. J. Reynolds Tobacco Co., British-American Tobacco Co., Porto Rican American Tobacco Co., and United Cigar Stores Co. remained intact, though their stocks, so far as held by American Tobacco Co., were distributed to the common stockholders of that company. This detached the companies from the corporate control of American Tobacco Co.

The segregation of the assets of the combination resulted in radical changes in the proportions of the various products formerly produced by American Tobacco Co. and its subsidiaries and affiliates, as compared with the business remaining with that company after its reorganization. The division of the combination's business not only involved the readjustment of the financial structure but also the distribution of brands and plants to the various companies which were to carry on the business. There also have been important changes in the proportions of the various branches of the business carried on by individual companies since that time.

There has been a marked change in the proportions of leaf tobacco used in the manufacture of cigars, cigarettes, and other tobacco products since 1910. In 1937 nearly 55 percent of the total leaf tobacco used was consumed in the manufacture of cigarettes, as compared with only 6 percent in 1910. On the other hand, leaf tobacco used in the manufacture of cigars declined from 27 percent in 1910 to less than 15 percent in 1937, and during this period leaf tobacco used in the manufacture of smoking and chewing tobacco and snuff declined from 67 percent in 1910 to 30 percent in 1937.

The four largest tobacco processors, from the standpoint of invested capital and volume of sales, are American Tobacco Co., Liggett \& Myers Tóbacco Co., R. J. Reynolds Tobacco Co., and P. Lorillard Co. Together, these companies in 1934

[^2]sold 84.2 percent of the total United States production of cigarettes, 74.1 percent of the smoking tobacco, and 70.4 percent of the chewing tobacco. The net changes in the control of manufactured products by these four companies from 1910 (when they were units of the tobacco combination) to 1934 are as follows:

|  | Percentage of United States total production |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cigarettes |  | Smoking tobacco |  | Chewing tobacco ${ }^{1}$ |  |
|  | 1910 | 1934 | 1910 | 1934 | 1910 | 1934 |
| American Tobacco Co. | 38.8 | 27.2 | 32.0 | 19.7 | 25.4 | 1.6 |
| Liggett \& Myers Tobacco Co | 29.1 | 27.3 | 19.4 | 21.9 | 35.7 | 26.5 |
| R. J. Reynolds Tobacco Co.. |  | 25.6 | 2.6 | 23.2 | 17.7 | 25.1 |
| P. Lorillard Co.------------ | 15.9 | 4.1 | 22.1 | 9.3 | 5.4 | 17.2 |
| Total | 83.8 | 84.2 | 76.1 | 74.1 | 84.2 | 70.4 |

I Includes plug and twist and fine-cut chewing tobacco.
Notwithstanding the shifts in the proportions of the various products manufactured by the individual companies, the only important change in the combined control of the products by the four companies was in chewing tobacco, which fell from 84.2 percent for the four companies which were units of the tobacco combination in 1910 to 70.4 percent in 1934.

With the tremendous growth in the consumption of cigarettes since the dissolution of the Tobacco Trust in 1911, these four companies have actively developed the cigarette phase of their businesses. They have been aided in the maintenance of their dominant positions in the tobacco industry by ownership of established brands and the financial resources at their command. The difficulty, uncertainty, and cost of popularizing new brands have been important deterrents to now competition.

Over 98 percent of the United States production of snuff in 1934 was produced by American Snuff Co., George W. Helme Co., and the United States Tobacco Co. This high degree of concentration of this branch of the business represents a continuation of the almost complete control of the tobacco combination which was partitioned among these three companies pursuant to the dissolution decree in 1911. The continuation of this control has been materially aided by the same factors applying to the cigarette branch of the business. The current trend toward concentration of cigar manufacture and fewer companies is due in part to the introduction of cigar-making machinery, to the gradual decrease in cigar consumption, and to the use of national and regional advertising promotion in the merchandising of this product.
In the Federal Trade Commission's report on agricultural income inquiry, it is stated at pages 550 and 551 :
"The inquiry has disclosed that four brands of cigarettes dominate the cigarette industry; that the manufacturers of those brands, with minor exceptions, maintain identical prices on them; and that the prices are almost simultaneously changed upward or downward with little regard to leaf tobacco or general commodity price levels. The history of the price changes on the four leading brands demonstrates the exercise of the power concentrated in the hands of the manufacturers of those brands. The sales volume of 10 -cent cigarettes indicates the existence of a popular demand for them. It is believed that competition within the cigarette industry would be increased by popular cigarettes selling in various price ranges and that new or more important competition in manufacturing would result in increased competition in the purchase of leaf tobacco. The uniform internal-revenue tax of $\$ 3$ per thousand on small cigarettes has tended to restrict the most active and substantial new competition that has manifested itself in the industry in many years. It is, therefore, recommended that Congress consider the advisability of levying a graduated tax on cigarettes in lieu of the present uniform tax. It is further recommended that the graduated scale be based upon the manufacturers' net selling prices."

Rates of return on the combined investments of all companies for which information was'available are shown for each of the years 1917 to 1937 in the following tabulation. Rates of return were computed on three bases of investment; namely, the total investment, stockholders' investment, and the common stockholders' equity, before deducting provisions for Federal income and profits taxes from earnings, and after eliminating goodwill, appreciation, and other intangibles from
investments. The amount deducted from investments for such intangibles ranged from $\$ 154,349,900$ at the beginning of 1917 down to $\$ 66,055,602$ at the end of 1937. The investments on which rates of return were computed are the average of the investments at the beginning and end of each year for each company.

| Year | Number of comspanies | Rates of return on- |  |  | Year | Number of com. panies | Rates of retura on- |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total invesiment | Stock holders' investment | Common stockholders' equity |  |  | Total investment | Stockholders' investment | Common stockholders' equity |
| 1917 | 9 | Percent 21.76 | Percent 26.43 | Percent 55.72 | 1929 | 13 | Petcent 17.41 | Percent 18.85 | Percent 22.26 |
| 1918 | 10 | 23.64 | 30.21 | 54.33 | 1930 | 13 | 18.77 | 20.45 | 23.85 |
| 1919 | 11 | 16.87 | 21.52 | 33.75 | 1931 | 13 | 19.08 | 20.56 | 23.72 |
| 1920 | 12 | 16.17 | 19.99 | 29.46 | 1932 | 13 | 17.94 | 19.27 | 21.99 |
| 1921 | 12 | 17.54 | 20.54 | 29.48 | 1933 | 13 | 10.07 | 10.59 | 11.50 |
| 1922 | 12 | 18.64 | 21.00 | 29.47 | 1934 | 13 | 13.32 | 14. 21 | 15.84 |
| 1923 | 12 | 17.23 | 19.09 | 25. 60 | 1935 | 13 | 13. 40 | 14.26 | 15.52 |
| 1924 | 12 | 17.00 | 18. 54 | 24.02 | 1936 | 13 | 15. 58 | 16.72 | 18.89 |
| 1925 | 12 | 18. 14 | 19. 75 | 24.44 | 1937 | 13 | 15.12 | 16. 21 | 18.29 |
| 1926 | 12 | 18. 23 | 19.90 | 23.87 |  |  |  |  |  |
| 1927 | 12 | 17. 86 | 19.39 | 23. 27 | A verage. |  | 16. 44 | 18.22 | 21.90 |
| 1928 | 13 | 16.38 | 17.85 | 21.28 |  |  |  |  |  |

The table shows that during the 21-year period, 1917-37, all companies as a group averaged 16.44 percent on the total investment, 18.22 percent on the stockholders' investment, and 21.9 percent on the common stockholders' equity. It will be observed that consistently high rates of return were earned on each basis of investment during each year. The lowest returns in any year were earned in 1933 when 10.07 percent was earned on the total investment, 10.59 percent on the stockholders' investment, and 11.5 percent on the common stockholders' investment. Exceptionally high rates of return were earned on each basis of investment in every other year, particularly during 1917 and 1918. While the returns for the last few years were not as high as those for the previous years, the trend has been upward.

The following tabulation compares the average annual rates of return during the years 1917-37 on each basis of investment for the individual companies, classified according to their primary functions:


${ }^{1}$ Annual averages for 1918-37.
${ }^{2}$ Annual averages for 1928-37.
${ }^{2}$ Annual averages for 1920-37.

- Annual averages for 1919-37.

The above table shows that as a group the manufacturers of cigarettes and other tobacco products had the highest average annual rates of return during the period under review, followed closely by the snuff manufacturers. The operations of the cigar manufacturers were very much less profitable, their returns averaging only a little over half of those for the other two groups. Their average profits were equivalent to 9.32 percent of the total investment, 9.66 percent of the stockholders' investment, and 10.82 percent of the common stockholders' equity, as compared with 17.34 percent, 19.55 pcreent, and 23.39 percent of the respective investments of the manufacturers of cigarettes and other tobacco products, and 16.68 percent, 16.68 percent, and 20.54 percent, respectively, for the snuff manufacturers.

The showing for all companies as a group is influenced considerably by the preponderant investments and large profits of the three largest manufacturers. For example, on the basis of total investment, the combined investments of American Tobacco Co., Liggett \& Myers Tobacco Co., and R. J. Reynolds Tobacco Co. averaged nearly 70 percent of the investments of all companies combined, and over 80 percent of the investments of the companies comprising the cigarette manufacturers. The relative importance of the various groups of manufacturers from the standpoint of investment is shown as follows:

Ratios of total investment

|  | Annual average 1917-37 | $\begin{gathered} \text { A verage, } \\ 1937 \end{gathered}$ |
| :---: | :---: | :---: |
| Manufacturers of cigarettes and other tobacco products: <br> Big Three. | Percent 67.88 | Percent $68.50$ |
| Little Three. | 14.04 | 14.30 |
| Total -.-...---...------- | 81.92 | 82. 80 |
| Clgar manufacturers (4 companies) | 10.60 | 9.32 |
| Snuiff manufacturers (3 companies) | 7.48 | 7.88 |
| Total | 100.00 | 100.00 |
| Combined investments | \$598, 300, 727 | \$736, 643, 988 |

It will be observed that there was comparatively little change in the relative proportions of the combined investments for each group during the two periods shown in the tabulations, the decline in the 1937 proportion for the cigar companies being offset by slight increases in the proportions for each of the other groups during that year. The tabulation which follows presents a similar comparison for the individual companies within each group and shows the deviations of their relative proportions in 1937 from those based on the average of the annual investments throughout the entire period.

## Ratios of total investment

|  | Annualaverage, 1917-37 | A veramc, 1937 |
| :---: | :---: | :---: |
| Manufacturers of clgarettes and other tobacco products: | Percent | Percent |
| . American Tobacco Co-----------------------1-1- | 33.03 | 31.74 |
| Liggett \& M yers Tobacco Co. | 24. 68 | 27. 91 |
| : R. J. Reynolds Tobacco Co. - | 25.15 | 23.07 |
| Total (Blg Three) | 82.86 | 82.72 |
| P. Lorillard Co | 12.32 | 9.03 |
| Axton-Fisher Tobacco Co | 1.58 | 1.16 |
| Brown \& Willlamson Tobacco Co | ' 4.24 | 7.09 |
| Total | 100.00 | 100.00 |
| Comblned investment. | \$490, 147, 166 | \$609, 955, 640 |
| Cigar manufacturers: | Percent ${ }^{\text {a }}$ | Percent ${ }^{\text {a }}$ |
| General Cigar Co.. Inc --...-.- | - 37.53 | 35.73 26.76 |
| Consolidated Cigar Co......... | + 27.76 | 22.65 |
| Bayuk Cigars, Inc.. | 11.83 | 14.86 |
| Total | 100.00 | 100.00 |
| Combined investment. | \$63, 389, 990 | \$63, 612, 389 |
| Snuff manufacturers: | Percent | Percent |
| United States Tobacco Co | 46. 18 | 47.90 |
| American Snuff Co- | 25.51 | ${ }_{26.06}^{26.04}$ |
| George W. Helme Co. | 29.31 | 26.04 |
| Total | 100.00 | 100.00 |
| Combined investment. | \$44, 763, 571 | \$58, 075, 959 |

1 Annual average, 1918-37.
, Annual averge,
3 Annual average, 1928-3i.

- Annual average, 1919-37.
The above tabulation shows that the combined investments for each group in 1937 exceeded the average of the annual investments for each group during the period 1917-37. This is indicative of the general growth of the companies throughout the period under review. For example, the combined investments of the three largest companies, which account for the greater portion of the total investments for all companies, increased over 200 percent from $\$ 165,485,477$ in 1917 to $\$ 504,588,788$ in 1937. The combined investments of these three companies increased steadily from 1917 to 1933 , reaching a maximum of $\$ 560,755,492$ in the latter year, then decreasing each year to $\$ 504,588,788$ in 1937.

Further indication of the relative importance and profitableness of the various companies is presented below from the standpoint of sales and operating results.

The tabulation immediately following summarizes the net sales, net income, dividend payments, and net increase in surplus for each of the 13 companies. The upper part of the table gives the total for each item for all years for which the information was available during the period 1917-37. The lower part of the table gives for each company the annual averages of the net sales, net income, dividend payments, and net income remaining after the payment of dividends.

|  | Years | Net sales | Net income | Dividends paid on- |  |  |  | $\begin{aligned} & \text { Net in- } \\ & \text { come after } \\ & \text { dividends } \end{aligned}$ | Other net dednctions | Net increase in surplus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Preferred stock in cash | Common stock in cash | Common stock in stock | Total. |  |  |  |
| Manufacturers of clgarettes and other tobacco products: |  |  |  |  |  |  |  |  |  |  |
| The American Tobacco Co | 1917-37. | \$4, 010, 995, 492 | \$505, 150, 172 | \$66, 401, 622 | \$345, 239, 184 | \$62, 757, 136 | \$474, 397,942 | \$30, 752, 230 | \$7, 809, 627 | \$22, 942, 603 |
| Liggett \& Myers Tobacco Co | 1917-37. | 3, 985, 392, 987 | 333, 837, 184 | 32, 355, 024 | 217, 711, 038 | 11, 342,750 | 261, 408, 812 | 72, 428,372 | 143, 263, 137 | 29,165, 235 |
| R. J. Reynolds Tobacco Co. | 1917-37- | $4,735,995,263$ | 500, 521, 896 | 10, 281, 250 | $384,350,000$ | $80,000,000$ | 474, 631, 250 | 25, 890, 746 | 1,787, 453 | 24, 103, 293 |
| P. Lorillard Co............... | 1917-37. | 1, 496, 946, 247 | 88, 821,144 | 16, 049, 943 | 29, 579, 730 | 4,999, 948 | 70, 629, 621 | 18, 191, 523 | 10. 147, 666 | 8,043, 857 |
| Brown \& Williamson Tobacco Axton-Fisher Tobacco Co... | 1928-37- | $484,171,335$ $171,732,375$ | $10,166,720$ $9,568,290$ | $3,010,000$ 734,195 | $\begin{array}{r}2 \\ 11,720,000 \\ 2,855 \\ \hline\end{array}$ | -399, 500 | 14, 730, 000 | $\begin{array}{r}3 \\ 4,563,280 \\ 4,549 \\ \hline\end{array}$ | [ $22,970,000$ | 18, 406, 720 |
|  |  |  |  |  |  |  |  |  |  |  |
| General Cigar Co., Inc | 1917-37 | 699, 959, 347 | 52, 334, 713 | 9, 497, 030 | 33, 424, 255 |  | 42, 921, 285 | 9,413, 428 | 382, 585 | 9,030, 843 |
| - Consolidated Cigar Co | 1919-37 | 321, 015,895 | 27, 922, 164 | 11, 279, 136 | 9, 061, 839 | 540, 000 | 20, 880, 975 | 7,041, 189 | 4, 360, 012 | 2, 861, 177 |
| Bayuk Cigars, Inc....-........- | 1917-37 | 229, 903, 074 | 13, 921, 284 | 3, 947, 732 | 2, 445, 439 | 358, 348 | 6,751, 519 | 7, 169, 765 | 2, 161, 567 | 5, 008, 198 |
| Porto Rican Amerlcan Tobacco Co...-.......-- | 1920-37 | 97, 712, 404 | 951, 051 |  | 3, 522, 683 |  | 3, 522, 683 | 3 2, 571, 632 | ${ }^{8} 1,956,362$ | ${ }^{3} 615,270$ |
| Snuff manufacturers: <br> United States Tobacco Co | 1917-37. | 303, 902, 835 | 54, 492, 673 | 6, 307, 731 | 35, 954, 720 | 9,239,620 | 51, 502, 071 | 2, 990, 602 | 8 1, 653, 732 | 4, 645, 334 |
| American Snuff Co. | 1917-37- | 168, 885,836 | 39, 207, 759 | 4,980,528 | 28, 820,000 |  | 33, 800, 528 | 5, 407, 231 | 8 1, 201, 602 | 6. 708,833 |
|  | 1917-37 | 150, 699, 289 | 39, 338, 597 | 5,581, 081 | 29, 183, 715 | 2,000,000 | 36, 764, 796 | 2, 573, 801 | S 397, 853 | 2, 971, 654 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Liggett \& Myers Tobsaco Co | (6) | 189, 780, 618 | 15, 897, 008 | 1,540, 715 | 10, 367, 192 | 540, 131 | 12, 448, 038 | 3, 448, 970 |  |  |
| R. J. Reynolds Tobacco Co | (0) | 225, 523, 584 | 23, 834, 380 | -489,583 | 18, 302, 381 | 3,809,523 | 22, 601, 488 | 1, 232, 892 |  |  |
| P. Lorillard Co. | (6) | 71, 283, 154 | 4, 229,578 | 764, 283 | 2, 360, 939 | 238, 092 | 3,363, 310 | 866, 263 |  |  |
| Brown-Williamson Tobacco Co | (6) | 48, 417, 133 | 1,016, 672 | 301, 000 | 1, 172, 000 |  | 1, 473, 000 | ${ }^{3} 4.56,328$ |  |  |
| Axton-Fisher Tobacco Co. | (6) | 8,586,618 | 478, 414 | 36,709 | 144, 258 | 69,975 | 250,942 | 227, 471 |  |  |
| Cigar manufacturers: |  |  |  |  |  |  |  |  |  |  |
| Consolidsted Cigar Co | (6) | 16, 895, 573 | 1, 469,587 | 593, 638 | 1, 476, 938 | 28,421 | I, 098, 998 | 370,588 |  |  |
| Bayuk Cigars, Inc... | (6) | 10, 947, 765 | 662, 918 | 187, 987 | 116,449 | 17,064 | 321, 500 | 341.417 |  |  |
| Porto Rican American Tobacco Co.............- | (6) | 5, 428, 466 | 52, 836 |  | 195, 704 |  | 195, 704 | ${ }^{3} 142,868$ |  |  |
| Snuff manufacturers: |  |  |  |  |  |  |  |  |  |  |
| United States Tobacco Co |  | 14, 471, 563 | 2, 594, 889 | 300, 368 | 1,712,129 | 439, 981 | 2, 452, 479 | 142, 409 |  |  |
| American Snuff Co.... |  | 8, 042, 182 | 1, 867, 036 | 237, 168 | 1,372.381 |  | 1,609, 549 | 257, 487 |  |  |
| George W. Helme Co.. | (0). | 7, 176, 156 | 1, 873, 266 | 265, 765 | 1,389, 700 | 95, 238 | 1, 750, 704 | 122, 562 |  |  |

[^3]1 Includes $\$ 40,764,710$ for goodwill and other intsngibles written off.
Includes $\$ 6,000,000$ of dividends paid in 6 percent unsecured notes.

The table shows that American Tobacco Co., Liggett \& Myers Tobacco Co., and R. J. Reynolds Tobacco Co. were also the largest from the standpoint of sales. During the 21 years 1917-37, the sales of the Reynolds Co. were largest, amounting to nearly $43 / 4$ billion dollars, followed by American Tobacco Co., with a little over $\$ 4,000,000,000$, and Liggett \& Myers with nearly $\$ 4,000,000,000$ of sales. It will be noted that in the order of profits American Tobacco Co. was first with a little over one-half billion dollars, followed closely by the Reynolds Co. with almost the same amount, and Liggett \& Myers with one-third of a billion. These profits represent the net income after providing for all of the costs of doing business, including provisions for Federal income and profits taxes.

American Tobacco Co. and R. J. Reynolds Tobacco Co. each paid out about the same amount in dividends during the period. American Tobacco Co. paid out a total of $\$ 474,397,942$, as compared with $\$ 474,631,250$ for the R. J. Reynolds Co. The total for Liggett \& Myers was $\$ 261,408,812$. After taking into account other charges to surplus, the net increase in surplus during the period was $\$ 22,942,603$ for American Tobacco Co., $\$ 29,165,235$ for Liggett \& Myers Tobacco Co., and $\$ 24,103,293$ for R. J. Reynolds Tobacco Co. These net increases, together with the amounts for dividends paid in common stock on common stock, reflect earnings retained in the business by each company in the amount of $\$ 85,699,739$ for American Tobacco Co., $\$ 40,507,985$ for Liggett \& Myers Tobacco Co., and $\$ 104,103,293$ for R. J. Reynolds Tobacco Co. The comparatively smaller aluunt for Liggett \& Myers is accounted for by the fact that the company reduced the value at which it had been carrying goodwill and other intangibles on its balance sheet to $\$ 1$ by charges to surplus of $\$ 40,709,710$ in 1929 and $\$ 55,000$ in 1935.

The reinvested earnings contributed importantly to the growth of each of the three companies. During the period under review they amounted to nearly 80 percent of the net increase in capitalization of American Tobacco Co. and about 90 percent of the net increase for R. J. Reynolds Tobacco Co. For Liggett \& Myers Tobacco Co. they amounted to nearly half the net increase before any adjustments for goodwill, appreciation, and other intangibles prior to the time they were written off by the company as explained above.

Throughout the period under review the annual sales of the three largest companies averaged 73 percent of the sales for all companies and 88 percent of the combined sales of the manufacturers of cigarettes and other tobacco products. The relative importance of the various groups of manufacturers from the standpoint of sales is shown by the following tabulation, which compares the sales for each group in 1937 with the average of the annual sales for the years 1917 to 1937, inclusive:

Ratios of sales

|  | Annual average, 1917-37 | Total, 1937 |
| :---: | :---: | :---: |
| Manufacturers of cigarettes and other tobacco products: | Percent | Percent |
|  | 72.97 | 73.93 |
| Little Three. | 15.44 | 18.37 |
| Total. | 88.41 | 92. 30 |
| Cigar manufacturers (4 companies) | 8.02 | 4. 74 |
| Snuff manufacturers (3 companies). | 3.57 | 2.98 |
| Total | 100.00 | 100.00 |
| Combined sales_ | \$830, 883, 994 | \$1, 063, 327, 917 |

It will be noted that there was comparatively little change in the relative proportions of the combined sales of the three largest companies in the two periods shown in the tabulation, but the 1937 proportion of the combined sales of the threa smaller manufacturers of cigarettes and other tobacco products was somewhat higher than their proportion based on the average of the annual sales throughout the period. The sales of the manufacturers of cigarettes and other tobacco products amounted to 92.3 percent of the total sales of the companies in all groups during the year 1937, as compared with 88.41 percent of the average for the years 1917-37. On the other hand, the sales for each of the groups of cigar and snuff manufacturers were proportionately smaller in 1937 than for the entire period. The tabulation which follows presents a similar comparison for the individual companies within each group and shows the deviations of their relative proportions
in 1937 from those based on the average of the annual sales throughout the perio 1917-37.

Ratios of sales

|  | A nnual average 1917-37 | Total 1937 |
| :---: | :---: | :---: |
| Manufacturers of cigarettes and other tobacco products: | Percent | Percent |
| American Tobacco Co...-- | 26. 0 | 24.72 |
| Liggett \& Myers Tobacco Co-- | 25.84 | 24.50 |
| R. J. Reynolds Tobacco Co-- | 30.70 | 30.88 |
| Total (Big Tihree) | 82.54 | 80.10 |
| P. Lorillard Co-- | 9.70 | 7.74 |
| Brown \& Wlliamson Tobacco Co | 16.59 | 10.20 |
| Axton-Fisher Tobacco Co | ${ }^{2} 1.17$ | 1.96 |
| Total | 100.00 | 100.00 |
| Combined sales. | \$734, 590, 892 | \$981, 506, 371 |
| Cigar manufacturers: | Percent | Persent |
| General Cigar Co., Inc. Consolidated Cigar Co | $50.04$ | ${ }^{43.10}$ |
| Bayuk Cigars, Inc. | 16.44 | 21.83 32.48 |
| Porto Rican American Tobacco Co | 18.15 | 2. 59 |
| Total | 100.00 | 100.00 |
| Combined sales. | \$66, 603, 201 | \$50, 399, 958 |
| Snufi manufacturers: | Percent | Perient |
| United States Tobacco Co | 48.75 | 57.21 |
| American Snuff Co | 27.09 | 24. 03 |
| George W. Helme Co. | 21.17 | 18.76 |
| Tótal | 100.00 | 100.00 |
| Combined sales | \$29, 689, 901 | \$31, 421, 588 |

${ }_{1}^{1}$ Annual average, 1928-37.
${ }^{2}$ Annual average, 1918-37.
${ }^{3}$ A nnual average, 1919-37.
${ }^{4}$ Annual average, 1920-37.
Costs, expenses, and profits per dollar of net sales were substantially the same in 1937 as for the entire period 1917-37. The significant ratios, expressed in cents per dollar of net sales, for the various groups for each period are summarized as follows:

## Ratios of sales


[^4]As shown above, the margins of profits in relation to sales were outstanding for the snuff manufacturers. Throughout the period under review their margin of net income of 21 cents out of every dollar of net sales was twice that of the three largest cigarette manufacturers as a group and three times that of the cigar manufacturers. However, despite this showing in comparison with the margins for the other groups, their profits in relation to investment were somewhat smaller than those of the cigarette companies but nearly twice those of the cigar companies and indicates that the volume of business done per dollar of investment was much lower than for the other groups.

The relationship of the above factors is interestingly brought out in the following tabulation which shows for each group the total investment, sales, ratio of sales to investment, or capital turn-over, and the manner in which the profits per dollar of net sales applicable to the total investment is related, through the turnover, to rates of return on the investment. The upper part of the tabulation gives the information on the basis of the average of the annual investment and sales for 1917-37, and the lower part of the table gives the information for the year 1937 alone.

Correlation of capital turn-over to rates of return

|  | Total investment | Net sales | Rate of capital turnover in terms of sales | Profit per dollar of sales | Rate of return on ment |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturers of cigarettes and other tobacco products: <br> Big Three | A verage, 1917-37 |  |  |  |  |
|  | $\begin{array}{r} \$ 406,136,489 \\ 490,147,166 \\ 63,389,990 \\ 44,763,571 \end{array}$ | $\begin{array}{r} \$ 606,303,987 \\ 734,590,892 \\ 66,600,201 \\ 29,689,901 \end{array}$ | $\begin{aligned} & \text { Times } \\ & 1.49 \\ & 1.50 \\ & 1.05 \\ & .66 \end{aligned}$ | $\begin{array}{r} \text { Cents }^{\circ} \\ 12.60 \\ 11.85 \\ 8.87 \\ 25.15 \end{array}$ | $\begin{aligned} & \text { Percent } \\ & 18.81 \\ & 17.34 \\ & 9.32 \\ & 16.68 \end{aligned}$ |
|  |  |  |  |  |  |
| All companies ${ }^{1}$ - |  |  |  |  |  |
| Cigar manufacturers ${ }^{2}$ |  |  |  |  |  |
| Snuff manufacturers ${ }^{3}$ |  |  |  |  |  |
|  | Year 1937 |  |  |  |  |
| Manufacturers of cigarettes and other tobacco products: |  |  |  |  |  |
|  | \$504, 588, 788 | \$786, 147, 107 | 1. 56 | 11.66 | 18.17 |
| All companies ${ }^{1}$ | 609, 955, 640 | 981, 506, 371 | 1.61 | 10. 12 | 16. 29 |
| Cigar manufacturers | 68, 612, 389 | 50, 399, 958 | . 73 | 8.34 | 6. 12 |
| Snuff manufacturers | 58, 075, 959 | 31, 421, 588 | . 54 | 24.88 | 13.46 |

## ${ }^{1} 6$ companies. <br> ${ }^{2} 4$ companies. <br> ${ }^{3} 3$ companies.

The capital turn-over reflects the time required for the sales to equal the investment. On the average, the sales of the three largest companies as a group equaled the amount of their investment about once every 8 months as compared with once every 11 months for the cigar companies and once every 18 months for the snuff companies. The tabulation shows the influence of the rapidity of turnover on the rates of return on investment when related to margins of profits on sales. For example, twice the margin of profit was required for the slower moving products of the snuff companies than for the three largest companies in order to produce comparable rates of return on investment.

Large cash salaries and bonuses were received by the executives of some of the companies in this profitable industry, particularly by those of American Tobacco Co. During the years 1935-38, the three highest-paid officers of this company received an average total compensation of $\$ 600,000$ per annum. This amount was two and one-half times the next largest amount paid by Liggett \& Myers Tobacco Co., and from about four to nearly six times the average amount paid by most of the other companies. The following tabulation shows the aggregate
compensation received by the three highest-paid officers of each company for which the information was available during the years 1935-38:

Aggregate compensation ' received by the 3 highest paid officers during the years 1935-38

|  | 1935 | 1936 | 1937 | 1938 | A verage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| American Tobacco Co. | \$423, 237 | \$497, 607 | \$794, 146 | \$685, 016 | \$600, 001 |
| Liggett \& M yers Tobacco Co | 203, 020 | 280, 449 | 251, 134 | 241, 519 | 244, 030 |
| R. J. Reynolds Tobacco Co | 145, 000 | 145, 000 | 143, 750 | 175, 000 | 152, 187 |
| P. Lorillard Co.; Inc. | 132, 500 | 110, 000 | 95, 000 | 90, 000 | 106, 875 |
| Axton-Fisher Tobacco Co | 20, 125 | 39, 855 | 36,000 | 66,393 | 40, 593 |
| General Cigar Co. | 150, 364 | 119,757 | 73, 808 | 76, 000 | 104,982 |
| Porto Rican American Tobacco | 89, 666 | 66, 000 | 66, 000 | 51, 063 | 68, 182 |
| Consolidated Cigar Corporatio | 135, 500 | 107, 375 | 114, 666 | 102, 100 | 114, 910 |
| Bayuk Cigars, Inc. | 79, 851 | 118, 479 | 116, 205 | 146, 447 | 115, 245 |
| United States Tobacco Co | 146, 851 | 191, 670 | 154, 872 | 151, 609 | 161, 250 |
| American Snuff Co | 112, 240 | 103, 210 | 115, 000 | 108, 891 | 109, 835 |
| George W. Helme Co | 143, 409 | 129, 716 | 108, 645 | 115, 510 | 124, 320 |

${ }^{1}$ Includes cash salaries and bonuses.
The highest-paid individual officer of any of the companies named in the above tabulation was the president of American Tobacco Co., followed by the president of Liggett \& Myers Tobacco Co. and by the chairman of the board of R. J. Reynolds Tobacco Co. Although these three companies are of about the same relative importance and size, American Tobacco Co. paid its president, George W. Hill, an average of $\$ 292,624$ during the years $1935-38$. This amount is more than three times the average compensation of $\$ 86,899$ received by the president of Liggett \& Myers Tobacco Co. during these years, and more than four times the average amount of $\$ 72,500$ received by the chairman of the board of Reynolds Tobacco Co.

During each of the years 1935-38, the total compensation received by George W. Hill, president of American Tobacco Co., thas $\$ 212,199$ in 1935, $\$ 246,173$ in 1936, $\$ 380,976$ in 1937, and $\$ 331,348$ in 1938. These amounts while large do not compare with the compensation he received from the company in some of the earlier years. For instance, in 1929, he received $\$ 605,613$; in 1930, $\$ 1,010,567$; and in 1931, $\$ 1,051,630$. The huge salaries and bonuses received by Mr. Hill and other officers of the company, together with other emoluments received by them, under an "employees' stock subscription plan," gave rise to a series of stockholders' suits. These suits were instituted in 1931 by Richard Reid Rogers, a stockholder of the company, who complained that for many years the officers of the company had received large annual fixed salaries as well as large annual cash, profit-sharing bonuses paid under a bylaw adopted in 1912. He maintained that the bylaw was invalid and that even if valid the amounts paid in accordance with its provisions were unreasonably large and therefore subject to revision by the courts.

Rogers also sought to restrain the company from issuing stock pursuant to the "employees' stock-subscription plan." Under this plan which was adopted at a stockholders' meeting on July 30, 1930, 56,712 shares of unissued common stock $B$ of the corporation were distributed in accordance with the recommendationsmade by the president of the company. Of this number, 32,370 were allotted to the officers and directors, of which 13,440 shares, or 24 percent, of the total were allotted to the president. The remaining 24,342 shares were allotted in relatively small amounts to 525 employees. The subscription price was the par value of the stock, $\$ 25$ a share. On June 28, 1931, when the allotment of stock was made, its market price was $\$ 112$ per share, more than four times the subscription price. Valuing the subscription privilege by the difference between the subscription price and the market value of the stock, Hill received by the allotment $\$ 1,169,280$ in addition to his annual compensation of more than a million dollars in that year. The stock-subscription rights awarded the five vice presidents of the company, similarly valued, amounted to $\$ 1,451,595$.

The stockholders' suits were carried to the Supreme Court of the United States, which reversed the decree of the circuit court of appeals and remanded the case to the district court of New York.

According to the New York Times of July 14, 1933, litigation over the bonuses and stock allotments ended July 13 when compromise settlements were reached. Under the settlements it was stated that the allotment of American Tobacco Co.'s stock to officers and employees wa's to be rescinded and the profit-sharing
plan under which bonuses had been paid to the officers of the company was to be modified.

Former Judge Martim T. Manton, who wrote the decisions by the circuit court of appeals favoring the company and its officers in these suits, was convicted in June 1939 of the charge of conspiracy to sell justice and was sentenced to 2 years in jail and fined $\$ 10,000$. According to the press, Manton testified that while the suits were pending in his court he approached Louis Sampter Levy, formerly of the law firm of Chadbourne, Stanchfield \& Levy, counsel for the tobacco company in the suits, for a loan of $\$ 25,000$ and subsequently received the better part of a loan in 10 times that amount from Lord \& Thomas, advertising agents for American Tobacco Co., through James J. Sullivan, an associate in some of his business ventures. It was also stated that.Albert D. Lasker, president of Lord \& Thomas, declared that he provided the $\$ 250,000$ for the loan at the request of Levy and Paul M. Hahn, attorney and vice president of American Tobacco Co., unaware of the true nature of the loan and with the understanding that it would be repaid by American Tobacco Co. This loan was never repaid.

These revelations led to disbarment proceedings against Levy and Hahn and, according to the New York Times of November 15, 1939, Judge John C. Knox directed that Levy be disbarred from practice before the Federal bar.

## Steel Industry

The price relationships existing in the steel industry through the basing-point system and other evidence of monopolistic practices are a matter of record before the Temporary National Economic Committee. Therefore, the summary deals only with the financial aspects of the inquiry into this industry.

The report on investments, profits, and rates of return for iron and steel manufacturers presents information concerning the operations of 11 companies, which supply the bulk of the demand for iron and steel products. Their operations constitute integrated systems from raw material to finished product and include the production of iron ore, pig iron, coal, limestone, crude steel, castings, and a great variety of semifinished and finished steel products. These companies own 84 percent of the steel making capacity of the country. The annual capacity in gross tons for each company and its subsidiaries and the percentage of each company's capacity of the total for the industry are as follows:

| Name of company | $\begin{gathered} \text { Annual ca- } \\ \text { pacity } 1 \end{gathered}$ | Percent of total for industry |
| :---: | :---: | :---: |
| United States Steel Corporation | 25,790,000 | 35. 31 |
| Bethlehem Steel Corporation | 10, 042,000 | 13.75 |
| Republic Steel Corporation | 6, 500, 000 | 8. 90 |
| Jones \& Laughlin Steel Corporation | 3, 671, 200 | 5. 03 |
| National Steel Corporation-1- | 3, 400, 000 | 4. 65 |
| Youngstown Sheet \& Tube Co | 3, 120,000 | 4. 27 |
| Inland Steel Co--.- Mill Co | 2, 760, 000 | 3. 78 |
| Wheeling Steel Corporation | 1,750,000 | 2. 39 |
| Otis Steel Co. | 872,000 | 1. 19 |
| Pittsburgh Steel Co. | 810,000 | 1.11 |
| Total | 61,318,700 | 83.94 |

${ }_{1}$ A nnual capacities in gross tons of steel ingots and steel for castings as reported for the industry in the 1938 edition of the Iron and Steel Works Directory of the United States and Canada. Total capacity for the industry reported to be $73,047,892$ gross tons.

As shown above, the production capacity of United States Steel Corporation is two and one-half times as large as that of the next largest company, Bethlehem Steel Corporation. In terms of capacity and production, United States Steel Corporation has dominated the industry since its formation in 1901. At that time it produced about 43 percent of the pig-iron production of the country, 65 percent of the production of steel ingots and castings, and 50 percent of the production of all kinds of finished roll products. Although the corporation has increased both its productive capacity and investment since that time, its participation in the industry with respect to production has steadily declined, however, particularly with regard to steel ingots and castings. For example, by 1938, its participation in the industry had fallen to 33 percent of the production of steel ingots and castings and 29 percent of the production of finished rolled products.

According to the Report of the Commissioner of Corporations on the Steel Industry, ${ }^{3}$ the formation of United States Steel Corporation was the culmination of a. consolidation movement which was begun in the late nineties. Great consolidations, one after the other, were effected in the principal branches of the industry. This movement toward industrial centralization was characterized by the restriction of competition through combination, the integration of productive processes through acquisition under one control of raw materials and manufacturing plants, and the creation of large amounts of inflated securities and attendant promotional profits.

According to the report, the three great companies dominating the production of crude and semifinished steel at the time of the organization of the United States Steel Corporation were the Carnegie Co., Federal Steel Co., and National Steel Co. Six other large concerns-American Steel \& Wire Co., American Sheet Steel Co., American Tin Plate Co., American Steel Hoop Co., American Bridge Co., and National Tube Co.-controlled the lighter finished products. Not one of these companies was entirely self-sufficient. The secondary group was dependent upon the primary group for its crude steel, and the primary group was largely dependent upon the secondary group for a market for its products.

These great concerns almost simultaneously began a movement for selfsufficiency. The secondary group began acquiring ore reserves and crude-steel plants; and the primary group, finding their chief customers turning into rivals, began the manufacture of finished products. These efforts toward integration threatened to result in great duplication of steel producing and finishing capacity of the country and to involve them also in the invasion of each other's business. In 1900 the Carnegie Co. threatened to erect a great tube plant near Cleveland, thus invading the field of finished manufacture. Steel men and associated financial interests regarded this situation as dangerous and efforts were begun to merge the conflicting interests into a great corporation and avert a threatened "steel war." This led to the formation of United States Steel Corporation with a total capitalization of over $\$ 1,402,000,000$ to acquire the capital stocks of the following companies and to provide it with working capital:

> Carnegie Co.
> Federal Steel Co.
> National Steel Co
> American Steel Wire Co.
> American Sheet Steel Co.
> American Tin Plate Co.
> American Steel Hoop Co.
> American Bridge Co.
> National Tube Co.
> Shelby Steel Tube Co.
> Lake Superior Consolidated Iron Mines.

The report of the Commissioner of Corporations also states that the actual value of the United States Steel Corporation's entire tangible properties at its formation was not more than $\$ 700,000,000$, or about one-half its capitalization. The report also states that enormous profits were made from the flotation of securities of the new company. The underwriting syndicate alone, of which J. P. Morgan \& Co. were the managers, cleared a cash profit of about $\$ 62,500,000$.

The company and its subsidiaries constitute a highly integrated unit from ore to finished products. Through its subsidiaries, the company owns vast natural resources including coal, limestone, and high-grade iron ore. It operates railroads, shipyards, and steamship lines. It manufactures all kinds of iror and steel products and cement, with emphasis on the ordinary open-hearth trade steel for the railroad construction and other capital goods industries. It is also engaged in the fabrication of a wide variety of finished products including bridges, ships, barges, railroad, and oil-well equipment. The principal producing center has always been in Pittsburgh, but important plants are also located in Gary, Cleveland, Youngstown, Chicago, Birmingham, San Francisco, and Milwaukee.

Since its organization, United States Steel Corporation has continued to act solely as a holding company and has acquired numerous competing and other concerns of which the more important were Union Steel Co. in 1902, Clairton Steel Co. in 1904, Tennessee Coal Iron \& Railroad Co. in 1907, and Atlas Portland Cement Co. and Columbia Steel Co. in $193 n$
Bethlehem Steel Corporation, the second largest company in the industry, had particularly rapid growth during and immediately following the World War.

[^5]This company was organized in 1904 to acquire control of a number of companies engaged in shipbuilding and the manufacture of ordnance and specialty stcel products. Charles M. Schwab, who was one of the organizers of United States Stecl Corporation promoted the organization of Bethlehem Stecl Corporation. For some years prior to the formation of Bethlehem he desired to go into the steel business on his own account and the acquisition of the capital stocks of one of the constituent companies in 1901 gave him the opportunity.

Bethlehem Steel Corporation has since become a thoroughly integrated concern from raw materials to finished products through the acquisition of numerous iron ore, coal, and limestone deposits and competing iron and steel and shipbuilding companies. Among other acquisitions, the company acquired control of Pennsylvania Steel Co. and Baltimore Sheet \& Tin Plate Co. in 1916. During 1921, 1922, and 1923, it also acquired a number of important companies including Baltimore Drydocks \& Shipbuilding Co., Lackawanna Steel Co. and Midvale Steel \& Ordnance Co. and its subsidiary, Cambria Steel Co.

The company and its subsidiaries own extensive raw-material resources, together with manufacturing properties, railroads and fleets of ocean and lake steamers. The business includes the manufacture of all kinds of iron, steel, and related products. It also includes the fabrication and erection of steel for buildings, bridges, and other structures, the construction of railroad cars for passenger and freight transportation and the building and repairing of naval and commercial vessels. Producing plants are located in Pennsylvania, Maryland, New York, Washington, and California. Important steel fabricating works are located in Pennsylvania, New York, New Jersey, Illinois, and California. Shipbuilding and ship repair plants are located at Baltimore and Sparrows Point, Md.; Boston, Quincy and Braintree, Mass.; and San Francisco, Alameda, and San Pedro, Calif.

Like the United States Steel Corporation, the bulk of Bethlehem's business has always been in steels for the railroad and building industries.

Republic Steel Corporation, the third largest company in the industry, has had a particularly rapid growth through acquisition of competing companies since its organization in 1930. This company had its beginning in 1899 as Republic Iron \& Steel Co. In 1930 the latter company and four other large companies-Central Alloy Steel Corporation, Donner Steel Co., Berger Manufacturing Co., and BourneFuller Co-were merged to form Republic Steel Corporation. Among the more important acquisitions of Republic Steel Corporation, since that time were the Corrigan, McKinney Steel Co., Newton Steel Co., and Truscon Steel Co. in 1935; Canton Tin Plate Corporation in 1936; and Gulf'States Steel Co. in 19317.

The corporation and its subsidiaries is fairly well integrated and owns large coal and iron reserves, the latter in both the Lake Sur erior and Birmingham districts. Its principal plants are located in Cleveland, Y oungstown, Warren, Niles, and Canton, Ohio; Buffalo, N. Y.; Chicago, Ill.; arı Birmingham, Ala. The company and its subsidiaries are largely producers of alloy steels and among the leaders in capacity for stainless steel production. They rank high in the production of tin plate but have little or no capacity in heavier steels such as rails and structurals. Their largest single customer is the automobile industry.

Jones \& Laughlin Steel Corporation is the fourth largest steel producer in the country and with its subsidiaries forms an integrated system with works at Pittsburgh and Alquippa, Pa., coal properties on the upper Monongahela River and interests in iron ore, steamship, and railroad properties. Although the company manufactures a diversified line of iron and steel products, its major product is pipe, structural, and railway steel. The company was incorporated in Pennsylvania in 1922 as successor to Jones \& Laughlin Steel Co. which had been incorporated in Pennsylvania in June 1902 as successor to the former partnership of Jones \& Laughlin, Ltd., established in 1850.

The National Steel Corporation, the fifth largest company, was incorporated in 1929 as a holding company. It acquired capital stocks giving control of Weirton Steel Co., Great Lakes Steel Corporation and certain subsidiaries of the M. A. Hanna Co. which owned large ore reserves in the Lake Superior district, freighters for the transportation of the ore and plants for the manufacture of iron and steel. The acquisition of these companies together with erection of a large plant in the Detroit industrial area make National Steel a well-integrated unit ranking fifth in ingot capacity and about third in the production of tin plate. Its plants in the Detroit area produce steel bars, strip, sheets, and related products while its other main plant at Weirton, W. Va., produces primarily tin plate and "heavy" steel, such as shapes, plates, and structural steel. The company does a substantial business with the automobile industry.

Youngstown Sheet \& Tube Co., the sixth largest company, had its beginning in 1900 as Youngstown Iron Sheet \& Tube Co., the name of which was changed to the present title in 1905.

About two-thirds of the capacity is centralized in the Youngstown district of Ohio and the remainder in the Chicago area. The company is well integrated and controls substantial coal, iron ore, and limestone reserves. The company produces a diversified line of steel products and has expanded its business in recent years into the "light" steel lines, notably in sheet and strip steel for the automobile and household equipment industries.

Inland Steel Co. has been the most profitable of any of the companies under review. This company was established in 1893. It is fully integrated with operations varying from the production of raw material requirements to the fabrication and distribution of finished products. The principal ore and steel-producing properties are located along the southern shore of Lake Michigan and Indiana Harbor, Ind., in the Great Chicago-Gary industrial area. The company is equipped to manufacture a diversified line of products. It is estimated that approximately 60 percent of the finished steel products capacity is available for the production of so-called "light" products such as sheets, strip, tin plate, bars, etc., and 40 percent is available for the production of the so-called "heavy" products, such as shapes, plates, rails, etc. In recent years the company has expanded its operations through a program of construction of plant and facilities and the acquisition of the capital stocks giving control of other companies, notably Joseph T. Ryerson \& Son, Inc., Chicago, Ill., fabricators and distributors of steel products and Milcor Steel Co., Milwaukee, Wis., manufacturers and fabricators of miscellaneous building materials from steel sheets.

American Rolling Mill Co., which was incorporated in 1917, specializes in producing high-quality steel, iron sheets, and light plates. It has little or no capacity for heavy products such as rails and structurals. Its main outlet is the automobile industry while other important consumers include jobbers and the road construction, refrigerator and electrical equipment industries. Fully integrated plants are located in Ashland, Ky., on the Ohio waterway and Middletown, Ohio, near Cincinnati. Finishing mills are located in the Pittsburgh district and at Kansas City.

Wheeling Steel Corporation was organized in 1920 to consolidate the properties of a number of old-established companies. It is one of the small but well integrated units in the steel industry. It owns 14 manufacturing plants along the Ohio River Valley in the States of West Virginia and Ohio; iron ore properties in Minnesota; interests in Great Lakes steamers; coal properties in Pennsylvania, West Virginia, and Ohio; and interests in railroad and river transportation. It is reported that more than 70 percent of the corporation's output in recent years has consisted of sheets, tin plate, and strips. The company's largest customer is the automobile industry which takes from 20 to 25 percent of the total output.

Otis Steel Co. was incorporated in 1912 to acquire the property and assets of an English corporation of the same name registered in 1895. The company's plants are well located geographically on lake and river frontage in Cleveland permitting transportation by water of raw materials and of finished steel to Detroit and other points. The company specializes in the manufacture of automobile steel and sells about one-half of its finished output to the automobile industry. About 17 percent of the company's capacity is in structural and other heavy steels.

Pittsburgh Steel Co., the smallest company for which financial information is presented, was organized in 1901. The company and its subsidiaries engage chiefly in the manufacture and sale of pig iron and a wide variety of semifinished and finished steel products. Plants are located along the Monongahela River and the company controls coal and iron ore reserves and through its subsidiaries operates a railroad and fleet of barges.

Rates of return on the combined investments of all companies under review are shown below for each of the years 1917-38, on three bases of investment, namely, the total investment, stockholders' investment, and common stockholders' equity, before deducting provisions for Federal income and profit taxes from earnings and after eliminating appreciation and other intangibles from investments. The aggregate amount of appreciation and other intangibles deducted from investments range from $\$ 580,098,176$, in 1917, down to $\$ 268,565,845$ in 1937 and $\$ 18,337,800$ in 1938 . On the average, about 85 percent of the appreciation pertained to United States Steel Corporation. The amounts applicable to the United States Steel Corporation ranged from $\$ 522,609,129$ in 1917 down to $\$ 249,583,149$ in 1937 . In 1938, the company wrote off all but $\$ 1$ of the latter amount. The bulk of the remainder of appreciation pertained to Bethlehem

Steel Corporation and Republic Steel Corporation. The maximum amounts of intangibles applicable to these companies were $\$ 14,083,793$ for Bethlehem, and $\$ 32,996,728$ for Republic.


1 Denotes loss.
The tabulation indicates that profits were earned on each basis of investment in all years prior to 1931 and high returns were earned during the years 1917-20 and again in 1929, although substantial returns were earned during the intervening years. Losses sustained during the depression years and the relatively small profits earned in most of the succeeding years were such that the results of operations were decidedly less favorable as a whole since the beginning of 1931 than for the period prior thereto. For example, the average return on the total investment for the years 1917-30 was 9.87 percent as compared with 1.68 percent for the years 1931--38. The average return of 6.59 percent for all years on this basis of investment was higher than for any year during the latter period, except in 1937, when 8.16 percent was earned. It will be noted that while the trend in earnings was upward following 1932, there was a sharp reversal in 1938 when only nine-tenths of 1 percent was earned on the total investment.

The following tabulation compares the average annual rates of return during the years 1917-38 on each basis of investment for individual companies and their subsidiaries:

 \left\lvert\, | Total |
| ---: | :--- |
| invest- |
| ment | | Stock- <br> holders' <br> invest- <br> ment |
| :---: | | Common <br> stoek- <br> holders' <br> equity |
| :---: |
| United States Steel Corporation |\right.

1 Denotes loss.
The tabulation shows that the returns for only 3 of the 11 companies exceeded the average returns for the 11 companies combined; namely, those for United States Steel Corporation, National Steel Corporation, and Inland Steel Co. The average returns for the 2 smaller companies were greater than for United States Steel Corporation or any of the other companies shown in the tabulation. Except for the Steel Corporation, the returns earned by the larger companies were
less favorable on the whole than for the smaller companies. Republic Steel Corporation, the third largest company in the industry earned an average return of 3.84 percent on its total investment which was the lowest return earned by any of the companies. Bethlehem Steel Corporation, the second largest company, earned an average return of 4.53 percent on its total investment which was the next smallest return, except for Otis Steel Corpoartion, one of the smaller companies, which earned an average return of 4.18 per ent on its total investment.

The showing for all companies as a group is, of course, influenced considerably by the magnitude of the investment and operations of United States Steel Corporation. During the years under review, profits were earned by the corporation in all years prior to 1931 equivalent to 10.77 percent on the total investment, 13.08 percent on the stockholders' investment, and 15.43 percent on the common stockholders' equity. During the subsequent years, earnings applicable to the total investment and stockholders' investment were slightly in excess of losses to the extent of 0.87 percent and 0.59 percent, respectively, of each basis of investment; but with respect to the common stockholders' equity, Iosses exceeded profits equivalent to 1.34 percent of the investment.

The average of the Steel Corporation's total investment for the 22 -year period was 55 percent of the total for the 11 companies, which was $31 / 3$ times larger than the average of the next largest company, Bethlehem Steel Corporation. The tabulation which follows shows the relative importance of each of the 11 companies from the standpoint of total capital investment on the basis of their average investments for the period under review and for the year 1938:

|  | Average total investment- |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1917-38 |  | 1938 |  |
|  | Amount | Percent of total | Amount | Percent of total |
| United States Steel Corporation | \$1, 760, 820, 520 | 54.56 | \$1, 557, 164, 621 | 43.46 |
| Bethlehem Steel Corporation. | 528, 805, 568 | 16. 39 | 655, 782, 528 | 18. 30 |
| Republic Steel Corporation.. | 148, 335, 836 | 4. 60 | 322, 329, 168 | 9.00 |
| Jones \& Laughlin Steel Corporat | 182, 959, 802 | 5. 67 | 207, 196, 670 | 5. 78 |
| Youngstown Sheet \& Tube Co. | 165, 650, 756 | 5. 13 | 212, 984, 832 | 5. 94 |
| National Steel Corporation | ${ }^{1} 144,350,340$ | 4. 47 | 179, 009, 187 | 5. 00 |
| Inland Steel Co-...-- | 80, 407, 561 | 2.49 | 147, 494, 335 | 4. 12 |
| American Rolling Mill Co. | 61, 995, 249 | 1. 92 | 123, 510, 197 | 3.45 |
| Wheeling Steel Corporation | 84, 723,458 | 2. 63 | 105, 501, 517 | 2. 94 |
| Otis Steel Co | ${ }^{2} 29,650,862$ | . 92 | 34, 813, 722 | . 97 |
| Pittsburgh Steel Co | 39, 298, 408 | 1.22 | 37, 258, 963 | 1.04 |
| Total | 3, 226, $998,3 \overline{6} 6$ | 100.00 | 3, 583, 045, 740 | 100.00 |

${ }^{1}$ Annual average, 1930-38.
${ }^{2}$ Annual average, 1919-38.
The tabulation shows that the deviation in investments from the 1917-38 average was greatest for United States Steel Corporation. In 1938 its proportion of $43 \frac{1}{2}$ percent of the combined investments of all 11 companies was 11 percent less than for the 1917-38 average. Except for Pittsburgh Steel Co., the trend for all other companies was in the opposite direction, the most rapid growth being indicated for Republic Steel Corporation. The decline in the Steel Corporation's position is accounted for principally by a reduction in surplus of $\$ 270,000,000$ in 1935 when that amount was transferred to depreciation reserves to make good a deficiency in the amount reserved for depreciation and depletion.

On the 3 bases of investment on which rates of return were computed, about 77 percent of the average of the total investment for the 11 companies during the period under review consisted of the stockholders' investment and nearly 60 percent consisted of the common stockholders' equity. In other words, about 23 percent of the average of the total investment consisted of long-term debt as a source of capital funds and about $17^{\prime}$ percent of the total consisted of preferred stocks. However, the earnings on that part of the capital obtained from those sources were on the average, only slightly in excess of the interest cost on the debt and dividend payments on the preferred as indicated by the fact that the average returns for all companies in the tabulations were less than one-half of 1 percent higher on the common stockholders' equity than on the total investment.

There were quite wide variations in the returns for individual companies throughout the years under review, although in general they followed uniform
trends. The following tabulation affords a comparison of the annual rates of return on the total investment for each of the 11 companies during the years 1917-38.

Rates of return on total investment for the principal steel companies, 1917-38

| Year | United States Steel Corporation | $\left\lvert\, \begin{array}{c\|} \text { Bethle- } \\ \text { hem Steel } \\ \text { Corpo- } \\ \text { ration } \end{array}\right.$ | Republie Steel Corporation | Jones \& Laughlin Steel Corporation | Youngstown Sheet \& Tube Co. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | Percent | Percent | Percent | Percent | Percent |
| 1917 | 30.94 | 20.89 | 40. 74 | 33.69 | 55.62 |  |
| 1918. | 24.60 | 9.52 | 18.75 | 13. 55 | 18.09 |  |
| 1919 | 9. 28 | 11. 00 | 4.34 | 14.90 | 9.40 | ---------- |
| 1920 | 10.65 | 7.52 | 13. 83 | 18.49 | 10.26 | ---------- |
| 1921. | 4.39 | 6.13 | 46.75 | 41.44 | 4.17 |  |
| 1922 | 4. 65 | 3.69 | 2.04 | 3.87 | 5.13 | ---------- |
| 1923 | 9. 32 | 5.69 | 11.32 | 7.78 | 11.26 | -----.... |
| 1924 | 7.55 | 3.88 | 4. 26 | 6.20 | 6.83 | -------- |
| 1925 | 7.84 | 5.07 | 6.89 | 6.85 | 10.23 | --------- |
| 1926 | 9.23 | 6.05 | 8. 56 | 9.74 | 11.03 | --------- |
| 1927. | 7.25 | 4.90 | 5.82 | 7. 10 | 5. 49 |  |
| 1928. | 8.71 | 5.48 | 7.29 | 9.26 | 7.69 | --------- |
| 1929. | 12. 18 | 8.93 | 11.52 | 11.56 | 12.92 |  |
| 1930. | 6.16 | 4. 71 | . 24 | 5.06 | 5. 19 | 9.85 |
| 1931 | . 95 | 1. 10 | -2. 21 | 4.84 | 41.22 | 5.78 |
| 1932 | 43.52 | 2.03 | 43.90 | 4.3.89 | 4. 4.07 | 2.83 |
| 1933 | 4 1.75 | 4.41 | 4.53 | -2.24 | +1.93 | 3. 85 |
| 1934 | 4.81 | 1.21 | 4.08 | '1.34 | . 90 | 6. 66 |
| 1935 | . 63 | 1.97 | 3.75 | . 06 | 3.12 | 10. 33 |
| 1936 | 4. 56 | 3.72 | 6.35 | 2. 95 | 7. 50 | 11. 38 |
| 1937 | 8. 64 | 6.92 1.97 | 5.65 4.95 | 3.47 $\mathbf{1} 1.79$ | 8.49 1.33 | 15.44 5.98 |
| 1938 | . 22 |  |  |  |  |  |
| Annual average. | 7. 33 | 4.53 | 3.84 | 6.03 | 6.45 | 8.17 |
| Year | Inland Steel Co. | $\begin{gathered} \text { Ameriean } \\ \text { Rolling } \\ \text { Mill Co. } \end{gathered}$ | Wheeling Steel Corporation | Otis Steel Co. ${ }^{2}$ | Pittsburgh Steel Co." | Combined |
|  | Percent | Percent | Percent | Percent | Percent | Percent |
| 1917 | 52.79 | 28.65 | 53.49 | Pe------- | 36. 90 | 31.86 |
| 1918 | 26. 05 | 42.50 | 27.40 |  | 25.49 | 21. 95 |
| 1919. | 10.41 | 13.61 | 9.28 | 8.68 | 9.49 | 9.75 |
| 1920 | 11.86 | ${ }^{3} 19.89$ | 38.70 | 7.47 | 7.98 | 11. 52 |
| 1921 | 4.95 | 48.00 | 2.89 | 422.20 | 5.92 | 3.12 |
| 1922 | . 44 | 8.02 | 1.33 | 4.02 | 2.05 | 4.20 |
| 1923. | 10.95 | 10.82 | 7.57 | 5. 90 | 7.63 | 8.68 |
| 1924 | 9.67 | 8.78 | 2. 70 | 42.43 | 6.08 | 6.45 |
| 1925. | 8.43 | 8.83 | 6.63 | 7.36 | 3.65 | 7.34 |
| 1926 | 10.40 | 11.98 | 7.62 | 8.67 | 8.55 | 8.77 |
| 1927 | 9.96 | 9.97 | 6.33 | 7.23 | 5. 66 | 6.72 |
| 1928 | 13.88 | 13.96 | 8.78 | 13.12 | -3.87 | 8.27 |
| 1929 | 16.63 | 10.46 | 9.61 | 13. 06 | 10.93 | 11. 53 |
| 1930 | 8.95 | 2.37 | 4.05 | 4.61 | 4. 90 | 5.47 |
| 1931 | - 3.44 | 4.81 | 41.61 | 42.44 | 42.09 | . 58 |
| 1932 | 41.39 | . 24 | 12.80 | 46.77 | 43.86 | 42.96 |
| 1933 | 2.40 | 1.78 | . 77 | 42.79 | 43.89 | 41.03 |
| 1934 | 6.73 | 4.04 | 2. 13 | 4.92 | 41.84 | . 41 |
| 1935. | 12. 82 | 7.93 | 5.46 | 11.24 | 42.85 | 2. 42 |
| 1936 | 14. 20 | 9.68 | 6.06 | 10.95 | -. 50 | 5. 52 |
| 1937. | 13. 15 | 9.37 | 5.84 | 10.44 | 5. 18 | 8, 16 |
| 1938. | 5.37 | 4.60 | 1.99 | 41.60 | . 57 | . 90 |
| Annual average | 10. 18 | 6. 53 | 6.09 | 4.18 | 4.92 | 6. 59 |

${ }^{1}$ Data are not available prior to 1930.
${ }^{2}$ Data are not available prior to 1919.
${ }^{3}$ Rate of return for 18 months; on a mathematical ratio it would be 13.26 pereent for .12 months.

- Denotes loss.

Up to this point operating results have been discussed primarily in terms of percentages of profit on investment. For the purpose of indicating the volume of business, net income and surplus accumulation of the various companies, their net sales, net income, dividend payments and surplus have been summarized and are presented in the following tabulation. The upper part of the table gives the total for each item for each of the 11 companies for all years during which the information was available within the period, 1917-38. The lower part of the table shows the annual averages of their net sales, net income, dividend payments and net income remaining after dividend payments.
Summary of net sales, net income, dividends, and net changes in surplus for all years within the period 1917-38, and annual averages thereof, for
the principal steel companies

| Companies | Net sales | Net lncome ${ }^{1}$ | Dividends paid on- |  |  |  | Net income after dividends | Other net deductions | Net increase in surplus during period |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Preferred stock in cash | Common stock in cash | $\underset{\text { in stock }}{\text { Common stock }}$ | Total dividends |  |  |  |
| Totals for entire period: <br> United States Steel Corporation. |  |  |  |  |  |  |  |  |  |
|  | \$26, 136, 166, 672 | \$1, 670, 058, 253 | \$554, 832, 894 | \$669, 817, 548 | \$203, 321, 000 | \$1, 427, 971, 442 | \$242, 086, 811 | \$351, 028, 711 | ${ }^{2}$ \$108, 941, 900 |
| Bethlehem Steel Corporation. | 5, 581, 283, 309 | 273, 819,609 | 101, 468, 678 | 101, 902, 821 | 30, 000, 000 | 233, 371,499 | 40, 448, 110 | 44, 955, 110 | 2 4, 507, 000 |
| Republic Steel Corporation | ${ }^{3} 1,561,064,842$ | 45, 842, 492 | 33, 591, 920 | 16, 856, 630 |  | 50, 448, 550 | 4 4, 606, 058 | ${ }^{5} 45,081,089$ | 40, 475, 031 |
| Jones \& Laughlin Steel Corporation......... | 2, 010, 480, 461 | 162, 089, 037 | 44, 519, 723 | 48, 007, 099 |  | 92, 526, 827 | 69, 562, 210 | 92, 975, 726 | ${ }^{2} \mathbf{2 3 , 4 1 3 , 5 1 6}$ |
| Youngstown Sheet \& Tube Co. | 2, 181, 358, 232 | 133, 184, 934 | 18, 243, 062 | 62, 802, 058 | 1,503,400 | 82, 548, 520 | $50,636,414$ | 54, 004, 794 | ${ }^{2} 3,368,380$ |
| National Steel Corporstlon ${ }^{6}$ | 769, 501, 824 | 71, 527, 031 |  | 33, 423, 139 |  | 33, 423, 139 | 38, 103, 892 | 10, 294, 483 | 27, 809, 409 |
| Inland Steel Co....... | 1, 169, 859,870 | 123, 631, 460 | 3,500, 000 | 67, 703, 688 |  | 71, 203, 688 | 52, 427, 772 | 34, 994, 462 | 17, 433, 310 |
| American Rolling Mill | 1,033, 570, 281 | 57, 639, 861 | 9,036, 336 | 36, 466, 844 | 16, 113, 370 | $61,616,550$ | ${ }^{4} 3,976,689$ | ${ }^{3} 9,754,329$ | 5, 777, 640 |
| Wheeling Steel Corporation. | 1, 319, 260, 478 | $69,092,784$ | 37, 764, 188 | 7,658, 867 | 29,667, 359 | 75, 090, 414 | - 5, 997, 630 | ${ }^{\$} 11,093,877$ | $5,096,247$ |
| Otis Steel Co.b Pittsburgh Steel Co------ | 1 $434,241,375$ $561,201,400$ | $9,456,537$ $27,754,382$ | $6,953,062$ $11,014,500$ | $\begin{array}{r} 2,628,155 \\ 12,198,735 \end{array}$ | 10,500, 000 | $\begin{array}{r} 9,581,217 \\ 33,713,235 \end{array}$ | $\begin{array}{r}1 \\ 4 \\ \hline\end{array}, 954,680$ | $\begin{array}{r} s \\ s^{1}, 545,553 \\ 16,001,187 \end{array}$ | $\begin{array}{r} 1,420,873 \\ 10,042,334 \end{array}$ |
| A nnual average for period:-- | 561, 201, 400 | 27, 754, 382 | 11, C14, 500 |  | 10,500, 000 |  |  |  |  |
| United States Steel Corporation | 1, 188, 007, 575 | 75, 911, 739 | 25, 219, 677 | 30, 446, 253 | 9, 241, 864 | 64, 907, 793 | 11, 003, 946 |  |  |
| Bethlehem Steel Corporation | 253, 694, 696 | 12, 446, 346 | 4,612, 213 | 4, 631, 946 | 1,363, 636 | 10, 607, 795 | 1,838, 551 |  |  |
| Republic Steel Corporation | ${ }^{8} 86,725,824$ | 2, 083, 750 | 1,526, 906 | 766, 210 |  | 2, 293, 116 | - 209,366 |  |  |
| Jones \& Laughlin Steel Corporation. | 91, 385, 176 | 7, 367, 684 | 2, 023, 624 | 2, 182, 141 |  | 4, 205, 765 | 3, 161, 919 |  |  |
| Youngstown Sheet \& Tube Co. | 99, 152, 647 | 6, 053, 861 | 829, 230 | 2,854, 639 | 68, 336 | 3, 752, 205 | 2, 301, 656 |  |  |
| National Stecl Corporation ${ }^{6}$ | $85,500,203$ $53,175,448$ | 7,947, 448 |  |  |  | $3,713,682$ $3,236,531$ | $\begin{aligned} & 4,233,766 \\ & 2,383,081 \end{aligned}$ |  |  |
| Inland Steel Co.....-ini- | 53, 175, 448 | 5,619, 612 | 159, 091 | 3, 077, 440 |  | 3, 236, 531 | 2, 383, 081 |  |  |
| $\mathrm{Co}$ | 45, 936, 457 | 2, 561, 772 | 401, 615 | 1,620,748 | 716, 150 | 2, 738,513 | 4176,741 |  |  |
| Wheeling Steel Corporation | 59, 966, 385 | 3, 140,581 | 1,716,554 | 348, 130 | 1,348, 516 | 3,413, 200 | - 272, 619 |  |  |
| Otis Steel $\mathrm{Co} \mathrm{B}^{8}$ | 21,712,069 | 472,827 | - 347, 653 | 131, 408 |  | 479, 061 | 4, 6, 234 4 |  |  |
| Pittsburgh Steel Co.. | 25, 509, 155 | 1,261,563 | 500,659 | 554, 488 | 477, 273 | 1,532, 420 | 4 270, 857 |  |  |


${ }^{2}$ Decrease in surplus.

The table shows that United States Steel Corporation was also dominant with respect to volume of business. Its total net sales of $\$ 26,000,000,000$ during the 22 years 1917-38 was 5 times the volume of the next largest company, Bethlehem Steel Corporation, and its average sales amounted to nearly 60 percent of the average for all 11 companies. In 1917, its sales amounted to 70 percent of the combined sales for 9 of the companies for which the information was available in that year. In 1938, however, its proportion of the combined sales for the 9 identical companies had declined to about 50 percent.

The table shows that the Steel Corporation's net income for the 22 -year period amounted to $\$ 1,670,058,253$ after providing for all costs and expenses of doing business, including provisions for the payment of Federal income and profits taxes. Of this amount, $\$ 1,427,971,442$ was either paid out in cash or appropriated for dividends. Cash dividends of $\$ 554,832,894$ were paid on the outstanding cumulative preferred stock at the rate of 7 percent per annum, and cash dividends amounting to $\$ 669,817,548$ were paid on the common stock at varying rates. The remainder of the dividend payments, amounting to $\$ 203,-$ 321,000 , represents earnings retained in the business through capitalization of a 40 -percent common-stock dividend declared in 1927 on the common stock.

The stock dividend of $\$ 203,321,000$, together with accumulated earned surplus of $\$ 108,941,900$, accounts for at least $\$ 312,262,900$ of reinvested earnings. Other principal sources of funds to the Steel Corporation during the 22 -year period originated from the sale or issue of common stock for $\$ 239,954,000$ and the retention within the business of asset values represented by the increase in depreciation had depletion reserves of $\$ 1,061,170,000$. The disposition of these resources, aggregating $\$ 1,613,386,900$, is accounted for principally by the expenditure during the period of $\$ 426,425,000$ in retirement of funded debt and by a net increase in investment in property of $\$ 1,265,918,000$.

As indicated above, the whole of the increase in depreciation reserves flowed into the property account and does not take into account the replacement of property actually retired with property of equal cost. During the period the corporation's capital expenditures aggregated over a billion and a half dollars and it expended in excess of 2 billion dollars for repairs, maintenance, and extraordinary replacements.

In general, the provisions for annual depreciation and obsolescence of steel plants and equipment are made on the straight-line method and are arrived at by applying against the investment cost of each facility a rate to provide for its depreciation and obsolescence based upon the life expectancy of the facility. Large amounts have been provided annually for depreciation and obsolescence, which, according to the experience of the various companies, were deemed to be sufficient to equal, on the average, the gross book value of the property, less salvage, as and when such properties were to be withdrawn from service. The amounts so provided ranged from 33 to 50 percent of the total recorded values of the respective properties of the 11 companies at December 31, 1938, as shown by the following tabulation:

|  | Property | Depreciation and depletion reserves | Percentage of reserves to property |
| :---: | :---: | :---: | :---: |
| United States Steel Corporation. | \$2, 344, 316,958 | \$1, 177, 797, 445 | 50. 24 |
| Bethlehem Steel Corporation | 758, 386, 677 | 306, 367, 631 | 40.40 |
| Republic Steel Corporation. | 384, 506, 096 | 145, 632, 568 | 37. 88 |
| Jones \& Laughlin Steel Corporat | 251, 753, 555 | 94, 311,256 | 37.46 |
| Youngstown Sheet \& Tube Co. | 254, 353, 983 | 123, 672, 860 | 48.62 |
| National Steel Corporation.- | 213, 897, 076 | 70, 189, 566 | 32.81 |
| Inland Steel Co...--..... | 165, 825, 925 | 60, 797, 700 | 36.66 |
| American Rolling Mill Co | 123, 437, 777 | 44, 094, 549 | 35. 72 |
| Wheeling Steel Corporation | 124, 156, 073 | 52, 285, 296 | 42. 11 |
| Otis Stee] Co. | 42, 814, 957 | 17, 161, 183 | 40.08 |
| Pittsburgh Steel Co | 45,352, 084 | 20, 162, 239 | 44.46 |

For the period covered by this study, United States Steel Corporation has controlled as many as 259 subsidiary companies. However, numerous consolidations and transfers of properties within the system has materially reduced the number. For example, at December 31, 1937, the corporation controlled 137 subsidiaries, of which 15 were engaged primarily in the production of steel and steel products; 10 were engaged in related manufacturing activities, including shipbuilding, bridge building, and cement production; 49 were ore-mining companies; 8 were coal and coke companies; 27 were transportation companies; and

28 were engaged in a variety of other activities, such as real estate, merchandising, and community utility services.

During the last 14 or 15 years eight of the steel-producing companies accounted for substantially all of the system's raw, semifinished, and finished iron and steel products and accounted for more than half the investment and nearly half the income of United States Steel Corporation as a consolidated system. An analysis was made of the investments and operating results of these eight companies, together with those of the transportation companies and three of the principal manufacturing or fabricating companies, all of which accounted for 70 percent of the net income and represented 78 percent of the investment for the system during the years 1925-37. The relative proportions, including rates of return, are as follows:


[^6]The earnings of all other companies in the system, constituting 22 percent of the consolidated investment, were equivalent to about 3 percent of their combined investment.

The yearly rates of return on total investment for the subsidiaries as classified above is shown in the following tabulation for all years during the period 1917-38 for which the information is available.

Rates of return on total investment

| Vear | Principal steel-producing subsidiaries ${ }^{1}$ | Transportation subsidiaries ${ }^{2}$ | Federal Shipbuilding \& Dry Dock Co. | American Bridge Co. | $\begin{gathered} \text { Universal } \\ \text { Atlas } \\ \text { Cement Co. } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1917. | Percent | Percent 8.76 | Percent | Percent 12. 67 | Percent 23.34 |
| 1918 |  | 8.61 |  | 8.64 | 14.78 |
| 1919 |  | 6.64 | 46. 28 | 7. 28 | 37.94 |
| 1920 |  | 10.91 | ${ }^{3} 2.65$ | 3. 38 | 15. 29 |
| 1921 |  | 6.69 | ${ }^{3} 5.51$ | 1. 77 | 20.28 |
| 1922 |  | 10.05 | 36.70 | 3.68 | 24.43 |
| 1923 |  | 12. 50 | ${ }^{3} 13.98$ | 3.48 | 37.45 |
| 1924 |  | 6.20 | ${ }^{3} 5.15$ | 3.06 | 32.19 |
| 1925 | 8.50 | 9.66 | ${ }^{3} 10.31$ | 4.43 | 27.59 |
| 1926. | 10.48 | 11.06 | 38.75 | 4.89 | 24.45 |
| 1927. | 7.12 | 7.63 | 38.43 | 2.90 | 19. 62 |
| 1928. | 9.24 | 9.68 | ${ }^{3} 15.90$ | 3.49 | 20.14 |
| 1929. | 13. 77 | 11. 68 | 3 8. 40 | 3.74 | 13.44 |
| 1930 | 3.86 | 6. 80 | 2. 28 | 3.76 | 14. 23 |
| 1931. | 33.03 | 1.64 | 11. 74 | 1.73 | ${ }^{3} 6.80$ |
| 1932 | ${ }^{3} 4.37$ | ${ }^{3} 1.57$ | 4. 00 | . 26 | ${ }^{3} 7.65$ |
| 1933. | 3 2.60 | 2.34 | 3. 92 | 31.52 | ${ }^{3} 2.18$ |
| 1934 | 3. 50 | 1. 97 | ${ }^{3} 17.71$ | ${ }^{3} 3.28$ | 1.45 |
| 1935 | . 74 | 4. 56 | ${ }^{\text {3 }} 4.97$ | 3 3. 59 | . 65 |
| 1936 | 1.68 | 10.38 | 14.87 | 3.75 | 9.35 |
| 1937. | 6.36 | 12. 64 | 3.79 | . 48 | 7.44 |
| 1938. | ${ }^{3} 2.31$ |  |  |  |  |
| Annual average. | 3.23 | 7.36 | . 19 | 2.53 | 11. 11 |

[^7]Carnegie-Illinois Steel Corporation is the largest steel-producing unit in the United States Steel Corporation system. It was formed in 1935 by consolidation of Carnegie Steel Co. with the principal plants of Illinois Steel Co. A year later, American Steel \& Tin Plate Co. was added, with the result that in 1939 CarnegieIllinois Steel Corporation's stcel-ingot capacity was approximately 77 percent of the total for the system.

The annual rates of return for this company and the others comprising the returns for the steel-producing group shown above are presented in the following tabulation for each company separately. The tabulation also affords a comparison of the annual returns of these companies as a group with the annual returns for the system as a whole because of the influence they exercise on the over-all operating results.

Rates of return on total investment


[^8]Large cash salaries and other compensation were paid to the executives of United States Steel Corporation and to the executives of most of the other companies under review. The following tabulation gives the aggregate compensationcash salaries and bonuses-received by the three highest paid officers of each company during the years 1935-38.

Aggregate compensation ${ }^{1}$ received by the 3 highest paid officers during the years 1935-38

|  | 1935 | 1936 | 1937 | 1938 | A verage |
| :---: | :---: | :---: | :---: | :---: | :---: |
| United States Steel Corporation | \$382, 353 | \$367,922 | \$410, 457 | \$379, 897 | \$385, 157 |
| Bethlehem Steel Corporation | 473, 332 | 450,000 | 728, 962 | 708,308 | 590, 150 |
| Republic Steel Corporation | 275, 240 | 335, 000 | 350, 000 | 320, 832 | 320, 268 |
| Jones and Laughlin Stcel Corpo | 135, 587 | 187, 217 | 238, 333 | 220, 833 | 195, 492 |
| Youngstown Sheet \& Tube Co | 120, 400 | 122, 720 | 180, 070 | 175, 166 | 149,589 |
| National Steel Corporation | 430, 280 | 460, 220 | 474, 446 | 362, 700 | 431, 911 |
| Inland steel Co. | 163, 980 | 177, 400 | 179, 500 | 160,750 | 170, 407 |
| The American Rolling Mill Co | 183, 765 | 269, 346 | 319, 441 | 298, 220 | 267, 693 |
| Wheeling Steel Corporation | 140,000 | 140, 000 | 125,000 | 109,999 | 128, 749 |
| Otis Steel Co- | 111, 250 | 148, 000 | 190, 800 | 118, 800 | 142, 712 |
| Pittsburgh Steel Co | 79, 934 | 55, 890 | 71,980 | 96,000 | 75, 951 |

## ${ }^{1}$ Includes cash salaries and bonuses.

It will be noted that the highest paid officers of United States Steel Corporation did not receive as much compensation on the average as did those of Bethlehem Steel Corporation and National Steel Corporation.

In 1938, the highest paid officer of any of the companies was Eugene G. Grace, president of Bethlehem Steel Corporation, who received $\$ 378,698$ followed by Charles M. Schwab, chairman of the board of directors of that company, who received $\$ 180,000$. Three other officers of that company each received $\$ 149,610$. The highest paid officer of United States Steel Corporation in that year was William A. Irvin, vice-chairman of the board of directors, who received $\$ 140,070$ and the next highest paid was Benjamin F. Fairless, president, who received $\$ 135,344$. Ernest T. Weir, chairman of the board of directors, and George R. Fink, president, were the highest paid officers of National Steel Corporation in 1938, each receiving $\$ 147,900$ and $\$ 150,400$, respectively. In the 2 previous years, each received over $\$ 200,000$ per annum. Other high paid officers of other companies were T. M. Girdler, president of Republic Steel Corporation, who received $\$ 160,416$ in 1938, and Charles R. Hook, president of American Rolling Mill Co., who received $\$ 134,846$ in that year.

## Farm Machinery Industry

Information concerning investments, profits, and rates of return is presented for a varying number of companies in each of the years 1913-37 in the report on Investments, Profits, and Rates of Return for Manufacturers of Farm Implements and Machines. The companies for which the information is presented account for most of the business of the industry since they include all of the larger companies and their predecessors for all years. For example, in 1914 all of the companies under review accounted for 93 percent of the total value of farm inachinery produced and in 1936 their total sales represented over 95 percent of the total domestic and export sales of farm machinery.

During the 25 -year period, the bulk of the farm-machinery business has been in the hands of a few companies. This concentration, accompanied by price leadership, has come about and continues to increase largely as a result of consolidations of competing concerns to form larger units such as International Harvester Co., Minneapolis-Moline Power Implement Co., and Oliver Farm Equipment Co.; and of the acquisition of independents by International Harvester Co., Deere \& Co., Allis-Chalmers Manufacturing Co., and J. I. Case Co. These companies, together with B. F. Avery \& Sons Co. and the Massey-Harris Co. comprise the full or long-line manufacturers of farm implements and machines.

The full or long-line manufacturers are those who manufacture various types and sizes of farm tillage implements, seeding and planting machines, farming and hauling equipment, and farm power-developing machines. The remainder of the companies for which information is presented comprise the short-line manufacturers of one or more of these kinds of implements, but not a complete line.

From the standpoint of capital investment and volume of sales, International Harvester Co. dominates the industry. The operations of this company and if closest competitor, Deere \& Co., have been highly profitable and their rates or return have generally been much higher than for other companies.

The report of the Federal Trade Commission on the Agricultural Implement and Machinery Industry states ${ }^{5}$ that International Harvester Co. and Deere \& Co. have ostablished the price levels for the great majority of agricultural implements and machinery; that the large advance in the great majority of farmmachinery prices as compared with the prices of other manufactured products since the origin of the International Harvester Co.; the profits of this company; the high degree of rigidity in farm-machinery prices during the depression; the swift rebound of farm-machinery prices after the 3 severest years of the depression, 1931, 1932, and 1933, to levels exceeding those of 1929, one of the years of highest prices in the history of this industry, and in industry generally; the raising of this company's farm-machinery prices in 1938 over those of 1937 in the face of the company's remarkable earnings in this latter year; the continued dominant position of the International Harvester Co. since 1902 in the farmmachinery industry; the exchange of price lists among farm-machinery manufacturers; evidence of dealer coercion; and the typical monopolistic behavior of the Intr mational Harvester Co.'s business operations during the depression when there was only a relatively slight percentage of decline in its farm-machinery prices but a sharp percentage decline in its volume of production and employment as contrasted with the behavior of industries known to be competitive where the percentage in the decline of prices was greatest and the declines in the volume of production and employment, were less in the opinion of the Commission, indicate the existence of a serious monopolistic condition in the farmmachinery industry.

Rates of return on the combined investments of all companies for which the information was available are shown for each of the years 1913-37 in the followtabulation on the basis of total irivestment and stockholders' investment before deducting provisions for Federal income and profits taxes, and after eliminating appreciation and other intangibles from investments. The investments on which rates of return were computed are the average of the investments at the beginning and end of each year from each company, except in some years that part of the investment represented by borrowed funds was averaged monthly.


[^9]${ }^{2}$ 1037-1038.

It will be noted that the rates of return on the stockholders' investment were only slightly higher on the average than the rates of return on the total investment. This is accounted for by the fact that the differences between the amounts of stockholders' investment and total investment, including borrowed funds, were relatively small. Most of the capital of the farm-machinery manufacturers was obtained from the issuance of stock and reinvested earnings.

The showing for all companies as a group for each year is influenced by the preponderant investments and profits of the relatively few full or long line manufacturers. On the basis of total investment, their investments, or those of their predecessors, averaged 85.13 percent of the total for all companies under review during the years 1913-18; 93.29 percent of the total for the years 1919-26; 87.02 percent of the total for the years 1927-36; and 98.15 percent of the total for the year 1937. If the investment of one large company, namely, Caterpillar Tractor Co., is eliminated from the comparison for the years 1927-36, for the reason that a considerable portion of its investment is devoted to the manufacture of products other than those for agricultural purposes, the combined investments of the longline companies would average 92.09 percent of the total for all companies, excluding this company.

The following tabulation shows the ratios of the combined investments of all companies for each period for the long-line companies individually and as a group and for the short-line companies as a group.

## Ratios of total investment


${ }^{1}$ Does not include Caterpillar Tractor Co.
${ }^{1}$ Acquired by J. I. Case Co. in 1928.
${ }^{3}$ The ratios for 1913-18 are for the predecessor, Moline Plow Co.
The rates of return for each of the long-line companies shown above appear in the following table for all years for which information was available. The table shows that International Harvester Co. and Deere \& Co., the two largest companies, earned an average return throughout the 25 -year period of 9.62 percent and 11.10 percent, respectively, on total investment, which were higher than for any of the other long-line manufacturers.

Comparison of rates on return on total investment for each of the prineipal long-line farm-machinery manufacturers, 1913-97

| Year | $\begin{gathered} \text { Inter- } \\ \text { national } \\ \text { Harrester } \\ \text { Co. } \end{gathered}$ | Deere \& Co. | Allls- Chalmers Manu- facturing Co. | J. I. Case Co. ${ }^{1}$ | Emerson-Brantingham Corporatlon ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1913 | Percent 10.95 | $\begin{array}{r} \text { Percent } \\ 9.65 \end{array}$ | Percent | Percent | $\begin{array}{r} \text { Percent } \\ 6.14 \end{array}$ |
| 1914 | 7.74 | 5. 63 |  |  | 3.45 |
| 1915 | 8.28 | 7.41 |  |  | 1.27 |
| 1916: | 11.48 | 10.61 |  |  | 1.82 |
| 1917 | 17.15 | 15.94 |  |  | 5.07 |
| 1918. | 17.86 | 17.76 |  |  | 9.03 |
| Annua! average | 12.34 | 10.89 | --------- |  | 3.73 |

[^10]Comparison of rates of return on total investment for each of the principal long-line farm-machinery manufacturers, 1913-97-Continued


[^11]Throughout the 25 -year period, rates of return were higher for the long-line manufacturers as a group than for the short-line manufacturers as a group. During this period the average return on the basis of total investment was 7.69 percent for the long-line manufacturers as compared with 4.57 percent for the short-line manufacturers. The following tabulation compares the rates of return for each group for each of the years 1913-37.

Comparison of rates of return on total investment for long-line and short-line farmmachinery manufacturers, 1913-37 ${ }^{1}$

| Year | Number of farmmachinery manufacturers ineach class |  | Rates of return on total investment |  | Year | Number of farmmachincry manulacturers ineach class |  | Rates of return on total investment |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Prin- } \\ \text { cripal } \\ \text { cipal } \\ \text { loge } \\ \text { mane } \\ \text { manu- } \\ \text { fare- } \\ \text { turers } \end{gathered}$ | $\begin{aligned} & \text { Short- } \\ & \text { line- } \\ & \text { manu- } \\ & \text { fac- } \\ & \text { turers } \end{aligned}$ | Principal long. manu-tuc- | $\begin{aligned} & \text { Short- } \\ & \text { line } \\ & \text { manu- } \\ & \text { face- } \\ & \text { turers } \end{aligned}$ |  | $\begin{gathered} \text { Prin- } \\ \text { cipi } \\ \text { cipal } \\ \text { ling- } \\ \text { mine } \\ \text { manu- } \\ \text { tacer } \end{gathered}$ | $\begin{aligned} & \text { Short- } \\ & \text { line } \\ & \text { manu- } \\ & \text { fac- } \\ & \text { turers } \end{aligned}$ | $\begin{aligned} & \text { Prin- } \\ & \text { Cipal } \\ & \text { cipag- } \\ & \text { longe } \\ & \text { line } \\ & \text { facu- } \\ & \text { tarer } \end{aligned}$ | Short- line manu- fac- turers |
| 1913 |  |  | $\begin{gathered} \text { Percent } \\ \text { 10.09 } \end{gathered}$ | $\begin{aligned} & \text { Percent } \\ & \text { 6. } 06 \end{aligned}$ | 1919-26 ${ }^{2}$ |  |  | $\begin{aligned} & \text { Percent } \\ & 7.77 \end{aligned}$ | $\begin{aligned} & \text { Percent } \\ & 4.61 \end{aligned}$ |
| 1915 | 5 | ${ }_{21}^{21}$ | ${ }_{7.30}$ | $\begin{aligned} & 3.54 \\ & 2.46 \end{aligned}$ |  |  |  |  |  |
| 1916-- | 5 | 21 | 10. 32 | 5.90 | 1928...... | 6 | 56 | 17.02 | 7.09 |
| 1917 | 5 | 21 17 | 15.72 | 10. 60 | ${ }_{1930}^{1929}$ | 8 | 58 | 16. 23 | 6. 30 |
| 1918 |  |  |  | 21.75 | 1930 | 8 | ${ }^{60}$ | 8.26 | 1.01 |
| 1913-18 ${ }^{2}$ |  |  | 11.18 | 8.17 | 1932 | 8 | 62 | 34.28 | 3. 00 |
| 1919 |  |  |  |  | ${ }_{1934}$ | 8 | 63 | - ${ }_{3}{ }^{2} 2.04$ | +3. ${ }^{\text {2 }} 14$ |
| 1920 | 5 | 11 | 11. 14 | 7.30 | 1935 | 8 | 62 | 10.54 | 5.57 |
| 1921 | 5 | 13 | ${ }_{3} .61$ | 39.45 | 1936 |  | 61 | ${ }^{1} 13.56$ | 8.71 |
| 1923 | 5 | 14 | 5. 12 | 7.01 | 1927-36 ${ }^{2}$ |  |  |  |  |
| 1924 | 5 | 14 | 6. 47 | 5. 49 | 1937...--- | 6 | ii | ${ }^{1} 15.10$ | 16.73 |
| 1926. | 5 | 15 | 15.61 | 9.84 | 1913-372 |  |  | 7. 69 | 4.57 |

${ }^{1}$ Due to change in fiscal year closings the return for 1936 reflects 11 months operations for International Harvester Co.; and for 1937 the return reflects 10 months operations for J. 1. Case Co. and Oliver Farm Equipment Co.
a Annual average.
${ }^{3}$ Denotes loss.
Attention is called to the fact that Caterpillar Tractor Co. is not included in this tabulation, since it could not be classified in either group without distortion because so much of its large investment is devoted to the manufacture of products other than those for agricultural purposes. The tabulation shows that for each period throughout the years 1913-37 the returns for the long-line manufacturers as a group were larger than those for the short-line manufacturers except for the year 1937, when the returns for the short-line manufacturers were somewhat higher than those for the long-line manufacturers. This is accounted for by the fact that the returns for the short-line manufacturers in that year are materially influenced by the profits of 1 company, namely, New Idea, Inc., whose profits were equivalent to 30.49 percent of its investment. Excluding this company, the returns for the other 10 short-line companies as a group would average 11.15 percent in that year.

Many of the companies under review are engaged in operations other than the manufacture of farm implements and machines. For a number of these companies, including Caterpillar Tractor Co. and Allis-Chalmers Manufacturing Co., the manufacturing business other than the farm-machinery business could not be segregated as to investments and profits for the purpose of showing rates of return on the farm machine business only. However, for those companies for which such a segregation could be made, rates of return are presented in the following tabulation for each of the years 1927-36 for the long-time companies as a group and for the short-line companies as a group.

Rates of return on investment in farm-machinery business only for long-line and short-line manufacturers 1927-36

| Year | Long-line companies |  | Short-line companies |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of companies | Rate return | Number of companies | Rate return | Number of cornpanies | Rate return : |
| 1927 | 5 | Percent 16.12 | 47 | $\begin{array}{r}\text { Percent } \\ 3.58 \\ \hline\end{array}$ | 52 | Percent 14.98 |
| 1928 | 5 | 20.03 | 50 | 7.41 | 55 | 18.90 |
| 1929 | 7 | 18.41 | 52 | 5. 53 | 59 | 17.52 |
| 1930 | 7 | 9.14 | 51 | 1.37 | 61 | 8.52 |
| 1931 | 7 | . 40 | 55 | 16.23 | 62 | ${ }^{1} .09$ |
| 1932 | 7 | 15.71 | 56 | ${ }^{1} 10.68$ | 63 | 16.07 |
| 1933. | 7 | 13.06 | 56 | 14.18 | 63 | 13.14 |
| 1934. | 7 | 3. 43 | 57 | 179 | 64 | 3.31 |
| 1935. | 7 | 12. 31 | 56 | 6.01 | 63 | 11.90 |
| 1936 | 7 | 15.62 | 55 | 8.57 | 62 | 15. 25 |
| A verage |  | 8.50 |  | . 91 |  | 7.98 |

1 Denotes loss.
The degree of concentration of the farm-machinery business from the standpoint of volume of sales is indicated in the following tabulation. This tabulation presents the results of an analysis of the sales of 63 companies for the year 1936 in order to determine the amounts of their sales of farm machinery only. The tabulation shows the relative importance of the farm-machinery sales of each of the long-line companies and compares their total sales with the total for the shortline companies for which the information was available:


The figures for International Harvester Co. do not include its sales of motortrucks and binder twine. Although these products are used on the farm, a considerable portion of International's sales are for industrial use primarily. Since this company is the only one for which the figures are submitted who manufactures these products, its sales of motortrucks and binder twine were not included in order to afford a better comparison of the farm machinery sales of all companies. If the sales of these products were included, International's sales would represent 56.43 percent of the total for the long-line companies and 52.99 percent of the total for all companies, instead of 44.66 percent and 41.26 percent, respectively, as shown in the tabulation. However, on either of the bases of comparison, it is evident that International Harvester Co. sales predominate. That its sales have predominated throughout the period under review is indicated by the fact that its total sales of all products averaged 58.68 percent of the total sales for all companies under review during the years 1913-18; 69.29 percent of the total for the years 1919-26; 57.86 percent of the total for the years 1927-36, excluding the sales of Caterpillar Tractor Co. for the reasons already given; and 55.94 percent of the total sales for all companies in the year 1937.

Further indication of the relative importance and profitableness of the two largest companies-International Harvester Co. and Deere \& Co.-is presented from the standpoint of sales and operating results. The following tabulation summarizes the net sales, net income, dividend payments, and net increase in surplus for each of these companies. The upper part of the tabulation gives the totals for these items for all of the years 1913-37. The lower part of the tabulation gives for each company the annual averages of the net sales, net income, dividend payments, and net income remaining after the payment of dividends.

Total and average of annual net sales, net income, dividend payments, and changes in surplus of International Harvester Co. and Deere \& Co., 1913-37

|  | International Harvester Co. | Deere \& Co. |
| :---: | :---: | :---: |
| Total for entire period 1913-37: Net sales. | 1 \$4, 630, 842, 896 | \$992, 818, 891 |
| Net income, after Federal income tax | 564, 109, 599 | 135, 580, 344 |
| Cash dividends on preferred stock | 118, 990,049 | 59, 064, 885 |
| Cash dividends on common stock | 149, 621, 548 | 6,000, 619 |
| Stock dividends on common stock | 29, 758, 924 | 11, 139, 267 |
| Total dividends paid | 298, 370, 521 | 76, 204, 771 |
| Net income after dividends Other deductions from surplus | $\begin{aligned} & 265,739,078 \\ & 222,537,521 \end{aligned}$ | $\begin{aligned} & 59,375,573 \\ & 44,995,399 \end{aligned}$ |
| Net increase in surplus. | 43, 201, 557 | 14, 380, 174 |
| Annual average: Net sales. | ${ }^{1} 185,233,716$ | 39,712,756 |
| Net income, after Federal income tax. | 22, 564, 384 | 5, 423, 214 |
| Cash dividends on preferred stock | 4, 759, 602 | 2, 362, 2405 |
| Cash dividends on common stock- Stock dividends on common stock | 5, 984,862 $1,190,557$ | 440, 571 |
| Total dividends paid. | 11,934, 821 | 3, 048, 191 |
| Netincome after dividends. | 10,629, 563 | 2, 375, 023 |

Includes sales of all products.
The tabulation shows that during the 25 -year period the reinvested earnings remaining in the surplus account of International Harvester Co. were $\$ 43,201,557$ at the end of 1937; and for Deere \& Co. the amount remaining in its surplus account at the end of that year was $\$ 14,380,174$. However, stock dividends paid by International Harvester Co. in the amount of $\$ 29,758,924$, together with $\$ 66,137,770$ of surplus transferred to capital-stock account during the period, account for at least $\$ 139,098,251$ of earnings reinvested in that company's business. The net increase in surplus of $\$ 14,380,174$ for Deere \& Co., together with $\$ 11,-$ 139,267 of stock dividends paid by that company during the period, account for at least $\$ 25,519,441$ of earnings reinvested in its business. The reinvested earnings of these companies accounted for about 86 percent of the net increase in total investment since 1913 in the case of International Harvester Co. and about 58 percent of the net increase in total investment since that date in the case of Deere \& Co.

An analysis of salaries and other compensation paid to executives of the principal companies in the industry during the years 1927-36 developed that the average compensation paid by International Harvester Co. and Deere \& Co. was higher than for any of the other companies. The average per officer compensation paid by the principal companies during these years was as follows:


The average per officer compensation was highest for International Harvester Co. in all years except 1931, 1932, and 1933, when it was highest for Oliver Farm Equipment Co. The average total compensation per.officer paid by International Harvester Co. was $\$ 142,940$ in 1927, $\$ 147,524$ in 1928, $\$ 161,193$ in 1929, $\$ 124,674$ in $1930, \$ 26,329$ in 1934, $\$ 24,307$ in 1935, and $\$ 37,259$ in 1936 . Oliver Farm Equipment Co. paid average total compensation per officer of $\$ 36,265$ in 1931, $\$ 35,652$ in 1932 , and $\$ 27,947$ in 1933 . Deere \& Co. also paid substantial compensation per officer during the years 1927-30. These payments averaged $\$ 31,171$ in $1927, \$ 55,314$ in $1928, \$ 75,867$ in 1929 , and $\$ 59,838$ in 1930.

The largest amount paid to any individual officer of the companies referred to herein was paid by International Harvester Co. in the years 1927-30 and 1935-36 and by Oliver Farm Equipment Co. in the years 1931-34. International Harvester Co. paid its president $\$ 353,386$ in 1927, $\$ 405,909$ in 1928, and $\$ 412,860$ in 1929. In 1930 it paid its first vice president $\$ 252,460$. In 1935 and 1936 it paid its president $\$ 54,033$ and $\$ 94,812$, respectively. Oliver Farm Equipment Co. paid its president $\$ 148,031$ in 1931, $\$ 115,980$ in $1932, \$ 81,270$ in 1933, and $\$ 76,152$ in 1934.

## Sulfur Industry

At hearings before the Temporary National Economic Committee, ${ }^{3}$ it was developed that only four companies, namely, Texas Gulf Sulphur Co., Freeport Sulphur Co., Jefferson Lake Oil Co., and Duval Texas Sulphur Co. produce practically all of the sulfur mined in the United States. In terms of production, capital investment, and volume of sales, the first two companies have dominated the industry for many years. During the past 10 years the two major companies have produced about 90 percent of the total production of sulfur by the four companies. In 1937 Texas Gulf Sulphur Co. and Freeport Sulphur Co. produced about 90 percent of the United States production of sulfur and over 70 percent of the world production of sulfur. Texas Gulf Sulphur Co., operating two properties, both in Texas, produced 1,743,829 long tons, and the Freeport Sulphur Co., operating one property in Texas and one in Louisiana, produced 711,520 long tons. The total for the two companies amounted to $2,455,349$ long tons out of $2,741,970$ long tons produced in the United States in that year.

In addition to this high degree of concentration in the business by the two major companies, it was also developed that rigid prices for the product were maintained for a considerable time even in the face of large stock surpluses during the prolonged business depression, and exceptionally large profits were earned by these companies for many years.

Financial reports for Texas Gulf Sulphur Co. and Freeport Sulphur Co. were prepared by the Federal Trade Commission from data secured from the companies' files and were offered for the record as exhibits 388 and 389 at the hearings. The significant features of these reports relative to investments, profits, and rates of return for each company are summarized below.

[^12]Texas Gulf Sulphur Co. was organized in 1909 as Gulf Sulphur Co., the name of which was changed to the present title in July 1918. The company has been actively engaged in the production of sulfur since March 1919. The following tabulation summarizes the investments, profits, and rates of return for that company for each of the years 1919 to 1938, inclusive.

| Year | A verage ${ }^{1}$ invested capital | Profit ${ }^{2}$ | Rate of return on investment | Year | A verage ${ }^{1}$ invested capital | Profit ${ }^{\text {a }}$ | Rate of return on investment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1919 |  |  | Percent |  |  |  | Percent |
| 1920 | \$5, 158, 964 | \$993, 605 | 19.26 | 1931 | \$35, 790, 836 | \$9, 772, 047 | 27.30 |
| 1921 | 11, 260, 709 | 3,519, 138 | 39. 18 | 1932 | 36, 179, 402 | 6, 373, 813 | 17.62 |
| 1922 | 12, 193, 447 | 3,998,978 | 32. 80 | 1934 | 49, 238, 364 | 7, 336, 795 | 21.21 14.90 |
| 1923. | 12, 867, 376 | 4, 972, 240 | 38.64 | 1935 | 59, 739, 207 | 8, 178, 017 | 13. 69 |
| 1924 | 13, 224, 287 | 5, 088, 585 | 38. 48 | 1936 | 59, 132, 509 | 10, 843, 015 | 18. 34 |
| 1925 | 13, 259,817 | 6,027, 637 | 45. 46 | 1937 | 59, 130, 899 | 12, 864, 281 | 21. 76 |
| 1926 | 14, 789, 940 | 10, 036, 033 | 67.86 | 1938 | 59, 353, 227 | 7,633, 633 | 12.86 |
| 1927 | 17, 686, 647 | 13, 109, 692 | 74.12 |  |  |  |  |
| 1929 | 21, 672, 752 | 15, 661, 051 | 72. 26 | Annual aver- |  |  |  |
| 1930 | 33, 271, 583 | 15, 100,977 | 45.39 |  | 29, 401, | 8, 451, | 28. 75 |

${ }^{1}$ Average of investment at beginning and end of year.
${ }^{2}$ Before deducting provisions for Federal income and profits taxes.
The tabulation shows that the company earned an average rate of return on the investment of 28.75 percent during the 20 years 1919-38. It will be noted that the company's operations were profitable in every year during this period and reflect rates of return ranging from highs of 67.86 percent in $1926,74.12$ percent in 1927, 72.26 percent in 1928, and 63.88 percent in 1929 to a low of 12.86 percent in 1938.
The tabulation shows that the average invested capital increased from $\$ 5,158,964$ in 1919 to $\$ 59,353,227$ in 1938 , an increase of $\$ 54,194,263$. The average invested capital shown in the tabulations for each year represents the total investment consisting of common stock, earned surplus, and surplus reserves. The increase ' $n$ average invested capital during the period is accounted for principally by incieases of $\$ 30,737,215$ in earned surplus and $\$ 19,825,000$ in outstanding stock. This stock, together with $\$ 650,000$ in cash, was issued in 1934 in payment for sulfur properties and contract rights acquired under an agreement with Delaware Gulf Oil Co.
The following summarizes the income and expenses, dividend payments, and surplus of Texas Gulf Sulphur Co. during the period under review:

|  | Total for years 1919-38 | $\underset{\text { age }}{\substack{\text { Annual } \\ \text { aver- }}}$ | Percentage of sales |
| :---: | :---: | :---: | :---: |
| Net sales. $\qquad$ Costs and expenses | $\begin{array}{r} \$ 297,051,729 \\ 131,445,993 \end{array}$ | $\begin{array}{r} \$ 14,852,586 \\ 6,572,299 \end{array}$ | $\begin{array}{r} 100.00 \\ 44.25 \end{array}$ |
| Net profit from sales <br> Miscellaneous income..... | $\begin{array}{r} 165,605,736 \\ 3,426,266 \end{array}$ | $\begin{array}{r} 8,280,287 \\ 171,313 \end{array}$ | $\begin{array}{r} 55.75 \\ 1.15 \end{array}$ |
| - Net income before Fe Provision for Federal taxes. | $\begin{array}{r} 169,032,002 \\ 13,209,359 \end{array}$ | $8,451,600$ 660,468 | 56.90 4.45 |
| Net income <br> Dividend payments | $\begin{aligned} & 155,822,643 \\ & 124,117,500 \end{aligned}$ | 7, 791, 132 | 52.45 |
| Surplus Dec. 31, 1938. | 31, 705, 143 |  |  |

As indicated above, costs and expenses average 44.25 cents out of every dollar of sales, net profits from sales averaged 55.75 cents per dollar of sales, and net income averaged 52.45 cents per dollar of sales. Stated in another way, the average net profit from sales was 126 percent of costs and expenses, and the average net income was 119 percent of costs and expenses. The only other large company, Freeport Sulphur Co., was organized in 1913 as Freeport Texas Co., the name of which was chan,8ed to the present title in 1936. In addition to its sulfur operatipns, the canrpany in 1931 acquired control of Cuban-American Mangacese

Corporation, which is engaged in the production of manganese from properties located near Santiago, Cuba. The following tabulation summarizes the investments, profits; and rates of return for the company and its subsidiaries for each of the years 1919 to 1938, inclusive:

| Year | A verage invested capital ${ }^{1}$ | Profit ${ }^{2}$ | Rate of retunn on in-vestment | Year | A verage in vested capital I | Profit ${ }^{2}$ | Rate of return on in-vestment |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1919 | \$9,631, 671 | \$1, 184, 625 | Percent 12.30 | 1930 | 10, 453, 528 | 3, 456, 569 | Percent $33.07$ |
| 1920 | 8, 406, 008 | , 981, 884 | 11.68 | 1931 | 10,634, 791 | 2, 635, 343 | 24.78 |
| 1921 | 8, 466, 241 | ${ }^{3} 181,407$ | 32.14 | 1932 | 11, 452, 762 | 2, 443, 098 | 21.33 |
| 1922 | 10,004, 790 | ${ }^{3} 115,653$ | ${ }^{3} 1.16$ | 1933. | 13, 837, 058 | 2,773, 840 | 20.05 |
| 1923 | 12, 174, 607 | 1,013, 225 | 8.32 | 1934 | 15, 465, 861 | 1, 625, 089 | 10.51 |
| 1924 | 12, 277, 902 | 162, 465 | 1.32 | 1935 | $-15,635,913$ | 1, 642, 108 | 10. 60 |
| 1925 | 11, 772,321 | 891, 172 | 7.57 | 1936 | 16, 587, 844 | 2, 487, 969 | 15.00 |
| 1926 | 12, 566, 491 | 1,919, 552 | 15.28 | 1937. | 17, 756. 282 | 2, 897,690 | 16.32 |
| 1927 | 13, 829, 505 | 4,061, 381 | 29.37 | 1938 | 17, 974, 093 | 1, 677, 630 | 9.33 |
| 1928 | 13, 318, 293 | 3, 645, 047 | 27.37 |  |  |  |  |
| 1029 | 11, 621, 350 | 4 5,080,777 | 443.72 | Annual average | 12,693, 365 | 2, 014, 120 | 15.87 |

1 Average of total investment at beginning and end of year, consisting of common and preferrad stocks surplus, and surplus reserves.
${ }^{3}$ Before deducting provislons for Federal income and profitstaxes.

- Danotes loss.
- 13 months.

The tabulation shows that during the 20 years 1919-38 the company earned average rate of return of 15.87 percent on the investment. The operations of the company were profitable in all years except 1921 and 1922 when losses were sustained equivalent to 2.14 percent and 1.16 percent, respectively, on the investment. During the years 1927-31 large profits were earned equivalent to 29.37 percent on the investment in 1927; 27.37 percent in 1928; 43.72 percent in 1929 ( 13 months); 33.07 percent in 1930; and 24.78 percent in 1931. Thereafter the rates of return declined to 10.50 percent in 1935, then increased to 16.32 percent in 1937 and again declined to 9.33 percent in 1938.

A summary of the income and expenses, dividend payments, and surplus of Freeport Sulphur Co. follows:


Unlike Texas Gulf Sulphur Co., the costs and expenses for Freeport Sulphur Co. contain large amounts for royalties under sulfur leases. In connection with the two properties from which sulfur is now produced, Freeport Sulphur Co. paid royalties to the Texas Co. during the years $1924-38$ of $\$ 29,046,250$ relating to the Hoskins Mound property in Texas, and paid royalties to Gulf Refining Co. of Louisiana, Shell Petroleum Corporation, and Humble Oil \& Refining Co. during. the years 1934-38 aggregating $\$ 4,144,979$ relating to the lease of properties at Grand Ecaille in Louisiana. These latter payments were in addition to a cash consideration aggregating $\$ 500,000$ for this lease.

## Cement Industry

The report on "Investments, Profits, and Rates of Return for Cement Companies" deals with the operating results of a representative group of 18 cement companies which had 59 percent of the cement-producing capacity of the country in 1938. Seven of the larger companies account for approximately 45 percent of the total capacity of the industry. This concentration has come about through consolidations, mergers, and acquisitions of competing companies. The 18 companies are as follows:

Aetna Portland Cement Co.
Alpha Portland Cement Co.
Great Lakes Portland Cement Co.
Huron Portland Cement Co.
Ideal Portland Cement Co.
Lawrence Portland Cement Co.
Lehigh Portland Cement Co.
Lone Star Cement Corporation.
Marquette Cement Manufacturing Co.
Medusa Portland Cement Co.
Missouri Portland Cement Co.
Nazareth Cement Co.
North American Cement Co.
Oregon Portland Cement Co.
Pennsylvania-Dixie Cement Corporation.
Riverside Cement Co.
Superior Portland Cement, Inc.
Universal-Atlas Cement Co.
All of these companies or their subsidiaries, and other members of the Cement Institute, were charged with certain monopolistic practices by the Federal Trade Commission in a complaint served July 2, 1937. The Commission's complaint charges, in part:
"* * * For more than 8 years past, respondents have maintained and now have in effect a combination among themselves to hinder, lessen, restrict, and restrain competition in prcie, among producing respondents in the course of their aforesaid commerce among the States * * *."

In the past certain trade practices in the industry have also been the subject of investigation by the Federal Trade Commission which are set forth in two reports; namely, Price Bases Inquiry, the Basing-Point Formula and Cement Prices, 1932; and Cement Industry, 1933. These reports deal largely with cement prices including uniformity and inflexibility of delivered prices and pricing policies.

The financial information which is the basis for the present study was obtained from the files of the Income Tax Unit of the Bureau of Internal Revenue, except in some instances when published reports were used, largely because of the inability to obtain information on a consolidated basis from the tax returns of some of the companies and their subsidiaries in the later years. Since the information was obtained primarily from tax returns, the operating results for the individual companies are presented in such a manner as to avoid disclosure of identity in view of the regulations of the Treasury Department governing the publicity of tax returns.

Rates of return on invested capital have been computed for each of the years 1917-36, on two bases; namely, the stockholders' investment and the common stockholders' equity after deducting appreciation. The combined stockholders' investments of all companies as a group increased each year from \$104,608,687 in 1917 to $\$ 269,996,548$ in 1929. Thereafter the trend was downward to $\$ 170,471,267$ in 1936 . The annual average was $\$ 188,407,014$. The trend in common stockholders' equity followed that for the stockholders' investment, the annual average being $\$ 154,712,804$. The amounts of investments on which rates of return were computed are the average of the investments at the beginning s.nd end of each year for each company. The amount of appreciation which was eliminated in arriving at investment ranged in the aggregate from $\$ 12,734,344$ in 1917 to $\$ 52,401,690$ in 1929, and to $\$ 49,989,789$ in 1936.

The profits used in computing rates of return represent the taxable net income as finally determined by the Bureau of Internal Revenue in all cases where tax returns were used. In those instances where the basic information was obtained from published reports, the net income as reported by the companies in such reports, before provisions for Federal taxes, was used.
Rates of return on the investments of all companies combined, for which information is available, are presented for each of the years 1917-36, in the following tabulation:

| Year | Number of companies | Rate of return on the stockholders' lnvestment | Rate of return on the common stockholders' equity | Year | Number of com. panies | Rate of return on the stockholders' inrestment | Rate of return on the common stockholders' equity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Percent | Percent |  |  | Percent | Percent |
| 1917. | 28 | 14.35 | 15.76 | 1928. | 22 | 11.94 | 12.93 |
| 1918. | 28 | 9. 47 | 10.00 | 1929 | 19 | 10.24 | 11. 42 |
| 1919. | 28 | 12.66 | 13.52 | 1930. | 18 | 9.04 | 10.32 |
| 1920 | 24 | 12. 86 | 13.41 | 1931. | 18 | 12.36 | 14.65 |
| 1921 | 24 | 7.66 | 7.74 | 1932 | 18 | 18.04 | 112.44 |
| 1922. | 24 | 14. 22 | 15. 12 | 1933 | 18 | 13.30 | ${ }^{1} 5.45$ |
| 1923 | 25 | 25.04 | 27.08 | 1934 | 18 | 2.53 | 2.21 |
| 1924 | 25 | 21.82 | 23.22 | 1935. | 18 | . 07 | 1. 70 |
| 1925 | 26 | 20.38 | 22.10 | 1936 | 18 | 11.05 | 12.99 |
| 1926 | 21 | 16. 66 | 18. 74 |  |  |  |  |
| 1927 | 22 | 13.14 | 14.53 | A verage. |  | 9.99 | 11.04 |

## ${ }^{1}$ Indicates loss.

As shown above, the average annual returns earned by the companies as a group were approximately 10 percent on the stockholders' investment and 11 percent on the common stockholders' equity during the 20-year period. Except for the depression years when losses were sustained, which reduced the averages for the period, high returns were earned in most years.

Prior to 1931, the first year in which losses were sustained, the average return on the stockholders' investment during the years under review was 14.32 percent as compared with a loss of 0.27 percent for the later years. Likewise, during the years $1917-30$, the average return on the common stockholders' equity for the companies as a group was 15.72 percent as compared with a loss of 1.47 percent for the years 1931-35. The slightly higher average returns on the common stockholders' equity than on the stockholders' investment are accounted for by the fact that the margin of capital represented by preferred stock produced earnings in excess of the dividends paid or accrucd thereon. It was not practicable to compute rates of return on the total investment including long-term debt because of the inability to segregate interest charges on such debt from total charges for all interest payments reported on tax returns. However, it appears that the proportion of long-term debt to the tetal capitalization was not large so that the average return on the total investment would not be materially lower than the average return on the stockholders' investment.

It will be noted in the preceding tabulation that the number of companies for which returns were computed range in number from 28 in 1917 down to 18 in 1936. The larger number of companies in the earlier years included those acquired by merger or consolidation during the 1920's by a number of the 18 companies. However, in the following tabulation, all such predecessor companies have been grouped according to their present atfiliation in order to show comparative returns for each company and its predecessors throughout the 20-year period under review. The average returns earned during the period by each company and its predecessors, designated by number, in order to avoid disclosure of identity, are as follows:

Average annual rate of return during 20-year period 1917-96


[^13]The tabulation shows that on the average substantial returns were earned by each of the 17 companies and their predecessors, despite losses sustained during the depression years. On the basis of stockholders' investment, the lowest average return earned by any company during the 20 -year period was 4.56 percent and the highest return was 22.67 percent. The next highest returns were edrned by four other companics averaging approximately 15 percent per anhum; four earned from 9 to over 14 percent; and seven earned from nearly 6 to $83 / 4$ percent. As a group all companies earned an average return of about 10 percent. On the basis of commion stockholders' equity the respective returns were higher, averaging just over 11 percent.

While the returns of the respective companies and their predecessors indicate substantial variation, the returns are quite comparable when the companies, are grouped by size. On the basis of plant capacity, the 18 companies represented 59 percent for the industry in 1938. Each of 3 of the 18 companies represented over 5 percent of the total capacity for the industry; 4 represented from 3 to 5 percent each; 6 represented from 1 to 3 percent each; and 5 represented under 1 percent each. According to this grouping, the 2 groups of medium-sized companies earned higher average returns than either of the other 2 groups, followed by the group of largest companies. The average returns earned by each group during the 20 -year period, $1917-36$, are as follows:

Average anriual rates of return, 1917-86


## Rayon Industry

The report on investments, profits, and rates of return for rayon companies deals with the operating results of eight of the principal rayon companies, their positicis in the industry, the tremendous growth in the use of the product, and the price trends of this and competitive yarns. The eight companies are as follows:

> American Viscose Corporation.
> E. I. du 'Pont de Nemours \& Co. (Rayon department).

> Celanese Corporation of America.
> Industrial Rayon Corporation.
> The American Enka Corporation.
> North American Rayon Corporation.
> Tubize-Chatillon Corporation.
> American Bemberg Corporation.

American Viscose Corporation, the largest producer in the industry, had a monopoly of the rayon business in this country prior to 1920 through control of patents on manufacturing processes. After the expiration of these patents other companies entered this field so that in 1938 there were 29 rayon yarn and staple fiber producers. However, these eight companies were the principal producers.

There has been a remarkable growth in the production of rayon yarn and staple fiber. The last year that American Viscose Corporation was the sole producer was 1919 when over $8,000,000$ pounds were produced. Thereafter, the domestic production increased rather consistently to $342,000,000$ pounds in 1937 and decreased to about $288,000,000$ pounds in 1938. Although other companies entering the field have accounted for a substantial portion of the increase, American Viscose Corporation remained the principal producer. Its proportion of the total had decreased from time to time to 30 percent of the domestic productior in 1938.

In 1938 the eight companies under study produced 91 percent of the total United States production of rayon yarn and staple fiber by all processes. Three of the
largest companies accounted for 67 percent of the total. The following tabulation shows the proportions of the annual domestic production since 1919 of each of the three largest companies and of the five smaller companies as a group. Prior to 1920 American Viscose Corporation accounted for all of the production.

Proportion of the total United States production of rayon yarn and staple fiber by all processes accounted for by each of the 9 large companies and by 5 smaller companies combined, from 1920 to 1938, inclusive

| Year | Nuraber of companies | American <br> Viscose Corporation ${ }^{1}$ | E. I. du Pont de Nemours $\&$ Co. | Celanese Corporation of America | 5 smaller companies combined ${ }^{2}$ | Combined percentage of total United States production |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1920 |  | Percent 99 | Percent | Percent | Percent | Percent |
| 1921 | 4 | 92 | 2 |  | --- | 98 98 |
| 1822 | 5 | 82 | 6 |  | 12 | 100 |
| 1923. | 5 | 78 | 8 |  | 13 | 99 |
| 1924 | 5 | 73 | 10 |  | 17 | 100 |
| 1925. | 6 | 68 | 13 | 1 | 16 | 98 |
| 1928. | 6 | 59 | 17 | 1 | 16 | 93 |
| 1927 | 7 | 54 | 20 | 3 | 16 | 93 |
| 1928 | 7 | 56 | 19 | 3 | 14 | 92 |
| 1929 | 9 | 52 | 21 | 4 | 17 | 94 |
| 1930 | 8 | 42 | 17 | 5 | 26 | 90 |
| 1931 | 8 | 39 | 17 | 6 | 28 | 90 |
| 1932 | 8 | 34 | 16 | 7 | 29 | 86 |
| 1933 | 8 | 35 | 16 | 10 | 25 | 86 |
| 1934. | 8 | 34 | 20 | 11 | 27 | 92 |
| 1935. | 8 | 35 | 20 | 14 | 23 | 92 |
| 1936 | 8 | 33 | 21 | 14 | 23 | 91 |
| 1937 | 8 | 32 | 22 | 14 | 20 | 88 |
| 1938. | 8 | 30 | 22 | 15 | 24 | 91 |

1 Prior to 1920 , American Viscose Corporation produced 100 percent of the total domestic production.
${ }^{2} 5$ companies combined include Industrial Rayon Corporation, 1922-38; the American Enka Corporation, 1929-38; North American Rayon Corporation, 1929-38; American Bemberg Corporation, 1927-38; and Tubize-Chatillon Corporation, 1930-38; together with the latter company's predecessors, namely, Tubize Artificial Silk Co. and Amcrican Chatillon Corporation from 1921 to 1929, inclusive.

Rayon is a synthetic textile fiber, that for many years was referred to as artificial silk, and whose basic raw material is cellulose. The principal commercial sources of cellulose are spruce, western hemlock and cotton linters, although it may be obtained from many other less economical sources. Rayon is produced by chemical and mechanical processes which first make a fine filament that is spun into yarns suitable for weaving into many kinds of fabrics. For many years, rayon was primarily a substitute for silk but recently a staple fiber has been developed which can be used in woven and knit goods similar to wool in heavier fabrics.

Experiments were first made as early as 1735 to manufacture a textile fiber but it was not until about 1890 that successful processes were developed. The nitrocellulose and cuprammonium process were perfected first and soon thereafter the viscose process was discovered. The latter process became the most widely used. Another process, namely, the acetate process, was not discovered until the time of the World War, but in recent years the production of rayon by this process has become increasingly important.

The following tabulation indicates the tremendous growth in the industry and shows that the domestic production of rayon yarn and staple fiber combined increased from 363,000 pounds in 1911 to $287,749,000$ pounds in 1938. Production in 1936 and 1937 exceeded the production for the year 1938.

United States production of rayon yarn and staple fiber, 1911-38 (units are thousands of pounds) ${ }^{1}$


1 Source: Textile Economics Bureau, Inc., Rayon Organon.
2 Production of nitrocellulose yarn was discontinued in 1934.
In 1938 acetate yarn accounted for 29.5 percent of the total domestic rayon yarn, but accounted for a lesser proportion of the world production. Rayon yarn produced by this process has accounted for a larger proportion of the total each year. The production of rayon staple fiber has not been as extensively developed in this country as in other countries, particularly Italy, Germany, and Japan. In 1930 the world production of rayon yarn amounted to $451,000,000$ pounds and the rayon staple fiber amounted to $6,000,000$ pounds, whereas in 1937 the world rayon-yarn production was $1,205,000,000$ pounds as compared to $618,000,000$ pounds of rayon staple fiber. In 1938 the world production of staple fiber practically equaled the yarn production, as estimated figures give the world production of rayon yarn as $975,000,000$ pounds and of rayon staple fiber as $925,000,000$ pounds. This compares with the domestic production of rayon yard of $258,000,000$ pounds and of rayon staple fiber of $30,000,000$ pounds. Thus, it is evident that rayon staple fiber, which to some extent is a substitute for cotton and wool, is used more widely in other countries than in the United States. The domestic production of staple fiber does not equal the consumption although there has been a continuous increase in the domestic production. For instance, in 1938 the domestic production increased nearly 50 percent over 1937, whereas imports increased only about 15 percent. In 1938 the imports of rayon staple fiber amounted to about $24,000,000$ pounds as compared to $30,000,000$ pounds of domestic production.

The remarkable growth of the domestic use of rayon as compared to other textiles is illustrated heretofore in the production data and is also forcefully portrayed in the following chart, showing the quantities consumed of rayon yarn and competing yarns. In recent years there have been relatively small amounts of rayon yarn exported or imported, except there have been some imports of staple fiber. Thus, the relative quantities of domestic production and consumption in the aggregate are not greatly different. However, sometimes there were rather large differences between the annual amounts produced and the amounts consumed; for the reason that in certain years the anticipated demand did not materialize and part of the production was carried over to the next year. The following chart shows the pounds consumed domestically of cotton, wool, rayon, and silk, from 1920 to 1938, inclusive.

Chorl UNITED STATES CONSUMPTION OF COTTON, WOOL, RAYON AND SILK FIBERS 1920-1938


It is of interest to correlate the consumption of rayon, shown in the foregoing chart, and the production of rayon, shown heretofore, with the price of rayon yarn. The trend of the price of rayon yarn definitely reflects the influence of the earlier monopolistic position of American Viscose Corporation and the later competitive conditions in the industry. Prior to 1920, there were only moderate increases in production which never exceeded $10,000,000$ pounds annually. During the period from 1911 to February 1920, the list price of rayon yarn, 150 denier, increased from $\$ 1.85$ to $\$ 6$ per pound. From February 1920 to October 1920, the list price dropped from $\$ 6$ to $\$ 2.55$ and from 1921 to 1932, inclusive, ranged downward from $\$ 2.80$ to 55 cents. From 1933 to 1938, inclusive, the list price ranged from 49 cents to 65 cents per pound. After 1920, the growth in production of rayon was sensational, increasing from $10,125,000$ pounds in 1920 to 341,925,000 pounds in 1937. There was a considerable decline in 1938 production but there was an increase in consumption over 1937.

It is also of interest to compare the wholesale prices of cotton, wool, silk, and rayon yarns. It will be noted from the following tabulation that the trends of prices of rayon and silk were quite comparable and even cotton followed somewhat the same trend. The following tabulation is copied from page 26 of a report on Development and Use of Rayon and Other Synthetic Fibers by Bureau of Agricultural Economics.

Prices and index numbers ${ }^{1}$ of cotton, wool, silk, and rayon yarns, United States, 1921 to 1937

| Calendar year | Cotton ${ }^{2}$ |  | Wool ${ }^{3}$ |  | Silk ${ }^{4}$ |  | Rayon ${ }^{\text {a }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Price | Index | Price | Index | Price | Index | Price | Index |
|  | Dollars per pound | Percent | Der pollars | Percent | Dollars per pound | Percent | Dollars per pound | Percent |
| 1921. | 0.66 | 90 | 1.18 | 69 | per 6.57 | 92 | 2.67 | 116 |
| 1922 | . 72 | 99 | 1.41 | 82 | 7. 65 | 107 | 2. 80 | 122 |
| 1923 | . 77 | 106 | 1.73 | 101 | 8.65 | 121 | 2. 80 | 122 |
| 1924 | . 72 | 99 | 1. 69 | 99 | 6. 25 | 87 | 2.11 | 92 |
| 1925 | . 70 | - 96 | 1.72 | 100 | 6.57 | 92 | 2.00 | 87 |
| 1926 | . 58 | 79 | 1.44 | 84 | 6. 19 | 86 | 1.81 | 79 |
| 1927 | . 55 | 75 | 1.37 | 80 | 5. 44 | 76 | 1. 49 | 65 |
| 1928 | . 54 | 74 | 1.55 | 91 | 5.07 | 71 | 1. 50 | 65 |
| 1929 | . 54 | 74 | 1.49 | 87 | 4.93 | 69 | 1. 24 | 54 |
| 1930 | . 47 | 64 | 1.24 | 72 | 3. 12 | 48 | 1.05 | 46 |
| 1931. | . 37 | 51 | 1.00 | 58 | 2. 40 | 34 | . 75 | 33 |
| 1932. | .31 | 42 | . 84 | 49 | 1. 56 | 22 | . 64 | 28 |
| 1933 | . 41 | 56 | 1.08 | 63 | 1.61 | 22 | . 61 | 26 |
| 1934 | . 46 | 63 | 1.25 | 73 | 1. 30 | 18 | . 59 | 26 |
| 1935 | . 45 | 62 | 1.13 | 66 | 1.63 | 23 | . 57 | 25 |
| 1936 | . 42 | 58 | 1.31 | 77 | 1. 77 | 25 | . 59 | 26 |
| 1937. | . 44 | 60 | 1.38 | 81 | 1.86 | 26 | . 62 | 27 |

1 Base is the average of the 3 years 1923, 1924, and 1925.
Average midmonth contract prices of 40 's single combed peeler yarn, New York.
Worsted yarn, 32's whlte, crossbred stock, factory.
Japanese sllk yarn, 78 percent, crack, xx, 13/15 denier, white, New York.
A grade, 150 denier, continuous filament rayon, first quality, New York.
Source: Bureau of Agricultural Economics. Prices are Bureau of Labor Statistics wholesale prices except cotton-yarn prices.

American Viscose Corporation or its predecessor company, was originally formed in 1909, by Courtauld's, Ltd., and has since been controlled by that firm. Prior to 1915, it used patented processes owned by Courtauld's, Ltd., and paid royalties for their use but in 1915, those patents were acquired outright for $\$ 5,000,000$. American Viscose Corporation is engaged almost solely in the production of rayon yarns and staple fiber by the viscose and acetate processes. Prior to 1920, this company had a monopoly in this country in the production of rayon yarn. This company is still the largest producer but now accounts for only about 30 percent of the total.
E. I. du Pont de Nemours \& Co. is the second largest producer of rayon yarn. Its rayon business, however, is only a small portion of its total business. The history of this company's business extends back to 1802 but its rayon business was not started until 1920. This company produces rayon yarn and staple fiber by the viscose and acetate processes. From 1926 to 1933, inclusive, this company was the only domestic producer of staple fiber. It has recently completed a plant for the production of "Nylon" yarn, an extremely tough synthetic material, that
has many uses, such as for hosiery, sheets, and other fabrics, for which rayon yarn is not adaptable.

Celanese Corporation of America was incorporated in 1918 but was not very active in this field until 1925 and has since become the third largest producer. This company makes rayon yarn and staple fiber by the acetate process and claims to have recently developed a new yarn, four or five times as strong as rayon for use in hosiery and tire fabrics.

The profitableness of the rayon producers, expressed in rates of return on investments, are presented for all eight companies under review, individually and as a group, from 1915 to 1938 , inclusive, on two bases; uamely, total investment and stockholders' investment, before deducting provisions for Federal income taxes from earnings. The total investment consists of long-term borrowings, stocks outstanding, surplus, and surplus reserves. The stockholders' investment, included all these items except long-term borrowings. Inasmuch as some of these rayon companies had only small bond issues or other long-term debt, the total investment is only slightly greater than the stockholders' investment and the rates of return are only slightly higher on the stockholders' investment.

Since American Viscose Corporation was the only domestic producer prior to 1920 by reason of its patent monopoly, it is the only company for which rates of return are presented prior to that time. Following that time, rates of return are presented for other companies as they entered the business. The following tabulation gives the rates of return on the basis of total investment and stockholders' investment for the companies as a group in all years for which the information was available during 1915-1938:

| Year | Number of companies | Rates of return on- |  | Year | Number of companies | Rates of return on- |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total investment | Stockholders' investment |  |  | Total investment | Stockholders' investmeat |
| 1915 | 1 | Percent $26.32$ | Percent 126. 32 | 1928 | 5 | Percent $24.49$ | Percent $24.57$ |
| 1916. | 1 | 109.19 | 109. 19 | 1929. | 6 | 18.05 | 18.97 |
| 1917. | 1 | 95.96 | 95.96 | 1930 | 7 | 4,96 | 4. 96 |
| 1918 | 1 | 69.49 | 69.49 | 1931. | 7 | 3. 35 | 3. 35 |
| 1919 | 1 | 97.02 | 97.02 | 1932 | 7 | 1.47 | 1. 46 |
| 1920 | 1 | 64.21 | 64.21 | 1933. | 3 | 12.16 | 12. 21 |
| 1921 | 2 | 41.99 | 41.99 | 1934 | 8 | 6. 88 | 6. 91 |
| 1922 | 2 | 50.12 | 50.12 | 1935. | 8 | 6. 74 | 6. 80 |
| 1923. | 2 | 43. 15 | 43.15 | 1936 | 8 | 11. 47 | 11.65 |
| 1924 | 2 | 26. 73 | 26. 73 | 1937. | 8 | 12.14 | 12. 31 |
| 1925 | 3 | 30.60 | 31.00 | 1838 | 8 | 2.52 | 2. 44 |
| 1926 | 4 | 20. 14 | 20.46 |  |  |  |  |
| 1927. | 4 | 25. 76 | 26.07 | Averas |  | 13.99 | 14. 18 |

The tabulation shows that all eight companies as a group earned profits equivalent to approximately 14 percent on each basis of investment during the 24 -year period. Exceptionally high rates of return were earned from 1916 to 1920 , inclusive, ranging from 64.21 to 109.19 percent on the total investment and the same on the stockholders' investment. During the period from 1921 to 1929, inclusive, they ranged from 18.05 percent to 50.12 percent on the total investment. The returns decreased to 4.96 percent in 1930 and continued to decline to 1.47 percent in 1932 . They recovered sharply in 1933 when 12.16 percent was earned on the total investment. During the next 2 years the returns were 6.88 percent and 6.74 percent of the total investment, while during 1936 and 1937 they were 11.47 percent and 12.14 percent, respectively. During 1938 , profits were much lower, amounting to 2.52 percent on the total investment and 2.44 percent on the stockholders' investment.

The annual and average returns earned by each company during the years 1915-38 are given in the two tabulations which follow. These tabulations show that the average returns carned by each of the three largest companies were higher than for any of the other eight companies, and the returns for American Viscose Corporation, the largest company, were considerably higher than for any of the other companies. On each basis of investment the average profits of American Viscose Corporation were euqivalent to 21.27 percent. This high average return is attributable to the phenomenal profits earned during the earlier vears when the company held the patent monopoly. The next largest two companies, the du

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Pont Co. and Celanese Corporation of America, followed in the order of high returas. The average return earned by the rayon department of the du Pont Co. was 11.52 percent on each basis of investment, and the average return earned by the Celanese Corporation of America was 9.75 percent on the total investment and 10.19 percent on the stockholders' investment. Good returns were earned by each of the other companies except American Bemberg Corporation, the smallest company. Its average return was only moderate being slightly over 3 percent on each basis of investment.

However, this is not to say that the smaller companies were the least profitable under normal competitive conditions. Most of the smaller companies had higher rates of return during 1936, 1937, and 1938 than did the larger companies; and the smallest company had the highest rates of return of any of the companies in 1937 and 1938. In those years its returns were over 29 and 18 percent, respectively, on each basis of investment. The tables show that the returns for the respective companies during recent years were completely contradictory to the annual averages. An impelling factor for the higher average returns for the larger companies was the larger 'profits earned during the earlier years when they had the field to themselves.

Annual rate of return on total investment for principal rayon companies, 1915-98


[^14]Annual rate of rcturn on stockholdens' investment for principal rayon companies, 1915-38

| Year | Amer ican Viscose Corporation | Rayon department of E. I. du Pont de Nemours \& Co. | Celanese Corporation of America | Industrial Rayon Corpor- ation | The American Enka ation | North American Rayon Corporation | Tubize-Chatillon Corporation | American Bemberg Corporation | A verage for group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1915. | 26.32 |  |  |  |  |  |  |  | 26.32 |
| 1916 | 109. 19 |  |  |  |  |  |  |  | 109.19 |
| 1917 | 95. 96 |  |  |  |  |  |  |  | 95.96 |
| 1918 | 69.48 |  |  |  |  |  |  |  | 69. 43 |
| 1919 | 97.02 |  |  |  |  |  |  |  | 97.02 |
| 1920 | 64.21 |  |  |  |  |  |  |  | 64.21 |
| 1921 | 44.62 | 12. 13 |  |  |  |  |  |  | 41. 99 |
| 1922 | 51.16 | 34.11 |  |  |  |  |  |  | 50.12 |
| 1923 | 43.47 | 38. 91 |  |  |  |  |  |  | 43. 15 |
| 1924 | 26.63 | 27.88 |  |  |  |  |  |  | 26.73 |
| 1925. | 32.39 | 34.19 | 0.36 |  |  |  |  |  | 31.00 |
| 1926. | 21.75 | 15. 23 | 13.68 | 18.47 |  |  |  |  | 20.46 |
| 1927 | 26.19 | 27.01 | 22.11 | 33.81 |  |  |  |  | 26.07 |
| 1928 | 28.79 | 26.63 | 9.09 | 23.43 |  |  |  | 8.45 | 24.57 |
| 1929 | 23.43 | 19.04 | 9.88 | 12.61 |  | 10.96 |  | 1. 25 | 18.07 |
| 1930 | 8.07 | 1.90 | 5.98 | 13. 56 | 14.28 | 1.30 |  | 17.42 | 4. 86 |
| 1931. | 4.44 | 4.45 | 3. 03 | 6.45 | 11.55 | ${ }^{1} .32$ |  | 19.77 | 3.35 |
| 1832. | 2.35 | 1.21 | 3.47 | 2.08 | 11.29 | ${ }^{1} 3.51$ |  | ${ }^{1} 10$ : 49 | 1.46 |
| 1933 | 10.55 | 12.65 | 20.37 | 14.41 | 8.86 | 12.58 | 4.36 | 14.68 | 12. 21 |
| 1934 | 6. 97 | 8.58 | 11.18 | 9.33 | 1.84 | 5.88 | 11.47 | ${ }^{19} 9.96$ | 6. 90 |
| 1935 | 6.53 | 5. 27 | 12.98 | 4.25 | 5.03 | 10.07 | 6.10 | ${ }^{1} 11.17$ | 6. 80 |
| 1936 | 9.67 | 11.00 | 13.07 | 9.66 | 17.12 | 21.76 | 12.75 | 17.32 | 11.65 |
| 1937 | 10.16 | 13. 10 | 11.87 | 1.67 | 21. 19 | 24.57 | 17.08 | 29.84 | 12.31 |
| 1938 | 11.66 | 4.15 | 6.63 | 1.16 | 8.46 | 4.48 | 3.02 | 18.48 | 2.44 |
| A vera | 21.27 | 11.52 | 10.19 | 8.55 | 6.31 | 7.33 | 6.87 | 3.14 | 14.18 |

## 1 Denotes loss.

The rank in size of the various companies under review has been indicated in terms of production. The following tabulation shows the position of each of the eight companies in terms of investment, and also shows the deviations of the relative proportions of their combined investments in 1938 from those based on the 1915-38 average.

Ratios of total investment


The investments shown above include quite large amounts that were not devoted directly to the rayon business with respeet to American Viscose Corporation. This company reinvested a substantial proportion of its earnings from time to time in stocks and bonds of other companies and nontaxable Government securities and obligations, particularly the latter. These outside investments averaged $\$ 41,738,385$ for the years $1915-38$ and $\$ 42,078,381$ in 1938 . The return on such investments was much lower than the investment in the rayon business. This is indicated in the following tabulation which shows that the average return to the company on that portion of its capital devoted solely to the rayon business was 37.52 percent as compared with average earnings from all sources equivalent to 21.27 nercent on the entire investment.

Rates of relurn

| Year | On total investment : | On investment in the rayon business | Year | On total investment ${ }^{1}$ | On investment in the rayon business |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4915 | Percent 26.32 | Percent 26. 32 | 1928 | Percent 28.79 | $\begin{aligned} & \text { Percent } \\ & 59.36 \end{aligned}$ |
| 1916 | 109. 19 | 109. 19 | 1929 | 23.43 | 44.55 |
| 1917 | 95.96 | 95.96 | 1930 | 8.07 | 10. 35 |
| 1918. | 69.49 | 100. 56 | 1931 | 4. 44 | 4.83 |
| 1919 | 97.02 | 268.96 | 1922 | 2.35 | 1. 32 |
| 1920 | 64.21 | 156. 83 | 1933 | 10.55 | 17.01 |
| 1921 | 44.62 | 87.16 | 1934 | 6.97 | 10.12 |
| 1922 | 51. 16 | 97.00 | 1935 | 6.53 | 9. 22 |
| 1923. | 43.47 | 88.13 | 1936 | 9. 67 | 14.78 |
| 1921 | 26. 63 | 54.18 | 1937. | 10.16 | 15. 36 |
| 1925 | 32. 39 | 72.64 | 1938. | ${ }^{2} 1.66$ | 24.34 |
| 1926 | 21.75 | 46. 01 |  |  |  |
| 1927 | 26. 19 | 52.82 | A verage | 21.27 | 37. 52 |

1 Total investment and stockholders' investment are identical.
${ }^{2}$ Denotes loss.
The table indicates strikingly the effects of competition on the operating results of American Viscose Corporation as other companies entered the business following the expiration of its patent monopoly. Prior to 1920 it was the sole producer and the entrance of other companies thereafter was gradual. This is reflected in exceptionally high net returns for the company during the earlier years and in lower returns in later years. This is emphasized in the following tabulation which summarizes the company's investments, profits, and rates of return, on the basis of its total investment and on the basis of its investment in the rayon business only, for the years 1915-20, 1921-29, and 1930-38:

## American Viscose Corporation


During the 24 -year period the net sales of American Viscose Corporation amounted to $\$ 1,024,509,135$, an annual average of $\$ 42,687,881$. In 1938 its sales amounted to $\$ 42,074,969$. The average of the annual net sales of the next largest company-du Pont-since its entry into the business in 1920 was a little less than half the average sales of the Viscose Corporation. However, its sales in 1938 more nearly approximated those of the Viscose Corporation, amounting to $\$ 34,525,988$. In that year the sales of the third largest outstanding com-pany-Celanese Corporation of America-amounted to $\$ 28,685,282$.

The profitableness of the American Viscose Corporation to its organizers and owners is further emphasized in the following tabulation which summarizes the company's net sales, net profits after providing for the payment of Federal income and profits taxes, dividend payments, and surplus for the period 1915-38:

American Viscose Corporation

|  | Total, 1915-38 | Annual average |
| :---: | :---: | :---: |
| Net sales | \$1,024, 509, 135 | \$42, 687, 881 |
| Net profit after provision for Federal income tax | 354, 455, 728 | 14,768, 989 |
| Dividends paid: |  |  |
| In cash on preferrod stock | 13, 689, 696 | 570, 404 |
|  | 182,472, 299 | 7,603, 012 |
| Stock dividends consisting of preferred stock issued to common stockholders later retired for cash | 40,568, 456 | 1,690,353 |
| Total divldends | 236, 730, 451 | 9, 868. 768 |
| Net profit after dividends | 117, 725, 277 | 4,905,220 |
| Surplus transferred to surplus reserves | 42,000,000 |  |
| Surplus transferred to capital stock. | $20,914,789$ | -...------------ |
| Amortization of goodwlll | $25,682,470$ | -.-.----.---.-. |
| Premlum and dividends on stock repurchased | 7, 029, 482 |  |
| Other additions to surplus-net ................ | 284, 798 |  |
| Balance in surplus at the end of 1938 | 22, 383, 334 |  |

In 1915, when the predecessor company of American Viscose Corporation was formed, the net worth of the assets of the original American Viscose Co. was $\$ 3,632,082$. This amount represents practically all the capital invested at that time or since by Courtaulds, Ltd., in American Viscose Corporation. At December 31, 1938, the invested capital consisting of common-stock holders' equity amounted to $\$ 113,538,834$. About 95 percent of the common stock is still retained by Courtaulds, Ltd. Practically all of the $\$ 113,538,834$ represents reinvested earnings, with the exception of the $\$ 3,632,082$ previously mentioned and it is very probable that a substantial portion of this amount consisted of reinvested earnings as the original company had been organized in 1909 and had been operating successfully. The invested capital at the end of 1938 , amounting to $\$ 113,538,834$, consisted of $\$ 49,155,500$ of common stock, $\$ 22,383,334$ of surplus, and $\$ 42,000,000$ of surplus reserves. The latter amount includes reserve for fire insurance of $\$ 25,000,000$ and reserve for contingencies, etc., of $\$ 17,000,000$.

The preceding tabulation illustrates the source of the reinvested earnings classified as surplus and surplus reserves. Also from that tabulation it may be seen that $\$ 25,682,470$ was used to write off goodwill which originally had been reflected in the capital stock account and that $\$ 20,914,789$ of surplus was transferred to the capital stock account. These amounts plus the originai $\$ 3,632,082$ more than account for the capital stock amounting to $\$ 49,155,500$; the difference may be accounted for by repurchases by the company of small amounts of capital stock for cash.

On the original investment of $\$ 3,632,082$, in 1915 , the investors-primarily Courtaulds Ltd.-received $\$ 236,730,451$ of dividends in cash and in preferred, stock, later redeemed for cash, together with $\$ 7,029,482$ premium anu accrued dividends on the stock redeemed, and they also retained an equity in the business valued at $\$ 113,538,834$ at the end of 1938 .

## Part II

INVESTMENTS, PROFITS, AND RATES OF RETURN FOR TOBACCO PROCESSORS

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## INVESTMENTS PROFITS, AND RATES OF RETURN FOR TOBACCO PROCESSORS

## Introduction

This report deals with the investments, profits, and rates of return of the princir - tobacco processors engaged in the manufacture and sale of tobacco products, such as cigarettes, cigars, smoking and chewing tobacco, and snuff. The companies concerned include the American Tobacco Co., Liggett \& Myers Tobacco Co., R. J. Reynolds Tobacco Co., P. Lorillard Co., Brown \& Williamson Tobacco Co., the Axton-Fisher Tobacco Co., American Snuff Co., George W. Helme Co., United States Tobacco Co., General Cigar Co., Inc., Porto Rican American Tobacco Co., Consolidated Cigar Corporation, and Bayuk Cigars, Inc.

The investments, profits, and rates of return are presented for these companies individually and by groups for all years during the period 1917-37, for which the information is available. Comparisons are made of the investments, sales, and operating results for all companies combined, and for individual companies functionally grouped according to (1) those who manufacture and sell on a large scale, cigarettes and other tobacco products, (2) those who are primarily cigar manufacturers, and (3) those who are primarily snuff manufacturers. The relative importance of the various companies is pointed out and the degree of concentration of the business indicated. Information concerning saiaries and other compensation paid to officers of the larger companies is presented for the more recent years.

The financial information, which is the basis for the discussion of investments, profits, and rates of return, was obtained from certified written reports submitted by the companies in answer to questionnaires. Such information for the years 1917-28 and 1935-37 was obtained by questionnaire specifically for use in this inquiry, and the information for the intervening years was obtained from reports submitted by the companies in connection witl the Federal Trade Commission's agricultural income inquiry.

## History and Business of the American Tobacco Co.

The history of the American Tobacco Co. dates from 1890, when the company was organized as a consolidation of the five principal cigarette manufacturers who among them controlled approximately 90 percent of the country's cigarette business. ${ }^{1}$

According to the report of the Commissioner of Corporations on the tobacco industry, the American Tobacco Co., in 1891, extended its business along other lines by acquiring two important smoking tobacco concerns and by entering the plug and cheroot branches of the business. From 1894 to 1897, the company developed its plug tobacco business by methods which succeeded in foreing its leading competitors to combine their interests with those of American Tobacco Co. This resulted late in 1898 in the organization, substantially under its control, of the Continental Tobacco Co. This company took over the plug tobacco business of American Tobacco Co. and also that of several leading competitors, and shortly after its organization acquired Liggett \& Myers Tobacco Co., the largest and most important plug tobacco concern of the country.

The Continental, by this and subsequent acquisitions, acquired substantial control of the plug-tobacco business of the country. The acquisition of Liggett \& Myers Tobacco Co. brought into the combination another group of powerful financial interests.

Shortly after the organization of Continental Tobacco Co., the combined interests obtained control of practically all of the leading snuff concerns of the country. This led to the formation of American Snuff Co. and placed the combination in a dominant position in the manufacture of all of the important kinds of tobacco except cigars. In 1900 the combination had 62 percent of the national

[^15]output of plug tobacco and 59.2 percent of smoking tobacco, and in 1901, the first full year of American Snuff Co., it had 80.2 percent of the total output of snuff. Moreover the combination still retained an almost complete monopoly of the cigarette business. ${ }^{2}$
The combination then turned its attention to the cigar business, at that time the most important of all the branches, but also the most difficult one in which to effect a combination. There were a very large number of small manufacturers and comparatively few large ones. Except for the cheaper type of cigars, machine production had been of little consequence. However, in 1901 the American Tobacco Co. entered extensively into the cigar business by organizing the American Cigar Co. The acquisition of competing cigar companies by the American Cigar Co. immediately made it the largest single manufacturer of cigars in the country, but it did not then possess and never succeeded in acquiring any large proportion of the total cigar business of the United States.

The report of the Commissioner of Corporations on the tobacco industry also states that the power of the American Tobacco Co. and associated companies was further greatly increased by the organization in 1901 of the Consolidated Tobacco Co., a holding company. The Consolidated was the means of concentrating control within the combination. It acquired practically all of the common stock of the American and Continental companies in exchange for bonds. The report states that the organization of Consolidated Tebacco Co. was planned by leading interests in the American and Continental tobacco companies. The stockholders of these companies were induced to exchange their common stock for bonds of the new company bearing a fixed rate of interest. The report further states that as a result the greatly increased profits in the business from the reduction in the internal-revenue tax soon afterward, which increase the stockholders generally could not foresee, accrued in large part to the advantage of the inside interests as the chief holders of the Consolidated stock.

In 1904, the American, Continental, and Consolidated companies were merged into the present the American Tobacco Co., the central concern of the combination. The company formerly owned approximately two-thirds of the capital stock of the British-American Tobacco Co., Ltd. (the Imperial Tobacco Co. owning the other one-third); a majority of the stock of the American Cigar Co., the P. Lorillard Co., United Cigar Stores Co., the R. J. Reynolds Tobacco Co., the MacAndrews \& Forbes Co., the Conley Foil Co., and a majority of the common stock (but not a majority of all voting stock) of the American Snuff Co. The American Tobacco. also owned in fee various plants and properties, which for the most part had been acquired from competitors, and controlled, directly or indirectly, a number of small concerns. Through the American Cigar Co., the company also controlled the entire capital stock of Federal Cigar Co., onethird of the stock of the Puerto Rican American Tobacco Co. (American Tobacco Co. also owning one-third), a majority of the common stock of Havana Tobacco Co. (now Cuban Tobacco Co., Inc.), and of American Stogey Co., and one-half the stock of Puerto Rican Leaf Tobacco Co.

In May 1911 the Supreme Court of the United States found the American Tobacco Co. to be a monopoly violating the provisions of the Sherman Antitrust Act. At that time the company produced from more than 76 to over 96 percent of the various tobacco products except large cigars, of which it produced nearly $141 / 2$ percent. ${ }^{3}$ In addition to monopoly in the manufacture of tobacco products, the company exercised control over other products such as licorice paste, used in chewing tobacco; and tinfoil, cotton smoking-tobacco bags, wooden shipping boxes, tin, and pasteboard boxes and other containers.

A decree of dissolution handed down by the Circuit Court for the Southern District of New York in November 1911 provided that practically the entire business of the American Tobacco Co. and its subsidiary and affiliated companies, comprising the combination, should be divided among 14 separate companies. The apportionment of the assets and business among the 14 companies was devised with the express intention that no company should obtain a controlling position in any of the chief branches of the business. Stock ownership of the 14 companies was so arranged by the terms of the decree that none of the stock of any of the 14 corporations was to be owned by any other of the 14 . The 14 companies, with the nature of the business of each, were as follows:

1. The American Tobacco Co.-General tobacco manufacturing business (except snuff).

[^16]2. Liggeti \& Myers Tobacco Co.-General tobacco manufacturing business (except snuff).
3. P. Lorillard Co.-Gencral tobacco manufacturing company (except snuff).
4. R. J. Reynolds Tobacco Co.-General tobacco manufacturing business (except snuff, cigars, and cigarettes).
5. American Snuff Co.-Snuff-manufacturing business.
b. George W. Helme Co.-Snuff-manufacturing business.
7. Weyman-Bruton Co. (now United States Tobacco Co.)-Snuff manufacturing business.
8. British-American Tobacco Co., Ltd.-General manufacturing business (foreign).
9. Porto Rican-American Tobacco Co.-Cigar manufacturing business (Porto Rican and foreign).
10. MacAndrews \& Forbes Co.-Licorice-paste-manufacturing business.
11. J. S. Young Co.-Licorice-paste-manufacturing business.
12. The Conley Foil Co.--Tinfoil manufacturing business.
13. The Johnston Tin Foil \& Metal Co.-Tinfoil manufacturing business.
14. United Cigar Stores Co.-General retail tobacco business.

The businesses of R. J. Reynolds Tobacco Co., British-American Tobacco Co., Porto Rican-American Tobacco Co., and United Cigar Stores Co. remained intact, though their stocks, so far as held by American Tobacco Co., were distributed to the common stockholders of that company. This detached the companies from the corporate control of American Tobacco Co.

The business of American Snuff Co. was divided into three parts, and the ownership of the company was detached from the control of American Tobacco Co. American Snuff Co. retained a part of the business, while the rest was apportioned between the George W. Helme Co. and Weyman-Bruton Co. (now United States Tobacco Co.), two new companies organized for this purpose.

The business of MacAndrews \& Forbes Co., which had control of the licorice branch of the combination's business, was divided into two parts. One part was transferred to the J. S. Young Co., a new company organized for the purpose, and the remainder was retained by MacAndrews \& Forbes Co.

The business of the Conley Foil Co. was divided into two parts. One part was retained by that company and the rest was assigned to the Johnston Tin Foil \& Metal Co., which previously had been a subsidiary of the Conley Foil Co,

The American Cigar Co., though not detached from the control of American Tobacco Co., was required to transfer part of its business to other defendant companies.

Practically all of the remainder of the assets of the combination that was applicable to the business of manufacturing tobacco for the domestic market, except for snuff, was divided between the American Tobacco Co., R. J. Reynolds Tobacco Co., Liggett \& Myers Tobacco Co., and P. Lorillard Co. The last two companies were newly organized for the purpose.

The American Tobacco Co. formerly owned the entire capital of the Tin Decorating Co. of Baltimore, with a factory in that city manufacturing plain and lithographed containers, tags, etc., but the assets of this company-were sold as of December 31, 1935. The company also owns the stock of the Golden Beli Manufacturing Co. of Durham, N. C., manufacturere of cotton bags and pure silk hosiery. The company likewise owns a majority interest in the American Cigarette \& Cigar Co. (formerly American Cigar Co.), which controls the Cuban Tobacco Co., Inc.

On October 26, 1923, the Tobacco Products Corporation leased and licensed gll of its brands of cigarettes and smoking tobacco to the American Tobacco Co. for a period of 99 years, commencing November 1, 1923, for which it was paid $\$ 2,500,000$ annually until January 31, 1935, when the lease was commutated and the American Tobacco Co. became the owner of the brands previously leased, for an outlay of $\$ 36,748,873$. At the time the lease was executed the American Tobacco Co. acquired all of the tangible manufacturing assets of the Tobacco Products Corporation, including leaf tobacco, machinery and plants, for an approximate sum of $\$ 12,000,000$. Tobacco Products Corporation had been organized in 1912 by United Cigar Stores interests to build up a large cigarette manufacturing business. According to the Federal Trade Commission's Agricultural Income Inquiry Report, ${ }^{4}$ Tobacco Products Corporation soon acquired a large part of the "independent" cigarette output through acquisitions of many tobacco-manufacturing concerns. The history of the corporation with

[^17]the United Cigar Stores was one of complicated financial manipulation. Among the leading brands acquired by American Tobacco Co. from the corporation were Herbert Tareyton and Melachrino.

Effective January 1, 1932, the American Tobacco Co. leased the business of American Cigar Co. (the name was changed to American Cigarette \& Cigar Co. in 1936), together with its plants and manufacturing facilities and real estate (except that located in Missouri and Connecticut) and its brands, trade-marks, etc., and purchased from American Cigar Co. all leaf tobacco, tobacco in process, manufactured tobacco, supplies, accounts receivable, treasury stock, and the investment of American Cigar Co. in Porto Rican Leaf Tobacco Co., and certain other assets, including real estate in Missouri. The term of the lease was 99 years, at an annual rental of $\$ 1,800,000$, plus insurance and taxes on the leased property. For its assets thus sold American Cigar Co. received 70,500 common shares and 129,500 common B shares of American Tobacco Co., and \$11,672 in cash. In addition, the American Tobacco Co. assumed debts of American Cigar Co. amounting to $\$ 13,024,727$.

At December 31, 1937, the American Tobacco Co. directly owned or controlled the following active subsidiaries:

|  |
| :---: |
| Golden Belt Manufacturing Co The American Tobacco Co. of Coast. <br> The American Tobacco Co. of Inc |
|  |  |
|  |  |
|  |  |
|  |  |

Cigars and cigarettes.
Cloth bags and silk hosiery.
Distributors of tobaccos and cigarettes.
Buyers, handlers, and shippers. of Turkish leaf tobacco.
Buyers, handlers, and shippers of domestic leaf tobacco.
De Mauduit Paper Corporation
Importers and distributors of cigarette papers.
The Hatheway-Steane Corporation
Growers, handlers, and shippers of domestic cigar leaf.
2 foreign subsidiaries ${ }^{1}$ $\qquad$
The company considers the disclosure of the names of these foreign subsidiaries would be prejudicial to the interest of its stockholders and states that its investment in and advances to these subsidiaries are not considered to be of significant amount in relation to the consolidated balance sheet of the company and its subsldiaries. Likewise, that the operations of these foreign subsidiaries are not considered significant in relation to the consolidated income account of the company and its stibsidiaries.

At December 31, 1937, the company's principal plants for the manufacture of cigarettes were located in Richmond, Va., and Reidsville and Durham, N. C. Plants for the manufacture of cigars were located in Charleston, S. C., Philadelphia, Pa., and Trenton, N. J. Plants for the manufacture of other tobacco products were located in Louisville, Ky., Nashville, Tenn.; Richmond, Va.; and Durham, N. C.

The company's principal brands include Lucky Strike, Sweet Caporal, Omar, Lord Salisbury, Melachrino, Ferbert Tareyton, and Johnny Walker cigarettes; Blue Boar, Half and Half, Tuxedo, Bull Durham, Ivanhoe, Long Cut, Lucky Strike, U. S. Marine, and Old English Curve Cut smoking tobaccos; American Navy, Battle Ax, Boot Jack, Penn's Natural Leaf, Piper Heidsieck, Red J, Spear Head, Square Deal, and Town Talk, plug cut tobaccos; and Cremo, Antonio y Cleopatra, Chancellor, and El Roi Tan cigars.

## History and Business of Other Jmportant Tobacco Processors

In addition to the American Tobacco Co., this report deals with 12 other important companies, of which 5 are engaged in the manufacture and sale of cigarattes and other tobacco products, 3 are snuff companics, and 4 are cigar companies The 5 companies referred to include Liggett \& Myers Tobacco Co., R. J. Reynolds Tobacco Co., P. Lorillard Co., Axton-Fisher Tobacco Co., and Brown \& Williamson Tobacco. Corporation. The 3 snuff companies include American Snuff Company, United States Tobacco Co., and George W. Helme Co. The 4 cigar manufacturers are Porto Rican American Tobacco Co., General Cigar Co., Inc., Consolidated Gigar Co., and Bayuk Cigars, Inc. From the standpoint of investments and sales, American Tobacco Co., Liggett \& Myers Tobacco Co., and R. J. Reynolds Tobacco Co. are the largest of the companies included for discussion.

As previously explained, Liggett \& Myers Tobacco Co. was organized in 1911 to acquire certain assets of the American Tobacco Co. as provided for by the court
decree ordering the segregation of the assets of the latter company. Liggett \& Myers Tobacco Co. owns, directly or indirectly, plants for the manufacture of its tobacco products, located in Durham, N. C., Richmond, Va., Chicago, Ill., Toledo, Ohio, and San lirancisco, Calif. The brands manufactured include Chesterfield, Fatima, and Piedmont cigarettes, Dukes' Mixture, Velvet, and Granger smoking tobaccos, and Star, Horseshoe, Masterpiece, Drummond Natural Leaf, Tinsley's Natural Leaf, and Spark Plug chewing tobaccos.
R. J. Reynolds Tobacco Co. was organized in April 1899. It manufactures and sells cigarettes, smoking tobaccos, and chewing tobaccos. It was formerly a subsidiary of American Tobacco Co. but control was relinquished by the latter company under the court decree. In addition, the Reynolds Co. received certain assets of the combination to round out its business, but no cigarette business. However, in 1913 and 1914 it entered the cigarette business and introduced its immensely popular Camel cigarettes. Other tobacco brands manufactured by the company include Prince Albert, George Washington, Stud, and Our Advertiser smoking tobaccos, and Apple, Brown's Mule, Day's Work, Torchlight, Schnapps, Mickey, Reynold's Sun Cured, and Sweepstakes chewing tobaccos. The company's plants are located at Winston-Salem, N. C., Richmond, Danvilie, and South Boston, Va., and Louisville, Lexington, and Marysville, Ky.

The business of P. Lorillard Co. was established in 1760, but it was part of American Tobacco Co. at the time of the reorganization of that company under the court decree. However, under the decree, a new P. Lorillard Co. was organized to which was transferred certain assets of American Tobacco Co. The company manufactures cigarettes, cigars, and smoking and chewing tobacco at its various plants. Its principal brands include Old Gold, Sensation, Deities, Murad, Helmar, and Tally-ho cigarettes Union Leader, Brigg's Pipe Mixture, Friends, Ripple, Tiger, and Century smoking and fine cut tobaccos, Beech-Nut, Havana Blosson, Bagpipe, Climax, and Planet chewing and plug tobaccos, VanBibber, Between the Acts, Lyceum, Royal Bengals, and LeRoy Majors little cigars, Muriel, Rocky Ford, New Currency, and Old Virginia Cheroots cigars. Its sales of cigarettes account for about one-half of its revenues.

The Axton-Fisher Tobacco Co., Inc., was incorporated March 1, 1928, in Kentucky and took over the assets and business of Axton-Fisher Tobaceo Co. which was organized in 1905, succeeding the Axton-Hilton Tobacco Co. During 1928, the company acquired all of the assets, except real estate, of Smith \& Scott Tobacco Co. of Paducah, Ky. The company, in its plant at Louisville, Ky., manufactures various brands of pipe and chewing tobacco, among which are Old Hillside, Old Loyalty, White Mule, Booster, Axton Natural Leaf, 8 Hour, Wage Scale, and Hummer; also Clown, Spud, and Twenty Grand cigarettes. The company has had a rapid growth in recent years. It is controlled by the Standard Commercial Tobacco Co., Inc.

Brown \& Williamson Tobacco Corporation was incorporated March 16, 1927, in Delaware, and acquired by purchase certain assets and the brands and goodwill of an earlier company of that name which was dissolved. The present company was organized and is controlled by the British-American Tobacco Co., Ltd. Its growth since organization has been rapid. Its sales of cigarettes, like those of American Tobacco, Liggett \& Myers, Reynolds, and Axton-Fisher account for the bulk of its revenues. Its leading cigarette brands include Raleigh, Wings, and Kool.

American Snuff Co., was organized in March 1900 by the tobacco combination interests to acquire the business of manufacturing and selling snuff previously carried on by American Tobacco Co., Continental Tobacco Co., P. Lorillard Co., and certain other companies. This centered the combination's snuff business in American Snuff Co., which in 1901, the first full year of its operation, had about 80 percent of the country's output of snuff. As previously explained, the control of American Snuff Co., was detached from American Tobacco Co. under the court decree and part of its assets were transferred to two new companies organized for the purpose, namely, the George W. Helme Co. and Weyman-Bruton Co. The name of the latter company was changed to United States Tobacco Co. in 1922. At the present time the American Snuff Co., George W. Helme Co., and United Statez Tobacco Co., together account for nearly all of the country's output of snuff. The sole product of American Snuff Co. and George W. Helme Co. is snuff. In addition to snuff the United States Tobacco Co. manufactures smoking tobaccos.

Porto Rican American Tobacco Co. was organized in 1899 and was controlled by American Tobacco Co. up to the time of the segregation of the assets of the latter company in 1911 pursuant to the decree of dissolution. As previously stated, the stocks of Porto Rican American Tobacco Co. held by American

Tobacco Co. were distributed pro rata to the holders of the common stock of the latter company as a result of the court decree. Porto Rican American Tobacco Co. sells cigars, cigarettes, and little cigars manufactured by a wholly owned subsidiary, Porto Rican American Tobacco Co. of Delaware. 'The latter company operates factories in Puerto Rico and carries on the local business there. Its best known brands of cigars are Ricora, El Toro, Portina, Nurica, and La Restina, which are widely distributed in the United States by the parent company. The parent company also controls the Congress Cigar Co., Inc., makers of La Palina cigars and Waitt \& Bond, Inc., makers of Blackstone cigars.

General Cigar Co., Inc., was organized in 1906 as United Cigar Manufacturing Co. Its name was changed to the present title in 1917. Its controls the General Cigar Co. of Cuba, Ltd., which is engaged in buying, packing, and stripping tobacco. The parent company manufactures and distributes cigars including the following brands: Robert Burns, White Owl, Van Dyck, William Penn, Little Bobbie, and Laddies.

Consolidated Cigar Corporation was organized in 1915 to acquire the business and properties of E. M. Schwarz \& Co., Inc., and T. J. Dunn \& Co., New York; Lilies Cigar Co., Detroit; and Jose Lavera Co., L. Sidelo Cigar Co., and Samuel I. Davis Co., Tampa, Fla. The company has since acquired other companies in other cities. It manufactures a number of popular brands of cigars, including Henry George, Harvester, El Sidelo, Mozart, Adlon, El Producto, La Azora, Dutch Masters, and 44.

Bayuk Cigars, Inc., was incorporated in 1920 as Bayuk Bros., Inc., to acquire the property and business of Bayuk Bros., Co., Mapacuba Cigar Co., and Merchants Real Estate Co. 'The name was changed to the present one in July 1923. The brands of cigars manufactured in the company's numerous plants include Bayuk Phillies, Havana Ribbon, Mapacuba, Charles Thomson, Little Phillies, and Prince Hamlet.

## Changes in Control of Manufactured Products

The segregation of the assets of the combination under the decree of dissolution resulted in radical changes in the proportions of the various products formerly produced by American Tobacco Co. and its subsidiaries as compared with the business remaining with that company after its reorganization. The division of the combination's business not only involved the readjustment of the financial structure but also the distribution of brands and plants to the various companies which were to carry on the business. There have also been important changes in the proportions of the various branches of the business carried on by individual companies since that time.

At the time of the dissolution of the combination, American Tobacco Co. and subsidiaries produced about 84 . percent of the country's output of cigarettes, 76 percent of the output of smoking tobacco, over 84 percent of the output of chewing tobacco, more than 96 percent of the output of snuff, and nearly. $141 / 2$ percent of the cigar business. ${ }^{6}$

The cigarette business was divided between American Tobacco Co., Liggett \& Myers Tobacco Co., and P. Lorillard Co. On the basis of total cigarette sales in the United States in 1910, 38.8 percent of the cigarette business went to Amcrican Tobacco Co., 29.1 percent to Liggett \& Myers Tobacco Co., and 15.9 percent to P. Lorillard Co.

The smoking tobacco business was divided between four companies, of which American Tobacco Co. received the equivalent of 32 percent of the country's output, Liggett \& Myers Tobacco Co. received 19.4 percent, P. Lorillard Co. received 22.1 percent, and R. J. Reynolds Tobacco Co. received 2.6 percent.

The chewing tobacco business was divided, 25.4 percent to American Tobacco Co., 35.7 percent to Liggett \& Myers Tobacco Co., 5.4 percent to P. Lorillard Co., and 17.7 percent to R. J. Reynolds Tobacco Co.

As previously explained, the combination's snuff business was divided between American Snuff Co., George W. Helme Co., and Weyman-Bruton Co (now United States Tobacco Co.). The snuff business of the combination, which was over 96 percent of the country's output, was divided between these three companies in the proportion of 34.8 percent for American Snuff Co., 33.5 percent for George W. Helme Co., and 31.7 percent for Weyman-Bruton Co.

The combination's cigar business, which, it will be noted, was relatively small in relation to the country's output, was retained in part by American Tobacco Co.,

[^18]part was allotted P. Lorillard Co., and the remainder was sold to outside interests. Of the total cigar business formerly carricd on by the combination, 45.4 percent went to American Tobacco Co. and 42.8 percent to P. Lorillard Co.

There has been a marked change in the proportions of leaf tobacco used in the manufacture of cigars, cigarettes, and other tobacco products since 1910. The following tabulation shows the quantity of leaf tobacco used in the production of cigarettes, cigars, and smoking and chewing tobacco and snuff in 1910 and 1937, and indicates the changes in the habits of the American public with regard to the use of tobacco.

|  | 1937 |  | 1910 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Pounds leaf tobacco used : | Percent of total | Pounds lear tobacco used 1 | $\begin{gathered} \text { Percent of } \\ \text { total } \end{gathered}$ |
| Cigarettes. | 479, 961, 364 | 54.98 | 31, 272, 319 | 5. 98 |
| Cigars | 128, 653, 260 | 14.74 | 141, 116, 460 | 26. 99 |
| Other tobacco products | 264, 309, 344 | 30.28 | 350, 480, 900 | 67.03 |
| Total | 872, 923, 968 | 100.00 | 522, 869, 679 | 100.00 |

${ }^{1}$ From annual reports of the Commissioner of Internal Revenue, 1937 figures are from p. 114 of 1938 report and 1910 figures are from p. 150 of 1914 report.

The tabulation shows that the increase in the use of leaf tobacco for cigarettes, cigars and other tobacco products occurred in the manufacture of cigarettes. In 1937, nearly 55 percent of the total was used in the manufacture of cigarettes as compared with 6 percent in 1910. On the other hand, leaf tobacco used in the manufacture of cigars declined from 27 percent in 1910 to less than 15 percent in 1937, and during this period leaf tobacco used in the manufacture of smoking and chewing tobacco and snuff declined from 67 percent in 1910 to 30 percent in 1937.

According to the latest available information, the 13 manufacturers covered by this inquiry sold over 97 percent of the total United States production of cigarettes in the calendar year 1934, over 89 percent of the smoking tobacco, over 75 percent of the chewing tobacco, and over 98 percent of the snuff. ${ }^{6}$ The combined cigar sales of the 13 companies, while large in the aggregate, were small in relation to the total United States production. As previously indicated, the cigar business is a rather highly decentralized industry carried on by many separate establishments, and because of the nature of the business the old tobacco combination and its successors never succeeded in acquiring any large proportion of the total cigar business of the country.

The four largest tobacco processors, from the standpoint of invested capital and sales, are American Tobacco Co., Liggett \& Myers Tobacco Co., R. J. Reynolds Tobacco Co., and P. Lorillard Co. Together, these companies in 1934 sold 84.2 percent of the total United States production of cigarettes, 74.1 percent of the smoking tobacco, and 70.4 percent of the chewing tobacco. The net changes in the control of manufactured products from 1910 to 1934 of these four companies as they appear at page 275 of the Federal Trade Commission's report on the Agricultural Income Inquiry are presented below:

Percent of United States total production

|  | Cigarettes |  | Smoking tobacco |  | Chewing tobacco 1 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1910 | 1934 | 1910 | 1934 | 1910 | 1934 |
| American Tobacco Co.... | 38.8 | 27.2 | 32.0 | 19.7 | 25.4 | 1.6 |
| Liggett \& Myers Tobacco Co | 29.1 | 27.3 | 19.4 | 21.9 | 35.7 | 26.5 |
| R. J. Reynolds Tobacco Co |  | 25.6 | 2.6 | 23.2 | 17.7 | 25.1 |
| P. Lorillard Co.. | 15.9 | 4.1 | 22.1 | 9.3 | 5. 4 | 17.2 |
| Total.. | 83.8 | 84.2 | 76.1 | 74.1 | 84.2 | 70.4 |

[^19][^20]In regard to the above comparisons in the foregoing tabulation, it should be noted that in 1910 all four companies were units of the tobacco combination. Therefore, the reductions in the proportion of the total business of American Tobacco Co. from 1910 to 1934 were not merely from 38.8 to 27.2 percent on cigarettes, for example, but were 83.8 to 27.2 percent. Nevertheless, the figures in the tabulation do represent the proportions of the total production by lines or brands of products. Thus, the 38.8 percent shown for cigarettes produced by American Tobacco Co. in 1910 represents the production in the lines of cigarettes which were retained by American Tobacco Co. after the dissolution. These companies show that the proportion of production decreased in each line retained by American Tooacco Co. and that there was a marked decrease in the chewing tobacco lines. The principal change in the lines of business assigned to Liggeit \& Myers Tobacco Co. was in the chewing-tobacco lines which decreased from 35.7 to 26.5 percent.

It will be noted that the most striking change in the proportions of the business of any of the companies occurred in the cigarette business of R. J. Reynolds Tobacco Co. which grew from nothing in 1910 to 25.6 percent of the total cigarette production in 1934. This company received no cigarette business under the decree of dissolution of the tobacco combination. It entered the cigarette business in 1913 and 1914 and introduced its Camel brand of cigarettes which has become immensely popular. The company, with its popular brand of Prince Albert smoking tobacco, increased its proportion of the total production of smoking tobacco from 2.6 percent in 1910 to 23.2 percent in 1934. It also substantially increased its proportion of the total production of chewing tobacco during this period.

The tabulation also shows that P. Lorillard Co.'s proportion of the total cigarette business decreased to one-fourth of its 1910 proportion and its smoking tobacco business decreased to less than one-half. On the other hand, its chewing tobacco business increased to more than three times its 1910 proportion. The falling off in this company's proportion of the total cigarette business was due primarily to the decrease in the demand for Turkish cigarettes following the World War in favor of blended cigarettes of predominantly domestic tobacco. This company's leading brands were of Turkish tobacco which was difficult to obtain during the war. Because of this difficulty, and the resulting increase in the price of such cigarettes, there was a tremendous increase in demand for blended cigarettes. Advantage of this situation was taken by the Reynolds Co. with its Camels, Liggett \& Myers with its Chesterfields and American Tobacco Co. with its Lucky Strikes, which were already on the market, whereas it was not until 1926 that the Lorillard Co. introduced its Old Golds.

Notwithstanding the shifts in the proportions of the various products manufactured by the individual companies, the only important change in the combined control of the production of any of the products by the four companies was in chewing tobacco, which fell from 84.2 percent in 1910 to 70.4 percent in 1934. The tabulation shows that in cigarettes their combined business amounted to 83.8 percent of the total production in 1910 and 84.2 percent of the total in 1934; in smoking tobacco the proportion was 76.1 percent of the total in 1910 and 74.1 percent of the total in 1934. There were fluctuations in the proportions from year to year, however, which are not reflected in the tabulation. The proportion of the cigarette business of the four companies, for example, was considerably higher before the rapid growth in this field in recent years of Brown \& Williamson Tobacco Co. and Axton-Fisher Tobacco Co. with their 10 -cent cigarettes and other popular brands.
However, with the tremendous growth in the consumption of cigarettes since the dissolution of the tobacco trust in 1911, these four companies have actively developed the cigarette phase of their businesses. They have been aided in the maintenance of their dominant positions in the tobacco industry by ownership of established brands and the financial resources at their command. The difficulty, uncertainty, and cost of popularizing new brands have been important deterrents to new competition.

As previously stated, over 98 percent of the United States production of snuff in 1934 was produced by American Snuff Co., George W. Helme Co., and the United States Tobacco Co. This high degree of concentration of this branch of the business represents a continuation of the almost complete control by the tobacco combination which was partitioned among these three companies pursuant to the dissolution decree in 1911. The continuation of this control has been materially aided by the same factors applying to the cigarette branch of the business. The current trend toward concentration of cigar manufacture and fewer
companies is due in part to the introduction of cigar-making machinery, to the gradual decrease in cigar consumption, and to the use of national and regional advertising promotion in the merchandising of this product.

In the Federal Trade Commission's report on Agricultural Income Inquiry, it is stated at pages 550 and 551:
"The inquiry has disclosed that four brands of cigarettes dominate the cigarette industry; that the manufacturers of those brands, with minor exceptions, maintain identical prices on them; and that the prices are almost simultaneously changed upward or downward with little regard to leaf tobacco or general commodity price levels. The history of the price changes on the four leading brands demonstrates the exercise of the power concentrated in the hands of the manufacturers of those brands. The sales volume of 10 -cent cigarettes indicates the existence of a popular demand for them. It is believed that competition within the cigarette industry would be increased by popular cigarettes selling in various price ranges and that new or more important competition in manufacturing would result in increased competition in the purchase of leaf tobacco. The unform internal revenue tax of $\$ 3$ per thousand on small cigarettes has tended to restrict the most active and substantial new competition that has manifested itself in the industry in many years. It is, therefore, recommended that Congress consider the advisability of levying a graduated tax on cigarettes in lieu of the present uniform tax. It is further recommended that the graduated scale be based upon the manufacturers' net selling prices."

## Investments and Profits for All Companies Combined

As explained in the preceding pages, the 13 manufacturers which are the subject of this report produced over 97 percent of the total United States production of cigarettes in the year 1934, over 89 percent of the smoking tobacco, more than 75 percent of the chewing tobacco, and over 98 percent of the snuff. In view of these large proportions, the operating results of the 13 companies are significant for the industry. Analysis of the financial information obtained from these companies shows that as a group their operations have been highly profitable over a long period of time.

Table 1, which follows, summarizes the investments, profits, and rates of return for the 13 companies as a group for the years 1917 to 1937, inclusive. Rates of return have been computed on three bases of investment; namely, the total investment, the stockholders' investment, and the common stockholders' equity, before deducting provisions for Federal income and profits taxes from earnings and after eliminating goodwill, appreciation, and other intangibles from investments.

The total investment includes the outstanding common and preferred stocks and long-term debt, surplus, surplus and contingency reserves, and reserves for Federal income and profits taxes. The stockholders' investment includes all of these elements except long-term debt. The common stockholders' equity is made up of the outstanding common stocks, surplus, surplus and contingency reserves, and reserves for Federal income and profits taxes. On each basis, the investinents were averaged as of the beginning and end of the year and they do not include goodwill, appreciation, and other intangibles.

The profits used in computing the rates of return shown in the table are before deductions for Federal income and profits taxes, since such taxes are wholly contingent upon profits and represent. a division of the earnings of the business. Subject to this qualification, the profits applicable to the total investment represent the net income from all sources before deducting interest on long-term debt. The profits applicable to the stocklolders' investment represent the net income after deducting interest on iong-term debt. The further deduction of dividends on preferred stocks gives the net income applicable to the common stockholders'; equity.
Table 1.-Summary of investments, profits, and rates of return on the total investment, stockholders' investments, and common stockholders'

| Year | Average investment ${ }^{1}$ |  |  |  | Net profit ${ }^{2}$ applica!)le to- |  |  | Rates of return on- |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of companies | Total investment | Stockbolders' investment | $\begin{aligned} & \text { Common } \\ & \text { stockholders' } \\ & \text { equity } \end{aligned}$ | Total investment | Stockholders' investment | equity <br> Common stockholders' | Total investment (percent) | Stockholders' investment ) (percent) | Common stockholders' equity (percent) |
| 1917. | 9 | \$232, 916, 992 | \$179, 804, 416 | \$73, 045, 716 | \$50, 686, 747 | \$47, 527, 842 | \$40, 702, 276 | 21. 76 | 26. 13 | 55.72 |
| 1918 | 10 | 305, 347, 964 | 226, 309, 272 | 112, 191, 072 | 72, 194, 509 | 68, 368, 597 | 60, 948, 381 | 23.64 | 30. 21 | 54.33 |
| 1919 | 11 | 375, 554, 615 | 263, 524, 024 | $145,140,747$ | 63, 353, 837 | 56, 697, 455 | 48, 991, 435 | 16.87 | 21. 52 | 33. 75 |
| 1920 | 12 | 421, 033, 130 | 306, 993, 424 | 178, 191, 616 | $68,100,945$ | $61,359,822$ | 52, 503, 963 | 16. 17 | 19.99 | 29. 46 |
| 1921 | 12 | 438, 868, 308 | 345, 527, 965 | 210, 539, 559 | 76, 980, 778 | 70, 988, 658 | 62, 072, 028 | 17.54 | 20.54 | 29. 48 |
| 1922 | 12 | 437, 669, 497 | 367, 838, 165 | 232, 453, 319 | 81, 562, 695 | 77, 257, 337 | $68,504,684$ $66,901,947$ | 18,64 17.23 | 21.00 19.09 | 29. 270 |
| 1923 | 12 | 458, 881, 304 | 397, 445, 848 | 261, 377, 912 | 79, 080, 589 | 75, 873, 614 | 66, 901, 947 | 17. 23 | 19.09 18.54 | 25.60 24.02 |
| 1924 | 12 | 491, 870, 190 | 431, 356, 539 | 295, 705, 923 | 83. 619,182 | 79, 962, 167 | 71, 015, 591 | 17.00 | 18. 54 | 24.02 |
| 1925 | 12 | 516, 927, 225 | 455, 874, 232 | 331, 147, 082 | 93, 769, 747 | 90, 016, 600 | 80, 934, 171 | 18. 14 | 19.75 | 24. 44 |
| 1926 | 12 | 546, 543, 432 | 482, 131, 778 | 367, 145. 028 | 99, 642, 455 | 95, 942, 110 | 87,641,590 | 18. 23 | 19.90 | 23. 87 |
| 1927. | 12 | 599, 648, 420 | 527, 166, 905 | 406, 558, 155 | 107, 097, 538 | 102, 237, 907 | 94, 598, 677 | 17.86 | 19.39 | 23.27 |
| 1928 | 13 | 1 644,931,252 | 566, 027, 966 | 436, 646, 416 | 105, 651, 551 | 101,044, 529 | 92, 921, 741 | 16.38 | 17.85 | 21. 28 |
| 1929 | 13 | 687, 574,885 | 604, 429, 343 | 475, 895, 843 | 119, 659, 802 | 113, 956, 471 | 105, 911, 665 | 17.41 | 18.85 | 22. 26 |
| 1930 | 13 | 747, 645, 637 | $661,409,422$ | 533, 787, 072 | 140, 339,990 | 135, 278, 577 | 127, 292, 982 | 18. 77 | 20.45 | 23. 85 |
| 1931 | 13 | 776, 051, 534 | 695, 765, 877 | 570, 693, 427 | 148, 030, 260 | 143, 082, 451 | 135, 348, 428 | 19.08 | 20.56 | 32. 72 |
| 1932 | 13 | 792, 727, 350 | 718, 730, 272 | 595, 890, 572 | 142, 190, 984 | 138, 460, 894 | 130, 816, 799 | 17. 94 | 19.27 | 21.99 |
| 1925. | 13 | 782, 612, 881 | 716, 66.5, 140 | 595, 704, 840 | 78, 810, 663 | 75, 927, 436 | $68,519,462$ | 10.07 | 10.59 | 11.50 |
| 1934 | 13 | 764, 109, 326 | 697, 760, 157 | 578, 870, 407 | 101, 806, 032 | 99, 152, 699 | 91, 665, 203 | 13.32 | 14. 21 | 15. 84 |
| 1935 | 13 | 756, 427, 031 | 683, 439, 433 | 565, 676, 983 | 101, 380, 831 | 97, 479, 592 | 87, 765, 174 | 13.40 | 14. 26 | 15.52 |
| 1936 | 13 | 740, 076, 374 | 669, 573, 207 | 552, 842, 157 | 115, 297, 984 | 111, 950, 913 | $104,453,172$ | 15. 58 | 16. 72 | 18. 89 |
| 1937. | 13 | 736, 643,988 | 665, 566, 917 | $549,449,567$ | 111, 394, 239 | $107,863,160$ | 100, 494, 182 | 15.12 | 16. 21 | 18. 29 |
| A verage |  | 598, 300, 772 | 514, 820, 237 | 390, 245, 374 | 98.358, 523 | 93, 808, 081 | 85, 476,644 | 16.44 | 18. 22 | 21.90 |

[^21]The table shows that during the 21-year period 1917-37, all companies as a group averaged 16.44 percent on the total investment, 18.22 percent on the stockholders' investment, and 21.9 percent on the common stockholders' equity. Consistently high rates of return were earned on each basis of investment during each year under review. The lowest returns in any year were earned in 1933 when 10.07 percent was earned on the total investment, 10.59 percent on the stockholders' investment, and 11.5 percent on the common stockholders' investment. It will be noted that exceptionally high rates of return were earned on each basis of investment in every other year, particularly during 1917 and 1918. While the returns for the last few years were not as high as those for the previous years, the trend has been upward.

## Good Will, Apfreciation, and Other. Intangibles

As previously explained, deductions were made for good will, appreciation, and other intangibles in computing rates of return on each basis of investment. The amount deducted from investments for such intangibles ranged from $\$ 154,349,900$ at the beginning of 1917 down to $\$ 66,055,602$ at the end of 1937 . The amounts deducted from investments in each of the years 1917-37 were as follows:

Year:

|  | Amount |
| :---: | :---: |
| 191 | \$154, 592, 860 |
| 1918 | 154, 636, 493 |
| 1919 | 155, 129, 407 |
| 1920 | 155, 227, 690 |
| 1921 | 157, 072, 039 |
| 1922 | 152, 757, 185 |
| 1923 | 152, 704, 943 |
| 1924 | 152, 708, 514 |
| 1925 | 152, 485, 526 |
| 1926 | 137, 545, 606 |
| 1927 | 136, 344, 487 |

Year--Continued. Amount
1928-.-.--------- $\$ 136,330,180$
1929_........-.-.-.-. $95,616,191$
1930...------------- $95,050,936$

1931-------------- $94,539,210$
1932--.-.-.-.-.-. $90,078,832$
1933-------------- 66, 106, 752
1934--------------- 66, 107,801

1936_--.-----.-.--- 66, 052, 861
1937--------------- 66, 055, 602

As indicated above, the companies have written off in recent years a substantial portion of the good will, appreciaiion, and other intangibles carried on their books. Most of the amounts shown above were carried on the books of the successor companies to the old American Tobacco Co. and originated many years ago. The distribution of the assets of the American Tobacco Co., under the dissolution decree, was based on their book values, both tangible and intangible. According to the report of the Commissioner of Corporations on the tobacco industry, over one-half of the amount for good will and other intangibles transferred to the successor companies represented appreciation and overvaluation, which occurred principally in connection with four specific transactions: (a) The organization of the American Tobacco Co. in 1890; (2) the acquisition of the Union Tobacco Co. by the American Tobacco Co. in 1899, (3) the organization of the Continental Tobacco Co. in 1898 and its acquisition of Liggett \& Myers Tobacco Co. in 1899; and (4) the merger of Consolidated Toabcco Co. and the American and Continental Tobacco Cos. in 1904.

Obviously such appreciation and overvaluation did not represent actual investment and should not be considered in computing rates of return. Also, the investment value of the good will, as represented by the purchase cost, should long since have been amortized. According to good accounting practice, the cash purchase cost of good will and other intangibles should be amortized as rapidly as possible to conform to the process of valuation employed in setting up the charges. If such a schedule of amortization had been followed, all of the good will would have long since been written off. For this reason the entire amount for good will, appreciation, and other intangibles shown above for each of the years 1917-37 was eliminated from the investments in computing rates of return.

On the average, nearly 90 percent of the amuunts shown in the preceding tabulation for the years 1917-25 and nearly all of the amounts thereafter represented goodwill, appreciation, and other intangibles on the books of the successor companies. The remainder of such amounts, applying to companies which had no connection with the old tobacco combination, for the most part did not appear to reflect actual investment. Also, in no case did any of the companies for which the amounts apply follow any plan for periodically amortizing such intangibles. The reductions in the amounts shown in the tabulation reflected lump-sum write-offs, occurring principally in 1926, 1929, and 1933, by some of the companies and indicates their recognition, even if belated, of the propriety of writing off intangibles as rapidly as possible.

The amounts shown in the tabulations do not include all of the goodwill and other intangibles carried on the books of all of the 13 companies covered by this inquiry. In those cases where such intangibles reflected actual investment as nearly as could be determined and where such investment was being amortized periodically, the unamortized portion was not deducted from investments in computing rates of return. However, such unamortized portions represented a relatively small part of the total for all companies in any year.

Appendix tables 1 to 13, which summarize the investments, profits, and rates of return for individual companies for the years 1917-37, show the amounts of goodwill, appreciation, and other intangibles deducted from the investments of each company in computing rates of return.

## COMPARISON OF AVERAGE ANNUAL INVESTMENTS, PROFITS, AND RATES OF RETURN FOR INDIVIDUAL COMPANIES, FUNCTIONALLY CLASSIFIED

In table 1 precedirig, the investments, profits, and rates of return for ail companies combined for which the information was available were presented for each of the years 1917 to 1937, inclusive, on the basis of the total investment, stockholders' investment, and common stockholders' equity. The table shows that the average of the annual profits during the 21 -year period for all companies combined was equivalent to 16.44 percent on the total investment, 18.22 percent on the stockholders' investment, and 21.9 percent on the common stockholders' equity.

Table 2, which follows, compares the average annual investments, profits, and rates of return during the period undcr review on each basis of investment for the individual companies, classified according to the principal products manufactured.
Table 2.-Comparison of average annual investments, profits, and rates of return for the period 191才-3^ for individual tobacco processors functionally classified

|  | A verage annual investments |  |  | A verage annual profits ${ }^{1}$ applicable to- |  |  | A verage annual rates of return 0n- |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\substack{\text { Total invest- } \\ \text { ment }}}{ }$ | Stockholders' investment | Common stock holders' equity | Total invest- ment | Stockholders' investment | equity <br> Common stockholders' equity | Total investment | Stockholders' investment | Common stock. holders equity |
| Manufacturers of cigarettes and other tobacco products: |  |  |  |  |  |  | Percent | Percent | Percent |
| The American Tobacco Co. | \$161, 893, 841 | \$152, 441, 580 | \$99,741, 880 | \$27,788, 342 | \$27, 303, 1891 | \$24, 141, 609 | 17.16 16.70 | 17.91 | 24. 20 |
| Liggett \& M Mers Tobacco Co R. J. Reynolds Tobacco Co. | $120,973,952$ $123,269,056$ | $90,609,983$ $121,755,389$ | $68,543,504$ $115,505,389$ | 20,197, $28,418,071$ | $18,401,900$ $28,300,613$ | $16,861,186$ $27,841,030$ | 16.70 <br> 23.05 | 20. <br> 23.27 | 24.60 24.10 |
| Total (Big Three) | 406, 136, 489 | 364, 806,952 | 283, 790, 773 | 76, 404, 175 | 74, 336,104 | 68, 843, 825 | 18.81 | 20.29 | 24.26 |
| P. Lorillard Co... | $60,404,420$ | 38, 881, 334 | 27,984, 525 | 6, 228, 727 | 4,922.910 | 4, 158, 627 | 10.31 | 16.66 | 14.86 |
| Axton-Fisher Tobacco Co. ${ }^{2}$ | 2, 812, 722 | 2, 812, 722 | 2, 086, 812 | 550,488 | 550,488 | 513,778 | 19.57 | 19.57 | 24.62 |
| Brown \& Williamson Tobacco Co. | 20,793, 535 | 7,429, 471 | 5, 237,979 | 1,801, 293 | 1,407, 729 | 1, 106, 729 | 8.66 |  | 21.13 |
| Total cigarette and tobacco manufacturer | 490, 147, 166 | 413, 930, 479 | 319, 100, 089 | 84, 984, 683 | 80, 917, 231 | 74, 622, 959 | 17. 34 | 19.55 | 23.39 |
| Cigar manufacturers: |  |  |  |  |  |  |  |  |  |
| General Cigar Co., Inc.-.....- | $23,789,583$ $14,504,406$ | $21,414,675$ | $15,077,901$ $10,624,093$ | $\begin{array}{r} 3,059,025 \\ 326,343 \end{array}$ | $2,909,649$ 60,354 | $2,457,410$ 60,354 | 12.86 2.25 | 13. 59 | 16.30 .57 |
| Consolidated Cigar Co.s.... | 17, 599, 849 | 16,737, 764 | 8.317,288 | 1,721,955 | 1, 662, 177 | 1,068,539 | 9.78 | 9.93 | 12.85 |
| Bayuk Cigars, Inc.. | 7, 496, 152 | 7,349, 655 | 4,692, 119 | 799,921 | 792, 074 | 604,087 | 10.67 | 10.78 | 12.87 |
| Total | 63, 389, 990 | 56, 126, 187 | 38, 711, 401 | 5, 907, 244 | 5, 424, 254 | 4, 190, 390 | 9.32 | 9.66 | 10.82 |
| Snuff manufacturers: <br> United States Tobacco Co | 20,671, 615 | 20,671, 615 | 16, 299, 348 | 3, 071,866 | 3, 071, 866 | 2, 771,498 | 14.86 | 14.86 | 17.00 |
| American Snuff Co | 11, 420, 737 | 11,420,737 | 7, 463, 317 | 2, 194, 544 | $2,194,544$ | 1,957, 376 | 19.22 | 19. 22 | 26. 23 |
| George W. Helme Co | 12. 671, 219 | 12. 671, 219 | 8,671, 219 | 2, 200, 186 | 2, 200, 186 | 1,934, 421 | 17.36 | 17.36 | 22. 31 |
| Total | 44, 763, 571 | 44,763. 571 | 32, 433, 884 | 7,466, 596 | 7,466,596 | 6, 663, 295 | 16.68 | 16.68 | 20.54 |
| Total all manufacturers | 598, 300, 727 | 514, 820, 237 | 390, 245, 374 | 98, 358, 523 | 93, 508, 08I | 85, 476, 644 | 1ii. 44 | 18.22 | 21.90 |

[^22]Table 2 shows that as a group the manufacturers of cigarettes and other tobacco products had the highest average annual rates of return during the period under review, followed closely by the snuff manufacturers. The operations of the cigar manufacturers were very much less profitable, their returns averaging only a little over half of those for the other two groups. Their average profits were equivalent to 9.32 percent of the total investment, 9.66 percent of the stockholder's investment, and 10.82 percent of the common stockholder's equity, as compared with 17.34 percent, 19.55 percent, and 23.39 percent of the respective investments of the manufacturers of cigarettes and other tobacco products, and 16.68 percent, 16.68 percent, and 20.54 percent, respectively, for the snuff manufacturers.

The showing for all companies as a group is influenced considerably by the preponderant investments and large profits of the three largest manufacturers. For example, on the basis of total investment, the combined investments of American Tobacco Co., Liggett \& Myers Tobacco Co., and R. J. Reynolds Tobacco Co. averaged nearly 70 percent of the investments of all companies combined and about 80 percent of the investments of the companies comprising the manufacturers of cigarettes and other tobacco products. The relative importance of the various groups of manufacturers from the standpoint of investment is shown as follows:

Ratios of total investment


It will be observed that there was comparatively little change in the relative proportions of the combined investments for each group during the two periods shown in the tabulation, the decline in the 1937 proportion for the cigar companies being offset by slight increases in the proportions for each of the other groups during that year. The tabnlation which follows presents a similar comparison for the individual companies within each group and shows the deviations of their relative proportions in 1937 from those based on the average of the annual investments throughout the entire period.

## Ratios of total investmont



The above tabulation shows that the combined investments for each group in 1937 exceeded the average of the annual investments for each group during the period 1917-37. This is indicative of the general growth of the companies throughout the period under review. For example, the combined investments of the three largest companies, which account for the greater portion of the total investments for all companies, increased over 200 percent, from $\$ 165,485,477$ in 1917 to $\$ 504,588,788$ in 1937 . The combined investments of these three companies increased steadily from 1917 to 1933 , reaching a maximum of $\$ 560,755,492$ in the latter year, then decreasing each year to $\$ 504,588,788$ in 1937 . The year-to-year changes for these and all of the other companies, together with a breakdown of the investments, appear in appendix tables 1 to 13 , which summarize the investments, profits, and rates of return for individual companies for the years 1917-37.

## Comparison of Rates of Return for Individual Companies, Functionally Classjfied

The preceding table 2 compared the average annual investiments, profits, and rates of return for the years 1917-37 for individual companies, functionally classified. Tables 3, 4, and 5, which follow, show for each company the rates of return for each year during this period on the basis of the total investment, the stockholders' investment, and the common stockholders' equity. As previously explained, the total investment includes all classes of outstanding stocks and long-term debt, surplus, surplus and contingency reserves, and reserves for Federal income and profits taxes. The stockholders' investment includes all these elements, except long-term debt. The common stockholders' equity consists of the common stocks, surplus, and the reserves referred to above.

Table 3, immediately following, compares the rates of return on total investment for each of the years 1917-37 for individual companies, functionally classified.

Table 3.-Percentage comparison of rates of return on total investment for individual companies, functionally classified, 1917-37

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturers of cigarettes and other tobacco products: |  |  |  |  |  |  |  |  |
| The American Tobacco Co.-.---------- | 17.61 | 22.91 | 15. 61 | 14.94 | 16.94 | 17.28 | 16. 07 | 17. 50 |
| Liggett \& Myers Tobacco Co | 20.85 | 22.71 | 12.95 | 15.86 | 17.28 | 16.81 | 15.99 | 17.71 |
| R. J. Reynolds Tobaice Co. | 33.17 | 28.10 | 21.03 | 15.38 | 24. 63 | 23.64 | 23.31 | 19.71 |
| Average (Big Three) | 21.99 | 24.12 | 16.33 | 14.78 | 19.45 | 19.32 | 18.65 | 18.37 |
| P. Lorillard Co. | 23.48 | 21.01 | 14.99 | 17.17 | 15.34 | 16. 08 | 12. 05 | 12.42 |
| Axton-Fisher Tobacco Co |  | 21.86 | 15. 58 | 12. 20 | 18.71 | 21.30 | 14. 32 | 13. 19 |
| Brown \& Williamson Tobacco C |  |  |  |  |  |  |  |  |
| Average for cigarette and tobacco manufacturers $\qquad$ | 22. 25 | 23.62 | 16. 14 | 15.12 | 18.84 | 18.82 | 17.63 | 17. 52 |
| Cigar manufacturers: |  |  |  |  |  |  |  |  |
| Porto Rican American Tobacco | 17.83 | 25.64 | 25.80 | 13.19 | 131.88 | 12.29 | 6.61 | 1.15 |
| Consolidated Cigar Co. |  |  | 13.07 | 25.48 | 3.01 | 13. 59 | 5. 48 | 12.20 |
| Bayuk Cigars, Inc. | 24.00 | 18.80 | 21.40 | 25. 56 | 23.89 | 37.85 | 21.02 | 15.63 |
| A verage | 18.48 | 24.80 | 22.58 | 22.18 | 2.13 | 14. 25 | 12.11 | 11.86 |
| Snufl manufacturers: |  |  |  |  |  |  |  |  |
| United States Tobacco Co | 16. 28 | 24.15 | 20.05 | 18. 25 | 17.93 | 16. 69 | 15.76 | 15.14 |
| American Snufi Co. | 22.77 | 28. 56 | 26.83 | 27.59 | 24. 74 | 28.69 | 23.65 | 20.39 |
| George W. Helme Co | 17.11 | 19.31 | 18. 51 | 20.52 | 19.48 | 21.45 | 20.60 | 20.89 |
| Average | 18.78 | 23.40 | 21.63 | 21.64 | 20.34 | 21.48 | 19.37 | 18. 27 |
| A verage for all manufacturers | 21.76 | 23.64 | 16.87 | 16.17 | 17. 54 | 18. 64 | 17.23 | 17.00 |

[^23]Table 3.-Percentage comparison of rates of return on total investment for individual companies, functionally classified, 1917-s7-Continued

|  | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufantures of cigarettes and other tobacco products: |  |  |  |  |  |  |  |
| The American Tobacco | 18.68 | 18.75 | 18. 46 | 18.87 | 19.65 | 23.79 | 24.44 |
| Liggett \& Myers Tobacco | 18. 23 | 19.07 | 18.78 | 17.94 | 19.58 | 19. 29 | 17.15 |
| R. J. Reynoids Tobacco Co | 22.17 | 23.71 | 24.07 | 22.24 | 26.82 | 28.88 | 29.07 |
| A verage (Big Three) | 19.78 | 20.63 | 20.51 | 19.76 | 21.91 | 23.92 | 23.55 |
| P. Loriliard Co | 13.26 | 10.31 | 6.77 | 5. 54 | 4.49 | 7.19 | 9.10 |
| Axton-Fisher Tobacco | 31.37 | 30.12 | 52.24 | 9.69 | 22.68 | 28.71 | 21.93 |
| Brown \& Williamson Tobacco Co |  |  |  | 133.58 | 56.67 | ${ }^{137.36}$ | ${ }^{12.48}$ |
| Average for cigarette and tobacco manufacturers. | 18.93 | 19. 21 | 18.68 | 17. 12 | 18. 39 | 20.73 | 21.34 |
| Cigar manufacturers: |  |  |  |  |  |  |  |
| Generai Cigar Co., Inc. | 13. 25 | 12.81 | 15.97 | 14.34 | 17.09 | 11.86 | 9.82 |
| Porto Rican American | 8.50 | 4.81 | 5. 93 | 5.02 | 7.13 | 6.71 | 3.07 |
| Consolidated Cigar Co | 15.37 | 13.57 | 13. 19 | 13.95 | 12.44 | 9.17 | 8.40 |
| Bayuk Cigars, Inc. | 10.41 | 13.81 | 15. 34 | 11.88 | 11.76 | 5.31 | 2.34 |
| A verage | 12.75 | 12.40 | 13.30 | 11.87 | 12.70 | 9.04 | 6.97 |
| Snuff manufacturers: |  |  |  |  |  |  |  |
| American Snuff Co | 14.45 | 14. 25 | 14.14 | 13.02 | 12.41 | 12.15 | 12.46 |
| George W. Helme Co | 19.76 | 19. 29 | 19.31 | 18.94 | 18. 58 | 17.61 | 15. 45 |
| Aversg | 16. 96 | 16. 69 | 17.17 | 16.80 | 15.63 | 14.67 | 14.37 |
| A verage for all manufacturers | 18. 14 | 18.23 | 17.86 | 16.38 | 17.41 | 18.77 | 19.08 |
|  | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Average |
| Manufacturers of cigarettes and other tobacco products: |  |  |  |  |  |  |  |
|  | 21.53 | 8.37 | 12. 21 | 12. 93 | 12.20 | 16. 35 | 17. 16 |
| Liggett \& M yers Tobacco C | 16. 84 | 12. 33 | 14.60 | 12. 25 | 17.62 | 15. 52 | 16. 70 |
| -R. J. Reynolds Tobacco Co | 26.11 | 12.41 | 17.67 | 20.74 | 25.02 | 23.87 | 23.05 |
| Average (Big Three) | 21.42 | 10.70 | 14.45 | 14.82 | 17.53 | 18.17 | 18.81 |
| P. Lorillarà Co | 8.69 | 5.36 | 7.17 | 7.61 | 8.47 | 6.13 | 10.31 |
| Axton-Fisher Tobacco Co | 39. 20 | 33.59 | 74.70 | 8.20 | 8.46 | 3.42 | 19.57 |
| Brown \& Williamson Tobacco | 24.42 | 14.88 | 16. 27 | 14.64 | 17.81 | 9.42 | 8.66 |
| Average for cigarette and tobacco manufacturers | 20.17 | 10.47 | 13.95 | 14.07 | 16.61 | 16. 29 | 17.34 |
| Cigar manufacturers: |  |  |  |  |  |  |  |
| General Cigar Co., Inc- | 7.91 | 3.04 | 10.36 | 9.69 | 8.51 | 7.97 | 12.86 |
| Porto Rican American | 1.41 | . 88 | . 60 | 2.07 | . 63 | 1. 63 | 2. 25 |
| Consolidated Cigar Co | 4.14 | 3.33 | 5.17 | 3.96 | 6. 39 | 7.15 | 9.78 |
| Brvuk Cigars, Inc. | ${ }^{1} 12.16$ | 7.18 | 10.90 | 12.27 | 12. 28 | 12. 27 | 10.67 |
| A verage | 2.90 | 3.05 | 6.57 | 6. 63 | 6.42 | 6.12 | 9.32 |
| Snuff manufacturers: |  |  |  |  |  |  |  |
| United States Tobacco Co | 14. 69 | 13.85 | 14.09 | 14.85 | 17.65 | 14.41 | 14.86 |
| A merican Snuff Co. | 16.30 | 17.16 | 16.30 | 13.35 | 13.18 | 12.35 | 19.22 |
| George W. Helme Co. | 14.15 | 14. 57 | 15. 03 | 14.15 | 14. 22 | 12.83 | 17.36 |
| Avcrage | 14.92 | 14.83 | 14.90 | 14.28 | 15. 59 | 13.46 | 16.68 |
| Average for all manufacturers | 17.94 | 10.07 | 13.32 | 13.40 | 15.58 | 15.12 | 16.44 |

## 1 Denotes loss:

Table 3 shows exceptionally high rates of return on the total investment for each year by the manufacturers of cigarettes and other tobacco products as a group, and by the snuff manufacturers as a group. The operations of the cigar companies as 8 group were less profitable throughout the period under review, although high rates of return were earned by some of these companies during certain years.

The returns for American Tobacco Co., Liggett \& Myers Tobacco Co., and R. J. Reynolds Tobacco Co., the three largest companies, as a group averaged 18.81 percent for the years 1917-37, and the returns for all manufacturers of cigarettes and other tobacco products averaged 17.34 percent during this period. For individual companies the highest average return was earned by R. J. Reynolds Tobacco Co. with 23.05 percent, followed by Axton-Fisher Tobacco, the smallest of any of the companies in the group, with 19.57 percent, American Tobacco Co. with 17.16 percent, Liggett \& Myers Tobacco Co. with 16.70 percent, P. Lorillard Co. with 10.31 percent, and Brown \& Williamson Tobacco Co. with 8.66 percent.

For the snuff manufacturers, the highest average rates of return were earned by American Snuff Co., followed by Geo. W. Helme Co. and United States Tobacco Co. The returns for these companies averaged 19.22 percent, 17.36 percent, and 14.86 percent, respectively, the average for the group being 16.68 percent.

For the cigar companies, the average returns in the order of size were 12.86 percent for General Cigar Co., Inc., 10.67 percent for Bayuk Cigars, Inc., 9.78 percent for Consolidated Cigar Co., and 2.25 percent for Porto Rican American Tobacco Co., the average for the group being 9.32 percent.

The average rate of return on total investment for all companies in all groups was 16.44 percent for the period. It will be noted that exceptionally high rates of return were earned in each of the years 1917-32 by all companies combined, the highest being 23.64 percent in 1918 and the lowest being 16.17 percent in 1920. In 1933, however, the average return dropped to a low of 10.07 percent as compared with 17.94 percent for the previous year, but increased thereafter to 15.58 percent in 1936 and fell off-slightly to 15.12 percent in 1937. However, as previously explained; these high returns were considerably influenced by the preponderent investments and large profits of the three largest manufacturers.

The stockholders' investment for all companies combined averaged about 86 percent of the total investment during the 21 -year period. However, the margin of capital represented by long-term debt produced earnings in excess of the interest cost thereof, so that the average of the annual returns on the stockholders' investment for all companies was generally higher than-were the returns on the total investment.

Table 4, which follows, compares the rates of return on the stockholders' investment for individual companies, functionally classified, for each of the vears 1917-37.

Table 4.-Percentage comparison of rates of return on stockholders' investment for individual companies, functionally classified, 1.917-37

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufactures of cigarettes and otber tobacco products: |  |  |  |  |  |  |  |  |
| The American Tobacco Co............... | 17.94 | 26.91 | 19. 16 | 17.56 | 19.32 | 18. 83 | 16.80 | 17.64 |
| Liggett \& Myers Tobacco | 47.41 | 50.82 | 25.13 | 25.47 | 26. 79 | 2373 | 21. 88 | 23.45 |
| R. J. Reynolds Tobacco Co | 33.17 | 28.10 | 22.70 | 17.20 | 26. 25 | 23.82 | 23.31 | 19.71 |
| Average (Big Three) | 25. 84 | 30.93 | 21.33 | 18. 68 | 23.24 | 21.67 | 20.31 | 18.58 |
| P. Lorillard Co | 49.49 | 35.08 | 21.99 | 25.02 | 21.00 | 21.89 | 15.47 | 16.14 |
| Axton-Fisher Tobacco |  | 21.96 | 15. 58 | 12.20 | 18.71 | 21.30 | 14.32 | 13. 19 |
| Average for cigarette and tobacco manufacturers | 28. 12 | 31.40 | 21.41 | 19.45 | 22.95 | 21. 69 | 19.74 | 19.21 |
| Cigar manufacturers: <br> General Cigar Co., Inc. <br> Porto Rican Amerlcan Tobacco Co <br> Consolidated Cigar Co. <br> Bayuk Clgars, Inc. $\qquad$ <br> A verage $\qquad$ | 17.83 | 25. 54 | 25. 89 | 24. 13 | 13.61 | 17.07 | 17.43 | 16.32 |
|  | 17.83 | 25. 54 | 25.89 | 13. 19 | 140.33 | 17.31 | 17.43 5.88 | 11.37 |
|  |  |  | 13.07 | 25. 75 | 2.93 | 13.77 | 5.46 | 12.35 |
|  | 24.00 | 18.89 | 21.40 | 25.83 | 24.12 | 38. 05 | 21.06 | 15.64 |
|  | 18.48 | 24.80 | 22.58 | 22. 26 | 1.78 | 14.72 | 13.44 | 13.03 |
| Snuff manufacturers: |  |  |  |  |  |  |  |  |
| A merican Snuff Co. | 22.77 | 26.54 | 26.83 | 27. 59 | 24.74 | 28.69 | 23.65 | 20.39 |
| George W. Helme Co | 17.11 | 19.31 | 18.51 | 20.52 | 19.48 | 21.45 | 20.60 | 20.89 |
| A verage | 18.78 | 23.40 | 21.63 | 21.64 | 20.34 | 21.48 | 19.37 | 18.27 |
| A verage for all manufacturers | 26.43 | 30.21 | 21.52 | 19.99 | 20.54 | 21.00 | 19.09 | 18. 54 |

[^24]Table 4.-Percentage comparison of rates of return on stockholders' investment for individual companies, functionally classified, 1917-37-Continued

|  | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturers of clgarettes and other tobacco products: |  |  |  |  |  |  |  |
|  | 18. 83 | 18. 89 | 18. 57 | 18.98 | 19. 52 | 23. 88 | 24.51 |
| Liggett \& Myers Tobacco Co | 22.92 | 23. 36 | 22. 62 | 21. 29 | 23.17 | 22.38 | 19.48 |
| R. J. Reynolds Tobacco Co. | 22.17 | 23.71 | 24.07 | 22. 24 | 26.82 | 28.88 | 29.07 |
| Average (Big Three) | 21.04 | 21. 78 | 21.66 | 20.80 | 22.94 | 25.04 | 24.56 |
| P. Lorillard Co. | 17.39 | 12.68 | 7.37 | 5. 24 | 3.31 | 8.06 | 10.28 |
| Axton-Fisher Tobacco | 31.37 | 30.12 | 52. 24 | 9.69 | 22.68 | 28. 71 | 21.93 |
| A verage for clgarette and tobacco manufacturers. $\qquad$ | 20.71 | 20.93 | 20.43 | 18.82 | 20.11 | 22. 89 | 23.25 |
| Cigar manufacturers: |  |  |  |  |  |  |  |
| General Cigar Co., Inc. | 15.69 | 14. 79 | 18. 54 | 16. 28 | 19.03 | 12.58 | 10. 19 |
| Porto Rican American Tobacco Co | 8.49 | 3.71 | 3.26 | 4.14 | 7.46 | 6.84 | 1. 74 |
| Consolidated Clgar Co. | 15.94 | 18. 25 | 13.56 | 14.07 | 12.54 | 9. 22 | 8.43 |
| Bayuk Cigars, Inc. | 10.76 | 14.23 | 15. 72 | 12.08 | 11.91 | 5.29 | 2.25 |
| A verage | 14.08 | 14.51 | 14.17 | 12.84 | 13.63 | 9.39 | 7.05 |
| Snuff manufacturers: |  |  |  |  |  |  |  |
| American Snuff Co. | 18. 04 | 18. 10 | 20. 56 | 21.95 | 19.03 | 16.92 | 17.26 |
| George W. Helme Co | 19.76 | 19.29 | 19.31 | 18.94 | 18.58 | 17.61 | 15.45 |
| A verag | 16.96 | 16.69 | 17.17 | 16.80 | 15.63 | 14.67 | 14.37 |
| A verage for all manufacturers | 19.75 | 19.90 | 19.39 | 17.85 | 18.85 | 20.45 | 20.56 |
|  | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Aver. age |
| Manufacturers of elgarettes and other tobacco products: |  |  |  |  |  |  |  |
|  | 21.58 | 8. 34 | 12. 23 | 13.43 | 13.43 | 18.00 | 17.91 |
| Liggett \& Meyers Tobacco | 18.91 | 13.44 | 15.99 | 13. 24 | 19.45 | 17.00 | 20.31 |
| R. J. Reynolds Tobacco Co. | 26.11 | 12.41 | 17.67 | 20.74 | 25.02 | 23.87 | 23.27 |
| A verage (Big Three) | 22.23 | 10.92 | 14.84 | 15.49 | 18.85 | 19.48 | 20.29 |
| P. Lorillard Co | 9. 54 | 5. 14 | 7.53 | 8.11 | 9. 20 | 6.18 | 16. 63 |
| Axton-Fisher Tobacco Co | 39.20 | 33.59 | 24.70 | 8.20 | 8.46 | 3.42 | 19.57 |
| Brown \& Williamson Tobacco Co |  |  | 169.74 | 24.91 | 20.86 | 10.97 | 18. 95 |
| A verage for clgarette and tobacco manufacturers. | 21.89 | 11. 10 | 15.02 | 15.14 | 18.06 | 17. 71 | 19.55 |
| Cigar manufacturers: |  |  |  |  |  |  |  |
| General Cigar Co., Inc. | 7. 79 | 3. 04 | 10.36 | 9.69 | 8.51 | 7.97 | 13.59 |
| Porto Rican American Tobacco Co | 1.44 | ${ }^{1} 113$ | 11.41 | . 78 | 1.86 | 12.25 | . 57 |
| Consolidated Cigar Co | 4. 11 | 3.26 | 5.12 | 3. 96 | 6.39 | 7.15 | 9. 93 |
| Bayuk Cigars, Inc. | 112.56 | 7.20 | 10.98 | 12.37 | 12. 29 | 12. 30 | 10.78 |
| Average | 2.51 | 2.80 | 6. 63 | 6. 68 | 6.45 | 6. 14 | 9.66 |
| Snuff manufacturers: |  |  |  |  |  |  |  |
| United States Tobacco Co | 14.69 | 13. 85 | 14.09 | 14.85 | 17.65 | 14.41 | 14.86 |
| American Snuff Co | 16. 30 | 17. 16 | 16. 30 | 13.35 | 13. 18 | 12.35 | 19.22 |
| George W. Helme Co. | 14.15 | 14.57 | 15. 03 | 14. 15 | 14.22 | 12.83 | 17.36 |
| A verage | 14.92 | 14.83 | 14.90 | 14.28 | 15. 59 | 13.46 | 16.68 |
| A verage for all manufacturers . | 19.27 | 10.59 | 14.21 | 14.26 | 16. 72 | 16. 21 | 18.22 |

## 1 Deficit.

Table 4 shows that the average rates of return on the stockholders' investment for the years 1917-37 were 19.55 percent for the manufacturers of cigarettes and other tobacco products as a group, 16.68 percent for the snuff manufacturers and 9.66 percent for the cigar manufacturers, the average for all groups being 18.22 percent. It will be noted that the average return for the three largest companies was the highest of any group, being 20.29 percent for the period. The returns for these companies were unusually high in every year during 1917-32, the highest being 30.93 percent in 1918 and the lowest 18.68 percent in 1920 . Earnings declined sharply in 1933 as comparet with previous years so that the average return for the three companies in that year fell to 10.92 percent as com-
pared with 22.23 percent for the year before. However, the rates of return increased in each subsequent year to 19.48 percent in 1937.

The investment of the common stockholders alone averaged about 65 percent of the total investment for all companies combined. However, that part of the total investment represented by preferred stock and long-term debt produced earnings in excess of dividend payments on the preferred and interest cost on the debt so that the average of the annual returns on the common stockholders' equity for all companies was generally higher than were the returns on the total investment. For example, throughout the years 1917-37, the returns for the three largest companies combined averaged 24.26 percent on the common stockholders' equity as compared with 18.81 percent on the total investment. Table 2, which has been presented and commented upon, compares the average of the annual returns for individual companies on each basis of investment, and table 3, when compared with table 5 , which follows, shows the differences on a yearly basis.

Rates of return on the common stockholders' equity for individual companics, functionally classified, are presented on the following table 5 for each year during the period 1917-37. This table shows that throughout this period all companies earned an average of 21.90 percent on the common stockholders' equity, and that the earnings of the respective groups were equivalent to 23.39 percent for the manufacturers of cigarettes and other tobacco products, 20.54 percent for the snuff manufacturers and 10.82 percent for the cigar manufacturers. As was the case for the other two bases of investment, the average return on this basis for the three largest companies combined was higher than that for any group, amounting to 24.26 percent for the period. During 1917-32, the average returns for these companies ranged from highs of 53.35 percent and 56.22 percent in 1917 and 1918 to 24.19 percent in 1928. In 1933 the average return was 11.66 percent as compared with 24.86 percent for the preceding year, but increased each year thereafter to 21.99 percent in 1937

Table 5.-Percentage comparison of rates of return on common stock equity for individual companies, functionally classified, 1917-97

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturers of cigarette and other tobacco products: |  |  |  |  |  |  |  |  |
| The American Tobacco Co. | 41. 10 | 59.01 | 36.49 | 30.33 | 31.77 | 30. 25 | 2532 | 25.85 |
| Liggett \& Myers Tobacco Co |  | 383. 89 | 94. 27 | 6268 | 49. 29 | 39.77 | 34. 18 | 33: 46 |
| R. J. Reynolds Tobreco Co. | 38.37 | 32.74 | 25.39 | 19.08 | 31.59 | 27.85 | 26.78 | 22.08 |
| Average (Big Three) | 53.35 | 56.22 | 33.56 | 27.50 | 34.02 | 30.39 | 27. 33 | 25. 29 |
| P. Lorilard $\mathrm{Co}^{\text {c }}$ | 215. 53 | 63.53 | 32.82 | 36.06 | 27.88 | 28.73 | 19. 23 | 20.38 |
| Axton-Fisher Tobacco Co |  | 21. 95 | 15.58 | 12. 20 | 18.71 | 27.83 | 18.46 | 16.69 |
| Brown \& Williamson Tobacco Co |  |  |  |  |  |  |  |  |
| average for cigarette and tobacco manulacturers. | 61.37 | 56.98. | 33.41 | 28.58 | 33. 16 | 30. 17 | 26.35 | 24.78 |
| Cigar manufacturers: <br> General Clear | 32.27 | 45. 51 | 48.92 | 45. 51 | 20.93 | 27.26 | 25. 46 |  |
| Porto Rican American T |  |  |  | 13. 19 | 140.33 | 17.31 | 5.88 | 11.37 |
| Consolidated Cigar Co. |  |  | 17.33 | 43.38 | 11.33 | 24.68 | 4.34 | 15.88 |
| Bryuk Cigars, Inc. | 24.00 | 18.89 | 21. 40 | 41.81 | 90.60 | 96.77 | 38.08 | 24.43 |
| Average | 30.47 | 40.06 | 37. 26 | 32. 92 | 12.48 | 21.64. | 17.81 | 16.62 |
| Snuff manutacturers: |  |  |  |  |  |  |  |  |
| United States Tobacco Co | 31. 28 | 42. 58 | 29. 93 | 25. 21 | 24.28 | 22. 15 | 20.40 | 18.95 |
| American Snuff Co | 40.57 | 46.39 | 45.43 | 45.49 | 39. 21 | 44. 65 | 34. 97 | 29.21 |
| George W. Heime Co | 29.72 | 32. 34 | 28.87 | 31. 16 | 27.92 | 29.91 | 27.71 | 27.56 |
| Average | 34. 30 | 40.69 | 34.17 | 32.50 | 29.36 | 30.47 | 26.42 | 24. 15 |
| A verage for all manul | 55. 72 | 54.33 | 33.75 | 29.46 | 29.48 | 29.47 | 25. 60 | 24.02 |
|  |  | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 |
| Manufacturers of clgarette and other tobacco products: |  |  |  |  |  |  |  |  |
| The American Tobacco Co. |  | 27. 53 | 27. 22 | 28.18 | 28.34 | 25.51 | 30. 17 | 30. 58 |
| Liggett \& Myers Tobacco Co |  | 29.63 | 28.99 | 27.42 | 25.34 | 27.43 | 25.85 | 21.96 |
| R. J. Reynoids Tobacco Co. |  | 22.86 | 23.71 | 21.07 | 22. 24 | 26.82 | 28.88 | 29. 07 |
| Average (Big Three) |  | 25. 76 | 26.00 | 25. 49 | 24. 19 | 26. 53 | 28.61 | 27:76 |

Table 5.-Percentage comparison of rates of return on common stock equity for individual companies, functionally classified, 1917-97-Continued

|  | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturers of cigarette and other tobacco pro-ducts-Continued. <br> $P$. Lorillard Co. <br> Axton-Fisher Tobacco Co <br> Brown \& Willamson Tobsceo Co <br> Average for cigarette and tobacco manufacturers. | 22.12 | 15. 13 32.39 | 71.89 | 4. 13, 139 | 2.04 | 8.37 41.09 | 11.15 28.63 |
|  | 25.47 | 25.07 | 24. 13 | 22. 14 | 23.50 | 26.48 | 26.64 |
| Cigar manufacturers: General Cigar Co., Inc. Porto Rican American To Consolidated Cigar Co. Bayuk Cigars, Inc. | $\begin{array}{r} 21.00 \\ 8.49 \\ 18.14 \\ 13.92 \end{array}$ | 19.24 3.71 15.10 20.97 | 23. 3. 3 26 19.32 24. 70 | 19.04 4.14 21.46 1.888 | 21.97 7.46 18.03 14.55 | 13.73 6.84 11.51 4.47 | 10.83 1.74 9.93 .01 |
| A verage | 17.01 | 15. 55 | 18.09 | 15.82 | 16.45 | 10.33 | 7.15 |
| Snuff manufacturers: United States Tobácco Co American Snuff Co George W. Helme Co. $\qquad$ | $\begin{aligned} & 17.57 \\ & 25.21 \\ & 25.64 \end{aligned}$ | 16.98 <br> 25.13 <br> 24.69 | 16.54 28.62 24.46 | $\begin{aligned} & 14.82 \\ & 30.02 \\ & 23.71 \end{aligned}$ | 13.88 <br> 25.18 <br> 23.10 <br> 18.68 | 13.41 <br> 21.92 <br> 21.65 <br> 17.24 | 13.81 <br> 22.34 <br> 18.50 |
| A verage | 21.80 | 21.09 | 21.43 | 20. 54 | 18.68 | 17.24 | 16.71 |
| A verage for all manutacturers | 24. 44 | 23.87 | 23.27 | 21. 28 | 22. 26 | 23.85 | 23. 72 |
|  | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | $\begin{aligned} & \text { Aver- } \\ & \text { age } \end{aligned}$ |
| Manufacturers of cigarette and other tobacco products: |  |  |  |  |  |  |  |
| The American Tobacco Co | 26. 25 | 9.02 | 14.14 | 16. 06 | 16. 62 | 23.31 | 24. 20 |
| Liggett \& M yers Tobacco C | 21.15 | 14. 59 | 17.55 | 14. 32 | 21.52 | 18. 65 | 24. 60 |
| R. J. Reynolds Tobacco Co | 26.11 | 12.41 | 17.67 | 20. 74 | 25.02 | 23.87 | 24.10 |
| Average (Big Tbree) | 24.86 | 11.66 | 16. 27 | 17.13 | 21.23 | 21. 99 | 24. 26 |
| P . Lorillard Co | 10.31 | 4.77 | 7. 69 | 8.43 | 9.84 | 5. 49 | 14.86 |
| Axton-Fisher Tobacco Co | 54.65 | 45. 28 | 30.61 | 8. 77 | 9.08 | 4.30 | 24. 62 |
| Brown \& Williamson Tobacco |  |  |  | 15.24 | 22.70 | 11. 54 | 21. 13 |
| Average for cigarette and tobacco manufacturers | 24.84 | 12. 02 | 16. 67 | 16. 34 | 20.33 | 19.94 | 23.39 |
| Cigar manufacturers: |  |  |  |  |  |  |  |
| General Cigar Co., Inc | 7.94 | 2. 21 | 10. 32 | 10. 36 | 8.89 | 8. 22 | 16. 30 |
| Porto Rican American Tobacco C | 1. 44 | 11.13 | ${ }^{1} 1.41$ | . 78 | 1.86 | 12.25 | . 57 |
| Consolidated Cigar Co | 1.08 | 13.73 | 2. 16 | 11. 30 | 6. 00 | 8. 15 | 12.85 |
| Bayuk Cigars, Inc. | 21.92 | 7.35 | 12.56 | 14. 20 | 13.95 | 13.71 | 12.87 |
| A verage | . 95 | 1.29 | 6. 22 | 6. 65 | 6. 35 | 5.93 | 10.02 |
| Snufi manufacturers: |  |  |  |  |  |  |  |
| United States Tobacco Co | 15. 48 | 14. 56 | 14.90 | 15. 66 | 18. 63 | 15. 09. | 17.00 |
| ${ }_{\text {American }}$ George Whff Co Helme Co. |  | 21.69 18.03 | 20. 23 18.57 | 16.09 17.06 | 15. 77 17.16 | 14.59 15.31 | 26. 231 |
| A verage | 16.83 | 16.90 | 16.97 | 16. 09 | 17.62 | 15.03 | 20.54 |
| A verage for all manufacturers | 21.99 | 11.50 | 15. 84 | 15. 52 | 18.89 | 18.29 | 21. 90 |

## ${ }^{1}$ Denotes loss.

## Comparison of Sales and Operating Results

Further indication of the relative importance and profitableness of the various companies is presented below from the standpoint of sales and operating results.

Table 6, immediately following, summarizes the net sales, net income, dividend payments, and net increase in surplus for each of the 13 companies. The upper part of the table gives the total for each item for all years for which the information was available during the period 1917-37. The lower part of the table gives for each company the annual averages of the net sales, net income, dividend payments, and net income remaining after the payment of dividends.

The information in table 6, including the information on which the succeeding tables of operating ratios are based, appears in greater detail for each company in appendix tables 1 to 13 and $1 a$ to $13 a$, which summarize for each company the details of investments and costs and profits for each year during the period 1917-37.

|  | Years | Net sales | Net income | Dividends paid on- |  |  |  | Net income after dividends | Other net deductions | Net increase in surplus |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Preferred stock in cash | Common stack in cash | Common stack in stock | Totai |  |  |  |
| Manufacturers of cigarettes and other tobacco products: |  |  |  |  |  |  |  |  |  |  |
|  | 1917-37.- | \$4, 010, 995, 492 | \$505, 150, 172 | \$66, 401, 622 | \$345, 239, 184 | \$62, 757, 136 | \$474, 397, 942 | \$30, 752, 230 | 87, 809, 627 | \$22, 942, 603 |
| Liggett \& M yers Tobacco Co | 1917-37.- | 3, 985, 392, 987 | 333, 837, 184 | 32, 355, 024 | 217, 711, 038 | 11, 342, 750 | 261, 408, 812 | 72, 428, 372 | 1 43,263, 137 | 29, 165, 235 |
| R. J. Reynolds Tobacco Co | 1917-37- | 4, 735, 995, 263 | 500, 521, 996 | 10,281, 250 | 384, 350,000 | $80,000,000$ | 474, 631, 250 | 25, 890,746 | 1,787,453 | 24, 103, 293 |
| P. Lorillard Co..... | 1917-37.- | 1, 496, 946, 247 | 88, 821, 144 | 16, 049, 943 | 49,579,730 | 4,999, 348 | 70,629,621 | 18, 191, 523 | 10, 147, 666 | 8, 043,857 |
| Brown \& Williamson Tobaceo Axton-Fisher Tobscco Co | 1923-37.- | 484, 171, 335 | 10, 166, 720 | 3, 010,000 | ${ }^{2} 11,720,000$ |  | 14, 730, 000 | 3 4, 563, 280 | - 22,970,000 | 18, 406, 720 |
| Cigar manufacturers: |  |  |  |  |  |  |  |  |  |  |
| General Cigar Co., Inc | 1917-37.- | 699, 959, 347 | 52, 334, 713 | 9,497, 030 | 33, 424, 255 |  | 42, 921,285 | 9,413, 428 | 382, 585 | 9, 030, 843 |
| Consolidated Cigar | 1919-37.- | 321, 015, 895 | 27,922, 164 | 11, 279,136 | 9, 061,839 | 540,000 | 20, 880, 975 | 7,041, 189 | 4, 360, 012 | 2, 861, 177 |
| Bayuk Cigars, Inc | 1917-37-- | 229, 903, 074 | 13, 921, 284 | 3, 947,732 | 2,445, 439 | 358, 348 | 6, 751, 519 | 7, 169,765 | 2, 161,567 | 5, 008, 198. |
| Snuff manufacturers: |  |  |  |  |  |  |  |  |  |  |
| United States Tobacco Co | 1917-37-- | 303, 002, 835 | 54, 492, 673 | 6,307, 731 | 35, 954,720 | 9, 239,620 | 51, 502, 071 | 2,990,602 | '1,653,732 | 4, 645, 334 |
| American Snufi Co...... | 1917-37- | 168, 885, 836 | 39, 207, 759 | 4, 980, 528 | 28, 820,000 |  | 33, 800, 528 | 5, 407, 231 | 31,201,602 | 6, 608, 833 |
| George W. Heime Co | 1917-37.- | 150, 699, 280 | 39, 338, 597 | 5, 581,081 | 29, 183, 715 | 2,000,000 | 36, 764, 796 | 2, 573, 801 | ${ }^{8} 397,853$ | 2, 971, 654 |
| Manufacturers of cigarettes and other tobacco products: |  |  |  |  |  |  |  |  |  |  |
| The American Tobacco C | ${ }^{(8)}$ | 190, 999, 785 | 24, 054, 770 | 3, 161,982 | 16, 439,961 | 2, 988, 435 | 22, 590, 378 | 1, 464, 391 |  |  |
| Liggett \& M yers Tobacco | ${ }^{(8)}$ | 189, 780, 618 | 15, 897, 008 | 1,540, 715 | 10, 367, 192 | 540, 131 | 12,448, 038 | 3, 448, 970 |  |  |
| R. J. Reynolds Tobacco | ${ }^{(6)}$ | 225, 523, 584 | 23, 834, 380 | 489,583 | 18, 302, 381 | 3, 809,523 | 22,601, 488 | 1, 232, 892 |  |  |
| P. Lown \& Williard Co........-. | ${ }^{(6)}$ | 71, 283, 154 | 4,229, 578 | 764, 283 | 2, 360, 939 | 238, 092 | 3, 363, 310 | 866, 263 |  |  |
| Brown \& Williamson Tobac Axton-Fisher Tobacco Co.. | (8) | $48,417,133$ $8,586,618$ | 1,016,672 | 301,000 36,709 | $1,172,000$ 144,258 |  | $\begin{array}{r}1,473,000 \\ \hline 250,942\end{array}$ | $\begin{array}{r}3 \\ 4 \\ \text { 227, } \\ \\ \hline\end{array}$ |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| General Cigar Co., Inc | ${ }^{(6)}$ | 33, 331,397 | 2, 492, 128 | 452, 239 | 1,591,631 |  | 2, 043, 870 | 448, 258 |  |  |
| Consolldated Ciga | ${ }^{(6)}$ | 16, 895, 573 | 1,469, 587 | 593, 638 | 476, 938 | 28,421 | 1, 098, 998 | 370, 588 |  |  |
| Bayuk Cigars, Inc-... | ${ }^{(8)}$ | 10,947, 765 | 662,918 52,836 | 187,987 | 116, 449 | 17,064 | 321,500 | 341,417 |  |  |
| Snuff manufacturers: |  |  |  |  |  |  |  |  |  |  |
| United States Tobacco Co |  | 14, 471, 563 | 2, 594, 889 | 300, 368 | 1,712, 129 | 439, 981 | 2, 452, 479 | 142, 409 |  |  |
| ${ }_{\text {A }}$ American Snufi Co. | ${ }^{(8)}$ | 8, 042, 182 | 1,867,036 | 237, 168 | 1, 372, 381 |  | 1, 609, 549 | 257, 487 |  |  |
| George W. Helme | ${ }^{(6)}$ | 7, 176, 156 | 1,873, 266 | 265, 765 | 1,389, 700 | 95, 238 | 1,750, 704 | 122, 562 |  |  |

Inciudes $\$ 40,764,710$ for goodwill and other intangibies writuen off.
Inciudes $\$ 6,000,0$
Denotes deficit.
Net addition.

- Ant additions.

Table 6 shows that American Tobacco Co., Liggett \& Myers Tobacco Co., and R. J. Reynolds Tobacco Co. were also the largest, from the standpoint of sales. During the 21 years, 1917-37, the sales of the Reynolds Co. were largest, amounting to nearly $43 / 4$ billion dollars, followed by American Tobacco Co. with a little over 4 billion dollars, and Liggett \& Myers with nearly 4 billion dollars of sales. It will be noted that in the order of profits, American Tobacco Co. was first with a little over one-half billion dollars, followed closely by the Reynolds Co. with almost the same amount and Liggett \& Myers with one-third of a billion. These profits represent the net income after providing for all of the costs of doing business, including provisions for Federal income and profits taxes.

American Tobacco Co. and R. J. Reynolds Tobacco Co. each paid out about the same amount in dividends during the period. American Tobacco Co. paid out a total of $\$ 474,397,942$ as compared with $\$ 474,631,250$ for the R. J. Reynolds Co. The total for Liggett \& Myers was $\$ 261,408,812$. After taking into account other charges to surplus, the net increase in surplus during the period was $\$ 22,942,603$ for American Tobacco Co., $\$ 29,165,235$ for Liggett \& Myers Tobacco Co., and $\$ 24,103,293$ for R. J. Reynolds Tobacco Co. These net increases, together with the amounts for dividends paid in common stock on common stock, reflect earnings retained in the business by each company in the amount of $\$ 85,699,739$ for American Tobacco Co., $\$ 40,507,985$ for Liggett \& Myers Tobacco Co., and $\$ 104,103,293$ for R. J. Reynolds Tobacco Co. The comparatively smaller arnount for Liggett \& Myers is accounted for by the fact that the company reduced the value at which it had been carrying goodwill and other intangibles on its balance sheet to $\$ 1$ by charges to surplus of $\$ 40,709,710$ in 1929 and $\$ 55,000$ in 1935.

The reinvested earnings contributed importantly to the growth of each of the three companies. During the period under review they amounted to nearly 80 percent of the net increase in capitalization of American Tobacco Co. and about 90 percent of the net increase for R. J. Reynolds Tobacco Co. For Liggett \& Myers Tobacco Co. they amounted to nearly half the net increase before any adjustments for goodwill, appreciation, and other intangibles prior to the time they were written off by the company as explained above. Further details concerning invested capital, including earnings, for these and all other companies under review appear in appendix tables 1 to 13 and 1a to $13 a$.

Throughout the period under review, the annual sales of the three largest companies averaged 73 percent of the sales for all companies and 88 percent of the combined sales of the manufacturers of cigarettes and other tobacco products. The relative importance of the various groups of manufacturers from the standpoint of sales is shown by the following tabulation which compares the sales for each group in 1937 with the average of the annual sales for the years 1917 to 1937

## Ratios of sales

|  | $\begin{array}{\|c} \text { Annual arerage } \\ 1917-37 \end{array}$ | Total 1937 |
| :---: | :---: | :---: |
| Manufacturers of cigarettes and other tobacco products: Big Three. | Percent $\begin{aligned} & 72.97 \\ & 15.44 \end{aligned}$ | Percent <br> 73. 93 |
|  |  |  |
| Cigar manuacturers | 88. 41 | ${ }^{92} 4.30$ |
| Snutif manulaciurers.- | ${ }_{3}^{8.02}$ | 4.74 2.96 |
| $\begin{aligned} & \text { Total } \\ & \text { Combined salcs } \end{aligned}$ | $\begin{array}{r} 100.00 \\ \$ 830,883,994 \end{array}$ | $\begin{array}{r} 100.00 \\ \$ 1,063,327,917 \end{array}$ |

It will be noted that there was comparatively little change in the relative proportions of the combined sales of the three largest companies in the two periods shown in the tabulation, but the 1937 proportion of the combined sales of the three smaller manufacturers of cigarettes and other tobacco products was somewhat higher than their proportion based on the average oi the annual sales throughout the period. The sales of all manufacturers of cigarettes and other tobacco products amounted to 92.3 percent of the total sales of all companies during the year 1937 as compared with 88.41 percent of the average of the annual sales for all of the companies throughout the years 1917-37. On the other hand the sales for each of the groups of cigar and snuff manufacturers were proportionately smaller in 1937 than for the entire period. The tabulation which follows presents a similar comparison for the individual companies within each group and shows the deviations of their relative proportions in 1937 from those based on the average of the annual sales throughout the period 1917-37.

Ratios of sales

|  | Annual average 1917-37 | Total 1937 |
| :---: | :---: | :---: |
| Manufacturers of cigarettes and other tobacco products: | Percent | Percent ${ }^{4.72}$ |
| American Tobacco Co---- | 26.00 | 24.72 |
| Liggett \& Myers Tobacco Co | 25.84 | 24.50 |
| R. J. Reynolds Tobacco Co.. |  | 30.88 |
| Total (BIg Three) | 82. 54 | 80.10 |
| P. Lorillard Co..... | 9.70 | 7.74 |
| Brown \& Williamson Tobacco Co | 16.59 | 10.20 |
| Axton-Fisher Tobacco Co.... | 21.17 | 1.96 |
| Total. | 100.00 | 100.00 |
| Combined sales | \$734, 590, 892 | \$981, 506, 371 |
| Cigar manufacturers: | Percent | Percent |
| General Cigar Co., Inc | 50.04 | 43.10 |
| Consolidsted Cigar Co | 225.37 | 21.83 |
| Bayuk Clgars, Inc......-....-.-.-. | 16.44 | 32. 48 |
| Porto Rlcan American Tobacco Co. | 18.15 | 2. 59 |
| Total | 100.00 | 100.00 |
| Combined sales. | \$66, 603, 201 | \$50, 390, 958 |
| Snuff manufacturers: | Percent | Percent |
| United States Tobacco Co. | 48.74 | 57.21 |
| Americsn Snufi Co. | 27.09 | 24.03 |
| George W. Helme Co. | 24.17 | 18.76 |
| Total. | 100.00 | 100.00 |
| Comblned sales. | \$29, 689, 901 | \$31, 421, 588 |

[^25]The average of the annual sales of the three largest companies amounted to $\$ 606,303,987$, which was equivalent to $821 / 2$ percent of the average for all manufacturers of cigarettes and other tobacco products and about 73 percent of the average for all companies covered in the inquiry. The annual'sales of the three companies averaged $\$ 225,523,584$ for R. J. Reynolds Tobacco Co., $\$ 190,999,785$ for American Tobacco Co., and $\$ 189,780,618$ for Liggett \& Myers Tobacco Co. The following comparison gives the sales for these companies for each of the years 1917-37 and indicates the trends throughout the period. Such information for all manufacturers appears in appendix tables 1a to 13 a .

Net sales.

| Year | R. J. Reynolds Tobacco Co. | American Tobacco Co. | Liggett \& Myers Tobacco Co. |
| :---: | :---: | :---: | :---: |
| 1917 | \$83, 537, 850 | \$83, 636, 850 | \$82, 897, 952 |
| 1918 | 128, 496, 211 | 137, 854, 588 | 123, 698, 335 |
| 1919. | 188, 115, 324 | 141, 639, 435 | 134, 697, 886 |
| 1920 | 195, 312, 210 | 138, 530, 584 | 151, 503, 211 |
| 1921 | 187, 730, 156 | 151, 103, 825 | 152, 072, 155 |
| 1922. | 190, 658, 527 | 138,961, 567 | 145, 051, 719 |
| 1923. | 233, 516, 345 | 134, 292, 159 | 156, 100, 000 |
| 1224 | 238, 745, 043 | 149, 208, 903 | 180, 475, 851 |
| 1925 | 255, 986, 334 | 152, 088, 201 | 203, 113, 016 |
| 1926 | 279, 815, 715 | 149, 446, 876 | 227, 703, 529 |
| 1927 | 281, 623, 053 | 166, 068, 673 | 235, 722, 589 |
| 1928 | 262, 257, 472 | 202, 293, 220 | 216, 188, 517 |
| 1929 | 265, 909, 101 | 246, 688, 380 | 232, 936, 301 |
| 1930 | 266, 591, 068 | 288, 167, 322 | 226, 558, 711 |
| 1931. | 258, 077, 426 | 300, 962, 646 | 206, 741, 789 |
| 1932 | 192, 714, 619 | 278, 215, 273 | 190, 726,536 |
| 1333. | 166, 344, 014 | 230, 317, 190 | 197, 953, 018 |
| 1934 | 217, 616, 507 | 225, 646, 543 | 226, 123, 458 |
| 1935 | 250, 635, 962 | 220, 264, 060 | 219, 732, 636 |
| 1936. | 289, 313, 165 | 232,964, 682 | 234, 892, 347 |
| 1937 | 302, 999, 161 | 242, 644, 515 | 240, 503, 431 |
| Annual average | 225, 523, 584 | 190,999,785 | 189,780, 618 |

The comparative profits of these three companies and of others in relation to investment have been indicated. The relation of profits to sales is indicated in tables 7 and 8 which follow. These tables compare ratios of costs, expenses and profits to net sales, expressed in cents per dollar of net sales, for individual companies, functionally classified. Table 7 presents such information on the basis of total sales for each company during the years 1917-37, and table 8 presents the information on the basis of operations during the year 1937. These ratios have been computed from information contained in appendix tables 1a to $13 a$ which give the details of income and expenses for each company for each year during 1917-37.

Table 7.-Comparison of ratios of costs, expenses, and profits to net sales for the years 1917-97, expressed in cents per dollar of net sales, for individual companies functionally classified


[^26]Table 8.-Comparison of ratios of costs, expenses, and profits to net sales for the year 1937, expressed in cents per dollar of net sales, for individual companies functionally classified

| Company | Total net sales | Operating costs and expenses | Net profit on sales | Other income net | Total income before interest and Federal taxes | Interest on long. term debts | Provision for Federal income and profits taxes | $\begin{gathered} \text { Net } \\ \text { income } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturers of clearettes and other tobacco products: <br> The American Tobacco Co. <br> Llggett \& Myers Tobacco Co <br> R. J. Reynolds To- <br> bacco Co....... |  |  |  |  |  |  |  |  |
|  | Amount \$242, 644, 515 | $\begin{gathered} \text { Cents } \\ 88.06 \end{gathered}$ | $\begin{gathered} \text { Cents } \\ 11.94 \end{gathered}$ | $\begin{array}{r} \text { Cents } \\ 1.11 \end{array}$ | $\begin{gathered} \text { Cents } \\ 13.05 \end{gathered}$ | $\begin{gathered} \text { Cents } \\ 0.30 \end{gathered}$ | Cents 1.77 | $\begin{aligned} & \text { Cents } \\ & 10.98 \end{aligned}$ |
|  | 240, 503. 431 | 89.77 | 10.23 | . 76 | 10.99 | . 55 | 1.55 | 8.89 |
|  | 302, 999, 161 | 88.85 | 11.15 | 1. 06 | 11.09 |  | 1.78 | 9.31 |
| Total (Big Three) | 786, 147, 107 | 88.89 | 11.11 | . 55 | 11. 66 | 26 | 1.70 | 9. 70 |
| P. Lorillard Co...- | 75, 982, 586 | 95.83 | 4.17 | 7 | 4.44 | 93 | 50 | 3.01 |
| son Tobacco Co.. | 100, 141, 863 | 95.34 | 4. 66 | 1.59 | 4.07 | . 54 | . 64 | 2.89 |
| Axton-Fisher To- | 19, 254, 815 | 98.84 | 1.16 | . 09 | 1.25 |  | . 01 | 1.24 |
| Total cigarette and tobacco manufacturers | 981, 506, 371 | 90.28 | 9.72 | . 40 | 10.12 | . 34 | 1.47 | 8.31 |
| Cigar manufacturers: |  |  |  |  |  |  |  |  |
| Inc. | 21, 723, 667 | 91.35 | 8.65 | . 34 | 8.99 |  | 1.29 | 7.70 |
| Consolidated Clgar |  |  |  |  |  |  |  |  |
| Co-----.---..- | 11,001, 394 | 87.75 | 12.25 | 12.15 | 10.10 |  | 1.99 | 8.11 |
| Bayuk Clgars, Inc- | 16, 372, 273 | 93.35 | 6. 65 | 1.00 | 7.65 |  | 1.63 | 6.02 |
| ican Tobacco Co. | 1, 302, 624 | 114.34 | ${ }^{1} 14.34$ | 5. 40 | 18.94 | 16.53 |  | ${ }^{1} 25.47$ |
| Total | 50, 399, 958 | 91.81 | 8.19 | . 15 | 8.34 | . 43 | 1.52 | 6.39 |
| Snuff manufacturers: |  |  |  |  |  |  |  |  |
| United States Tobacco Co | 17, 976, 214 | 80. 80 | 19.40 | 2.90 | 22.30 |  | 3.04 | 19. 26 |
| AmericanSnuff Co. | 7, 550, 634 | 82.80 | 17.20 | 7.55 | 24.75 |  | 17.20 | 7.55 |
| George W. Helme Co. | 5, 894, 740 | 74.29 | 25. 71 | 7.20 | 32.91 |  | 4.44 | 28.47 |
| Total | 31, 421, 588 | 79.85 | 20.05 | 4.83 | 24.88 |  | 3.39 | 21.49 |

${ }^{1}$ Denotes loss.
Tables 7 and 8 show that the ratios of costs, expenses, and profits to net sales were substantially the same in 1937 as for the entire period 1917-37. The significant ratios, expressed in cents per dollar of net sales, for the various groups for each period are summarized as follows.

## Ratios to sales

|  | Operating costs and expenses | Proflts applicable to total investment | Net income? |
| :---: | :---: | :---: | :---: |
|  | A verage, 1917-37 |  |  |
| Manufacturers of cigarettes and other tobacco products: | Cents | Cents | Cents |
|  | 88.17 | 12.60 | 10.52 |
| All companies ${ }^{2}$ - | 88.87 | 11.85 | 9.73 |
| Cigar manufacturers | 91.04 | 8.87 | 7. 05 |
| Snuff manufacturers ${ }^{\text {b }}$ | 79. 10 | 25. 15 | 21. 34 |
|  | Year 1937 |  |  |
| Manufacturers of cigarettes and other tobacco products: |  |  |  |
| Big Three.- | 88.89 | 11. 66 | 9. 70 |
| All companies ${ }^{3}$ | 90.28 | 10.12 | 8.31 |
| Cigar manufacturers | 91.81 | 8.34 | 6. 39 |
| Snuff manufacturers ${ }^{\text {6 }}$ | 79.95 | 24.88 | 21.49 |

[^27]As shown above, the margins of profits in relation to sales were outstanding for the snuff manufacturers. Throughout the period under review their margin of net income of 21 cents out of every dollar of net sales was twice that of the three largest manufacturers of cigarettes and other tobacco products as a group and three times that of the cigar manufacturers. However, despite this showing in comparison with the margins for the other groups, their profits in relation to investment were somewhat smaller than those of the cigarette companies but nearly twice those of the cigar companies and indicates that the volume of business done per dollar of investment was much lower than for the other groups.

The relationship of the above factors is interestingly brought out in the following tabulation which shows for each group the total investment, sales, ratio of sales to investment, or capital turn-over, and the manner in which the profits per dollar of net sales applicable to the total investment is related, through the turn-over, to ratio of return on the investment. The upper part of the tabulation gives the information on the basis of the average of the annual investment and sales for 1917-37, and the lower part of the table gives the information for the year 1937 alone.

|  | Total investment | Net sales | Rate of capital turnover in terms of sales | Profit per dollar of sales applicable to total investment | Rate of return on investment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average, 1917-37 |  |  |  |  |
| Manufacturers of cigarettes and other tobacco products: <br> Big Three. <br> All companies 1 $\qquad$ | \$406, 136, 489 | \$606, 303, 987 | Times | Cents | Percent 18.81 |
|  | 490, 147, 166 | 734, 590, 892 | 1.50 | 11.85 | 17.34 |
| Cigar manufacturers ${ }^{2}$ | 63, 389, 990 | 66, 603, 201 | 1. 05 | 8.87 | 9.32 |
| Snuff manufacturers ${ }^{3}$ | 44, 763, 571 | 29, 689, 901 | . 66 | 25. 15 | 16.68 |
|  | Year 1937 |  |  |  |  |
| Manufacturers of cigarettes and other tobacco products: <br> Big Three $\qquad$ |  |  |  |  |  |
|  | 504, 588, 788 | 756, 147, 107 | 1.56 | 11.66 | 18. 17 |
| All companies ${ }^{\text {a }}$ | 609, 955, 640 | 981, 506,371 | 1.61 | 10. 12 | 16. 29 |
| Snuif manufacturers | $68,612,389$ $58,075,959$ | $50,399,958$ $31,421,588$ | . 73 | 8.34 24.88 | 6.12 13.46 |

The capital turn-over reflects the time required for the sales to equal the investment. On the average, the sales of the three largest companies as a group equaled the amount of their investment about once every 8 months as compared with once every 11 months for the cigar companies and once every 18 months for the snuff companies. The tabulation shows the influence of the rapidity of turn-over on the rates of return on investment when related to margins of profits on sales. For example, twice the margin of profit was required for the slower moving products of the snuff companies than for the three largest companies in order to produce comparable rates of return on investment.

## Salaries and Other Compensation Paid to Corporation Officers and Directors

Information concerning salaries and other compensation paid to the principal officers of important tobacco manufacturers was obtained from annual reports of the companies on file with the Securities and Exchange Commission. Such information was obtained for the years 1935 to 1938, inclusive, with regard to American Tobacco Co., Liggett \& Myers Tobacco Co., R. J. Reynolds Tobacco Co., P. Lorillard Co., Axton-Fisher Co., General Cigar Co., Inc., Porto Rican American Tobacco Co., Consolidated Cigar Co., Bayuk Cigars, Inc., United States Tobacco Co., American Snuff Co., and George W. Helme Co.

Table 9, which follows, shows for each company for each of the years 1935-38 the total salaries and other compensation paid to officers and directors, the number of officers and directors, and the average compensation per officer and director.
Table 9.-Total salaries and other compensation paid to officers and directors of $^{\text {a }}$ principal tobacco processors, 1935-38


Table 9.-Total salaries and other compensation paid to officers and directors of principal tobacco processors, 1935-98-Continued

|  | Cigar manufacturers |  |  |  | -Snuff manufacturers |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { General } \\ \text { Cigar Co. } \end{gathered}$ | Porto <br> Rican American Tobacco | -ConsoliCigar Corporation Co. | Bayuk Cigars, Inc. | United States Tobacco Co. | American Snuff Co. | $\begin{gathered} \text { George W. } \\ \text { Helme } \\ \text { Co } \end{gathered}$ |
| Total salaries and other compensation: |  |  |  |  |  |  |  |
| 1935 | \$236, 576 | \$124. 279 | \$167, 906 | \$143, 481 | \$358, 202 | \$213, 820 | \$194, 311 |
| 1936. | 190,756 | 80, 000 | 154, 474 | 185, 962 | 448, 828 | 209, 282 | 185, 575 |
| 1937 | 131,029 | 80, 000 | 129, 789 | 189, 106 | 348, 284 | 222, 000 | 167, 314 |
| 1938 | 130,630 | 89,836 | 135, 420 | 199, 973 | 343, 308 | 260, 320 | 175, 911 |
| A nnual a verage | 172, 247 | 93, 528 | 146,897 | 179,630 | 374,680 | 226, 355 | 180,777 |
| Number of officers and directors: |  |  |  |  |  |  |  |
| 1935. | 11 | 10 | 12 | 12 | 11 | 10 | 9 |
| 1935 | 11 | 8 | 13 | 11 | 11 | 10 | 9 |
| 1937 | 11 | 8 | 13 | 11 | 11 | 10 | $y$ |
| 1938 | 10 | . 12 | 13 | 10 | 11 | 15 | 9 |
| Average compensation per officer and direc- |  |  |  |  |  |  |  |
| 1935 | 21,506 | 12,427 | 13,992 | 11,956 | 32,563 | 21,382 | 21,590 |
| 1936 | 17,341 | 10,000 | 11.882 | 16,907 | 40,811 | 20,928 | 20,916 |
| 1937 | 11, 911 | 10,000 | 9, 983 | 17, 191 | 31, 662 | 22, 200 | 18, 590 |
| 1938. | 13, 063 | 7,486 | 10,417 | 19,997 | 31, 209 | 17, 534 | 19,545 |
| Annual average (weighted). | 16,023 | 9,845 | 11, 521 | 16,330 | 34,062 | 20,120 | 20,086 |

Table 9 shows that for the three largest companies the average aggregate remuneration to the officers and directors of American Tobacco Co. of $\$ 1,233,108$ during the 4 years 1935-38 was nearly twice the average amount paid by Liggett \& Myers Tobacco Co., and about four times the amount paid by R. J. Reynolds Tobacco Co. In terms of total compensation per officer and director, the average amount paid by these companies was $\$ 68,506$ for American Tobacco Co., $\$ 54,922$ by Liggett \& Myers, and $\$ 25,651$ by the Reynolds Co. It will be noted that the average total coinpensation per officer and director of each of these companies was larger than for any of the other companies shown in the table.

It has been explained that each of the three largest companies are of about the same relative importance and size, and during the year 1937 their combined sales amounted to 74 percent of the total sales of all companies covered in the inquiry. It was also pointed out that the average rate of profit on total investment for each company during the years 1917-37 was 23.05 percent for R. J. Reynolds Tobacco Co., 17.16 percent for American Tobacco Co., and 16.7 percent for Liggett \& Myers Tobacco Co. The following additional comparison is therefore significant with regard to the total compensation paid by each of these companies to its highestpaid officer during each of the years 1935-38:

Total salaries and other compensation

| Year | President, ${ }^{1}$ American Tobaceo Co. | President, ${ }^{2}$ <br>  <br> Myers To. bacco Co. | Chairman ${ }^{3}$ of the board, R. J. Reynolds Tobacco Co . |
| :---: | :---: | :---: | :---: |
| 1935. | \$212. 199 | \$74, 340 |  |
| 1936 | 216. 173 | 95, 705 | 60,000 |
| 1937 | 380, 976 | 90,378 | 70,000 |
| 1938 | 331, 348 | 87.173 | 100,000 |
| A verage . | 292, 674 | 86, 899 | 72,500 |

[^28]The payments shown above for George W. Hill, president of American Tobacco Co., while large, do not compare with the compensation he received from the company in some of the earlier years. For instance, in 1929, he received $\$ 605,613$; in $1930, \$ 1,010,567$; and in 1931, $\$ 1,051,630$. The huge salaries and bonuses received by Mr. Hill and other officers of the company, together with other emoluments received by them under an "employees' stock subscription plan" gave rise to a series of stockholders' suits as explained hereinafter.

The files of the Securities and Exchange Commission, from which the salary data for the years 1935-38 were obtained, did not give the segregation of the total remuneration paid to all of the officers and directors of the various companies as between salaries and other compensation. However, such a segregation was available in some instances for each person among the officers and directors receiving one of the three largest aggregate amounts of remuneration. Tables 10 to 21, which follow, show for each officer and director of each company for which the information was available the salaries and other compensation paid during the years 1935-38.

Table 10.-Salaries and other compensation paid to principal officers of the American Tobacco Co., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| George W. Hill, presldent: | \$120,000 | \$120,000 | \$120,000 | \$120,000 |
| Other compensation | 92, 199 | 126, 173 | 280,976 | 211, 348 |
| Total | 212, 199 | 246, 173 | 380, 976 | 331, 348 |
| Thomas Taylor, vice president and audit | 50,000 |  |  |  |
| Other compensation. | 55,669 |  |  |  |
| Total. | 105, 669 | --- | --------- | ------- |
| Charles F. Neiley, vice president: Solary | 50,000 | 50,000 | 50,000 |  |
| Other compensation | 55, 369 | 75,692 | 156, 585 |  |
| Total | 105, 369 | 125, 692 | 206, 585 | ........ |
| Paul M. Hahn, vice president: Salary $\qquad$ |  | 50,000 | 50, 000 | 50, 000 |
| Other compensation. |  | 75, 742 | 156, 585 | 128,859 |
| Total |  | 125, 742 | 206, 585 | 176,859 |
| Vincent Riggio, vice president: |  |  |  |  |
| Other compensation. |  |  |  | 128,809 |
| Total. |  |  |  | 176, 809 |

I Resigned June 17, 1936.
Table 11.-Salaries and other compensation paid to principal officers Liggett \& Myers Tobacco Co., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| C. W. Toms, president: 1 |  |  |  |  |
| Salary -.....-.-.-.-... | \$39,340 | \$44.914 |  |  |
| '1'otal | 74,340 | 44,914 | ......... | ------ |
| J. W. Andrews, vice president:² Salary | 25,000 | 28,333 | \$35,000 | \$35,000 |
| Other compensation | 39,340 | 67, 372 | 55, 378 | 52, 173 |
| Total. | 64, 340 | 95, 705 | 90, 378 | 87, 173 |
| W. D. Carmichael, vice president: | 25,000 | 25,000 | 25,000 |  |
| Other compensation. | 39, 340 | 67. 372 | 55, 378 | 52, 173 |
| Total. | 64, 340 | 92,372 | 80, 378 | 77, 173 |

I Deceased.
2 Became president in 1936.

## Table 11.-Salaries and other compensation paid to principal officers

Liggett \& Myers Tobacco Co., 1935-38-Continued

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| W. W. Flowers, vice president: ${ }^{3}$ Salary |  |  |  |  |
| Other compcnsation....---- | 39,340 | \$44,914 |  |  |
| Total | 64, 340 | 44,914 |  |  |
| E. H. Thurston, vice president: Salary | 25, 000 | 25,000 | \$25, 000 | \$25, 000 |
| Other compensation .-. .-. | 39,340 | 67,372 | 55, 378 | 52,173 |
| Total | 64,340 | 92.372 | 80,378 | 77, 173 |
| (子. W. Whitaker, viee president: Salary | 25, 000 | 25,000 | 25, 000 | 25, 010 |
| Other compensation | 39,340 | 67, 372 | 55,378 | 52, 173 |
| Total | 64,340 | 92, 372 | 80, 378 | 77, 173 |
| Ben Carroll, vice president and treasure Salary |  |  | 2.5, 000 | 25.000 |
| Other compensation |  | 30,457 | 55, 378 | 52,173 |
| Total |  | 30,457 | 80, 378 | 77, 173 |
| B. F. Few, vice president: Salary |  |  | 25, 000 |  |
| Other compensation. |  |  | 55,378 | 52, 173 |
| Total. |  |  | 80, 378 | 77, 173 |

${ }^{3}$ Became chairman of the board in 1936.
4 Was sice president in 193f and became vice president and treasurer in 1937.
'TAble 12.-Total compensation paid to principal officers, R. J. Reynolds 'Tobacco Co., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1939 |
| :---: | :---: | :---: | :---: | :---: |
| S. Clay Williams, chairman of board | \$60,000 | \$60,000 | \$70, 000 | \$100, 000 |
| das A. Gray, president....... | -50,000 | 50,000 | 50, 000 | 50, 000 |
| T. H. Kirk, vice president ${ }^{\text {I }}$ | 35, 000 | 35,000 | 23, 750 |  |
| d. W. Glenn, viee president |  |  |  | 25,000 |

## ${ }^{1}$ Deseased.

'T'able 13. Total compensation paid to principal officer's of $l$ '. Larillard Co., Inc., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| Benjamin L. Belt, president ${ }^{1}$ | $\begin{array}{r} \$ 50,000 \\ 30,000 \\ 52,500 \end{array}$ | \$50,000 | \$37, 500 | \$30, 000 |
| 1). H. Ball, viee president ${ }^{2}$ |  | 30, 000 |  |  |
| Everett Mcyer, vice president ${ }^{3}$ |  |  |  |  |
| G. H. Hummell, vice president - |  | 30,000 | 30, 000 |  |
| E. J. Bush, vice president and comptroller |  |  | 27, 500 | 30, 000 |

1 Mr. Belt died Sept. 15, 1937, and in accordance with the custom of the company it paid his widow $\$ 25,000$.
${ }_{3}^{2}$ Eleeted president, 1938.
${ }^{3}$ Resigned, 1935.

Table 14.-Total compensation paid to principal officers of Axton-Fisher Tolacco Co., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| E. D. Axton, president and secretary and treasurer | \$8, 625 |  |  |  |
| F. J. Helck, vice president | 5,750 |  |  |  |
| R. L. Axton, sales manager | 5,750 |  |  |  |
| M. Amando, vice president |  | \$13, 421 | \$12,000 | \$22,131 |
| E. G. Weymouth, vice president |  | 13, 421 | 12,000 | 22,131 |
| C. Palmer Parker, treasurer... |  | 13, 013 | 12,000 | 22,131 |

Table 15:-Total compensation paid to principal officers of Gencral Cigar Co., 1935-88

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| Fred Hirchhorn, president 1 | \$75, 182 | \$59,879 | \$22, 738 | \$20, 000 |
| William Best, vice president. | 37, 591 . | 29, 939 | 23, 452 | 24, 000 |
| Bernhardt G. Meyer, vice president ${ }^{2}$ | 37, 591 | 29,939 | 26, 904 | 28,000 |
| Milton H. Esberg, vice president... | 37,591 | 29,939 | 23, 452 | 24, 000 |
| Richard C. Bondy, Jr., vice president | 36,935 | 29,939 | 23, 452 | 24,000 |

${ }^{1}$ Became chairman of board, 1937.
${ }^{2}$ Became president, 1937.
Table 16.-Total compensation paid to principal officers of Porto Rican American Tobacco Co., 1935-38

${ }^{1}$ Became president, 1938.
Table 17.-Total compensation paid to principal officers of Consolidated Cigar Corporation, 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| Julius Lichte..otein, president | \$90, 000 | \$67, 500 | \$60, 400 | \$60, 000 |
| Frank P. Will, executive vice president | 32,000 | 29,000 | 28,000 | 28,000 |
| Louis Cabn, vice president and secretary | 13, 500 | 10,875 |  |  |
| Alfred M. Silverman, treasurer.------- |  |  | 66 | 14, 100 |

Table 18.-Total compensation paid to principal officers of Bayuk Cigars, Inc., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| Harry S. Rothchild, president | \$36, 120 | \$50,448 | \$46, 032 | \$55, 125 |
| Samuel Bayuk, chairman, board of direc | 22, 153 |  |  |  |
| Harry P. Wurman, vice president | 21,578 | 36,161 | 38, 053 | 56,407 |
| A. Joseph Newman, vice president |  | 31,870 | 32, 120 | 5, |
| Harry C. Carr, viee president. |  |  |  | 34, 915 |

Table 19.-Salaries and other compensation paid to principal officers of United States Tobacco Co., 1935-38


1 No segregation between salaries and other compensation.
Table 20.-Total compensation paid to principal officers of American Snuff Co., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| Martin J. Condon, president | \$54, 080 | \$51,070 | \$50,000 | \$51,297 |
| W. C. Hunt, vice president | 29,080 | 26,070 |  |  |
| F. N. Smith, vice president | 29, 080 | 26, 070 | 25,000 | 26, 297 |
| James E. Harwood, assistant manager | 7,500 | 9,000 | 9,000 |  |
| Gilbert B. Wilson, Jr., department manag | 8,350 | 8,350 | 8,350 | 8,900 |
| Joseph Trinner, Jr., department manager | 8,350 | 8,350 | 8,350 | 8,900 |
| M. E. Finch, vice president |  |  | 40,000 | 31, 297 |
| J. G. Brown, assistant auditor |  |  |  | 8, 020 |

Table 21.-Toial compensation paid to principal officers of George W. Helme Co., 1935-38

| Name and position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: |
| John C. Flynn, president | \$56, 705 | \$60, 858 |  |  |
| C. W. Bumstead, president and vice presi | 45, 102 | 36, 929 | \$50, 323 | \$54, 755 |
| L. A. Bengert, vice president and treasurer | 41, 602 | 31, 929 | 31, 661 | $33,877$ |
| C. A. Jenny, vice president....-......-- |  |  | 26,661 | 26,878 |

${ }^{1}$ Became president, 1937.

## Stockholder's Suits Against American Tobacco Co., Its President, George W. Hill, and Others

In 1931 Richard Reid Rogers, a stockholder, instituted a series of suits protesting the huge bonuses paid to George W. Hill and other officers of American Tobacco Co. and to a plan which had been initiated by them for the allotment of stock to them and other worthy employees, as determined by the president, under an "Employees' stock-subscription plan."

The stockholder complained that for many years the officers of the company had received large annual fixed salaries as-well as large annual cash profit-sharing honuses paid under a bylaw of the company adopted in 1912. The stockholder maintained that the bylaw was invalid and that even if valid the amounts paid in accordance with its provisions were unreasonably large and thercfore subject to revision by the courts. He contended that the courts should determine the fair and reasonable compensation of each of the individual defendants for the years 1921-30, and that each be compelled to account for and pay uver to the company any amounts received in excess of fair and reasonable compensation.

Rogers also sought to restrain the company from issuing stock pursuant to the employees' stock subscription plan. This plan was adopted at a stockholders' meeting on July 30, 1930; and the resolution of the board of directors recommend-
ing a reduction in the par value of the common stock from $\$ 50$ per share to $\$ 20$ per share was also adopted.

Under the stock-subscription plan, 56,712 shares of unissued common stock B of the corporation were distributed in accordance with the recommendations made by the president of the company. Of this number 32,370 , or nearly 60 percent of the total, were allotted to the officers and directors, of which 13,440 shares, or 24 percent of the total, were allotted to the president. The remaining 24,342 shares were allotted in relatively small amounts to 525 employees. The subscription price was the par value of the stock, $\$ 25$ a share. On January 28, 1931, when the allotment of stock was made, its market price was $\$ 112$ per share, more than four times the subscription price. It was then paying and has since paid dividends at the annual rate of $\$ 5$ per share, sufficient to pay the subscription price in 5 years. Valuing the subscription privilege by the difference between the subscription price and the market value of the shares, the president received by the allotment $\$ 1,169,280$ in addition to his annual compensation of more than a million dollars. The stock subscription rights awarded the five vice presidents of the company, similarly valued, amounted to $\$ 1,451,595 .{ }^{7}$

The stockholder's suits were carried to the Supreme Court of the United States. In the case of Rogers v. Hill et al., with regard to the validity of the bylaw under which a percentage of the profits were paid as a bonus to officers of the company, the Supreme Court of the United States held (289 U. S. 591, 592):

While the amounts produced by the application of the prescribed percentages give rise to no inference of actual or constructive fraud, the payments under the bylaw have by reason of increase of profits become so large as to warrant investigation in equity in the interest of the company. Much weight is to be given to the action of the stockholders, and the bylaw is supported by the presumption of regularity and continuity. But the rule prescribed by it cannot, against the protest of a shareholder, be used to justify payments of sums as salaries so large as in substance and effect to amount to spoilation or waste of corporate property. The dissenting opinion of Judge Swan indicates the applicable rule: "If a bonus payment has no relation to the value of services for which it is given, it is in reality a gift in part and the majority stockholders have no power to give away corporate property against the protest of the minority.". * * * The facts alleged by plaintiff are sufficient to require that the district court, upon a consideration of all the relevant facts brought, forward by the parties, determine whether and to what extent payments to the individual defendant under the bylaw constitute misuse and waste of the money of the corporation. * * *

The decree of the circuit court of appeals is reversed, the decree of the district court dismissing the bills on the merits is vacated, and the case is remanded to the district court with directions to reinstate its decree granting injunction pendente lite and for further proceedings in conformity with this opinion.

In the case of Rogers v. Guaranty Trust Company of New York, et al., Trustees, the stockholder sought to enjoin the defendants from carrying out the employees' stock subscription plan and having the transaction declared void and canceled and restitution made to American Tobacco Co. The district court of New York dismissed the complaint without prejudice on the grounds that it did not have jurisdiction since American Tobacco Co. was a New Jersey corporation doing business in that State ( 60 Fed., 2d. 106). On appeal it appears that the circuit court of appeals decided the case on its merits and said the bill of complaint was properly dismissed by the district court ( 60 Fed., 2d, 114). The Supreme Court of the Únited States reversed the circuit court of appeals so far as its judgment on the merits of the case was concerned and affirmed the judgment of the district court that it was without jurisdiction. The Supreme Court of the United States held (288 U. S. 133):
"* * * As the circuit court of appeals considered and decided the merits of the case, its judgment is reversed, the judgment of the district court entered upon its mandate is vacated and the case will be remanded to the district court with directions to reinstate the earlier judgment dismissing the bills of complaint without prejudice."

According to the New York Times of July 14, 1933, litigation over the bonuses and stock allotments ended on July 13 when compromise settlements were reached. Under the settlements, it was stated that the allotment of 27,500 shares of the American Tobacco Co.'s stock to officers and employees was to be rescinded and the profit-sharing plan under which bonuses had been paid to the officers was to

[^29]be modified. This modification provided for a graduated scaling down of the bonuses based on profits in the future.

Former Judge Martin T. Manton, who wrote the decisions by the circuit court of appeals favoring the company and its officers in these suits, was convicted in June 1939 of the charge of conspiracy to sell justice and was sentenced to 2 years in jail and fined $\$ 10,000$. According to the press, Manton testified that while the suits were pending in his court hs approached Louis Sampter Levy, formerly of the law firm of Chadbourne, Stanchfield \& Levy, counsel for the tobacco company in the suits, for a loan of $\$ 25,000$ and subsequently received the better part of a loan in 10 times that amount from Lord \& Thomas, advertising agents for American Tobacco Co., through James J Sullivan, an associate of Manton's in certain business ventures.

These revelations led to disbarment proceedings against Levy and Paul M. Hahn, attorney and vice president of American Tobacco, who it is stated arranged for the loan to Manton. It was also stated in the press that Albert D. Lasker, president of Lord \& Thomas, declared that he provided the $\$ 250,000$ for the loan at the request of Levy and Hahn, unaware of the true nature of the loan and with the understanding that it would be repaid by American Tobacco Co. The loan was never repaid according to a statement of John T. Cahill, United States prosecuting attorney.

In the disbarment proceedings it appears that Hahn testified that American Tobacco Co. spent almost $\$ 1,000,000$ in settlement of the stockholder's suits against the company. He explained that $\$ 263,000$ was paid by the company to Mr. Rogers, who brought the suits, and an additional $\$ 262,601$ was placed in escrow by the company to cover his income tax, and that $\$ 320,000$ was paid to the firm of Chadbourne, Stanchfield \& Levy, counsel for the company.
APPENDIXES
Appendis Table 1.-Summary investments, profits, and rates of return for the American Tobacco Co., 1917-37

|  | 1910 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: | \$52, 699, 700 | \$52, 699, 700 | \$52, 699, 700 | \$52, 699, 700 | \$52, 699, 700 | \$52,699, 700 | \$52, 693, 700 | \$52, 699, 700 | \$52, 699, 700 | \$52, 699, 700 | \$52, 699, 700 | \$52, 699, 700 |
| 2. Comm | 40, 242, 400 | 40, 242, 400 | 40, 242, 400 | 40, 242, 400 | 89, 542, 600 | 89, 586, 600 | 89, 589, 000 | 97, 611, 800 | 97, 630, 950 | 97, 639,600 | 97,641, 500 | 97, 644, 200 |
| $3 . \quad$ Tot | 92, 9-12 | 92, 942, 100 | 92, 942,100 | 92, 942, 100 | 142, 242, 300 | 142, 286, 300 | 142, 288, 700 | 150, 311, 500 | $150,330,650$ $28,266,081$ | $150,339,300$ | $\begin{array}{r} 150,341,200 \\ 34.948,276 \end{array}$ | $\begin{array}{r} 150,343,900 \\ 39,421.241 \end{array}$ |
| 4. Surplus-earned and capit | 37, 2,373, | $39.181,756$ $2,188,164$ | $44,584,383$ $2,220,641$ | 49, $2,074,253$ | 3, 463, 754 | 3, 539, 501 | 3, 017, 962 | 3, 060, 076 | 2, 573, 707 | 789, 786 | 2, 753, 451 | 3,875, 678 |
| 6. Reserve for Federal income and profits taxes | 214, 732 | 1,002, 811 | 7, 175, 469 | 2, 386, 791 | 1, 826, 381 | 3, 526, 381 | 2, 901, 381 | 3, 104, 836 | 2, 687, 083 | 2, 895, 886 | 3, 198, 140 | 3, 172,422 |
| 7. Capital | 132, 612, 047 | 135, 314, 831 | 146, 922, 543 | 146, 749, 587 | 162, 188, 335 | 164, 101, 849 | 167, 878, 450 | 179, 322, 281 | 183, 857, 521 | 185, 258, 068 | 191, 241, 067 | 196, 813, 241 |
| Less: |  |  |  |  |  |  |  |  |  |  |  | 64, 213 |
| 9. Goodwili, appreciation, and | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 |
| 10. Stockholders | 78, 512, 617 | 81, 215, 401 | 92, 823, 113 | 92, 650, 157 | 108, 088, 905 | 110, 002, 419 | 113, 779,020 | 125, 222, 851 | 129, 758, 091 | 131, 158, 638 | 137, 141, 637 | 142, 549, 598 |
| 11. Long-term de | 2, 126, 100 | 2,069,500 | 34, 388, 334 | 33, 487, 248 | 23, 586,321 | 22, 958, 330 | 9, 744,274 | 1, 432, 074 | 1,345, 224 | 1,205, 174 | 1, 165, 324 | 1, 137, 024 |
| 12. Total investme | 80, 638, 717 | 83, 284, 901 | 127, 211, 447 | 126, 137, 405 | 131, 675, 226 | 132, 960, 749 | 123, 523, 294 | 126.654, 925 | 131, 103, 315 | 132, 423, 812 | 138, 306, 961 | 143, 686, 622 |
| 13. A verage of total lnvestment ${ }^{2}$ |  | 81,961, 809 | 105, 248, 174 | 126, 674, 426 | 128, 906, 316 | 132, 317, 988 | 128, 242, 022 | 125, 089, 110 | 128, 879, 120 | 131, 763, 564 | 135, 365, 387 | 140, 996, 792 |
| 14. Average of stockholders' invest- |  | 79, 864, 009 | 87, 019, 257 | 92, 736, 635 | 100, 369, 531 | 109, 045, 662 | 111, 890, 720 | 119, 500, 93i | 127, 490, 471 | 130, 458, 365 | 134, 150, 138 | 139, 845, 618 |
| 15. A verage of commun-stock holders' equity ${ }^{2}$ |  | 27, 164, 309 | 34, 319, 557 | 40, 036, 935 | 47,669, 831 | 56, 345, 962 | 59, 191, 020 | 66, 801, 236 | 74, 790, 771 | 77, 758, 665 | 81, 450, 438 | 87, 145, 918 |
| Net income before deducting Federal income and profits tases: |  |  |  |  |  |  |  |  |  |  |  |  |
| 16. 'Applicable to total investment |  | 14, 436, 425 | 24, 108, 506 | 19, 773, 677 | 19, 253, 092 | 22, 408, 163 | 22, 155, 805 | 20, 101, 120 | 22, 549, 547 | 24, 617, 213 | 25, 385, 623 | 26, 026, 781 |
| 17. Applieable to stockhodders' in- |  | 14, 327, 086 | 23, 413, 039 | 17, 772, 572 | 17,620, 548 | 21, 063, 716 | 21, 069, 731 | 20.074, 166 | 22, 494, 723 | 24, 567, 535 | 25, 336, 177 | 25, 917, 894 |
| 18. Applicable to eommon-stock |  | 11, 165, 104 | 20, 251, 057 | 14, 610, 590 | 14, 458, 566 | 17, 901, 734 | 17, 907, 749 | 16, 912, 184 | 19, 332, 741 | 21, 495, 552 | 22, 171, 195 | 22 812.912 |
| Rate of return on total investment ( $16 \div 13$ ) percent |  | 17.6 | 22.91 | 15. 61 | . 9 | 6.9 | 7. 2 | 6. 07 | 7.50 | 18.68 | 8. | 846 |
| Rate of return on stockholders' investment $(17 \div 14)$ percent |  | 17.9 | 26.91 | 19. 16 | . 56 | 19.32 | 18.8 | 16. 80 | 4 | 8. 83 | 18.89 | 18.57 |
| Rate of return on common-stock holders' <br>  |  | 10 | 59.01 | 36. 49 | 30. 33 | 31.77 | 30. 25 | 25. 32 | 25.85 | 27.53 | 27. 22 | 26. 18 |


|  | 1920 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  |  |  |  |  |
| 1. Preferred | \$52, 699, 700 | \$52, 699, 700 | \$52, 699, 700 | $\$ 52,699,700$ $118,522,625$ | $\$ 52,699,700$ $118,523,650$ | $\$ 52,699,700$ $118,595,775$ | \$52, 699, 700 | $\$ 52,699,700$ $118,596,100$ | $\$ 52,699,700$ $118,596,200$ | $\$ 52,699.000$ $118,596,500$ |  |
| 2. Common | 97, 645, 850 | 117, 175, 400 | 117, 176, 350 | 118, 522, 625 | 118, 523,650 | 118, 595, 775 | 118, 595, 975 | 118, 596, 100 | 118, 596, 200 | 118, 596, 500 |  |
| $3 . \mathrm{Total}$ | 150, 345, 550 | 169, 875, 100 | 169,876, 050 | 171, 222, 325 | 171, 223, 350 | 171, 295, 475 | 171, 295, 675 | 171, 295, 800 | 171, 295, 900 | 171, 296, 200 |  |
| 4. Surplus earned and eapital | 45, 650,521 | 80, 869,332 | 91, 865, 675 | 106, 448, 051 | 118, 107, 616 | 108, 627, 695 | 105, 251, 117 | $65,557,385$ | $59,922,812$ | $60,024,136$ |  |
| 5. Surplus and contingcucy reserve ...... | $4,174,896$ $2,838,861$ | $3,377,887$ $3,351,717$ | $3,379,344$ $5,228,121$ | $3,381,761$ $5,926,839$ | $1,429,718$ $6,542,807$ | $66,6.56$ $2,539,204$ | 61,000 $3,838,967$ | 248,120 $3,588,499$ | 254,796 $4,027,235$ | 5, 2571, 535 |  |
| 6. Reserve for Federal income and profts taxe | 2, 838, 861 | 3, 351, 717 | 5, 228, 121 | 5,926, 839 | 6, 542, 807 | 2, 539, 204 | 3, 838, 967 | 3,588, 499 | 4, 027, 235 | 5, 041,534 |  |
| 7. Capital stock and sur | 203, 009, 828 | 257, 474, 036 | 270, 349, 188 | 286, 978, 976 | 297, 303, 492 | 282, 529, 030 | 280, 446, 759 | 240,689, 804 | 235, 500, 743 | 236,619, 225 |  |
| 8. Treasury stock at cost-commion | 227,973 | 9, 070, 134 | 5, 758, 042 | 16, 406, 995 | 2, 079, 022 | 2, 825, 037 | 2, 217, 030 | 7,480, 819 | 9, 443, 615 | 10, 922, 297 |  |
| gibles | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 | 54, 099, 4.30 | 54, 099, 430 | 54, 099, 430 | 54, 099, 430 |  |
| 10. Stockholders' investment. | 148, 682, 425 | 194, 304, 742 | 210, 491, 716 | 216, 472, 551 | $241,125,040$ | 225, 604, 563 | 224, 130, 299 | 179, 109, 355 | 171, 957, 698 | 171, 597, 498 |  |
| 11. Long-term debt | 1, 122, 374 | 1, 097, 974 | 1,074, 024 | 1, 029, 499 | 996, 874 | 1, 000, 289 | 970, 749 | 24, 358, 445 | 22, 724,604 | 20, 946, 355 |  |
| 12. Total incestm | 149, 804, 799 | 195, 402, 446 | 211, 565, 740 | 217, 502, 055 | 242, 121, 914 | 226, 604, 852 | 225, 101, 048 | 203, 468, 000 | 194, 682, 302 | 192, 543, 853 |  |
| 13. A verage total investment ${ }^{2}$ - | 146, 745, 711 | 172, 603, 623 | 203, 484, 093 | 214, 533, 895 | 229, 811,982 | 234, 313, 383 | 225, 852, 950 | 214, 284, 524 | 199, 075, 151 | 193, 613, 078 | 161, 891, 100 |
| 14. A verage stockholders' investment ${ }^{2}$.. <br> 15. Average of common stockholders' equity ${ }^{2}$ | $145,615,987$ $92,916,827$ | $171,493,449$ $118,793,749$ | 202, 398, 094 | $\begin{aligned} & 213,482,134 \\ & 160,782,434 \end{aligned}$ | $\begin{aligned} & 228,798,796 \\ & 176,099,096 \end{aligned}$ | $\begin{aligned} & 233,314,802 \\ & 180,615,102 \end{aligned}$ | $\left\lvert\, \begin{aligned} & 224,867,431 \\ & 172 \end{aligned}\right.$ | $401,619,927$ | $\begin{aligned} & 175,533,627 \\ & 122 \end{aligned}$ | $171,777,598$ | $152,441,580$ |
| 15. Average of common stockholders' equity ${ }^{2}$ Net income before decuting Feueral income and profits taxes: | 92, 916, 827 | 118, 793, 749 | 149, 698, 394 | 160, 782, 434 | 176, 099, 096 | 180, 615, 102 | 172, 167, 731 | 148, 920, 227 | 122, 833, 927 | $119,077,898$ | $99,741,880$ |
| 16. Applicable to total investment | 27,692, 216 | 33, 919, 348 | 48, 398, 994 | 52, 422, 532 | 49, 467, 174 | 19,606, 079 | 27, 575, 249 | 27, 702, 897 | 24, 290, 917 | 31, 663, 822 | 27, 788, 342 |
| 17. Applicable to stockholders' investment ....- | 27, 640, 351 | $33,469,397$ | 48, 325, 416 | 52, 328, 157 | 49, 366, 646 | $19,461,305$ | 27, 499, 704 | 27, 071, 286 | 23, 576, 368 | $30,922,600$ | 27, 303, 591 |
| 18. Applicable to common stockholders' equity Rate of return on total investment $(16 \div 13)$ | 24, 478, 369 | 30, 307, 415 | 45, 163, 434 | 49, 166, 175 | 46, 230,646 | 16, 299, 323 | 24, 337, 722 | 23, 909, 304 | 20, 414, 386 | 27, 760, 618 | 24, 141, 609 |
| percent.- | 18.87 | 19.65 | 23. 79 | 24.44 | 21. 53 | 8.37 | 1221 | 12. 93 | 12. 20 | 16.35 | 17. 16 |
| percent | 18.98 | 19.52 | 23. 88 | 24. 51 | 21.58 | 8. 34 | 12. 23 | 13.43 | 13.43 | 18.00 | 17.91 |
| (18 $\div 15$ )................-.-...-.-.-.-.-. - - percent.- | 26. 34 | 25.51 | 30. 17 | 30.58 | 26. 24 | 9.02 | 14. 14 | 16. 06 | 16.62 | 23. 31 | 24. 20 |

[^30]Appendix Table 1A.-Summary of income; expenses, and surplus for the American Tobacco Co., 191 $\hat{-}-3 \pi$

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$83, 626, 850 | \$137, 854, 588 | \$141, 639, 435 | \$138, 530, 584 | \$151, 103, 825 | \$138, 961, 567 | \$134, 292, 159 | \$149, 268, 903 | \$152, 088, 201 | \$149, 446, 876 | \$166, 068,673 |
| Cost of goods sold <br> Distribution and administrative expenses | $\begin{aligned} & 61,245,122 \\ & 11,679,026 \end{aligned}$ | $\begin{array}{r} 101,382,428 \\ 12,234,591 \end{array}$ | $\begin{array}{r} 111,627,608 \\ 12,278,036 \end{array}$ | $111,496,702$ $11,514,390$ | $\begin{array}{r} 115,719,709 \\ 13,763,674 \end{array}$ | $\begin{array}{r} 106,108,942 \\ 12,640,008 \end{array}$ | $\begin{array}{r} 103,252,748 \\ 13,159,683 \end{array}$ | $\begin{array}{r} 113,738,994 \\ 16,582,176 \end{array}$ | $\begin{array}{r} 114,791,349 \\ 18,196,403 \end{array}$ | $\begin{array}{r} 112,114,988 \\ 16,783,014 \end{array}$ | $\begin{array}{r} 124,957,000 \\ 21,728,650 \end{array}$ |
| Total | 72, 924, 148 | 113, 617, 019 | 123, $90{ }^{\text {J, }} 694$ | 123, 011, 092 | 129, 483, 383 | 118, 748, 950 | 116, 412, 431 | 130,321, 170 | 132, 987, 752 | 128, 898, 002 | 146, 685, 650 |
| Net profit Other income ( $n$ | $\begin{array}{r} 10,712,702 \\ 3,723,723 \end{array}$ | $\begin{array}{r} 24,237,569 \\ 129,063 \end{array}$ | $\begin{array}{r} 17,733,741 \\ \stackrel{C}{2}, 039,936 \end{array}$ | $\begin{array}{r} 15,519,492 \\ 3,733,600 \end{array}$ | $\begin{array}{r} 21,620,442 \\ 787,721 \end{array}$ | $\begin{array}{r} 20,212,617 \\ 1,943,188 \end{array}$ | $\begin{array}{r} 17,879,728 \\ 2,221,392 \end{array}$ | $\begin{array}{r} 18,887,733 \\ 3,661,814 \end{array}$ | $\begin{array}{r} 19,100,449 \\ 5,516,764 \end{array}$ | $\begin{array}{r} 20,548,874 \\ 4,836,749 \end{array}$ | $\begin{array}{r} 19,383,023 \\ 6,643,758 \end{array}$ |
| Net income applicable to total investment <br> Less interest on long.term iebt............................. | $\begin{array}{r} 14,436,425 \\ 109,339 \end{array}$ | $\begin{array}{r} 24,108,506 \\ 695,467 \end{array}$ | $\begin{array}{r} 19,773,677 \\ 2,001,105 \end{array}$ | $\begin{array}{r} 19,253,092 \\ 1,632,544 \end{array}$ | $\begin{array}{r} 22,408,163 \\ 1,344,447 \end{array}$ | $\begin{array}{r} 22,155,805 \\ 1,086,074 \end{array}$ | $\begin{array}{r} 20,101,120 \\ 26,954 \end{array}$ | $\begin{array}{r} 22,549,547 \\ 54,824 \end{array}$ | $\begin{array}{r} 24,617,213 \\ 49,678 \end{array}$ | $\begin{array}{r} 25,385,623 \\ 49,446 \end{array}$ | $\begin{array}{r} 26,026,781 \\ 51,887 \end{array}$ |
| Net income applicable to stock. holders' investment <br> Provision for Federal income and profits taxes | $\begin{array}{r} 14,327,086 \\ 1,016,401 \end{array}$ | $\begin{array}{r} 23,413,029 \\ 6,800,000 \end{array}$ | $\begin{array}{r} 17,772,572 \\ 1,800,000 \end{array}$ | $\begin{array}{r} 17,620,548 \\ 1,376,913 \end{array}$ | $\begin{array}{r} 21,063,716 \\ 2,809,052 \end{array}$ | $21,069,731$ $2,236,476$ | $20,074,166$ $2,266,027$ | $22,494,723$ $1,709,853$ | $\begin{array}{r} 24,567,535 \\ 2,328,616 \end{array}$ | $\begin{array}{r} 25,336,177 \\ 2,836,529 \end{array}$ | $\begin{array}{r} 25,974,894 \\ 2,717,091 \end{array}$ |
| Net income for the Surplus beginning of year | $\begin{aligned} & 13,310,685 \\ & 37,081,533 \end{aligned}$ | $\begin{aligned} & 16,613,039 \\ & 39,181,756 \end{aligned}$ | $\begin{aligned} & 15,972,572 \\ & 44,584,333 \end{aligned}$ | $\begin{aligned} & 16,243,635 \\ & 49,346,443 \end{aligned}$ | $\begin{aligned} & 18,254,664 \\ & 14,655,900 \end{aligned}$ | $\begin{aligned} & 18,833,255 \\ & 14,749,667 \end{aligned}$ | $\begin{aligned} & 17,808,139 \\ & 19,670,407 \end{aligned}$ | $\begin{aligned} & 20,784,870 \\ & 22,845,869 \end{aligned}$ | $\begin{array}{r} 22,238,919 \\ 28,266,081 \end{array}$ | $\begin{aligned} & 22,499,648 \\ & 31,233,096 \end{aligned}$ | $\begin{aligned} & 23,257,803 \\ & 34,948,276 \end{aligned}$ |
| Total <br> Less dividends paid onCommon stock in cash | $50,392,218$ $8,048,480$ | 55, 794, 795 | $60,556,905$ $4,024,240$ | $65,590,078$ $4,024,240$ | $32,910,564$ $8,062,455$ | $33,582,922$ $10,750,533$ | 37, 478, 546 | 43, 630, 739 | 0, 505, 000 | 53, 732, 744 | $58,206,079$ $15,620,856$ |
| Common stock in stock |  | 2 8, 048, 480 | 2 4, 024, 240 | 8 $43,747,956$ | ${ }^{1} 6,936,460$ |  |  |  |  |  |  |
| Preferred stock in cash | 3, 161,982. | 3, 161,982 | 3, 161,982 | 3, 161,982 | 3, 161,982 | 3, 161,982 | 3, 161,982 | 3,161,982 | 3, 161,982 | 3,161, 982 | 3,161,982 |
| Other Total detions (net) | 11,210. | 11, 210, 462 | 11. 210,462 | 50, 934, 178 | 18, 160, 897 | 13,912, 515 | 14,632, 677 | 15, 364, 658 | 19, 271,904 | 18, 784, 46 | $\begin{array}{r} 18,782,838 \\ 2,000 \end{array}$ |
| Surplus end of year | 39, 181, 756 | 44, 584, ${ }^{\text {¢ }} 33$ | 49, 346, 443 | 14,655, 900 | 14, 749, 667 | 19, 670, 407 | 22. 845, 869 | 28, 266, 081 | 31, 233, 0,96 | 34, 948, 276 | 39, 421, 241 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$202, 293, 220 | \$246, 688, 380 | \$288, 167, 322 | \$300, 062, 646 | \$278, 215, 273 | \$230, 317, 180 | \$225, 646, 543 | \$220, 264, 060 | \$232, 964, 682 | \$242, 644, 515 | \$4, 010, 995, 492 |
| Cost of goods sold <br> Distribution and administrative expenses. | $\begin{array}{r} 161,505,631 \\ 20,997,796 \end{array}$ | $\begin{array}{r} \hline 195,256,366 \\ 21,861,848 \end{array}$ | $\begin{array}{r} 214,451,743 \\ 32,353,884 \end{array}$ | $\begin{array}{r} 217,211,748 \\ 36,326,235 \end{array}$ | $\begin{array}{r} 193,036,086 \\ 40,868,801 \end{array}$ | $\begin{array}{r} 186,818,888 \\ 28,868,984 \end{array}$ | $\begin{array}{r} 169,238,082 \\ 26,660,087 \end{array}$ | $\begin{array}{r} 171,828,759 \\ 24,849,076 \end{array}$ | $\begin{array}{r} 185,144,403 \\ 25,725,757 \end{array}$ | $\begin{array}{r} 195,042,650 \\ 18,630,767 \end{array}$ | $\begin{array}{r} 3,065,960,946 \\ 437,702,936 \end{array}$ |
| Total operating expe | 182, 503, 427 | 217, 118, 214 | 246, 805, 627 | 253, 537, 983 | 233, 004,887 | 215, 687, 872 | 195, 898, 169 | 196, 677, 835 | 210, 870, 160 | 213, 673, 417 | 3, 503, 672, 882 |
| Net profit on sales. <br> Other income (net).-.-. | $\begin{array}{r} 19,789,793 \\ 7,902,423 \end{array}$ | $\begin{array}{r} 29,570,166 \\ 4,349,182 \end{array}$ | $\begin{array}{r} 41,361,695 \\ 7,037,299 \end{array}$ | $\begin{array}{r} 47,424,663 \\ 4,997,869 \end{array}$ | $\begin{array}{r} 44,310,386 \\ 5,156,788 \end{array}$ | $\begin{array}{r} 14,629,318 \\ 4,976,761 \end{array}$ | $\begin{array}{r} 29,748,374 \\ 12,173,125 \end{array}$ | $\begin{array}{r} 23,586,225 \\ 4,116,672 \end{array}$ | $\begin{array}{r} 22,094,522 \\ 2,196,395 \end{array}$ | $\begin{array}{r} 28,971,098 \\ 2,692,724 \end{array}$ | $\begin{array}{r} 507,322,610 \\ 76,232,570 \end{array}$ |
| Net income applicable to total investment. <br> Less interest on long-term debt | $\begin{array}{r} 27,692,216 \\ 51,865 \end{array}$ | $\begin{array}{r} 33,919,348 \\ 449,951 \end{array}$ | $\begin{array}{r} 48,398,994 \\ 73,578 \end{array}$ | $\begin{array}{r} 52,422,532 \\ 94,375 \end{array}$ | $\begin{array}{r} 49,467,174 \\ 100,528 \end{array}$ | $\begin{array}{r} 19,606,079 \\ 144,774 \end{array}$ | $\begin{array}{r} 27,575,249 \\ 75,545 \end{array}$ | $\begin{array}{r} 27,702,897 \\ 631,611 \end{array}$ | $\begin{array}{r} 24,290,917 \\ 714,549 \end{array}$ | $\begin{array}{r} 31,663,822 \\ 741,222 \end{array}$ | $\begin{array}{r} 583,555,180 \\ 10,179,763 \end{array}$ |
| Net income applicable to stockholders' investment | 27, 640, 351 | 33, 469, 397 | 48, 325, 416 | 52, 328, 157 | 49, 366, 646. | 19, 461, 305 | 27, 499, 704 | 27, 071, 286 | 23, 576, 368 | 30, 822,600 | 573, 375, 417 |
| Provision for Federal income and profits taxes |  |  |  | $6,138,416$ | $6,099,563$ | $2,060,096$ | $4,285,424$ | $3,165,578$ | 3, 340, 595 | $\text { 4, 291, } 258$ | $68,225,245$ |
| Net income for the year Surplus beginning of yea | $25,014,434$ $39,421,241$ | 30, 178, 604 | 43, 294,769 | 46, 189, 741 | 43, 267,083 | 17, 401,209 | 23, 214,280 | 23, 205,708 | 20, 235,773 | 26, 631,342 | 505, 150, 172 |
| Surplus beginning of yea Total | $39,421,241$ $64,435,675$ | 45, 650, 521 $75,829,125$ | $80,869,332$ $125,164,101$ | $91,865,673$ $138,055,414$ | $106,448,051$ $149,715,134$ | $118,107,617$ $135,508,826$ | $108,627,695$ $131,841,975$ | $105,251,117$ $129,156,825$ | 65, 5577,385 $85,793,158$ | $59,922,812$ $86,54,154$ |  |
| Less dividends pald on- |  |  | 125, 164, 101 | 138, 055, 414 | 149, 715, 134 | 135, 508, 826 | 131, 841, 975 | 129, 156, 825 | 85, 793, 158 | 86, 554, 154 |  |
| Common stock in cash Common stock in stock | 15, 614, 084 | 20, 924, 332 | 29, 293, 983 | 28, 445, 381 | 28,445,535 | 23, 719, 149 | 23, 428, 876 | 23, 435, 520 | 23, 061, 555 | 22, 934, 186 | 345, 239, 184 |
| Preferred stock in cash | 3, 161,982 | 3, 161, 982 | 3, 161, 982 | 3, 161, 982 | 3, 161, 982 | 3, 161, 982 | 3, 161, 982 | 3, 161, 982 | 3, 161,982 | 3, 161, 882 | $62,147,136$ $66,401,6<2$ |
| Total. <br> Premium on sale of common stock | 18, 776,066 | $\begin{array}{r} 24 ; 086,314 \\ 829,293,725 \end{array}$ | 32,455, 965 | 31,607, 363 | 31,607, 517 | 26, 881, 131 | 26, 590, 858 | 26, 597, 502 | 26, 223, 537 | 26,096, 168 | $\begin{aligned} & 474,397,942 \\ & \mathbf{S}_{29,}^{293}, 725 \end{aligned}$ |
| Payment in 1935, and refund of a portion thereof in 1936, in connection with acquisition of leased brands |  |  |  |  |  |  |  |  |  |  |  |
| Other deductions (net) | 9,088 | 167, 204 | ${ }^{1} 157,537$ |  |  |  |  | $253,065$ | 109, 553 | 433, 850 | $\begin{array}{r} 36,286,129 \\ 817,223 \end{array}$ |
| Surplus end of the year | 45,650, 521 | 80, 869, 332 | 91, 865, 673 | 106, 448, 051 | 118, 107, 617 | 108, 627, 695 | 105, 251, 117 | 65, 557, 385 | 59, 922, 812 | 60, 024, 136 |  |

${ }^{1}$ Denotes losis.
Includes $\$ 2,686,728$ of scrip exchangeable for common stock $B$ and $\$ 4,250,182$ in common stock of a subsidiary company
indditions to surplus.
Appendix Table 2.-Summary of investments, profits, and rates of return for Liggett \& Myers Tobacco Co. and subsidiaries, 1917-37

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Preferred | \$15, 383, 800 | \$22, 513, 400 | \$22, 514, 000 | \$22, 514, 000 | \$22, 514, 000 | \$22, 514, 000 | \$22, 514, 100 | \$22, 514, 100 | \$22, 514, 100 | \$22, 514, 100 | \$22, 514, 100 | 22, 514, 100 |
|  | 21, 496, 400 | 21, 558, 898 | 21, 558, 898 | 21, 859. 021 | 32, 600, 221 | 33, 044, 921 | 33, 791, 621 | 34, 236, 721 | 43, 315, 896 | 54, 061, 671 | 59, 450, 229 | 65, 391, 829 |
| 3. Tota | 36, 880, 200 | 44, 072, 298 | 44, 072, 898 | 44, 373, 021 | 55, 114, 221 | 55, 558, 921 | 56, 305, 721 | 56, 750, 821 | 65, 829,996 | 76, 575, 771 | 81, 964, 329 | 87, 805, 929 |
| 4. Surplus and contingency reser | $12,978,127$ $2,971,769$ | $15,700,219$ 1,563 | $18,817,964$ $1,234,898$ | $19,670,510$ $1,188,854$ | $22,230,052$ $1,183,884$ | 26, 525,585 | 30, 655, 075 | 34, 648, 891 | 40, 420, 722 | 46, 163, 328 | 47, 818, 268 | 49, 003, 176 |
| 6. Reserve for Federal income and pro- |  |  |  |  | 884 | 1, 528, 710 | 477, 948 | 189, 797 | 231, 768 | 264, 707 |  | 820, 000 |
|  | 127, 566 | 702, 072 | 6,381, 617 | 2,990, 058 | 2, 796, 354 | 1,783, 643 | 1, 233, 853 | 1,257, 553 | 1,685, 412 | 2, 144, 785 | 2, 698, 658 | 2, 920, 873 |
| 7. Capital stock and sur | 52, 957, 6 | 62, 038, 582 | 70, 507, 377 | 68, 222, 443 | 81, 324, 511 | 85, 397, 232 | 88, 672, 597 | 92, 84 | 108, 167, 898 | 125, 148, 591 | 132, 481, 255 | 140, 649, 978 |
| and other intangibles. | 40, 709, 711 | 10,796,969 | 40,796, 969 | 41, 096, 969 | 41, 096, 869 | 41, 096, 969 | 41, 096, 969 | 41, 096, 969 | 41, 096, 969 | 40, 797, 969 | 40, 797, 969 | 40, 797, 969 |
| 9. Stockholders 10. Long-term de | 12, 247, 951 | 21, 241, 613 | 29, 710, 408 | 27, 125, 474 | 40, 227, 542 | 44, 300, 263 | 47, 575, 628 | 51, 750, 093 | 070, 929 |  |  |  |
| 10. Long-term de | 29,967, 800 | 29, 852, 450 | 49, 724, 700 | 49, 594, 700 | 49, 461, 100 | 20, 320,600 | 29, 170, 600 | 29, 043, 600 | 28,916, 600 | $\begin{aligned} & 8,350,622 \\ & 28,792,200 \end{aligned}$ | $\begin{aligned} & 91,683,286 \\ & 28,673,200 \end{aligned}$ | $\begin{aligned} & 99,852,009 \\ & 28,551,200 \end{aligned}$ |
| 11. Total investmen | 42, 215, 751 | 51, 094, 063 | 79, 435, 108 | 76, 720, 174 | 89, 688, 642 | 73, 620, 863 | 76, 746, 228 | 80, 793, 693 | 95, 987, 529 | 113, 142, 822 | 120, 356, 486 |  |
| 12. A verage of total investment ${ }^{1}$ <br> 13. Average of stockholders' invest- |  | 46,654, 907 | $65,264,585$ | 78, 077, 641 | 83, 204, 408 | 81, 654, 752 | 75, 183, 545 | 78, 769, 961 | 88, 390, 612 | 104, 565, 175 | 116, 749, 654 | 124, 379, 848 |
| 14. Average of common stockholders' |  | 16, 744, 782 | $25,476,010$ | 28, 417, 941 | 33, 676, 508 | 42, 263, 902 | 45, 937, 945 | 49, 662, 861 | 59, 410, 512 | 75, 710, 775 | $88,016,9$ | 5, 767, 648 |
| equity ${ }^{1}$--................... |  | ${ }^{2} 2,203,818$ | 2, 962, 310 | 5, 903, 941 | 11, 162, 508 | 19, 749, 902 | 23, 423, 895 | 27, 148, 761 |  |  |  |  |
| Net income before deducting Federal income and profits taxes: |  | 2, | 2,062,310 | 5,00, 011 | 11, 162, 508 | 19, 749,902 | 23, 423,895 | 27, 148, 761 | 36, 896, 412 | 53, 196, 675 | 02, 854 | 73, 253, 548 |
| 15. Applicable to total investment-- |  | 9, 725, 426 | 14, 821, 913 | 10, 109, 564 | 11,534, 844 | 14, 108, 123 | 12, 641, 431 | 12, 597, 870 | 15,652, 432 |  |  |  |
| vestment........---...........- |  |  |  |  |  |  |  |  |  |  |  |  |
| 17. Applicable to common stock. |  | 7, 338,963 |  |  |  | 11, 321, 469 | 10, 903, 306 | 10, 868, 233 | 13, 931, 684 | 17, 354, 356 | 20, 564, 434 | 21,664, 542 |
| Rate of holders' equity -..............- |  | 6, 737, 329 | 11, 371,938 | 5, 565, 422 | 6, 996, 130 | 9, 734, 989 | 9, 315, 324 | 9, 280, 246 |  |  |  |  |
| Rate of return on total investment |  |  |  |  |  | -, 31,088 | , 31 |  |  |  | 18,988, 447 | 20,088, 555 |
| Rate of return on stockholders invest- ment ( $16 \div 13$ ) |  |  |  |  | 13.86 | 17.28 | -16.81 | 15.99 | 17.71 | 8. 23 | 19.07 | 18.78 |
| Rate of return on common stock ${ }^{\text {mercent }}$, |  | 47.41 |  | 5. 13 | 25.47 | 26.79 | 23.73 | 21.88 | 23.45 | 2.92 | 23.36 | 22.62 |
| percent. |  |  | 383.89 | 94.27 | 62.68 | 49. 29 | 39.77 | 34. 18 | 33.46 | 29.63 | 28.99 | 27.42 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1034 | 1935 | 1936 | 1937 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: <br> 1. Preferred | \$22, 514, 100 | \$22, 514, 100 | \$22, 514, 100 | \$22, 514, 100 | \$22, 514, 100 | \$21, 676, 800 | \$21, 614, 100 | \$20, 874, 100 | \$20, 874, 100 | \$20, 874, 100 |  |
| 2. Common | 65, 463, 366 | 65, 463, 366 | 78, 530, 391 | 78, 530, 391 | 78, 530, 891 | 78,530, 891 | 78, 584, 469. | . 78, 423,475 | 78, 423, 475 | 78, 423, 475 |  |
| 3. Total............ | 87, 977, 466 | 87, 977, 466 | 101, 044, 491 | 101, 044, 491 | 101, 044, 991 | 100, 207, 691 | 100, 198, 569 | 99, 297, 5751 | 99, 297, 575 | 99, 297, 575 |  |
| 4. Surplus-earned and capital.-...- | $53,987,708$ 400,000 | $20,739,403$ 400,000 | 28, 447, 720 | 34, 273, 920 | $40,128,100$ $1,224,004$ | $39,498,617$ $1,582,036$ | $42,686,771$ $2,715,434$ | $40,262,751$ <br> $2,715,434$ <br> 2 | 41,050, <br> $2,715,434$ | 42, $2,715,434$ |  |
| 6. Reserve for Federal income and profts taxes | 2, 632, 501 | 2, 780, 407 | 3, 278,684 | 3, 162, 156 | 3, 682, 783 | 2, 477, 454 | 3, 200, 156 | 2, 567,607 | 4, 200, 439 | 3, 727, 731 |  |
| 7. Capital stock and surplus | 144, 997, 675 | 111, 897, 276 | 132, 770, 895 | 138, 480, 567 | 146, 079, 878 | 143, 765, 798 | 148, 800, 930 | 144, 843, 367 | 147, 264, 071 | 147, 884, 102 |  |
| 8. Less good will, appreciation and other intangibles. | 40, 764, 711 | $\begin{array}{r}111,85,001 \\ \hline\end{array}$ | 55,001 | 55,001 | 55,001 | 55,001 | 55,001 |  |  |  |  |
| 9. Stockholders' in | 104, 232, 964 | 111, 842, 275 | 132, 715, 894 | 138, 425, 566 | 146, 024, 877 | 143, 710, 797 | 148, 745, 929 | 144, 843, 366 | 137, 264, 070 | 147, 884, 101 |  |
| 10. Long-term deb | 28, 431, 200 | 28,306, 200 | 28, 176, 200 | 28,054, 200 | 25, 739, 200 | 23, 227, 200 | 22, 900,200 | 22, 782, 200 | 22, '666, 200 | 22, 551, 400 |  |
| 11. Total investment | 132, 664, 164 | 140, 148, 475 | 160, 892, 094 | 166, 479, 766 | 171, 764, 077 | 166, 937, 997 | 171, 646, 129 | 167, 625, 566 | 169, 930, 270 | 170, 435, 501 |  |
| 12. A verage of total investment ${ }^{1}$ | 130, 533, 686 | 136, 406, 318 | 150, 520, 285 | 163, 685, 931 | 169, 121, 922 | 169, 351, 037 | 169, 292, 064 | 169, 635, 849 | 168, 777, 918 | 170, 232, 886 | 120, 973, 952 |
| 13. A verage of stockholders' investment 1 | 102, 042, 485 | 108, 037, 618 | 122, 279, 085 | 135, 570, 731 | 142, 225, 222 | 144, 867, 837 | 146, 228, 364 | 146, 794, 649 | 146, 053,718 | $147,624,086$ | $90,609,983$ |
| 14. Average of common-stock holders' equity ${ }^{1}$ Net income before deducting Federal income - and profits taxes: | 79, 528, 385 | 85, 523, 518 | 99, 764, 985 | 113, 056, 631 | 119, 711, 122 | 122, 772, 387 | 124, 582, 914 | 125, 550, 549 | 125, 176, 118 | 126, 749, 986 | 68,543, 50 |
| 15. Applicable to total investment | 23,416, 629 | 26, 713, 406 | 29,038, 157 | 28, 066,776 | 28, 482,093 | 20, 882, 023 | 24, 724, 797 | 20, 782, 221 | 29,733, 505 | 26, 426, 645 | 20, 197, 762 |
| 16. Applicable to stockholders' 1nvestment | $21,729,737$ $20,153,750$ | $25,035,352$ $23,459,365$ | [ $2.27,369,290$ | $26,406,309$ $24,830,322$ | $26,899,917$ $25,323,930$ | $19,464,612$ $17,915,306$ | 23, $21,862,297$ |  | 28, <br> 26, 941,583 | ${ }_{2}^{25,102,841,680}$ | $18,401,900$ |
| Ratelof return on total investment (15 $\div 12$ ) | 20, 153, 750 | 23, 459, 365 | 25, 793, 303 | 24, 830, 322 |  | 17, 915, 306 | 21, 862, 297 | 17, 977,817 | 26, 941, 386 |  |  |
| Rate of return on stockholders' investment ( 16 |  |  |  | 17.15 | 84 | 12. 33 | - 14.60 | 12.25 | 17.6 | 5. |  |
|  | 21.2 | . 17 | . 3 | . 48 | 18.91 | 13.44 | 15.99 | 13.24 | 19.45 | 17.00 | 20. |
|  | 25.34 | 27.43 | 25.85 | 21.96 | 21.15 | 14.59 | 17.55 | 14.32 | 21:52 | 18.65 | 24.60 |

[^31]Appennix Table 2a.-Summary of income, expenses, and surplus for Liggett \& Myers Tobacco Co. and subsidiaries, 191í-3;

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1928 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| sales | \$82, 897, 952 | \$123, 698, 335 | \$134, 697, 886 | \$151, 503, 211 | \$152, 072, 155 | \$145, 051, 719 | \$156, 100, 000 | \$180, 475, 851 | \$203, 113, 016 | \$227, 703, 529 | \$235, 722, 589 |
| Cost of goods sold Distribution and administratlve expenses. | $61,684,677$ $11,371,355$ | $\begin{array}{r}99,516,567 \\ 8,477,478 \\ \hline\end{array}$ | $112,463,250$ $11,700,925$ | $\begin{array}{r}125,816,768 \\ 13,223,022 \\ \hline\end{array}$ | $\begin{array}{r}119,967,462 \\ 17,878,514 \\ \hline 137,845\end{array}$ | $115,172,359$ $17,143,145$ | $\begin{array}{r}127,659,620 \\ 15,887,899 \\ \hline 18\end{array}$ | $\begin{array}{r}144,865,119 \\ 19,884,815 \\ \hline\end{array}$ | $\begin{array}{r}163,122,879 \\ 21,341,882 \\ \hline\end{array}$ | $\begin{array}{r} \hline 182,841,352 \\ 22,873,455 \\ \hline \end{array}$ | $\begin{array}{r} 189,357,614 \\ 24,657,692 \end{array}$ |
| Total operating expens | 73, 056, 032 | 107, 994, 045 | 124, 164, 175 | 139, 039, 790 | 137, 845, 976 | 132, 315, 504 | 143, 247, 519 | 164, 749, 934 | 184, 464, 761 | 205, 714, 807 | 214, 015, 306 |
| Net profit on sales Other income (net) | $\begin{gathered} 9,841,920 \\ 1116,494 \end{gathered}$ | $\begin{array}{r} 15,704,290 \\ 1882,377 \end{array}$ | $\begin{array}{r} 10,533,711 \\ 1424,147 \end{array}$ | $\begin{array}{r} 12,463,421 \\ 1928,577 \end{array}$ | $\begin{array}{r} 14,226,179 \\ 118,056 \end{array}$ | $\begin{array}{r} 12,736,215 \\ 194,784 \\ \hline \end{array}$ | $\begin{array}{r} 12,852,481 \\ 1254,611 \end{array}$ | $\begin{array}{r} 15,725,917 \\ \quad 73,485 \end{array}$ | $\begin{array}{r} 18,648,255 \\ 418,746 \\ \hline \end{array}$ | $\begin{array}{r} 21,988,722 \\ \quad 279,632 \\ \hline \end{array}$ | $\begin{array}{r} 21,707,283 \\ 1,652,516 \end{array}$ |
| Net income applicable to total investment <br> Less interest on long-term debt............................. | $\begin{aligned} & 9,725,426 \\ & 1,786,463 \end{aligned}$ | $\begin{array}{r} 14,821,913 \\ 1,873,995 \end{array}$ | $\begin{array}{r} 10,109,564 \\ 2,968,162 \end{array}$ | $\begin{array}{r} 11,534,844 \\ 2,958,747 \end{array}$ | $\begin{array}{r} 14,108,123 \\ 2,786,654 \\ \hline \end{array}$ | $\begin{array}{r} 12,641,431 \\ 1,738,125 \\ \hline \end{array}$ | $\begin{array}{r} 12,597,870 \\ 1,729,637 \end{array}$ | $\begin{array}{r} 15,652,432 \\ 1,720,748 \end{array}$ | $\begin{array}{r} 19,067,001 \\ 1,712,645 \end{array}$ | $\begin{array}{r} 22,268,354 \\ 1,703,920 \end{array}$ | $\begin{array}{r} 23,359,799 \\ 1,695,257 \end{array}$ |
| Net income applicable to stockholders' investment <br> Provision for Federal income and profits taxes. | $7,938,963$ 575,813 | $12,947,918$ $4,814,769$ | $7,141,402$ $1,273,452$ | $\begin{aligned} & 8,576,097 \\ & 1,054,663 \end{aligned}$ | $\begin{array}{r} 11,321,469 \\ 1,555,274 \\ \hline \end{array}$ | $\begin{array}{r} 10,903,306 \\ 1,232,432 \end{array}$ | $\begin{array}{r} 10,868,233 \\ 1,259,437 \end{array}$ | $\begin{array}{r} 13,931,684 \\ 1,685,411 \end{array}$ | $\begin{array}{r} 17,354,356 \\ 2,149,368 \end{array}$ | $\begin{array}{r} 20,564,434 \\ 2,804,002 \end{array}$ | $\begin{array}{r} 21,664,542 \\ 2,921,147 \end{array}$ |
| Net income for the ye <br> Surplus beginning of year.. | $\begin{array}{r} 7,363,150 \\ 12,978,127 \end{array}$ | $\begin{array}{r} 8,133,149 \\ 15,700,219 \end{array}$ | $\begin{array}{r} 5,867,950 \\ 18,817,964 \end{array}$ | $\begin{array}{r} 7,521,434 \\ 19,670,510 \end{array}$ | $\begin{array}{r} 9,766,195 \\ 22,230,052 \end{array}$ | $\begin{array}{r} 9,670,874 \\ 26,525,958 \end{array}$ | $\begin{array}{r} 9,608,796 \\ 30,655,075 \end{array}$ | $\begin{aligned} & 12,246,273 \\ & 34,648,891 \\ & \hline \end{aligned}$ | $\begin{aligned} & 15,204,988 \\ & 40,420,722 \end{aligned}$ | $\begin{aligned} & 17,760,432 \\ & 46,163,328 \end{aligned}$ | $\begin{aligned} & 18,743,395 \\ & 47,818,268 \end{aligned}$ |
| Tot | 20, 341, 277 | 23, 833, 368 | 24, 685, 914 | 27, 191, 944 | 31, 996, 247 | 36, 196, 832 | 40, 263, 871 | 46, 895, 164 | 55, 225,710 | 63, 923, 760 | 66, 561, 663 |
| Less dividends paid onCommon stock in cash | 3, 439, 424 | 3, 439, 424 | 3, 439, 424 | 3, 414, 513 | 3, 891, 309 | 3, 965, 775 | 4, 038, 993 | 4, 898, 455 | 8, 026, 395 | $9,128,205$ $5,401,300$ | $10,041,050$ $5,941,450$ |
| Preferred stock in cash. | 1, 201, 634 | 1,575,980 | 1,575,980 | 1,579, 267 | 1,586, 480 | 1, 587,982 | 1,587, 987 | 1, 587, 987 | 1,590,720 | 1,575, 987 | 1,575, 987 |
| To | 4, 641, 058 | 5, 015, 404 | 5, 015, 404 | 4, 994, 480 | 480, 78 | 5, 553, 757 | 5, 626, 980 | 6, 486, 442 | 9, 617, 115 | 16, 105, 492 | 17, 558, 487 |
| Other additions or deductions (net) |  |  |  | ${ }^{2} 32,588$ | ${ }^{2} 10,500$ | ${ }^{2} 12,000$ | ${ }^{2} 12,000$ | ${ }^{2}$ 12,000 | ${ }^{2} 154,733$ |  |  |
| Surplus end of yea | 15, 700, 219 | 18, 817, 964 | 19,670, 510 | 22, 230, 052 | 26,525, 958 | 30, 655, 075 | 34, 648, 891 | 40, 420, 722 | 46, 163, 328 | 47,818, 268 | 49, 003, 176 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$216, 188, 517 | \$232, 936, 301 | \$226, 558, 711 | \$206, 741, 789 | \$190, 726, 536 | \$197, 953, 018 | \$226, 123, 458 | \$219, 732, 636 | \$234, 892, 347 | \$240, 503, 431 | \$3, 985, 392, 987 |
| Distribution and administrative expenses. | 173, 265, 293 | 183, 752, 601 | 172, 222, 731 | 150, 621, 801 | 135, 051, 290 | 160, 932, 383 | 181, 159, 56\% | 178, 937, 982 | 185, 887, 810 | 193, 543, 740 | 3, 157, 842, 865 |
|  | 20, 165, 210 | 22, 463, 940 | 25, 814, 269 | 29, 072, 483 | 29, 172, 539 | 18,589, 516 | 22, 439, 862 | 21, 364, 768 | 20, 913, 796 | 22, 362, 795 | 416, 499, 360 |
| Total operating expenses.......-- | 193, 430, 503 | 206, 216, 541 | 198, 037, 000 | 179, 694, 284 | 164, 223, 829 | 179, 521, 899 | 203, 599, 429 | 200, 302, 750 | 206, 801, 606 | 215, 906, 535 | 3, 574, 342, 225 |
| Ňet profit on sales. <br> Other income (net) | $\begin{array}{r} 22,758,014 \\ 658,615 \end{array}$ | $\begin{array}{r} 26,719,760 \\ 16,354 \end{array}$ | $\begin{array}{r} 28,521,711 \\ 516,446 \end{array}$ | $\begin{array}{r} 27,047,505 \\ 1,019,271 \end{array}$ | $\begin{array}{r} 26,502,707 \\ 1,979,366 \end{array}$ | $\begin{array}{r} 19,431,119 \\ 2,450,904 \end{array}$ | $\begin{array}{r} 22,524,029 \\ 2,200,768 \end{array}$ | $\begin{array}{r} 19,429,886 \\ 1,352,335 \end{array}$ | $\begin{array}{r} 28,090,741 \\ 1,642,764 \end{array}$ | $\begin{array}{\|} 24,596,896 \\ \leftarrow \quad 1,829,749 \end{array}$ | $\begin{array}{r} 411,050,762 \\ 13,102,247 \end{array}$ |
| Net income applicable to total investment. | 23, 416, 629 | 26, 713, 406 | 29, 038, 157 | 28, 066, 776 | 29, 482, 093 | 20, 882, 023 | 24, 724.797 | 20,782, 221 | 29, 733, 505 | 26, 426, 645 | 424, 153, 009 |
| Less interest on long-term debt <br> Net income applicable to stockholders' investment | 1,686, 892 | 1,678, 054 | 1,668,867 | 1,660, 467 | 1,582, 176 | 1, 417, 411 | 1,346,969 | 1,343, 217 | 1, 330, 932 | 1, 323, 778 | 37, 713, 116 |
|  | 21, 729, 737 | $25,035,352$ | 27, 369, 290 | 26, 406, 309 | 26, 899, 917 | 19, 464, 612 | 23, 377, 828 | 19, 439, 004 | 28, 402, 573 | 25, 102, 867 | 386, 439,893 |
| Provision for Federal income and profits taxes. | 2,321, 093 | 2, 758, 020 | 3, 277, 047 | 3,150,777 | 3, 656, 885 | 2, 469, 244 | 3, 139, 167 | 2,582, 460 | 4,194,941 | 3, 727, 307 | 52,602, 709 |
| Surplus beginning of year................ | 19, 408, 644 | 22, 277, 332 | 24,092, 243 | 23, 255, 532 | 23, 243, 032 | 16, 995, 368 | 20, 238, 661 | 16, 856, 544 | 24, 207, 632 | 21,375,560 | 333, 837, 184 |
|  | 49, 003, 176 | 53, 987, 708 | 20, 739, 403 | 28, 447, 720 | 34, 273, 920 | 40, 128, 100 | 39, 498, 617 | 42, 686, 771 | 40, 262, 751 | 41, 050, 623 |  |
| Tota | 68,411, 820 | 76, 265, 040 | 44, 831,646 | 51, 703, 252 | 57, 516, 952 | 57, 123, 468 | 59, 737, 278 | $59,543,315$ | 64, 470, 383 | 62, 426, 183 |  |
| Less dividends paid onCommon stock in cash Common stock in stoc | 13 | 15,071 | 14, 639, 189 | 15,684, |  | 15, 6 | 15 | 15,684, 695 | 21, 958, 573 | 18, 821,634 | 217, 711, 038 |
|  |  |  |  |  |  |  |  |  |  |  | 11, 342, 750 |
|  | 1,575,987 | 1,575, 987 | 1, 575,987 | 1,575,987 | 1,575, 987 | 1, 549, 306 | 1,515, 531 | 1,461, 187 | 1, 461, 187 | 1,461, 187 | 32, 355, 024 |
| Total <br> Goodwill and other intangibles written off | 14,647, 177 | 14,647, 177 | 16,215, 176 | 17, 260, 582 | 17,260, 602 | 17, 234 | 37, 200, 226 | 17, 145, 882 | 23, 419, 760 | 20,282, 821 | 261, 408, 812 |
|  |  | 40, 709, 710 |  |  |  |  |  | 55,000 |  |  | 41, 764, 710 |
|  | ${ }^{2} 223,065$ | 168,750 | 168,750 | 168,750 | 128, 250 | 390, 850 | ' 149, 719 | 2, 079,682 |  |  | 2, 498, 427 |
| Surplus end of ye | 53, 987, 708 | 20, 739,403 | 28, 447, 720 | 34, 273, 920 | 40, 128, 100 | $39,498,617$ | 42, 686, 771 | 40,262, 751 | 41, 050, 623 | 42, 143, 362 |  |

[^32]Appendix Table 3.-SSumary of investments, profits, and rates of return for R.J. Reynolds Tobacco Co., 1917-37

|  | 1916 | 917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 192 | 192 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stoc | \$2,500,000 |  |  |  |  |  |  |  | 20,000, |  |  |  |
| Comm | 10,000,000 | 10,000,000 | 20,000,000 | 20,000,000 | 60,000,000 | 60,000,000 | 80,000,000 | 80,000,000 | 80,000,000 | \$80,000,000 | \$80,000,000 | \$100,000,0 |
| , | 12, 500, 000 | 20, 000,000 | 30, 000, 000 | 30,000,000 | 80,000, 000 | 80, 000,000 | 100, 000,000 | 100, 000, 000 | 100, 000, 000 | ${ }^{80,000,000}$ | 80, 000, | 100, 000,000 |
| 4. Surplus-carned an | 16, 7777,369 | 23, 806, 464 | 27, 9199,227 | 36, 171,981 | 2, 064, 102 | 12, 122,425 | 4, 915 , 221 | 16, 955,097 | 29, 732, 814 | 39, 154, 393 | 50, 203, | 40,696,775 |
| 5. Surplus and contingency reserv | 717, 485 | 05, 505 | 710, 109 | 1,271, 323 | 1,321, 912 | 1,321, 912 | 742,837 | 1, 540, 717 | . $1,165,449$ | 1,764, 490 | 1,686, 78 | 1,009, 060 |
| profts taxes. | 173,785 | 1,888,756 | 8, 528, 256 | 4, 214, 217 | 2,831,485 | 7, 203, 653 | 3, 108, 103 | 3, 555, 327 | 3,647, 301 | 3,775,461 | 4, 468, 673 | 5, 177, 460 |
| 7. Capital stock | 30, 138, 639 | 46,000, 725 | 67, 237, 592 | 71, 657, 521 | 86, 217, 499 | 100, 647, 990 | 108, 766, 161 | 122, 051, 141 | 134, 545, 564 | 124, 694, 344 | 136, 359, 25 | 147, 7 |
| Less: |  |  |  |  |  |  |  |  |  |  |  |  |
| Goodwill, appreciation, and other intancibles................ | 1,222,795 | 1,179, 047 | 1,222, 926 | 1, 207, 416 | 1,307, 583 | 1,357, 737 | 1,362,907 | 1,313, 291 | 1,319,091 | 1,317,891 | 1,316,69 |  |
| 10. Stockbolders ${ }^{\text {s investmen }}$ | 28, 915, 844 | 44, 821,678 | 66, 014, 666 | 70 | 84, | 99, 290, 253 | 107, 403, 254 | 120, 737, 850 | 133, 226, 473 | 123, 376, 453 | 135, 042, 5 | 147, 783, 2 |
| 11. Long-ter |  |  |  | 15, | 15, | 1,700,000 | 87,000 |  |  |  |  |  |
| Total i | 28, 915, 844 | 44, 821, 678 | 66, 014, 666 | 85, 450, 105 | 99, 990, 9 | 100, 990, 253 | 107, 490, 2 | 120, 737, 8 | 133, 226, 473 | 123, 376,453 | 135, 042, 5 | 147, 783, 294 |
| 13. Average of total investn |  | 36, 868, 761 | 55, 418, 172 | 75, 732, 385 | 92, 680, 010 | 100, 450, 085 | 104, 240, 254 | 114, 114, 052 | 126, 982, 162 | 128, 301, 463 | 129, 209, 508 | 141, 412, 928 |
| 14. A verage of stockholders' investment 1, |  | 30, 868, 761 | 55, 418, 172 | 68, 232, 385 | 77, 680, 012 | 92, 100,085 | 103, 346, 754 | 114, 070, 552 | 126, 982, 162 | 128, 301, 463 | 129, 209, 508 | 141, 412, 928 |
| 15. Average of common stockhol equity ${ }^{1}$ |  |  |  | 58, 232, 385 | 62, 680, 012 | 72, 100,085 | 83, 346, 754 | 94, 070, 552 | 106, 982, 162 |  |  |  |
| Net income before deducting |  |  |  |  | 6,60, 01 | 2,10,0s | ¢, $\lrcorner$, |  |  |  |  |  |
| 16. Applicable to total investmen |  | 12, | 15,571,019 | 15, 923, 471 | 14, 257, 273 | 24, 642, 984 | 24, 646, 565 | 26, 595, 203 | 25, 024, 889 | 28, 443, 272 | 30,633, 0 | 34, 041, |
| 17. Applicable to stockhold |  |  |  |  |  |  |  |  |  |  |  |  |
| Applicable to common |  |  | 15, 571,019 | 15,486,971 | 13, 357, 273 | 24, 177,021 | 24, 612,410 | 26, 595, 203 | 25, 024, 989 | 28, 443, 272 | 30, 633, 073 | 34, 041, |
| holders' equity |  | 11, 747, 851 | 14, 871, 019 | 14, 786, 971 | 11, 957, 273 | 22,777, 022 | 23, 212, 410 | 25, 195, 203 | 23, 624, 989 | 27, 043, 272 | 30, 633, 073 | 34, 041, 24 |
|  |  |  | 28.10 |  |  |  |  |  |  |  | 23.71 | 24.0 |
| Rate of return on stockholders ${ }^{\prime}$ invest- |  |  |  |  |  |  |  |  |  |  |  |  |
| te of return |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | $\begin{aligned} & \text { Annual } \\ & \mathrm{a} \quad \mathrm{ge} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital slock: |  |  |  |  |  |  |  |  |  |  |  |
| 2. ${ }^{\text {1. }}$ Commerer | \$100, 000,000 | \$100, 000, 000 | \$100, 000, 000 | \$100, 000, 000 | \$100, 000, 000 | \$100, 000,000 | \$100, 000,000 | \$100, 000, 000 | \$100, 000,000 | \$100, 000,000 |  |
| -3. Total...........-. | $100,000,000$ $44,869,338$ | $100,000,000$ $51,579,859$ | $100,000,000$ $55, ~ 836, ~ 524$ | $100,000,000$ $62,233,341$ $2,23,711$ | $100,000,000$ $65,908,141$ | $100,000,000$ $57,061,863$ | $\begin{array}{r} 100,000,000 \\ 48.598,757 \end{array}$ | $\begin{array}{r} 100,000,000 \\ 42,495,155 \end{array}$ | $\begin{array}{r} 100,000,000 \\ 41,748,290 \end{array}$ | $\begin{array}{r} 100,0 n 0,0 \cap 0 \\ 40,850,662 \end{array}$ |  |
| 5. Surplus and contingency rese | 4,851,139 | 1, 829, 523 | 1, 739, 725 | 2, 403, 711 | 8, 149,446 | 3, 102, 397 | 3, 839, 489 | 2, 339, 475 | 3, 433, 229 | 4, 388, 110 |  |
| 6. Reserve for Federal income and profits taxes. | 4, 262, 992 | 4, 218, 412 | 5, 024, 385 | 5, 624, 8.52 | 6, 263, 236 | 1,866, 958 | 3, 405, 501 | 4, 108,683 | 5,901, 512 | ¢, 403, 846 |  |
| 7. Capital stock and surplus Less: | 150, 983, 469 | 157, 627, 794 | 162, 600,634 | 170, 261, 904 | 180, 320, 823 | 162, 031, 218 | 155, 843, 747 | 148, 943, 313 | 151, 083, 031 | 150, 642, 618 |  |
| 8. Treasury stock at cost (common)... | 607, 201 | 19, 282, 048 | 9, 135,600 | 13, 093, 740 | 18, 009, 896 | 10, 120, 000 | 10, 120, 000 | 10, 120, 000 | 10, 120, 000 | 10, 120, 000 |  |
| 9. Goodwill, appreciation, and other |  |  |  |  |  |  |  |  |  | 1 |  |
| 10. Stockbolders | 150, 376, 267 | 138, 345, 745 | 153, 465, 033 | 157, 168, 163 | 162, 310, 926 | 151, 911, 217 | 145, 723, 746 | 138, 823, 312 | 140, 963, 030 | 140, 522, 617 |  |
| 12. Total investmen | 150, 376, 267 | 138, 345, 745 | 153, 465, 033 | 157, 168, 163 | 162, 310, 926 | 151, 911, 217 | 145, 723, 746 | 138, 823, 312 | 140, 963, 030 | 140, 522, 617 |  |
| 13. Average of total investment ${ }^{1}$.......-- | 149, 079, 781 | 144, 361, 006 | 145, 905, 389 | 155, 316, 598 | 159, 739, 545 | $157,111.072$ | $148,817,482$ $148,817,482$ | $142,273,529$ <br> 142 <br> 273,529 | $139,893,171$ | $140,742,824$ | $5123,269,056$ |
| 14. Average of stockholders' investment ${ }^{\text {1 }}$, ${ }^{\text {a }}$, | 149, 079, 781 | 144, 361, 006 | 145, 905, 389 | 155, 316, 598 | 159, 739, 545 | $157,111,072$ | 148, 817, 482 | 142, 273, 529 | 139, 893, 171 | $140,742,824$ | 121, 755, 389 |
| equity | 149, 079, 781 | 144, 361, 006 | 145, 905, 389 | 155, 316, 598 | 159, 739, 545 | 157, 111, 072 | 148, S17, 482 | 142, 273, 529 | 139, 893, 171 | 140, 742, 824 | 115, 505. 389 |
| income and profits taxes: |  |  | 17 | 45, 149,60 | 41, 707, 202 | 19,502, 421 | 26, 303, 300 | 29,506,646 | 34, 995, 370 | 33, 594, 125 | 28, 418, 071 |
| 16. Applicable to total investment. <br> 17. Applicable to stockholders' in- |  |  |  | 45, 249, ${ }^{\text {45, }} 149$ | 41, 707, 202 | 19, 502, 421 | 26, 303, 300 | 29,506, 646 | 34, 995,370 | 33, 594, 125 | 28, 330, 613 |
| 18. Applicable to common stock- <br> holders' equity | 33, 148, 208 | 39, 720, 162. | 42, 144, 172 | 45, 149, 696 | 41, 707, 202 | 19, 502, 421 | 26, 303, 300 | 29,506, 646 | 34, 995, 370 | 33, 594, 125 | 27, 841,030 |
| Rate of return on total investment <br>  | 22.24 |  | 28 | . 07 | 26.11 | 2.41 | 7. 67 | 20.74 | 25.02 | 23.87 | 23.05 |
| Rate of return on stockholders investment ( $17 \div 14$ ) percent | 22.24 | 26.82 | 28.88 | . 07 | 6. 11 | 2.41 | 7.67 | 0. 47 | 5.02 | 23.87 | 23. 27 |
| Rate of return on common stockholders' equity $(18 \div 15) \ldots \ldots$........................ | 22.24 |  | 8 |  | 26.11 | 12.41 | 17.67 | 20. 74 | 25.02 | 23.87 | 24.10 |

${ }^{1}$ A verage of investment at beginning and end of year.
Appendix Table 3a.-Summary of income, expenses, and surplus for R. J. Reynolds Tobacco Co., 1917-s7

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net salcs | \$83, 537, 850 | \$128, 496, 211 | \$188, 115, 324 | \$195, 312, 210 | \$187, 730, 156 | \$100, 658, 527 | \$233, 516, 345 | \$238, 745, 043 | \$255, 086, 334 | \$279, 815, 715 | \$281, 623, 053 |
| Cost of goods sold Distribution and administrative expenses | $\begin{array}{r} \hline 67,407,150 \\ 3,636,672 \end{array}$ | $\begin{array}{r} 109,218,997 \\ 3,090,975 \end{array}$ | $\begin{array}{r} 162,609,398 \\ 8,969,209 \end{array}$ | $\begin{array}{r} \hline 69,427,629 \\ 10,992,416 \end{array}$ | $\begin{array}{r} 149,180,709 \\ 14,007,809 \end{array}$ | $\begin{array}{r} 155,036,191 \\ 10,019,091 \end{array}$ | $\begin{array}{r} 195,669,335 \\ 11,658,385 \end{array}$ | $\begin{array}{r} \hline 201,299,881 \\ 13,281,773 \end{array}$ | $\begin{array}{r} 212,832,305 \\ 15,640,183 \end{array}$ | $\begin{array}{r} 225,364,173 \\ 24,242,769 \end{array}$ | $\begin{array}{r} 221,151,887 \\ 28,460,885 \end{array}$ |
| Total operating e | 71,043, 822 | 112, 309, 972 | 171, 578, 607 | 180, 420, 045 | 163, 197, 518 | 166, 855, 282 | 207, 327, 720 | 214, 581, 654 | 228, 472, 488 | 249, 606, 942 | 249, 612, 722 |
| Net profit on sales. Other income (net) | $\begin{array}{r} 12,494,028 \\ : 264,927 \end{array}$ | $\begin{array}{r} 16,186,239 \\ 1615,220 \end{array}$ | $\begin{array}{r} 16,536,717 \\ 1613,246 \end{array}$ | $\begin{array}{r} 14,892,165 \\ 1634,892 \end{array}$ | $\begin{array}{r} 24,532,638 \\ 110,346 \end{array}$ | $\begin{array}{r} 23,803,245 \\ 843,320 \end{array}$ | $\begin{array}{r} 26,188,625 \\ 406,578 \end{array}$ | $\begin{array}{r} 24,163,389 \\ 861,600 \end{array}$ | $\begin{array}{r} 27,513,846 \\ 929,426 \end{array}$ | $\begin{array}{r} 30,208,773 \\ 424,300 \end{array}$ | $\begin{array}{r} 32,010,331 \\ 2,030,911 \end{array}$ |
| Net income applicable to total in: vestment <br> Less interest on long term debt | 12, 229, 101 | 15, 571, 019 | $\begin{array}{r} 15,923,471 \\ 436,500 \end{array}$ | $\begin{array}{r} 14,257,273 \\ 000,000 \end{array}$ | $\begin{array}{r} 24,642,984 \\ 465,962 \end{array}$ | $\begin{array}{r} 24,646,565 \\ 34,155 \end{array}$ | 26, 595, 203 | 25, 024, 989 | 28,443, 272 | 30, 633, 073 | 34,041, 242 |
| Net income applicable to stockbolders' investment. <br>  | $\begin{array}{r} 12,229,101 \\ 1,888,756 \end{array}$ | $\begin{array}{r} 15,571,019 \\ 8,528,256 \end{array}$ | $\begin{array}{r} 15,486,971 \\ 4,214,217 \end{array}$ | $\begin{array}{r} 13,357,273 \\ 2,831,485 \end{array}$ | $\begin{array}{r} 24,177,022 \\ 7,203,653 \end{array}$ | $\begin{array}{r} 24,612,410 \\ 3,108,103 \end{array}$ | $\begin{array}{r} 26,595,203 \\ 3,555,327 \end{array}$ | $\begin{array}{r} 25,024,989 \\ 3,647,301 \end{array}$ | $\begin{array}{r} 28,443,272 \\ 3,775,461 \end{array}$ | $\begin{array}{r} 30,633,073 \\ 4,468,674 \end{array}$ | $\begin{array}{r} 34,041,242 \\ 4,917,771 \end{array}$ |
| Net income for the $y$ Surplus beginning of year. | $\begin{aligned} & 10,340,345 \\ & 16,747,369 \end{aligned}$ | $\begin{array}{r} 7,042,763 \\ 23,806,464 \end{array}$ | $\begin{aligned} & 11,272,754 \\ & 27.999,227 \end{aligned}$ | $\begin{aligned} & 10,525,788 \\ & 36,171,981 \end{aligned}$ | $\begin{array}{r} 16,973,369 \\ 2,064,102 \end{array}$ | $\begin{aligned} & 21,504,307 \\ & 12,122,425 \end{aligned}$ | $\begin{array}{r} 23,039,876 \\ 4,915,221 \end{array}$ | $\begin{aligned} & 21,377,688 \\ & 16,955,097 \end{aligned}$ | $\begin{array}{r} 24,667,811 \\ 29,732,814 \end{array}$ | $\begin{aligned} & 26,164,399 \\ & 39,154,393 \end{aligned}$ | $\begin{aligned} & 29,123,471 \\ & 50,203,796 \end{aligned}$ |
| Tot | 27, 087, 714 | 30, 849, 227 | 39, 271, 881 | 46,697, 769 | 19, 037, 471 | 33, 626, 732 | 27, 955,097 | 38, 332, 785 | 54, 400, 625 | 65, 318, 792 | 79, 327, 267 |
| Less dividends paid onCommon stock in cash Common stock in stock Preferred stock in cash | $\begin{array}{r}2,800,000 \\ \hline 481,250\end{array}$ | $2,150,000$ 7000,000 | $2,400,000$ 7000,000 | $\begin{array}{r} 3,800,000 \\ 40,000,000 \\ 1,400,000 \end{array}$ | 4, 800,000 1, 400,000 | $\begin{array}{r} 7,800,000 \\ 20,000,000 \\ 1,400,000 \end{array}$ | $9,600,000$ $1,400,000$ | $9,600,000$ $1,400,000$ | $10,400,000$ $1,400,000$ | 15,200, 000 | $\begin{aligned} & 26,000,000 \\ & 20,000,000 \end{aligned}$ |
| Total <br> Federal income-tax refund | 3,281, 250 | 2, 850, 000 | 3, 100, 000 | $\begin{array}{r} 45,000,000 \\ i 200,827 \end{array}$ | 6,200 | $\begin{aligned} & 29,200,000 \\ & 21,513,562 \end{aligned}$ | 11,000,000 | 11,000, 000 | 11,800,000 | 15, 200,000 | $\begin{array}{r} 46,000,000 \\ 28,744,739 \end{array}$ |
| Loss from damaged tobacco <br> Premium on retirement of preferred stock |  |  |  |  | 649, 4 | 1,007, 698 |  |  | 4,000,000 |  |  |
| Goodwill and other intangibles written' off <br> Other additions or deductions (net) |  |  |  | ${ }^{2} 165,506$ | 65, 592 | 17,375 |  | 2, 400,029 | -553,768 | 285.004 | $\begin{array}{r} 1,332,426 \\ 42,805 \end{array}$ |
| Surplus end of the $y$ | 23, 806, 463 | 27, 999. 227 | 36, 171,981 | 2,064, 102 | 12, 122, 425 | 4, 915, 221 | 16, 955, 097 | 29, 732, 814 | 39, 154, 393 | 50, 203, 796 | 40,696, 775 |

[^33]|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| sal | \$262, 257, 472 | \$265, 909, 101 | \$266, 591, 068 | \$258, 077, 426 | \$192, 714, 619 | \$166, 344, 014 | \$217, 616, 507 | \$250, 635, 962 | \$289, 313, 165 | \$302, 999, 161 | \$4, 735, 995, 263 |
| Cost of good sold <br> Distribution and administrative expenses | $\begin{array}{r} 207,581,381 \\ 22,542,334 \end{array}$ | $\begin{array}{r} 211,754,722 \\ 15,971,460 \end{array}$ | $\begin{array}{r} 205,035,370 \\ 20,002,145 \\ \hline \end{array}$ | $\begin{array}{r} 191,956,793 \\ 20,927,821 \end{array}$ | $\begin{array}{r} 136,145,881 \\ 15,510,855 \\ \hline \end{array}$ | $\begin{array}{r} 134,707,970 \\ 12,961,317 \end{array}$ | $\begin{array}{r} 173,268,137 \\ 18,668,549 \end{array}$ | $\begin{array}{r} 202,279,882 \\ 19,408,529 \\ \hline \end{array}$ | $\begin{array}{r} 230,383,088 \\ 24,291,857 \end{array}$ | $\begin{array}{r} 244,881,642 \\ 24,330,988 \end{array}$ | $\begin{array}{r} 3,808,101,461 \\ 339,516,022 \end{array}$ |
| Total operating expenses | 230, 123, 705 | 227, 726, 182 | 225, 037, 515 | 212, 884, 614 | 151, 656, 736 | 147, 669, 287 | 191, 936, 686 | -221, 688, 411 | 254, 674, 945 | 269, 212, 630 | 4, 147, 617,483 |
| Net profit on sales. Other income (net). | $\begin{array}{r} 32,133,767 \\ 1,014,441 \end{array}$ | $\begin{array}{r} 38,182,919 \\ 537,243 \\ \hline \end{array}$ | $\begin{array}{r} 41,553,553 \\ 590,619 \\ \hline \end{array}$ | $\begin{array}{r} 45,192,812 \\ \quad 143,116 \end{array}$ | $\begin{array}{r} 41,057,883 \\ 649,319 \\ \hline \end{array}$ | $\begin{array}{r} 18,674,727 \\ 827,694 \\ \hline \end{array}$ | $\begin{array}{r} 25,679,831 \\ 623,479 \\ \hline \end{array}$ | $\begin{array}{r} 28,947,551 \\ 659,095 \\ \hline \end{array}$ | $\begin{array}{r} 34,638,220 \\ 357,150 \\ \hline \end{array}$ | $\begin{array}{r} 33,786,631 \\ 1 \\ 192,406 \\ \hline \end{array}$ | $\begin{array}{r} 588,377,780 \\ 8,401,714 \end{array}$ |
| Net income applicable to total investment <br> Less interest on long-term debt.............. | 33, 148, 208 | 38, 720, 162 | 42, 144, 172 | 45, 149, 696 | 41, 707, 202 | 19, 502, 421 | 26, 303, 300 | 29, 506, 646 | 34, 995, 370 | 33, 594, 125 | $\begin{array}{r} 596,779,494 \\ 1,836,617 \end{array}$ |
| Net income applicable to stockholders' investment <br> Provision for Federal income and profits taxes | $\begin{array}{r} 33,148,208 \\ 4,258,543 \end{array}$ | $\begin{array}{r} 38,720,162 \\ 4,218,412 \\ \hline \end{array}$ | $\begin{array}{r} 42,144,172 \\ 5,024,385 \\ \hline \end{array}$ | $\begin{array}{r} 45,149,696 \\ 5,624,852 \end{array}$ | $\begin{array}{r} 41,707,202 \\ 6,263,236 \end{array}$ | $\begin{array}{r} 19,502,421 \\ 1,866,958 \end{array}$ | $\begin{array}{r} 26,303,300 \\ -\quad 3,405,501 \\ \hline \end{array}$ | $\begin{array}{r} 29,506,646 \\ 4,101,465 \\ \hline \end{array}$ | $\begin{array}{r} 34,995,370 \\ 6,140,426 \end{array}$ | $\begin{array}{r} 33,594,125 \\ 5,378,099 \end{array}$ | $\begin{array}{r} 594,942,877 \\ 94,420,881 \end{array}$ |
| Net income for the year Surplus beginning of year. | $\begin{aligned} & 28,889,665 \\ & 40,696,775 \end{aligned}$ | $\begin{aligned} & 34,501,750 \\ & 44,869,338 \end{aligned}$ | $\begin{array}{r} 37,119,787 \\ 51,579,859 \\ \hline \end{array}$ | $\begin{aligned} & 39,524,844 \\ & 55,836,524 \end{aligned}$ | $\begin{aligned} & 35,443,966 \\ & 62,233,341 \end{aligned}$ | $\begin{aligned} & 17,635,463 \\ & 65,908,141 \end{aligned}$ | $\begin{array}{r} 22,897,799 \\ 57,061,863 \\ \hline \end{array}$ | $\begin{array}{r} 25,405,181 \\ 48,598,757 \\ \hline \end{array}$ | $\begin{aligned} & 28,854,944 \\ & 42,495,155 \end{aligned}$ | $\begin{aligned} & 28,216,026 \\ & 41,748,290 \\ & \hline \end{aligned}$ | 500, 521, 996 |
| ot | 69, 586, 440 | 79,371,088 | 88, 699, 646 | 95, 361, 368 | 97, 677, 307 | 83, 543, 604 | 79, 959, 662 | 74, 003, 938 | 71,350, 099 | 69, 964, 316 |  |
| Less dividends paid onCommon stock in cash Preferred stock in cash. Common stock in stock | 26, 000, 000 | 25, 500, 000 | 30,000, 000 | 30,000, 000 | 30,000,000 | 30,000, 000 | 30,000,000 | 30,000, 000 | 30,000,000 | 28,500,000 | $\begin{array}{r} 384,350,000 \\ 80,000,000 \\ 10,281,250 \end{array}$ |
| Total <br> Federal income tax refunds <br> Loss from damaged tobacco | 26,000, 000 | 25, 500, 000 | 30, 000, 000 | 30,000, 000 | 30, 000, 000 | 30,000, 000 | 30,000,000 | 30, 000, 000 | 30,000, 000 | 28,500, 000 | $\begin{array}{r} 474,631,250 \\ 10,459,128 \end{array}$ |
| Premium on retirement of preferred stock |  |  |  |  |  |  |  |  |  | 613, 654 | 2, 270,808 |
| Goodwill and other intangibles written off. |  |  |  |  |  |  |  |  |  |  | 4, 000, 000 |
| Other additions or deductions (net) | 11, 282, 898 | 2,291, 229 | 2, 863,122 | 3, 128, 027 | 1, 769, 166 | ${ }^{1} 3,518,259$ | 1,360, 905 | 1,508,783 | ${ }^{2} 398,191$ |  | $\begin{aligned} & 1,332,428 \\ & 4,643,349 \end{aligned}$ |
| Surplus end of the year | 44, 869, 338 | 51, 579, 859 | 55, 836, 524 | 62, 233, 341 | 65, 808,141 | 57, 061, 863 | 48, 598, 757 | 42, 495, 155 | 41, 748, 290 | 40, 850, 662 |  |

1 Denotes loss.
${ }^{2}$ Additions to surplus.
Appendix Table 4.-Summary of investments, profits, and rates of return for P. Lorillard Co., 1917-97

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\text {Capital Stock: }}$ | \$11, 307, 600 | \$11, 307,600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 | \$11, 307, 600 |
| 1. $2 . \quad$ Comme | 15, 155,600 | 15, 155, 600 | 24, 248, 920 | 24, 248,920 | 30, 306, 420 | 30, 306, 420 | 30, 306, 420 | 30, 306, 420 | 30, 306, 420 | 32, 166, 945 | 32, 810, 268 | 34, 131, 122 |
| 3. Total | 26, 463, 200 | 26, 463, 200 | 35, 556,520 | 35, 556, 520 | 41.614,020 | 41, 614, 020 $12,593,420$ | $41,614,020$ $14,673,330$ | $41,614,020$ $14,830,902$ | $41,614,020$ $12,440,373$ 1, | $43,474,545$ $13,586,324$ | 44, 117, 868 | $45,438.722$ $14,421,982$ |
| 4. Surplus-earned and capital. | $5,642,003$ 585,555 | $8,050,942$ $2,122,015$ | $7,164,878$ $4,203,183$ | $8,444,136$ 969,636 | $10,743,197$ $1,285,961$ | 12, 5936,331 | $\begin{array}{r}14,673,330 \\ 926 \\ \hline\end{array}$ | $\begin{array}{r}14,8397 \\ \hline\end{array}$ | 1, 461, 436 | -838,975 | 790, 760 | 1,165, 399 |
| 5. Surplus and contingency reserves <br> 6. Reserve for Federal income and profits taxes. | 585,555 101,000 | 2, 122, 240,280 | 2, 396,230 | 1,921, 126 | 1,257, 335 | 1,001,031 | 929,413 | 614, 465 | 1,51, 550,000 | 671,646 | 628,934 | 380, 539 |
| 7. Minority stockholders-cquity in subsidiary |  |  |  |  |  |  |  |  |  |  |  |  |
| 8. Capital stock and | 32, 791, 758 | 37, 876, 437 | 49, 320, 811 | 46, 891, 418 | 54, 900,513 | 56, 024, 802 | 58, 143, 536 | 57, 557, 097 | 29 | 58, 571, 490 | 58, 944, 099 | 61, 406, 642 |
| 9. Less goodwill, appreciation, and | 21, 132, 777 | 21, 132, 777 | 21, 132, 777 | 21, 137, 777 | 21, 137, 927 | 21, 137, 927 | 21, 147, 927 | 21, 147, 927 | 21, 149, 227 | 21, 223, 892 | 21, 228, 892 | 21, 270, 981 |
| 10. Stockholders' invest | 11, 658,981 | 16, 743, 660 | 28, 188, 034 | 25,753, 641 | 33, 762, 586 | 34, 886,875 | 36, 995, 609 | 36, 411, 170 | 34, 916, 602 | 37, 342, 598 | 37, 715, 207 | 40, 135, 661 |
| 11. Long term debt ${ }^{\text {d }}$ | 21, 144, 250 | 21,065,050 | 20, 977, 350 | 20, 888, 850 | 20, 795, 900 | 20, 701, 800 | 20,615,600 | 20. 529,950 | 20,445, 150 | 20, 358, 950 | 20, 275, 200 | 34, 337, 200 |
| 12. Total investmen | 32, 803, 231 | 37, 808, 710 | 49, 165, 384 | 46, 642, 491 | 54, 558, 486 | 55, 588, 675 | 57, 611, 209 | 56, 939, 120 | 55, 361, 752 | 57, 701, 548 | 57, 990, 407 | 74, 472, 861 |
| 13. Average of total investment |  | 35, 305, 971 | 43, 487, 047 | 47, 903, 937 | 50, 600, 488 | 55, 073, 580 | 56, 599, 942 | 57, 275, 164 | 56, 150, 436 | 56, 531, 650 | 57, 845, 977 | 66, 231,634 |
| 14. Average of stockholders' invest- |  | 14, 201, 320 | 22.465, 847 | 26, 970, 837 | 29. 758, 113 | 34, 324, 730 | 35, 941, 242 | 36, 702. 389 | 35.662, 886 | 36, 129,600 | 37, 528,902 | 38, 925, 431 |
| 15: Average of common stockholders' equity ${ }^{2}$ |  | 2, 893, 720 | 11, 158, 247 | 15, 663, $2: 37$ | 18, 450, 513 | 23, 017, 1:0 | 24,633,642 | 25, 394, 789 | 24, 355, 286 | 21,822,000 | 26, 221,302 | 27,617, 834 |
| Net income before deducting Federal income and profits taxes: 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16. Applicable to total investment. |  | 8, 291, 582 | 9, 136,545 | 7, 182, 760 | 8. 690,136 | 8, 447, 185 | 9, 099, 607 | 6. 901.289 | 6,974,046 | 7, 494,696 | 5,966, 565 | 4, 481,779 |
| 17. Applicable to stockholders' in- |  | 7,028, 479 | 7,880, 095 | 5, 932, 145 | 7,445, 276 | 7, 208, 324 | 7, 868, 444 | 5,676,042 | 5, 754, 837 | 6, 281, 431 | 4, 759, 198 | 2, 867, 787 |
| 18. Applicable to common stockholders' cquity. |  | 6, 236, 947 | 7, 088, 563 | 5, 140.613 | 6, 653, 744 | 6, 416, 792 | 7,076, 912 | 4, 884. 510 | 4, 963, 365 | 5, 489, 899 | 3,967, 666 | 2. 076,255 |
| Rate of return on total investment (16 $\div 13$ ) <br> percent |  | 23.48 | . 0 | 4. 99 | 17. 17 | 15.34 | 6. 08 | 12. | 12. 42 | 13.26 | 10. | 6.77 |
| Rate of return on stockholders' investment ( $17 \div 14$ ) ...........percent. |  | 49. 49 | 35.08 | 1. 98 | . 02 | . 00 | 1. 89 | 5. 4 | 16.14 | 17.39 | 12.6 | 7.37 |
| Rate of return on common stockholders' equity ( $18 \div 15$ ) .--percent. |  | 215.53 | 63.53 | 32.82 | 36.06 | 27.88 | 28.73 | 13. 23 | 20.38 | 22. 12 | 15.13 | 7.52 |


|  |  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Capital stock: |  |  |  |  |  |  |  |  |  |  |  |
| 2. | Common | $\$ 11,307,600$ $34,131,122$ | \$1, 307, 600 | \$11, 45031,602 | \$11, 307,600 | $\begin{array}{r} \$ 11,307,600 \\ 44,541,027 \end{array}$ | $\begin{aligned} & \$ 9,957,600 \\ & 18,886,709 \end{aligned}$ | $\begin{aligned} & \$ 9,800,000 \\ & 18,722,909 \end{aligned}$ | $\begin{aligned} & \$ 9,800,000 \\ & 18,722,909 \end{aligned}$ | $\begin{aligned} & \$ 9,800,000 \\ & 18,722,909 \end{aligned}$ | $\begin{aligned} & \$ 9,800,000 \\ & 18,722,909 \end{aligned}$ |  |
| 3. | Total | 45, 438, 722 | 56, 339, 202 | 56, 339, 202 | 56, 339, 202 | 55, 848, 627 , | 28, 844, 309 | 28, 522, 909 | 28, 522,909 | 28, 522,909 | 28,522,909 |  |
|  | Surplus, earned and capital.-- | 13, 843, 801 | 13, 753, 242 | -16, 576, 073 | 19, 585,158 | 19, 473, 228 | 16, 866, 640 | 14, 658, 647 | 14, 550, 445 | 14, 232, 338 | 13, 685, 860 |  |
|  | Surplus and contingency reser | 537,857 230,484 | 315,755 132,671 | 147,726 455,164 | 238, 1678 | 767, 758 | 305,656 <br> 96,288 | 180,967 482,035 | 185,888 508,182 | 157,988 567,028 | 446, 768 |  |
|  | Minority stockholders' equity in subsidiar |  |  |  |  |  | 60,937 | 61,608 | 56, 333 | 56, 53,513 | 54, 016 |  |
|  | Cap | 60, 050, 864 | 70,540,870 | 73, 518, 165 | 76, 835, 511 | 76, 432, 569 | 46, 173, 830 | 43, 906, 166 | 43, 823, 757 | 43, 533, 776 | 42, 709, 553 |  |
|  | bles | 21, 268,023 | 21, 268, 339 | 21, 268, 339 | 21, 268, 339 | 21, 268, 339 . | 1 | 1 | 1 | 1 |  |  |
|  | Stockholders' invest | 38,782, 841 | 49, 272, 531 | 52, 249, 829 | 55, 567, 172 | 55, 164, 230 | 46, 173, 829 | 43, 906, 165 | 43, 823, 756 | 43, 533, 775 | 42, 709, 552 |  |
|  | Long-term debt | 34, 340, 200 | 34, 337, 200 | 33, 142, 588 | 19, 833, 150 | 16, 428,450 | 15, 057, 450 | 14, 167, 250 | 13, 192, 250 | 11, 974, 250 | 11, 896, 950 |  |
|  | Total investment | 73, 123, 041 | 83, 609, 731 | 85, 392, 414 | 75, 400, 322 | 71, 592, 680 | 61, 231, 279 | 58,073, 415 | 57,016, 006 | 55, 508, 025 | 54, 606, 502 |  |
|  | Average of total investment ${ }^{2}$ | 73, 797, 951 | 78, 368,386 | 84, 501, 072 | 80, 396, 368 | 73, 496, 901 | 66, 411, 980 | 59, 652, 347 | 57, 544, 711 | 56, 262, 016 | 55, 057, 264 | 860, 404, 42 |
|  | A verage of stockholders' investment ${ }^{2}$ | 39, 459, 251 | 44,027, 686 | 50, 761, 178 | 53, 908, 499 | 55, 365, 701 | 50, 669, 030 | 45, 039, 997 | 43, 864, 961 | 43, 678, 766 | 43, 121, 664 | 38, 881, 334 |
|  | A rerage of common stockholders' equity ${ }^{2}$........ | 28, 151, 651 | 32, 720, 086 | 39, 453, 578 | 12, 600, 899 | 44, 058, 101 | 40, 036, 430 | 35, 161, 197 | 34, 064, 861 | $33,878,766$ | 33, 321, 664 | 27, 984, 525 |
|  | Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |
| 16. | Applicable to total investment. | 4, 091, 058 | 3, 914, 236 | 6, 071, 879 | 7, 315, 779 | 6, 390, 983 | 3, 557, 608 | 4, 276, 930 | 4, 378, 103 | 4, 765, 819 | 3, 374, 674 | 6, 228,727 |
|  | Applleable to stockholders' investment -..... | 2, 067,428 | 1, 459, 465 | 4, 093, 311 | 5, 542, 742 | 5, 280, 176 | 2,605, 813 | 3, 390, 740 | 3, 356, 142 | 4, 018, 530 | 2, 664, 712 | 4, 922,910 |
|  | Applicable to common stockholders'equity.- <br> Rate of return on total investent ( $16 \div 13$ ) | 1, 275, 896 | 667, 933 | 3, 301, 779 | 4, 751, 210 | 4, 542, 019 | 1, 911, 406 | 2, 704, 341 | 2, 870, 142 | 3, 332, 530 | 1, 978, 712 | 4, 158,627 |
|  | Ref percent.- |  | 4.99 | 7.19 | 9.10 | 8.69 | 36 | 17 | 7.61 | 8. 47 | 6. 1 | 10.31 |
|  | $(17 \div 14)$ $\qquad$ percent |  | 3. | 8.06 | 10.28 | 9. 54 | 5.14 | . 53 | 8.11 | 20 |  |  |
|  | Rate of return on common stockholders' equity $(18 \div 15) \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ | 4. 53 | 2.04 | 8.37 | 11.15 | 31 | 7 | 7.69 |  |  | 9 |  |

[^34]Appendix Table 4a.-Summary of income, expenses, and surplus, for P. Lorillard Co., 1917-37

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sa | \$60, 461, 068 | \$82, 612, 191 | \$78, 533, 021 | \$83, 841, 563 | \$84, 331, 874 | \$77, 300, 268 | \$65, 370, 236 | \$62,690, 779 | \$60, 628, 004 | \$56, 619, 217 | \$66, 880, 428 |
| Distribution and administrative expenses <br> Total operating expenses. | $\begin{aligned} & 42,575,396 \\ & 10,385,014 \end{aligned}$ | $\begin{aligned} & 61,007,114 \\ & 12,051,425 \end{aligned}$ | $\begin{aligned} & \hline 61,386,969 \\ & 10,239,409 \end{aligned}$ | $\begin{array}{r} \hline 66,592,677 \\ 8,928,689 \end{array}$ | $\begin{aligned} & 64,780,353 \\ & 11,237,983 \end{aligned}$ | $\begin{aligned} & 57,352,828 \\ & 11,767,358 \end{aligned}$ | $\begin{aligned} & 48,459,681 \\ & 10,942,345 \end{aligned}$ | $\begin{aligned} & 45,619,660 \\ & 10,747,188 \end{aligned}$ | $\begin{aligned} & 44,188,364 \\ & 10,170,174 \end{aligned}$ | $\begin{aligned} & 40,994,006 \\ & 10,421,603 \end{aligned}$ | $\begin{aligned} & 49,590,484 \\ & 13,902,970 \end{aligned}$ |
|  | 52, 960,410 | 73, 058, 539 | 71,626, 378 | 75, 521, 366 | 76, 018, 336 | 69, 120, 186 | 59, 402, 028 | 56, 366, 848 | 54, 358, 538 | 51, 415, 609 | 63, 493, 454 |
| Net proft on sales <br> Other income (net) $\qquad$ Net income applicable to total investment <br> Less interest on long-term debt. $\qquad$ | $\begin{array}{r} 7,500,658 \\ 790,924 \end{array}$ | $\begin{array}{r} 9,563,652 \\ 1417,107 \end{array}$ | $\begin{array}{r} 6,906,643 \\ 276,117 \end{array}$ | $\begin{array}{r} 8,320,197 \\ 369,939 \end{array}$ | $\left.\begin{array}{r} 8,313,538 \\ 133,647 \end{array} \right\rvert\,$ | $\begin{array}{r} 8,180,082 \\ 919,525 \end{array}$ | $\begin{array}{\|c} \hline 5,968,210 \\ 933,079 \end{array}$ | $\begin{array}{r} 6,323,931 \\ 650,115 \end{array}$ | $\begin{aligned} & 6,269,466 \\ & 1,225,230 \end{aligned}$ | $\begin{array}{r} 5,203,608 \\ 762,957 \end{array}$ | $\begin{aligned} & 3,395,974 \\ & 1,085,805 \end{aligned}$ |
|  | 8, 291, 582 <br> 1, 263, 103 | $\begin{aligned} & 9,136,545 \\ & 1,256,450 \end{aligned}$ | $\begin{aligned} & 7,182,760 \\ & 1,250,615 \end{aligned}$ | $\begin{aligned} & 8,690,136 \\ & 1,244,860 \end{aligned}$ | $\begin{aligned} & 8,447,185 \\ & 1,238,861 \end{aligned}$ | $\begin{aligned} & 9,099,607 \\ & 1,231,163 \end{aligned}$ | $\begin{aligned} & 6,901,289 \\ & 1,225,247 \end{aligned}$ | $\begin{aligned} & 6,974,046 \\ & 1,219,209 \end{aligned}$ | $\begin{aligned} & 7,494,696 \\ & 1,213,265 \end{aligned}$ | $\begin{aligned} & 5,966,565 \\ & 1,207,367 \end{aligned}$ | $\begin{aligned} & 4,481,779 \\ & 1,613,992 \end{aligned}$ |
| Net income applicable to stockboiders' investment. <br> Provision for Federal income and profits taxes. | 7, 028, 479 <br> $1,100,000$ | $\begin{aligned} & 7,880,095 \\ & 2,489,486 \end{aligned}$ | $\begin{array}{r} 5,932.145 \\ 951, . .9 \end{array}$ | $\begin{array}{r} 7,445,276 \\ 900,000 \end{array}$ | $\begin{array}{r} 7,208,324 \\ 930,000 \end{array}$ | $\begin{array}{r} 7,868,444 \\ 980,000 \end{array}$ | $\begin{array}{r} 5,676,042 \\ 638,000 \end{array}$ | $\begin{array}{r} 5,754,837 \\ 550,000 \end{array}$ | $\begin{array}{r} 6,281,431 \\ 640,000 \end{array}$ | $\begin{array}{r} 4,759,198 \\ 642,000 \end{array}$ | $\begin{array}{r} 2,867,787 \\ 377,000 \end{array}$ |
| Net income for the year Surplus beginning of year-.................................................... | $\begin{aligned} & 5,928,479 \\ & 5,642,003 \end{aligned}$ | $\begin{aligned} & 5,390,609 \\ & 8,050,942 \end{aligned}$ | $\begin{aligned} & 4,980,376 \\ & 7,164,878 \end{aligned}$ | $\begin{aligned} & 6,545,276 \\ & 8,444,136 \end{aligned}$ | $\begin{array}{r} 6,278,324 \\ 10,743,197 \end{array}$ | $\begin{array}{r} 6,888,444 \\ 12,593,420 \end{array}$ | $\begin{array}{r} 5,038.042 \\ 14,670, \text { suu } \end{array}$ | $\begin{array}{r} 5,204,837 \\ 14,830,902 \end{array}$ | $\begin{array}{r} 5,641,431 \\ 12,440,373 \end{array}$ | $\begin{array}{r} 4,117,198 \\ 13,586,233 \end{array}$ | $\begin{array}{r} 2,490,787 \\ 13,406,537 \end{array}$ |
| Tota | 11, 570, 482 | 13,441, 551 | 12, 145, 254 | 14, 988,412 | 17,021, 521 | 19,481, 864 | 19, 711, 372 | 20,035, 739 | 18, 081, 804 | 17, 703, 431 | 15, 897, 324 |
| Less dividends paid onCommon stock in cash | 2,728,008 | 2, 454, 021 | 2, 909, 586 | 3, 454, 683 | 3,636,569 | 4, 017, 002 | 4, 088, 938 | 803, 834 | 3, 704, 039 | 2, 205, 848 | 14,496 |
|  | , | 3, ${ }^{791,120}$ | 791, | 791 | 791, | 791, 532 | 791, 532 | 791, 532 | 791, 532 | 1, 299, 71414 | $\begin{array}{r} 669,314 \\ 791,532 \end{array}$ |
| Total <br> Appropriation to or from reserves | 3, 519, 540 | 6, 276, 673 | 3, 701, 118 | 4, 246, 215 | 4, 428, 101 | 4, 808, 534 | 4,880, 470 | $66$ | 4, 495, 571 | 4, 206, 894 | 1, 475, 342 |
| Surplus end of the year | 8, 050, 942 | 7, 164, 878 | 8, 444, 136 | 10, 743, 197 | 12, 593, 420 | 14, 673, 330 | 14, 830, 902 | 12, 440, 373 | 13, 586, 233 | 13, 406, 537 | 14, 421, 982 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$82, 992, 682 | \$87, 112, 525 | \$87, 395, 220 | \$78, 447, 777 | \$64, 067, 913 | \$56, 920, 863 | \$59, 054, 188 | \$58, 587, 149 | \$67, 127, 695 | \$75, 962, 586 | \$1, 496, 946, 247 |
| Total operating | 79, 580, 522 | 83, 630, 621 | 81, 797, 777 | 71,665, 205 | 58,021, 600 | 53, 560, 695 | 55, 174, 029 | 54, 700, 410 | 62, 620, 333 | 72, 798, 083 | 1, 376, 890, 965 |
| Net profit on sales Other income (net) | $\begin{array}{r} 3,412,160 \\ 678,898 \end{array}$ | $\begin{array}{r} 3,481,904 \\ 432,332 \end{array}$ | $\begin{array}{r} 5,597,443 \\ 474,436 \end{array}$ | $\begin{array}{r} 6,782,572 \\ 533,207 \end{array}$ | $\begin{array}{r} 6,046,313 \\ 344,670 \end{array}$ | $\begin{array}{r} 3,390,168 \\ 197,440 \end{array}$ | $\begin{array}{r} 3,880,159 \\ 396,771 \end{array}$ | $\begin{array}{r} 3,886,739 \\ 491,364 \end{array}$ | $\begin{array}{r} 4,507,362 \\ 258,457 \end{array}$ | $\begin{array}{r} 3,164,503 \\ 210,171 \end{array}$ | $\begin{array}{r} 120,055,282 \\ 10,747,977 \end{array}$ |
| Net income applicable to total investment. Less interest on long-term debt. | $\begin{aligned} & 4,091,058 \\ & 2,023.630 \end{aligned}$ | $\begin{aligned} & 3,914,236 \\ & 2,454,771 \end{aligned}$ | 6,071, 879 <br> 1, 978,568 | $\begin{aligned} & 7,315,779 \\ & 1,773,037 \end{aligned}$ | $\begin{aligned} & 6,390,983 \\ & 1,110,807 \end{aligned}$ | $\begin{array}{r} 3,557,608 \\ 951,795 \end{array}$ | $\begin{array}{r} 4,276,930 \\ 886,190 \end{array}$ | $\begin{array}{r} 4,378,103 \\ 821,961 \end{array}$ | $\begin{array}{r} 4,765,819 \\ \quad 747,289 \end{array}$ | $\begin{array}{r} 3,374,674 \\ 709,962 \end{array}$ | $\begin{array}{r} 130,803,259 \\ 27,422,142 \end{array}$ |
| Net income applicable to stockholders' investment. <br> Provision for Federal income and profts taxes.... | $\begin{array}{r} 2,067,428 \\ 250,000 \end{array}$ | $\begin{array}{r} 1,459,465 \\ 115,000 \end{array}$ | $\begin{array}{r} 4,093,311 \\ 470,000 \end{array}$ | $\begin{array}{r} 5,542,742 \\ 685,000 \end{array}$ | $5,280,176$ 724,124 | $\begin{array}{r} 2,605,813 \\ 213,692 \end{array}$ | $\begin{array}{r} 3,390,740 \\ 543,379 \end{array}$ | $\begin{array}{r} 3,556,142 \\ 491,851 \end{array}$ | $\begin{array}{r} 4,018,530 \\ 493,000 \end{array}$ | $\begin{array}{r} 2,664,712 \\ 375,672 \end{array}$ | $\begin{array}{r} 103,381,117 \\ 14,559,973 \end{array}$ |
| Net incone for the year Surplus beginning of yeat | $\begin{array}{r} 1,817,428 \\ 14,421,982 \end{array}$ | $\begin{array}{r} 1,344,465 \\ 13,843,501 \end{array}$ | $\begin{array}{r} 3,623,311 \\ 13,753,242 \end{array}$ | $\begin{array}{r} 4,857,742 \\ 16,576,073 \end{array}$ | $\begin{array}{r} 4,556,052 \\ 19,585,158 \end{array}$ | $\begin{array}{r} 2,392,121 \\ 19,473,288 \end{array}$ | $\begin{array}{r} 2,847,361 \\ 16,866,640 \end{array}$ | $\begin{array}{r} 3,064,291 \\ 14,658,647 \end{array}$ | $\begin{array}{r} 3,525,530 \\ 14,550,445 \end{array}$ | $\begin{array}{r} 2,289,040 \\ 14,232,338 \end{array}$ | 88, 821, 144 |
| Total | 18, 239, 410 | 15, 188, 266 | 17,376, 553 | 21, 433, 815 | 24, 141, 210 | 21, 865, 409 | 19, 714, 001 | 17, 722, 938 | 18,075, 975 | 16,521, 378 |  |
| Less dividends paid on- Common stock in cash Common stock in stock Preferred stock in cash | 791, 532 | 791, 532 | 791, 532 | 573,031 7911,532 | $2,268,703$ <br> $-738,157$ | $2,266,387$ $-694,407$ | $4,152,838$ $-686,399$ | $2,246,890$ 686,000 | $2,808,246$ $-686,000$ | $2,246,611$ $-\cdots 86,000$ | $\begin{array}{r} 49,579,730 \\ 4,999,948 \\ 16,049,943 \end{array}$ |
| Total | 791, 532 | 791, 532 | 791, 532 | 1,364, 563 | 3, 006, 860 | $2,960,794$ | 4, 839, 237 | 2, 932, 890 | 3, 494, 246 | $\begin{aligned} & 2,932,611 \\ & 3120 \end{aligned}$ | $\begin{array}{r} 70,629,621 \\ 3,089,074 \end{array}$ |
| Write-down of real estate, machinery, and equipment |  |  |  |  |  | 6, 643, 443 |  |  |  |  | 6, 643, 443 |
| Goodwill and other intangibles written oft |  |  |  |  |  | 22,510,816 |  |  |  |  | - $22,510,816$ |
| Other deductions (net) | ${ }^{3} 1,604,077$ | 643, 492 | 8,948 | 484.094 | 688, 062 | $\begin{array}{r} 2 \\ 2 \\ 2,763,568 \\ \hline \end{array}$ | 216, 117 | 239, 603 | 349, 391 | 33,665 |  |
| Surplus end of the year | 13, 843, 501 | 13, 753, 242 | 16, 576, 073 | 19, 585, 158 | 19, 473, 288 | 16, 866, 640 | 14, 658, 647 | 14, 550, 445 | 14, 232, 338 | 13,685, 860 |  |

1 Denotes loss.
Denotes loss.
3 Additions to surplus.
Additional Federal fneome tax.
Appendix Table 5.--Summary of investments, profits, and rates of return for Axton-Fisher Tobacco Co., 1918-97

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 19251 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital slock: |  |  |  |  |  | \$300,000 | \$300, 000 | \$288,000 | \$274,300 |  |  |
| $\because$ Common | \$64,000 | \$64,000 | \$64,000 | \$448,000 | \$448,000 | 448, 000 | 448,000 | 448,000 | 448,000 | 448, 000 | 452, 700 |
| 3. Total | 64,000 345,069 | 64, 000 | 64, 4300 431,35 | 448,000 | 448, 000 | 748, 000 | 748,000 | 736,000 | 722, 300 | 888, 900 | 853,000 |
| 1. Surplus earned and capital................. |  |  |  |  |  |  |  |  |  |  |  |
| ti. Capital stock and surplus | 409, 069 | 484, 863 | 495, 355 | 508, 417 | 575,590 | 993, 624 | 960, 003 | 970, 235 | 1, 118, 802 | 1,418, 843 | 1, 861, 225 |
| ․ Less goodwill and other intangib | 144, 627 | 144, 627 | 144, 627 | 144, 627 | 145, 627 | 145, 627 | 145, 627 | 145, 627 | 145, 627 | 211, 686 | 290, 590 |
| Total investme | 264, 442 | 340, 236 | 350, 728 | 363, 790 | 429, 963 | 847, 997 | 814, 376 | 824, 608 | 973, 175 | 1, 207, 157 | 1,570,635 |
| 9. Average of total Investment ${ }^{2}$ |  | 302, 339 | 345, 482 | 357, 259 | 396, 876 | 638,980 | 831, 186 | 819, 492 | 898,891 | 1,090, 166 | 1,388,896 |
| 10. Average of common stockholders' equit y ${ }^{\text {a }}$....... |  | 302, 339 | 345, 482 | 357, 259 | 396, 876 | 488, 980 | 531, 186 | 525, 492 | 617, 741 | 732, 566 | 968, 276 |
| Net income before deducting Federal Income and profts taxes: |  |  |  |  |  |  |  |  |  |  |  |
| 11. Applicable to total investment |  | 66, 381 | 53, 814 | 43. 587 | 74, 274 | 136, 094 | 119, 061 | 108, 091 | 281, 979 | 313,297 | 725, 591 |
| 12. Applicable to common-stock equity ......... |  | 66, 381 | 53.814 | 43,587 | 74.274 | 136,094 | 98, 061 | - 87,721 | 262, 055 | 221,065 | 696, 149 |
| Rate of return on total investment ( $11 \div 9$ ). percent. |  | 21. 96 | 15.58 | 12. 20 | 18.71 | 21.30 | 14. 32 | 13.19 | 31.37 | 30.12 | 52.24 |
| Rate of return on common stockholders equity ( $12 \div 10$ ) $\ldots$................................................ |  | 21.96 | 15. 58 | 12. 20 | 18. 71 | 27.83 | 18. 46 | 16.69 | 42.42 | 32.39 | 71.89 |


Aenotes loss.
Appendix Table 5a.-Summary of income, expenses, and surplus for Axton-Fisher Tobacco Co., 1918-87

|  | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$923, 669 | \$815, 294 | \$772, 845 | \$1,118, 987 | \$2, 412, 858 | \$2, 816, 200 | \$2, 665, 016 | \$2,950, 171 | \$3, 407, 975 | \$4, 971,719 | \$4, 121, 684 |
| Cost of goods sold. | 554, 379 | 640, 247 | 644, 478 | 873, 681 | 1, 742, 309 | 2, 044,844 | 1,913, 168 | 2, 092, 620 | 2,438, 568 | 3,334, 674 | 2,851,793 |
| penses........... | 302, 909 | 120, 111 | 144, 086 | 244, 829 | 535, 792 | 665, 544 | 653, 611 | 588, 737 | 660,617 | 923, 191 | 1, 091, 541 |
| Total operating expenses | 857, 288 | 760, 358 | 788, 564 | 1,118, 510 | 2, 278, 101 | 2, 710,388 | 2, 566,779 | 2, 681, 357 | 3.099, 185 | 4, 257, 865 | 3, 943, 334 |
| Net profit on sales. Other income (net) | 66,381 | $\begin{aligned} & 54,936 \\ & 11,122 \end{aligned}$ | $\begin{array}{r} 115,719 \\ 59,306 \end{array}$ | $\begin{array}{r} 477 \\ 73,797 \end{array}$ | $\begin{array}{r} 134,757 \\ 1,337 \end{array}$ | $\begin{array}{r} 105,812 \\ 13,249 \end{array}$ | $\begin{array}{r} 98,237 \\ 9,854 \end{array}$ | $\begin{array}{r} 268,{ }^{\prime} 814 \\ 13,165 \end{array}$ | $\begin{array}{r} 308,790 \\ 4,507 \end{array}$ | $\begin{array}{r} 713,854 \\ 11,737 \end{array}$ | $\begin{array}{r} 178,350 \\ 19,985 \end{array}$ |
| Net income applicable to total investment <br>  |  | $\begin{aligned} & 53,814 \\ & 10,119 \end{aligned}$ | $\begin{array}{r} 43.587 \\ 8,747 \end{array}$ | $\begin{aligned} & 74,274 \\ & 14,652 \end{aligned}$ | 136,094 17,012 | 119,061 14,882 | $\begin{array}{r} 108,091 \\ 13,511 \end{array}$ | $\begin{array}{r} 281,979 \\ 36,657 \end{array}$ | $\begin{array}{r} 313,297 \\ 42,295 \end{array}$ | $\begin{array}{r} 725,591 \\ 97,955 \end{array}$ | $\begin{array}{r} 198,335 \\ 23,800 \end{array}$ |
| Net income for the year. Surplus beginning of year.....- | $\begin{array}{r} 45,826 \\ 299,243 \end{array}$ | $\begin{array}{r} 43,695 \\ 420,863 \end{array}$ | $\begin{array}{r} 34,840 \\ 431,355 \end{array}$ | $\begin{aligned} & 59,622 \\ & 60,417 \end{aligned}$ | $\begin{aligned} & 119,082 \\ & 127,590 \end{aligned}$ | $\begin{aligned} & 104,179 \\ & 245,624 \end{aligned}$ | $\begin{array}{r} 94,580 \\ 212,003 \end{array}$ | $\begin{aligned} & 245,322 \\ & 234,235 \end{aligned}$ | $\begin{aligned} & 271,002 \\ & 396,502 \end{aligned}$ | $\begin{aligned} & 627,636 \\ & 529,943 \end{aligned}$ | $\begin{array}{r} 174,535 \\ 1,008,225 \end{array}$ |
| Total | 345, 069 | 464, 558 | 466, 195 | 120,039 | 246, 672 | 349, 803 | 306, 583 | 479, 557 | 667, 504 | 1,157,579 | 1,182, 760 |
| Less dividends paid on- |  |  |  |  |  |  |  |  |  |  |  |
| cash Common stock in stock |  |  | $\begin{array}{r} 22,400 \\ 384,000 \end{array}$ |  |  | 44, 800 | 44,800 | 44,800 | 44, 800 | 112,000 | 110,000 |
| Preferred stock in cash. |  |  |  |  |  | 21,000 | 20,370 | 19,924 | 92,232 | 29,442 | 14,010 |
| Other Totditions or deductions (net) | 275,794 | 33, 203 | $\begin{array}{r} 406,400 \\ i 622 \end{array}$ | 27,551 | 1,048 | $\begin{aligned} & 65,800 \\ & 72,000 \end{aligned}$ | $\begin{array}{r} 65,170 \\ 7,178 \end{array}$ | $\begin{aligned} & 64,724 \\ & 18,331 \end{aligned}$ | $\begin{array}{r} 137,032 \\ 529 \end{array}$ | $\begin{array}{r} 141,442 \\ 7,912 \end{array}$ | $\begin{array}{r} 1,069,510 \\ 200,533 \end{array}$ |
| Surplus end of the year | 420, 863 | 431, 355 | 60,417 | 127, 590 | 245, 624 | 212, 003 | 234, 235 | 396, 502 | 529, 943 | 1,008, 225 | 313,783 |


|  | 1929 | 1930 | 1931 | 1932 | 1933 . | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$5, 333, 715 | \$6, 277, 108 | \$6, 292, 837 | \$17, 608, 701 | \$23, 683, 139 | \$28, 531, 842 | \$20, 542, 983 | \$17, 230, 817 | \$19, 254, 815 | \$171, 732, 375 |
| Cost of goods sold. Distribution and administrative | $\begin{aligned} & 3,638,467 \\ & 1,110,921 \end{aligned}$ | $\begin{aligned} & 4,156,696 \\ & 1,263,965 \end{aligned}$ | $\begin{aligned} & 4,112,123 \\ & 1,499,019 \end{aligned}$ | $\begin{array}{r} 13,898,501 \\ 2,004,311 \end{array}$ | $\begin{array}{r} 19,293,043 \\ 2,402,804 \end{array}$ | $\begin{array}{r} 23,880,503 \\ 2,954,924 \end{array}$ | $\begin{array}{r} 17,434,198 \\ 2,650,168 \end{array}$ | $\begin{array}{r} 14,393,043 \\ 2,433,799 \end{array}$ | $\begin{array}{r} 16,371,633 \\ 2,658,914 \end{array}$ | $\begin{array}{r} 136,308,968 \\ 24,909,793 \end{array}$ |
| Total operating expens | 4, 749,388 | 5,420,661 | 5,811,142 | 15, 902.812 | 21,695,847 | 26, 835, 427 | 20, 084, 366 | 16, 826, 842 | 19,030, 547 | 161, 218,761 |
| Net profit on sales. Other income (net) | $\begin{array}{r} 584,327 \\ 16,252 \end{array}$ | $\begin{array}{r} 856,447 \\ 111,485 \end{array}$ | $\begin{array}{r} 681,695 \\ 7,226 \end{array}$ | $\begin{array}{r} 1,705,889 \\ 162,086 \end{array}$ | $\begin{array}{r} 1,987,292 \\ \quad 129,096 \end{array}$ | $\begin{array}{r} 1,696,415 \\ 9,710 \end{array}$ | $\begin{aligned} & 458,617 \\ & 138,569 \end{aligned}$ | $\begin{aligned} & 403,975 \\ & 204,099 \end{aligned}$ | $\begin{array}{r} 224,268 \\ 17,141 \end{array}$ | $10,513,614$ 496,145 |
| Net income applicable to total Investme Provision for Federal income and profits tax | $\begin{array}{r} 800,579 \\ 65,567 \end{array}$ | $\begin{aligned} & 844,962 \\ & 101,964 \end{aligned}$ | $\begin{array}{r} 688,921 \\ 83,369 \end{array}$ | $\begin{array}{r} 1,643,803 \\ 226,851 \end{array}$ | $\begin{array}{r} 1,958,196 \\ 268,533 \end{array}$ | $\begin{array}{r} 1,706,125 \\ 236,218 \end{array}$ | $\begin{array}{r} 597,186 \\ 83,933 \end{array}$ | $\begin{array}{r} 608,074 \\ 73,760 \end{array}$ | $\begin{array}{r} 241,409 \\ 1,089 \end{array}$ | $\begin{array}{r} 11,009,759 \\ 1,441,469 \end{array}$ |
| Net income for the $y$ Surplus beginning of year | $\begin{aligned} & 535,012 \\ & 313,783 \end{aligned}$ | $\begin{aligned} & 742,998 \\ & 574,036 \end{aligned}$ | $\begin{aligned} & 605,552 \\ & 861,160 \end{aligned}$ | $\begin{aligned} & 1,416,952 \\ & 1,030,541 \end{aligned}$ | $\begin{aligned} & 1,689,663 \\ & 1,953,305 \end{aligned}$ | $\begin{aligned} & 1,469,907 \\ & 3,221,786 \end{aligned}$ | $\begin{array}{r} 513,253 \\ 4,264,141 \end{array}$ | $\begin{array}{r} 534,314 \\ 4,342,827 \end{array}$ | $\begin{array}{r} 240,320 \\ 4,457,930 \end{array}$ | 9,568,290 |
| Total | 848, 795 | 1,317,034 | 1, 466, 712 | 2, 447, 493 | 3,642,968 | 4, 691, 693 | 4,777, 394 | 4, 877, 141 | 4, 698, 250 |  |
| Less dividends paid onCommon stock in cash. Common stock in stock | 260,000 | 260,000 70,000 14,926 | 288,000 | 354,758 $-70,781$ | 324,708 107,436 | 324,680 101,089 | 324,707 $-97,184$ | 324,707 $-91,455$ |  | $\begin{aligned} & 2,885,160 \\ & 1,399,500 \end{aligned}$ |
| Preferred stock in cash. | 14,928 | 14,926 | 39,420 | 70,781 | 107, 436 | 101,089 | 97, 184 | 91, 455 |  |  |
| Total <br> Other additions or deductions (net) | $\begin{array}{r} 274,928 \\ { }_{1}^{2} 67 \end{array}$ | $\begin{aligned} & 344,926 \\ & 110,948 \end{aligned}$ | $\begin{array}{r} 327,420 \\ 108,751 \end{array}$ | $\begin{array}{r} 425,539 \\ 68,649 \end{array}$ | $\begin{aligned} & 432,144 \\ & 210,962 \end{aligned}$ | $\begin{array}{r} 425,769 \\ 1,783 \end{array}$ | $\begin{array}{r} 421,891 \\ 12,676 \end{array}$ | $\begin{array}{r} 416,162 \\ 3,049 \end{array}$ | 429, 182 | $\begin{array}{r} 5,018.855 \\ 579,610 \end{array}$ |
| Surplus end of the year | 574, 038 | 861, 160 | 1,030,541 | 1, 953, 305 | 3, 221,786 | 4, 264, 141 | 4, 342, 827 | 4, 457, 930 | 4, 269,068 |  |

1 Denotes loss.
2
Additions to surplus.
124491—41—pt. 31——8

${ }^{2}$ A verage of investment al beginning and end of year.

|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1927 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | 85, 965,413 | \$9,837, 761 | \$8,495,234 | \$14,082, 223 | \$50, 148,040 | \$44, 641, 180 | \$70, 919, 898 | \$85, 601, 582 | \$94, 338, 141 | \$100, 141, 863 | \$484, 171, 335 |
| sst of goods s | 4, 994, 721 | 8, 414, 350 | 7,028, 132 | 11, 405, 954 | 42, 153, 194 | 37,818, 069 | 60, 693,738 | , 037,919 | , 133,689 | 86, 438, 270 | 411, 118,036 |
| penses. | 2, 533, 788 | 5,467,865 | 4,169,227 | 2,703, 184 | 4, 299, 752 | 4, 219, 795 | 6, 216, 938 | 7, 252, 724 | 8, 177, 560 | 9,041, 727 | 54, 085, 560 |
| Total op | 7,531,509 | 13,882, 215 | 11, 197, 359 | 14, 109, 138 | 46, 452, 946 | 42,037, 864 | 66, 910, 676 | 80, 290, 643 | 87,311,249 | 95, 479,997 | 465, 203.596 |
| Net proft on sales Other income (net | $11,566,096$ 1 126,870 | $14,044,454$ $i$ 175,079 | $12,702,125$ <br> 1330,402 | $\begin{aligned} & 126,915 \\ & 1178,573 \end{aligned}$ | $\begin{array}{r} 3,695,094 \\ \begin{array}{c} 159,180 \end{array} \end{array}$ | $\begin{array}{r} 2,603,316 \\ 175,415 \end{array}$ | $\begin{aligned} & 4,009,222 \\ & 166,511 \end{aligned}$ | $\begin{array}{r} 5,310,939 \\ 248,479 \end{array}$ | $\begin{array}{r} 7,026,892 \\ 396,405 \end{array}$ | $\begin{array}{r} 4,661,866 \\ i 587,657 \end{array}$ | $18,967,739$ 1954,803 |
| Net income applicable to total investment | 11, 692, 966 | 14, 219, 533 | 13,032, 527 | 1205,488 | 3, 635, 914 | 2, 52, 901 | 3,912,711 | 5, 559, 418 | 7, 423, 297 | 4, 074, 209 | 18,012 |
| mob |  | 394, 303 | 636, 698 | 840, 150 |  |  |  | 817, 254 | 306,380 | 540, 853 | 3,535,638 |
| Provision for Federal inco profits taxes. |  |  |  |  | 397, 080 | 600, 107 | 721, 741 | 859,317 | 1,087,927 | 644,406 | 4,310. 578 |
| Net income for the <br> Surplus beginning of year | $\begin{array}{\|r} 1 \\ 1 \\ 1 \\ 1 \end{array} 297,892,866$ | $\begin{aligned} & 14,613,836 \\ & 11,970,790 \end{aligned}$ |  | $11,045,638$ $110,253,851$ | $\begin{array}{r} 3,238,834 \\ 111,299,489 \end{array}$ | $\begin{aligned} & 1,927,794 \\ & 18,060,655 \end{aligned}$ | $\begin{gathered} 3,220,970 \\ 14,632,861 \end{gathered}$ | $\begin{array}{r} 3,882,847 \\ 1,341,891 \end{array}$ | $\begin{array}{r} 6,028,990 \\ 22,490,956 \end{array}$ | $\begin{array}{r} 2,888,950 \\ 22,519,946 \end{array}$ | 10, 166, 720 |
| Total | 11,970, 790 | ${ }^{16,584,626}$ | 110, 253,851 | 111, 299,489 | 18,060, 655 | ${ }^{1} 6,132,861$ | ${ }^{11,411,891}$ | 2, 540, 956 | 28, 519,946 | 25, 408, 896 |  |
| Less dividends paic Common stock |  |  |  |  |  |  |  |  |  |  |  |
| Preferred stock |  |  |  |  |  |  |  | 2,450, 000 | $230,000$ | $280,000$ | 3,010.600 |
|  |  |  |  |  |  |  |  | 2, 450, 000 | 6,000,000 | 6, 280, 000 | 14,730,000 |
| Paid-in surplus through release debtedness |  |  |  |  |  | 31, 500,000 | ${ }^{1} 70,000$ | 222,400,000 |  |  |  |
| Reserved for special advertlising |  |  |  |  |  |  |  |  | , | 1,000,000 | $1,000,100$ |
| Surplus end of the year. | 1 1, 970, 790 | 16, 584, 626 | 110, 253, 851 | 111,299,489 | 1 8, 060, 655 | 14,632,861 | 11,341, 891 | 22, 490, 956 | 22, 519,946 | 18, 128,896 |  |

${ }^{3}$ Denotes addition to surplus.
Appendix Table 7.--Summary of investments, profits, and rates of return for General Cigar Co., Inc., 1917-87

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1226 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Capital stock: } \\ & \begin{array}{l} \text { 1. } \\ \text { Preferred. } \\ \text { Common. } \end{array} \end{aligned}$ | \$5, 000, 000 <br> 18, 104, 000 | $\$ 5,000,000$ 18, 104, 000 | $85,000,000$ $18,104,000$ | \$9, 620,800 $18,104,000$ | $\$ 9,220,800$ $18,104,000$ | \$9, 420,000 <br> 18, 104, 000 | \$9, 200, 000 <br> 18, 104, 000 | \$9, 000, 000 <br> 18, 104, 000 | \$8, 500, 000 18, 104, 000 | $\begin{array}{\|c} \$ 7,280,000 \\ 18,104,000 \end{array}$ | $\begin{array}{r} \$ 7,255,200 \\ 362,576 \end{array}$ | $\begin{array}{r} \$ 5,000,000 \\ 407,570 \end{array}$ |
| 3. Total. <br> 4. Surplus, earned and capital <br> 5. Reserve for Federal income and profits taxes. | $\begin{array}{r} 23,104,000 \\ 4,813,493 \end{array}$ | $\begin{array}{r} 23,104,000 \\ 5,127,537 \end{array}$ | $\begin{array}{r} 23,104,000 \\ 5,755,726 \\ 840,000 \end{array}$ | $\begin{array}{r} 27,724,800 \\ 7,209,838 \\ 780,000 \end{array}$ | $\begin{array}{r} 27,724,800 \\ 8,894,144 \\ 762,500 \end{array}$ | $\begin{array}{r} 27,524,000 \\ 9,368,956 \\ 360,000 \end{array}$ | $\begin{array}{r} 27,304,000 \\ 6,163,869 \\ 427,000 \end{array}$ | $\begin{array}{r} 27,104,000 \\ 7,472,270 \\ 494,000 \end{array}$ | $\begin{array}{r} 26,604,000 \\ 8,145,539 \\ 420,000 \end{array}$ | $\begin{array}{r} 25,384,000 \\ 8,838,676 \\ 450,000 \end{array}$ | $7,617,776$ $12,209,948$ <br> 450, 000 | $\begin{array}{r} 5,407,570 \\ 15,692,878 \\ 550,000 \end{array}$ |
| Capital stock and surplus | 27, 917, 493 | 28.231, 537 | 29, 699, 726 | 35, 714, 638 | 37, 381,444 | 37, 252, 956 | 33, 894, 869 | 35, 070, 270 | 35, 169, 539 | 34, 672, 676 | 20, 277, 724 | 21, 650, 448 |
| 7. Treasury stock at cost............... intangibles. | 19, 326,003 | 19, 326, 003 | 19, 326, 003 | 190,045 $19,326,003$ | [ $\begin{array}{r}1202,740 \\ 19,326,003\end{array}$ | [178,848 | 141,660 $15,000,000$ | 1169,668 $15,000,000$ | 1141,600 $15,000,000$ | 15, 000, 000 | 1 |  |
| 9. Stockholders' investment | 8, 591, 490 | 8, 905, 534 | 10, 373, 723 | 16, 298, 590 | 17, 852, 701 | 17, 748, 105 | 18, 853, 209 | $\begin{array}{r} 19,900,602 \\ 7,700,000 \end{array}$ | $\begin{array}{r} 19,027,939 \\ 7,700,000 \end{array}$ | $\begin{array}{r} 19,672,676 \\ 6,966,489 \end{array}$ | $20,277,723$ $6,278,589$ | $\begin{array}{r} 21,650,447 \\ 5,578,844 \end{array}$ |
| Total Investmen | 8, 591,490 | 8, 905, 534 | 10, 373, 723 | 16, 298, 590 | 17, 852, 701 | 17, 748, 105 | 18, 853, 209 | 27,600, 602 | 26, 727, 339 | 26,639, 165 | 26, 556,312 | 27, 229, 291 |
| 12. A verage of total investment ${ }^{3}$ <br> 13. Average of stockholders' investment ${ }^{3}$ |  | $\begin{aligned} & 8,748,512 \\ & 8,748,512 \end{aligned}$ | $\begin{aligned} & 9,639,629 \\ & 9,639,629 \end{aligned}$ | $\begin{aligned} & 13,336,156 \\ & 13,336,156 \end{aligned}$ | $\begin{aligned} & 17,075,646 \\ & 17,075,646 \end{aligned}$ | $\begin{aligned} & 17,800,403 \\ & 17,800,403 \end{aligned}$ | $\begin{aligned} & 18,300,657 \\ & 18,300,657 \end{aligned}$ | $\begin{aligned} & 23,226,906 \\ & 19,376,906 \end{aligned}$ | $\begin{aligned} & 27,164,270 \\ & 19,464,270 \end{aligned}$ | $\begin{array}{r} 26,683,552 \\ 19,350,308 \end{array}$ | $\begin{aligned} & 26,597,739 \\ & 19,975,200 \end{aligned}$ | $\begin{array}{\|l\|l} 26,893,801 \\ 20,964,085 \end{array}$ |
| equity ${ }^{3}$. Net income |  | 3,748,512 | 4,639,629 | 6, 070,779 | 7,601, 238 | 8, 470, 797 | 9, 100, 911 | 10, 382, 570 | 11, 369, 904 | 12, 031, 108 | 12, 707, 600 | 14, 836,485 |
| 15. Applicable to total investme |  | 1,559, 715 | 2,461, 591 | 3,452. 666 | 4, 120,992 | 2, 423,380 | 3, 124, 140 | 3,415,091 | 3,680,322 | 3,534,566 | 3,407, 557 | 4, 295, 360 |
| - vestment.........- |  | 1, 559, 715 | 2, 461, 591 | 3,452,666 | 4, 120, 992 | 2, 423,380 | 3, 124, 140 | 3, 376, 591 | 3, 177, 302 | 3,036,565 | 2,953,550 | 3, 886, 117 |
| holders' equity |  | 1, 209, 715 | 2, 111, 591 | 2,969, 778 | 3, 459, 261 | 1,772,906 | 2, 480,490 | 2, 746, 980 | 2, 604, 179 | 2, 526, 118 | 2, 445, 481 | 3, 424, 080 |
| 2) |  | 17.83 | 25. 54 | 25.89 | 24.13 | 13.61 | 17.07 | 4. 70 | 13.55 | 13. 25 | 12.81 | 15.97 |
| ent ( $16 \div 13$ ) $\ldots$...........per |  | 17.83 | 25. 54 | 25.89 | 24.13 | 13.61 | 7.07 | 17.43 | 16.32 | 15.6 | 14.79 | 18.54 |
| quity $(17+14)$ $\qquad$ holders |  | 32.27 | . 51 | 48.92 | 45.51 | 20.93 | 27.26 | 26. 46 | 22.90 | 21.00. | 19. 24 | 23.08 |


|  | 1828 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  | \$5,000,000 | \$5,000,000 | \$5,000, 000 | \$5,000,000 | \$5, 0č, 900 | \$5,000,000 | \$5,000,000 | \$5,000,000 |
| 2. Common | 407, 570 | 5, 298, 410 | 5, 298, 410 | 5, 298, 410 | 5, 298, 410 | 5, 298, 410 | 5, 298, 410 | 5, 296, 410 | 5, 298, 410 | 5, 298, 410 | 5, 298, 410 |
| Total | 5, 407, 570 | $10,298,410$ | $10,298,410$ | $10,288,410$ $19,389,876$ | $\begin{aligned} & 10,298,410 \\ & 10 \end{aligned}$ | $10,298,410$ $17,465,694$ | $\begin{aligned} & 10,298,410 \\ & 14 \end{aligned}$ | $\mid 10,298,410$ | $\left\lvert\, \begin{aligned} & 10,298,410 \\ & 13,939,352 \end{aligned}\right.$ | $\begin{aligned} & 10,298,410 \\ & 13.844 .336 \end{aligned}$ |  |
| 5. Reserve for Federal income and profits taxes.- | -430,000 | 1050,000 | 485,000 | 375, 000 | 300, 000 | 175, 000 | 390,117 | 283, 032 | 311,928 | 337, 789 |  |
| Capital sţock and surplus | 22,690,627 | 29, 935, 634 | 29,694, 547 | 30,063, 286 | 29, 761, 865 | 27, 939, 104 | 24, 759,964 | 24, 960, 065 | 24, 549, 690 | 24, 480, 535 |  |
| Treasury stock at cost. | ${ }^{2} 644,926$ | ${ }^{2} 1,098,942$ |  |  |  |  |  |  |  |  |  |
| 8. Goodwill, appreciation, and other intangi- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |
| 9. Stockholders' inv <br> 10. Long-term debt | $\begin{array}{r} 22,045,700 \\ 4,066,500 \end{array}$ | $\begin{array}{r} 28,836,691 \\ 4,263,250 \end{array}$ | $\begin{array}{r} 29,694,546 \\ 3,560,000 \end{array}$ | $\begin{array}{r} 30,063,285 \\ 2,860,000 \end{array}$ | 29, 761, 864 | 27, 939, 103 | 24, 759, 963 | 24, 960, 064 | 24, 549, 689 | 24, 480, 534 |  |
| 11. Total investment | 27,012, 200 | 33, 099, 941 | 33, 254, 546 | 32,923, 285 | 29, 761, 864 | 27, 939, 103 | 24, 759, 963 | 24,960,064 | 24, 549,689 | 24,480, 534 |  |
| 12. Average of total investment 3 | 27, 120, 746 | 30, 056, 071 | 33, 177, 243 | 33, 088, 915 | 31, 342, 574 | 28, 850, 483 | 26, 349,533 | 24, 860, 013 | 24, 754, 876 | 24, 515, 111 | 23,789,583 |
| 13. Average of stockholders' investment ${ }^{2}$ | 21, 848, 074 | 25, 441, 196 | 29, 265, 618 | 29, 878, 015 | 29, 912, 574 | 28, 850, 483 | 26, 349,533 | 24, 860, 013 | 24, 754, 876 | 24, 515, 111 | 21, 414,675 |
| 14. Average of common-stock holders' equity : Net income before deducting Federal income and profits taxes: | 16, 848, 074 | 20, 441, 196 | 24, 265, 618 | 24, 878, 915 | 24, 912, 574 | 23, 850, 483 | 21, 349, 533 | 19, 860, 013 | 19, 754, 876 | 19,515,111 | 15, 077, 901 |
| 15. Applicable to total investment. | 3, 889, 957 | 5, 135, 277 | 3, 934, 492 | 3, 250, 660 | 2, 477, 827 | 877, 372 | $2,729,291$ | $2,408,050$ | 2, 107, 019 | $1,954,209$ |  |
| 16. Applicable to stockholders' investment.-..-- | 3, 557, 457 | 4, 841, 277 | $3,682,492$ $3,332,492$ | $3,044,160$ $2,694,160$ | $2,328,697$ $1,978,697$ | 877,372 527,372 | $\begin{aligned} & 2,729,291 \\ & 2,204,291 \end{aligned}$ | 2, $2,4088,050$ | 2, 107,019 $1,757,019$ | $1,954,209$ $1,604,209$ | $\begin{aligned} & 2,909,649 \\ & 2,457,410 \end{aligned}$ |
| 17. Applicable to common-stockholders equity -- | 3, 207,457 $\begin{array}{r}14.34\end{array}$ | $\begin{array}{r}\text { 4, } 491,277 \\ \hline 17.09\end{array}$ | $3,332,492$ 11.86 | $2,64,162$ 9.82 | 1,086 7.91 | 3.04 | 2, 10.36 | 9.69 | 8.51 | 7.97 | 12.86 |
| Rate of return on stockholders' investment $(16 \div 13)$ | 16.28 | 19.03 | 12.58 | 10. 19 | 7.79 | 3.04 | 10.36 | 9.69 | 8.51 | 7.97 | 13. 59 |
| Rate of return on common-stock holders' equity ( $17 \div 14$ ) percent.- | 19.04 | 21.97 | 13.73 | 10.83 | 7.94 | 2.21 | 10.32 | 10.36 | 8.89 | 8.22 | 16.30 |

[^35]3 A verage of investment at beginning and end of year.
Appéndix Table 7a.-Summary of income, expenses, and surplus for General Cigar Co., Inc., 1917-37

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$21, 395, 398 | \$26, 671, 360 | \$32, 317, 023 | \$41, 885, 394 | \$34, 697, 711 | \$36, 766, 921 | \$41, 825, 984 | \$40, 222, 508 | \$38, 294, 770 | \$39, 446, 191 | \$39, 448, 703 |
| Cost of goods sold. ............... | 16, 874, 820 | 20, 777, 404 | 24, 894, 609 | 32, 005, 595 | 26, 973, 101 | 27, 991, 561 | 31, 936,855 | 31, 011, 095 | 29,286, 535 | 30, 588, 453 | 28, 549, 226 |
| Distribution and administrative expenses. | 3,048, 061 | 3, 509, 167 | 4, 042, 276 | 5, 818,791 | 5, 646, 765 | 5, 759, 203 | 6,543,316 | 5,719,390 | 5, 567, 246 |  |  |
| Total | 19, 922, 881 | 24,286, 571 | 28, 936, 885 | 37, 824, 386 | 32, 619, 866 | 33, 750, 764 | 38, 480, 171 | 36, 730, 485 | 34, 853, 781 | 36, 119, 760 | 35, 201, 326 |
| Net profit on Other income (net) | $\begin{array}{r} 1,472.517 \\ 87,198 \end{array}$ | $\begin{array}{r} 2,384,789 \\ 76,802 \end{array}$ | $\begin{array}{r} 3,380,138 \\ 72,528 \end{array}$ | $\begin{array}{r} 4,061,008 \\ 59,984 \end{array}$ | $\begin{array}{r} 2,077,845 \\ 345,53.5 \end{array}$ | $\begin{array}{r} 3,016,157 \\ 107,983 \end{array}$ | $\begin{array}{r} 3,345,813 \\ 69,278 \end{array}$ | $\begin{array}{r} 3,492,023 \\ 188,299 \end{array}$ | $\begin{array}{r} 3,440,989 \\ 93,577 \end{array}$ | $\begin{array}{r} 3,326,431 \\ 81,126 \end{array}$ | $\begin{array}{r} 4,247,377 \\ 47,983 \end{array}$ |
| Net income applicable to total investment. <br> T.ess interest on long-term debt | 1,559, 715 | 2, 461, 591 | 3, 452, 666 | 4, 120, 992 | 2, 423, 380 | 3, 124, 140 | $\begin{array}{r} 3,415,091 \\ 38,500 \end{array}$ | $\begin{array}{r} 3,680,322 \\ 503.020 \end{array}$ | $\begin{array}{r} 3,534,566 \\ 498,001 \end{array}$ | $\begin{array}{r} 3,407,557 \\ 454.007 \end{array}$ | $\begin{array}{r} 4,295,360 \\ 409,243 \end{array}$ |
| Net income applicable to stockholders' investment. <br> Provision for Federal income and profits taxes. | $\begin{array}{r} 1,559,715 \\ 217,694 \end{array}$ | $\begin{array}{r} 2,461,591 \\ 801,704 \end{array}$ | $\begin{array}{r} 3,452,666 \\ 679,733 \end{array}$ | $\begin{array}{r} 4,120,992 \\ 720,572 \end{array}$ | $\begin{array}{r} 2,423,380 \\ 309,494 \end{array}$ | $\begin{array}{r} 3,124,140 \\ 391,931 \end{array}$ | $\begin{array}{r} 3,376,591 \\ 438,306 \end{array}$ | $\begin{array}{r} 3,177,302 \\ 413,432 \end{array}$ | $\begin{array}{r} 3,036,565 \\ 379,074 \end{array}$ | $\begin{array}{r} 2,953,550 \\ 390,738 \end{array}$ | 3, 886, 117 <br> 519, 981 |
| Net income for the y Surplus beginning of year. | $\begin{aligned} & 1,342,021 \\ & 4,813,493 \end{aligned}$ | $\begin{aligned} & 1,659,887 \\ & 5,127,537 \end{aligned}$ | $\begin{aligned} & 2,772,933 \\ & 5,755,726 \end{aligned}$ | $\begin{aligned} & 3,400,420 \\ & 7,209,838 \end{aligned}$ | $\begin{aligned} & 2,113,886 \\ & 8,894,144 \end{aligned}$ | $\begin{aligned} & 2,732,209 \\ & 9,368,956 \end{aligned}$ | 2,938, 285 <br> 6, 163, 869 | $\begin{aligned} & 2,763,870 \\ & 7,472,270 \end{aligned}$ | $\begin{aligned} & 2,657,491 \\ & 8,145,539 \end{aligned}$ | $\begin{aligned} & 2,562,812 \\ & 8,838,676 \end{aligned}$ | $\begin{array}{r} 3,366,136 \\ 12,209,948 \end{array}$ |
| Tot | 6, 155, 514 | 6,787,424 | 8,528, 659 | 10,610, 258 | 11,008, 030 | 12, 101, 165 | 9, 102, 154 | 10, 236, 140 | 10, 803, 030 | 11, 401, 488 | 15, 576, 084 |
| Less dividends pald onCommon stock in cash. Preferred stock in cash. | $\begin{aligned} & 724,160 \\ & 350,000 \end{aligned}$ | $\begin{aligned} & 724,160 \\ & 350,000 \end{aligned}$ | $\begin{aligned} & 905,200 \\ & 482,888 \end{aligned}$ | $\begin{array}{r} 1,086,240 \\ 661,731 \end{array}$ | $\begin{array}{r} 1,086,240 \\ 650,474 \end{array}$ | $\begin{array}{r} 1,086,240 \\ 643,650 \end{array}$ | $\begin{array}{r} 1,086,240 \\ 629,611 \end{array}$ | $\begin{array}{r} 1,448,320 \\ 573,123 \end{array}$ | $\begin{array}{r} 1,448,320 \\ 510,447 \end{array}$ | $\begin{array}{r} 1 ; 449,696 \\ 508,069 \end{array}$ | $\begin{array}{r} 1,472,623 \\ 462,037 \end{array}$ |
| Total <br> Goodwill and other intangibles written off | 1, 074, 160 | 1, 074, 160 | 1,388, 088 | 1,747, 971 | 1, 736, 714 | $1,729,890$ $4,326,003$ | 1,715, 851 | 2, 021, 443 | 1,958, 767 | $\begin{array}{r} 1,957,765 \\ 14,999,999 \end{array}$ | 1, 934, 660 |
| Reduction in value of common stock..... Exchange of preferred for common stock. |  |  |  |  |  |  |  |  |  | 117,741, 424 |  |
| Cost of 16,102 shares common stock canceled. <br> Other additions or deductions (net) | 146,183 | 142,462 | ${ }^{1} 69,267$ | ${ }^{1} 31,857$ | 197,640 | ${ }^{1} 118,597$ | 185,967 | 69, 158 | 5,587 | ${ }^{1} 24,800$ | 152 153,252 |
| Surplus end of the year. | 5, 127, 537 | 5, 755, 726 | 7,209,838 | 8, 894, 144 | 9,368,956 | 6, 163, 869 | 7,472, 270 | 8,145,539 | 8,838,676 | 12, 209, 948 | 15, 692, 878 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$40, 513, 134 | \$46, 918, 630 | \$40, 727, 305 | \$36, 145, 607 | \$29, 132, 332 | ,\$21, 809,825 | \$24, 285, 572 | \$23, 218, 043 | \$22, 513, 269 | \$21, 723, 667 | \$699, 959, 347 |
| Cost of goods | 29, 303, 474 | 32, 919, 511 | 28, 827, 283 | 25, 999, 739 | 21, 162, 717 | 16, 576, 608 | 17, 133, 893 | 16, 578, 227 | 16, 138, 515 | 15, 737, 435 | 521, 266, 656 |
| Distribution and administrative ex penses...................................... | 7,367,305 | 8, 762, 142 | 8, 027, 576 | 6, 939, 239 | 5, 509,365 | 4, 402, 986 | 4, 540, 508 | 4,371, 411 | 4, 421,462 | 4, 106, 931 | 116, 286, 547 |
| Total operating expens | 36,670, 779 | 41,681,653 | 36, 854, 859 | 32, 938, 978 | 26, 672, 082 | 20, 979, 594 | 21, 674, 401 | 20, 949, 638 | 20, 559, 977 | 19, 844, 366 | 637, 553, 203 |
| Net profit on sa Other Income (net). | $\begin{array}{r} 3,842,355 \\ 47,602 \end{array}$ | $\begin{array}{r} 5,236,977 \\ \quad 2101,700 \end{array}$ | $\begin{array}{r} 3,872,446 \\ 62,046 \end{array}$ | $\begin{array}{r} 3,206,629 \\ 44,031 \end{array}$ | $\begin{array}{r} 2,460,250 \\ 17,577 \end{array}$ | $\begin{array}{r} 830,231 \\ 47,141 \end{array}$ | $\begin{array}{r} 2,611,171 \\ 118,120 \end{array}$ | $\begin{array}{r} 2,268,405 \\ 139,645 \end{array}$ | $\begin{array}{r} 1,953,292 \\ 153,727 \end{array}$ | $\begin{array}{r} 1,879,301 \\ 74,908 \end{array}$ | $\begin{array}{r} 62,406,144 \\ 1 \end{array}$ |
| Net income applicable to total investment <br> Less interest on long-term debt | $\begin{array}{r} 3,889,957 \\ 332,500 \end{array}$ | $\begin{array}{r} 5,135,277 \\ 294,000 \end{array}$ | $3,934,492$ 252,000 | $\begin{array}{r} 3,250,660 \\ 206,500 \end{array}$ | $\begin{array}{r} 2,477,827 \\ 149,130 \end{array}$ | 877,372 | 2, 729, 291 | 2, 408, 050 | 2, 107, 019 | 1,954, 209 | $\begin{array}{r} 64,239,534 \\ 3,136,901 \end{array}$ |
| Net income applicable to stockholders'investment | 3, 557,457 | 4, 841, 277 | 3, 682, 492 | 3, 044, 160 | 2, 328, 697 | 877, 372 | 2, 729, 291 | 2, 408, 550 | 2, 107, 019 | 1,954, 209 | 61, 102, 633 |
| taxes. $\qquad$ | 416, 998 | 545,316 | 480, 970 | 323, 493 | 270, 327 | 155, 852 | 395,746 | 331,918 | 304, 362 | 280, 279 | 8, 767, 920 |
| Net income for the y | 3, 140,4 | 4, 295, 9 | 3, 201, 5 | $2,720,667$ $18,911,137$ | $2,058,370$ 19 | 721,520 $19,163,455$ | $2,333,545$ $17,465,694$ | 2, 076, $14,071,432$ | 14, $1,802,658$ | 13, ${ }^{1}, 6739,930$ | 52, 334, 713 |
| Surplus beginning of year | 15, 692, 878 | 16, 853, 057 | 19, 087, 224 | 18,911, 137 | 19, 389, 876 | 19,163, 455 | 17, 465, 694 | 14, 071, 437 | 14, 378, 623 | 13, 939, 352 |  |
| Tota | 18, 833, 337 | 21, 149, 018 | 22, 288, 746 | 21,631, 801 | 21, 448, 246 | 19, 884, 975 | 19, 799, 239 | 16, 147, 569 | 16, 181, 280 | 15, 613, 282 |  |
| Less dividends paid on: Common stock in cash | 630,280 | 711,794 | 1,956,336 | 1,891, | 1,891 | 1,891, | 5, 202, 802 | 1,418,946 | 1,891,928 | ,418,946 | 3, 424, 255 |
| Preferred stock in cash | 350,000 | 350, 000 | 350, 000 | 350,000 | 350,000 | 350, 000 | 525,000 | 350, 000 | 350, 000 | 350, 000 | 9, 497, 030 |
| Total | 1,980, 280 | 2, 061, 794 | 2, 306, 336 | 2, 241, 928 | 2, 241, 928 | 2, 241, 828 | 5, 727, 802 | 1,768,946 | 2, 241, 928 | 1, 768, 946 | 42, 921, 285 |
| Goodwill and other intangibles written off |  |  |  |  |  |  |  |  |  |  | 19, 326. 002 |
| Reduction in value of common stock |  |  |  |  |  |  |  |  |  |  | $\begin{array}{r} 17,741,424 \\ 12.204 .706 \end{array}$ |
| Exchange of preferred for common stock Cost of 16,102 shares common stock canceled |  |  | 1, 071, 273 |  |  |  |  |  |  |  | $1,071,273$ $168,560$ |
| Surplus e | 16, 853, 057 | 19, 087, 224 | 18,911, 137 | 19, 389, 876 | 19, 163, 455 | 17, 465, 694 | 14, 071, 437 | 14, 378, 623 | 13, 939, 352 | 13, 844, 336 |  |

[^36]Appendix Table 8.-Summary of investments, profits, and rates of return for Porto Rican-American Tobacco Co., 1920-37

|  | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Capital stock (common) | \$4, 961, 750 | \$4,965, 350 | \$6, 270, 150 | \$6, 277, 850 | \$6, 283, 150 | \$6, 310, 250 | \$6, 315, 550 | \$6, 315, 550 | \$12, 248, 550 | \$12, 248, 550 | \$15, 187,500 | \$15, 188 |
| 2. Scrip and fractional shares | 761,911 | 1,354,730 | 193, 146 | 185, 490 | 24, 553 | 12,253 | 6,953 | 6,953 | 6,953 | 6,993 | 7,043 | 2,955 |
| 3. Surplus-earned and capital | 1,557,619 | 1,959, 343 | 376, 822 | 8,669 | 310, 114 | 236, 416 | 633,698 | 687, 680 | 758, 246 | 1, 216, 932 | 1, 406, 813 | 1,347, 441 |
| 4. Capital stock and surplu | 7, 281, 280 | 8, 279, 423 | 6, 840, 118 | 6, 472,009 | 6, 617,817 | 6, 558, 918 | 6, 956, 201 | 7,010, 183 | 13,013, 749 | 13, 472, 475 | 16,601, 356 | 16, 538,796 |
| other intangibles. | 206,600 | 206,600 | 1,500, 000 | 1,500,000 | 1,500,000 | 1,500,000 | 1,500,000 | 1,500, 000 | 1,500,000 | 1,500, 000 | 1,500, 000 | 1,500,000 |
| 6. Stockholders' Investmen <br> 7. Long-term debt ${ }^{1}$ | 7, 074, 680 | 8, 072, 823 | $\begin{aligned} & 5,340,118 \\ & 2,671,579 \end{aligned}$ | $\begin{aligned} & 4,972,009 \\ & 2,245,921 \end{aligned}$ | $\begin{aligned} & 5,117,817 \\ & 1,882,161 \end{aligned}$ | $\begin{aligned} & 5,058,919 \\ & 1,660,306 \end{aligned}$ | $\begin{aligned} & 5,456,201 \\ & 1,514,881 \end{aligned}$ | 5, 510, 183 | $\begin{array}{r} 11,513,749 \\ 7,458,701 \end{array}$ | $\begin{array}{r} 11,972,475 \\ 6,621,251 \end{array}$ | $\begin{array}{r} 15,101,356 \\ 6,623,444 \end{array}$ | $\begin{array}{r} 15,038,796 \\ 6,190,500 \end{array}$ |
| 8. Total investment | 7,074,680 | 8,072,823 | 8,011,697 | 7, 217,930 | 6, 998, 978 | 6,728,225 | 6,971,082 | 5, 510, 183 | 18, 972, 450 | 18, 593, 726 | 21, 724,800 | 21, 229, 296 |
| 9. Average of total investment ${ }^{2}$.-... |  | 7, 573, 751 | 8, 042, 260 | 7,614, 813 | 7, 108, 954 | 6, 864, 101 | 6,849, 653 | 6, 240, 632 | 12, 241, 316 | 18, 783, 088 | 20, 159, 263 | 21, 477, 048 |
| 10. Average of stockholders' investment ${ }^{2}$. |  | 7, 573, 751 | 6,706, 470 | 5, 156, 063 | 5, 044, 913 | 5, 088, 368 | 5,257, 560 | 5, 483, 192 | 8,511,966 | 11, 743, 112 | 13, 536,915 | 15, 070,076 |
| income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |  |
| 11. Applicable to total investment.- |  | 998, 948 | ${ }^{3} 2,563,878$ | ${ }^{2} 174,724$ | 469, 559 | 78, 698 | 582, 027 | 300, 402 | 725,483 | 943, 474 | 1, 436,852 | 1,440, 974 |
| 12. Applicable to stockholders' in- |  | 998, 948 | ${ }^{3} 2,740,395$ | ${ }^{3} 376,942$ | 296, 447 | ${ }^{3} 69,474$ | 446, 134 | 203, 377 | 277, 424 | 486, 105 | 1,009,682 | 1,031, 250 |
| Rate of return on total investment ( $11 \div 9$ ) $\qquad$ percent |  | 13. 19 | ${ }^{3} 31.88$ | 32. 29 | 6.61 | 1.15 |  | 203 4.81 | 5.93 | 5.02 | $1,00,68$ 7.13 | 1,031 6.71 |
| Rate of return on swokholders' investment $(12 \div 10)$ $\qquad$ percent. |  | 13. 19 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 3.7 |  | 4.14 | 7.46 | 6.84 |


|  | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Annual a verage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Capital stock (common) | \$15, 188, 400 | \$15, 188, 400 | \$15, 188, 400 | \$15, 188, 400 | \$15, 188, 400 | \$15, 188, 400 | \$15, 188, 400 |  |
| 2. Scrip and fractlonal shares | 2, 955 | 2, 893 | 2,861 | 2,861 | 2,861 | 2,861 | 2, 853 |  |
| 3. Surplus-earned and capital | 1,022, 661 | 587, 379 | 533, 464 | 690,511 | 1,095, 268 | 1,148, 123 | 942, 349 |  |
| 4. Capital stock and surplus. | 16, 214, 016 | 13, 778, 672 | 13, 724, 725 | 15, 881, 772 | 10, 236, 529 | 16, 339, 384 | 16, 133, 602 |  |
| 5. Less goodwill, appreciation and other intanglbles |  |  | 1,500, 000 | 1,500, 000 | 1,500,000 | 1,500, 000 | 1,500, 000 |  |
| 6. Stockholders' investment | 14, 714, 016 | 14, 278, 672 | 14, 224, 725 | 14, 381, 772 | 14, 786, 529 | 14, 839, 384 | 14, 633, 602 |  |
| 7. Long-term debt | 6, 073, 530 | 6, 013, 500 | 5, 785, 000 | 5,200, 000 | 4, 374, 018 | 3,799, 330 | 3, 445, 000 |  |
| 8. Total investment. | 20, 787, 546 | 20, 292, 172 | 20,009, 725 | 19,581, 772 | 19, 160, 547 | 18, 638, 714 | 18, 078, 602 |  |
| 9. A verage of total investment ${ }^{3}$ | 21, 008, 421 | 20, 539, 859 | 20, 150, 948 | 19,795, 748 | 19, 371, 159 | 18, 899, 630 | 18, 358, 658 | \$14, 504, 406 |
| 10. Average of stockholders' investment ${ }^{2}$ Net lncome before deducting Federal income and pronts taxes: | 14, 876, 406 | 14, 496, 344 | 14, 251, 698 | 14, 303, 248 | 14, 584, 150 | 14, 812, 956 | 14, 736, 493 | 10,624, 093 |
| 11. Applicable to total investment..................... | 644, 908 | 290,090 | 177, 212 | 119, 737 | 400, 993 | 119, 859 | ${ }^{2} 116,438$ | 326, 343 |
| 12. Applicable to stockholders' investment. | 259, 572 | ${ }^{2} 63,238$ | ${ }^{3} 161,045$ | ${ }^{3} 201,508$ | 113, 797 | ${ }^{1} 128,062$ | ${ }^{2} 331,702$ | 60,354 |
| Rate bl return on total investment ( $11+9)$.-........................ percent.. Rate of return on stockholders | 3.07 | 1. 41 | 0.88 | $\bigcirc 0.60$ | 2.07 | 0.63 | ${ }^{3} 0.63$ | 2. 25 |
| Rate of return on stockholders' investment (12ب10)........................ - ${ }^{\text {do }}$. | 1.74 | 3. 44 | ${ }^{3} 1.13$ | ${ }^{3} 1.41$ | . 78 | 3. 86 | ${ }^{3} 2.25$ | . 57 |

[^37]Appendix Table 8a.-Summary of income, expenses, and surplus for Porto Rican American Tobacco Co., 1920-37

|  | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$15, 706, 765 | \$7, 451, 358 | \$9, 313, 488 | \$9, 281, 557 | \$7,849, 682 | \$7, 329, 857 | \$6, 538, 044 | \$5, 480, 429 | \$4, 762, 371 | \$4, 358, 085 |
| Cost of goods sold Distribution and administrative expense | $\begin{array}{r} 12,994,068 \\ 1,475,776 \end{array}$ | $8,167,094$ 985,323 | $8,142,007$ $1,074,363$ | $7,827,275$ 985,268 | $6,743,734$ $1,069,028$ | $5,888,361$ 876,725 | $5,411,628$ 854,861 | $4,873,222$ 843,542 | $4,017,416$ 767,773 | $\begin{array}{r} 3,552,680 \\ 764,062 \end{array}$ |
| Total operating expenses | 14, 469, 844 | 9,152, 417 | 9, 216, 370 | 8,812,543 | 7,812,762 | 6, 765, 086 | 6, 266, 489 | 5,716, 764 | 4, 785, 189 | 4, 316, 742 |
| Net profit on sales. Other income (net) | $\begin{array}{r} 1,236,921 \\ 1237,973 \end{array}$ | $\begin{array}{r} 11,701,059 \\ 1862,819 \end{array}$ | $\begin{array}{r} 97,118 \\ +271,842 \end{array}$ | 469,014 545 | $\begin{aligned} & 36,920 \\ & 41,778 \end{aligned}$ | $\begin{array}{r} 564,771 \\ 17,256 \end{array}$ | $\begin{array}{r} 271,555 \\ 28,847 \end{array}$ | $\begin{array}{r} 1236,335 \\ 961,818 \end{array}$ | $\begin{array}{r} 122,818 \\ 966,292 \end{array}$ | $\begin{array}{r} 41,343 \\ 1,395,509 \end{array}$ |
| Net income applicable to total investment Less interest on long-term debt | 998, 948 | $\begin{array}{r} 12,563,878 \\ 140,517 \end{array}$ | 1 174,724 202,218 | 469,559 173,112 | $\begin{array}{r} 78,698 \\ 148,172 \end{array}$ | $\begin{aligned} & 582,027 \\ & 135,893 \end{aligned}$ | $\begin{array}{r} 300,402 \\ 97,025 \end{array}$ | $\begin{aligned} & 725,483 \\ & 448,059 \end{aligned}$ | $\begin{aligned} & 943,474 \\ & 457,369 \end{aligned}$ | $\begin{array}{r} 1,436,852 \\ 427,170 \end{array}$ |
| Net income applicable to stockholders' investment <br> Provision for Federal income and prots | 998, 948 | 1 2, 704, 395 | 1376,942 | $\begin{array}{r} 296,447 \\ 19,723 \end{array}$ | $\begin{array}{r} 169,474 \\ 12,894 \end{array}$ | $\begin{array}{r} 446,134 \\ 48,852 \end{array}$ | $\begin{array}{r} 203,377 \\ 28,187 \end{array}$ | $\begin{array}{r} 277,424 \\ 12,906 \end{array}$ | $\begin{array}{r} 486,105 \\ 11,079 \end{array}$ | 1,009,682 |
| Net income for the ye Surplus beginning of year | $\begin{array}{r} 998,948 \\ 1,557,619 \end{array}$ | $\begin{array}{r} 12,704,395 \\ 1,959,343 \end{array}$ | $\begin{array}{r} 1376,942 \\ 376,822 \end{array}$ | $\begin{array}{r} 276,724 \\ 8.669 \end{array}$ | $\begin{array}{r} 182,368 \\ 310,114 \end{array}$ | $\begin{aligned} & 397,282 \\ & 236,416 \end{aligned}$ | $\begin{aligned} & 175,190 \\ & 633,698 \end{aligned}$ | $\begin{aligned} & 264,518 \\ & 687,680 \end{aligned}$ | $\begin{aligned} & 475,026 \\ & 758,246 \end{aligned}$ | $\begin{aligned} & 1,009,682 \\ & 1,216,932 \end{aligned}$ |
|  | $2,556,567$ 597,224 | $\begin{array}{r} 1745,052 \\ 149,306 \end{array}$ | 1120 | 285, 393 | 227, 746 | 633,698 | 808, 888 | $\begin{aligned} & 952,198 \\ & 534,846 \end{aligned}$ | $1,233,272$ 178,282 | $\begin{array}{r} 2,226,614 \\ 891,406 \end{array}$ |
| Revaluation of goodwill | 1, 959, 343 | $\begin{array}{r} 1894,358 \\ 21,293,400 \end{array}$ | 1120 | 285, 393 | 227, 746 | - 663,698 | 808, 888 | 417, 352 | 1,054, 990 | 1,335, 208 |
| Revalustion of securitieq. Adjustment of inventory |  |  |  |  |  |  |  | ${ }^{2} 232,772$ |  | 405, 939 |
| Proceeds from settlement of damage suit against <br> American Tobacco Co <br> Other additions or deductions (net) |  | 22, 220 | 28,789 | 2 24, 721 | 1 8,670 |  | 121, 208 | ${ }^{3} 8122$ | ${ }^{2} 161,942$ | $\begin{array}{r} \quad 3992,251 \\ \quad 85,293 \end{array}$ |
| Surplus end of the year | 1,959, 343 | 376.822 | 8,669 | 310.114 | 236, 416 | 633.698 | 687, 680 | 758,246 | 1,216, 932 | 1, 406, 813 |



[^38]Appendix Table 9.-Summary of investments, profits, and rates of return for Consolidated Cigar Co., 1919-37

|  | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Capital stock: |  |  |  |  |  |  |  |  |  |  |
| 1. Preferred | 500 | $\begin{gathered} \$ 3,910,000 \\ 3,600,000 \end{gathered}$ | $\begin{gathered} \$ 4,149,500 \\ 4,140,000 \end{gathered}$ | $\begin{array}{r} \$ 4,094,300 \\ 4,140,000 \end{array}$ | $\begin{array}{r} \$ 4,070,800 \\ 5,168.550 \end{array}$ | $\begin{array}{r} \$ 4,073,000 \\ 5,241,825 \end{array}$ | $\begin{array}{r} \$ 4,073,000 \\ 5 ; 241,825 \end{array}$ | $\begin{gathered} \$ 3,968,000 \\ 5,202,425 \end{gathered}$ | $\begin{gathered} \$ 3,659,000 \\ 11.855 .684 \end{gathered}$ | $\begin{array}{r} \$ 14,579,000 \\ 11.855,684 \end{array}$ |
| 3. Total | 527, 500 | 7,510,000 | 8, 289, 500 | 8, 234, 300 | 9, 239,350 | 9, 314, 825 | 9, 314, 825 | $9,170,425$ | 15, 514,684 | 26, 434, 684 |
| 4. Surplus--arned and capital | 195, 200 | 525, 204 | 8,887 | 1799,287 | 179,390 | 271, 112 | 1,040,004 | 1, 899,829 | 2, 315, 418 | 1, 983, 532 |
| 5. Surplus and contingency reserves |  |  |  | 6, 390 | 10, 162 | 52, 513 | 25, 846 | 35, 664 | 47,030 | 58, 396 |
| 6. Reserve for Federal income and State taxe | 33, 270 | 166,000 | 380, 821 | 13, 500 | 115, 000 | 67,000 | 169,000 | 240, 000 | 489, 000 | 292, 550 |
| 7. Capital stock and surplus | 755, 970 | 8, 201, 204 | 8, 679, 208 | 7, 454, 903 | 9, 543, 902 | 9, 705, 450 | 10, 549, 675 | 11, 445, 918 | 18, 366, 132 | 28, 769, 162 |
| 8. Long-term debt ${ }^{3}$ |  |  | 210, 296 | 198,593 | 206, 765 | 182, 807 | 170, 711 | 2, 511, 302 | 10, 172, 000 | 530,750 |
| 9. Total investment | 755, 970 | 8, 201, 204 | 8, 889, 504 | 7, 653, 496 | 9,750,667 | 9, 888, 257 | 10,720, 386 | 13, 957, 220 | 28,538, 132 | 29, 2c9, 912 |
| 10. Average of totel investment ${ }^{3}$ |  | 4, 478,587 | 8,545, 354 | $8,271,500$ | 8, 702, 082 | 9, 819, 482 | 10, 304, 321 | 12, 338, 803 | 21, 247, 676 | 28, 919, 022 |
| 11. Average of stockholders' investment ${ }^{\text {d }}$ |  | 4, 478,587 | 8, 440, 206 | 8,067.055 | 8, 499, 402 | 9, 624, 676 | 10, 127, 562 | 10, 997, 796 | 14,906, 025 | 23, 567,647 |
| 12. A verage of common stockholders' equity ${ }^{\text {a }}$ |  | 2, 523,587 | 4, 410, 456 | 3, 945, 155 | 4, 416, 852 | 5, 552, 776 | 6, 054, 562 | 6,977, 296 | 11,092, 525 | 14, 448, 647 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |
| 13. Applicable to total investment.. |  | 585, 520 | 2, 177, 042 | 2+9, 212 | 1,182,653 | 538, 429 | 1,257, 474 | 1,896, 827 | 2, 883, 410 | 3, 813,756 |
| 14. Applicable to stockholders' investment |  | 585,520 | 2, 173, 720 | 236, 233 | 1,170, 290 | 525, 984 | 1, 246, 432 | 1, 753,162 | 2, 720, 955 | 3,195,688 |
| 15. Applicable to common stockholders' equity |  | 437, 266 | 1,913, 229 | ${ }^{2} 52,300$ | 1,089,900 | 241, 224 | 961,672 | 1,265, 586 | 1,674,822 | 2, 791,414 |
| Rate of return on total investment ( $13+10$ ). percent.- |  | 13.07 | 25.48 | 3.01 | 13.59 | 5.48 | 12. 20 | 15.37 | 13.57 | 13.19 |
| ate of return on stockbolders' investment ( $14 \div 11$ ) <br> percent |  | 13.07 | 25. 75 | 2.93 | 13.77 | 5. 46 | 12.31 | 5.94 | 18. 25 | 13.56 |
| Rate of return on common stockholders' equity ( 15 12) percent |  | 17.33 | 43.38 | 11.33 | 24. 68 | 4.34 | 15.88 | 18.14 | 15. 10 | 19.32 |


|  | 1929 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 193i | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  | \$14, 053, 000 | \$13, 342, 400 | \$12, 661,000 | \$11, 711, 200 | \$10, 905, 900 | \$10, 726, 900 | \$10, 431, 700 | \$10, 162, 300 | 3,300 |  |
| 2. Common. | 11, 855, 684 | 11, 855, 684 | 11, 855, 684 | 11, 855, 684 | 2, 500, 000 | 2, 500, 000 | 2, 500, 000 | 2, 500, 000 | 2, 500, 000 | 2, 500, 000 |  |
| 3. Total | 26, 354, 684 | 25,908. 684 | 25, 198, 084 | 24, 516, 684 | 14, 211, 200 | 13, 405,900 | 13, 226, 900 | 12,931, 700 | 12, 662, 300 | 12,338,300 |  |
| 4. Surplus-carned and capital.- | $\begin{array}{r}2,655, \\ 70,451 \\ \hline\end{array}$ | 3, 747,387 | ${ }^{3}, 75,781$ | -70,303 | -68,809, | -66,874 | 66, 395 | 18,000 | 18,692 | 19, 692 |  |
| 6. Reserve for Federal income and State | 509, 300 | 406, 100 | 329, 500 | 310, 000 | 10, 500 | - 37,618 | 47,738 | 75, 427 | 188, 548 | 213, 178 |  |
| 7. Capital stock and surplus | 29, 590, 220 | 29, 535, 240 | 28, 907, 824 | 28, 467, 390 | 17, 031, 121 | 16, 177,044 | 16, 145, 566 | 15, 711, 546 | 15, 634, 262 | 15, 447, 547 |  |
| 8. Long-term debt | 451, 000 | 432, 750 | 415; 500 | 340, 250 | 321, 000 | 235, 875 |  |  |  |  |  |
| 9. Total investment | 30, 041, 220 | 29, 967, 990 | 29, 323, 324 | 28, 807, 640 | 17,352, 121 | 16, 412, 919 | 16, 145, 566 | 15, 711, 546 | 15, 634, 262 | 15, 447, 574 |  |
| 10. A verage of total investment ${ }^{3}$ | 29, 670, 666 | 30,004, 605 | 29, 645, 657 | 29, 065, 482 | 23, 079, 880 | 16, 882, 520 | 16, 279, 242 | 15, 928, 555 | 15, 672, 904 | 15, 540, 904 | 17, 599, 849 |
| 11. A verage of stockholders' lnvestment ${ }^{3}$ | 29, 179,691 | 29,562, 730 | 29, 221, 532 | 28,687, 607 | 22, 749, 255 | 16, 604, 082 | 16, 161, 305 | 15, 923, 556 | 15, 5727204 | ${ }_{5}^{15,540}$, 904 | $16,737,764$ $8,317,288$ |
| Net income before deducting Federal lncome <br> 12. Average of common stockholders' equity ${ }^{3}$........ and profits taxes: | 14, 640, 691 | 15, 286, 730 | 15, 523,832 | 15,685, 907 | 10, 503, 255 | 5, 290, 532 | 5,344,905 | 5, 349, 256 | $5,375,904$ | $5,440,004$ | 3, 317,288 |
| 13. Applicable to total investment. | 4, 139, 239 | 3, 731, 462 | 2, 718, 163 | 2, 440, 827 | 956, 449 | 561, 356 | 841.052 | 631, 492 | 1,001, 038 | 1,111, 744 | 1,721,955 |
| 14. Applicable to stock holders' investment | 4, 104, 598 | 3, 706, 390 | 2, 694, 035 | 2. 418,573 | 935, 858 | 541, 929 | 827,730 | ${ }_{169}^{631,492}$ | 1, 001,038 | 1, 111,744 | 1,662, 171 |
| 15. Applicable to common stockholders' equity- | 3,141, 875 | 2, 756, 751 | 1, 786, 760 |  |  |  | 115.376 |  | 32,776 6.39 |  | $1,063.539$ 9.78 |
| Rate of return on total investment ( $13 \div 10) \ldots \ldots$ | 13.95 | 12. 44 | 9. 9.22 | $\begin{aligned} & 8.40 \\ & 8.43 \end{aligned}$ | 4.14 4.11 | 3. 33 3.25 | 5. <br> 5.12 | 3. ${ }^{\text {3. }} 96$ | 6.39 6.39 | 7.15 | 9.78 |
| Rate of return on stockholders ${ }^{\text {andestment }}$ (14-11). Rate of return on common stockholders equity $(15 \div 12)$ |  |  | 9.22 | 8.43 9.93 | 1.08 | 3.73 | 2.16 | I. 30 | 6. 00 | 3.15 | 12.85 |

[^39]Appendix Table 9a.-Summary of income expenses and surplus for Consolidated Cigar Co., 1919-37

|  | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales. | \$8,215, 883 | \$20, 971, 231 | \$15, 850, 083 | \$16, 280, 550 | \$15, 024, 284 | \$15, 403, 779 | \$15, 209, 695 | \$21, 693, 396 | \$27, 202,378 | \$27, 148, 250 |
| Cost of goods sold. <br> Distribution and administrative expenses. | $\begin{array}{r} 6,880,980 \\ 603,529 \end{array}$ | $\begin{array}{r} 17,125,364 \\ 1,226,309 \\ \hline \end{array}$ | $\begin{array}{r} 13,681,917 \\ 1,428,651 \end{array}$ | $\begin{array}{r} 13,054,897 \\ 1,697,867 \end{array}$ | $\begin{array}{r} 12,269,811 \\ 1,769,896 \end{array}$ | $\begin{array}{r} 12,061,157 \\ 1,620,630 \end{array}$ | $\begin{array}{r} 11,263,757 \\ 1,702,979 \end{array}$ | $\begin{array}{r} 15,489,085 \\ 2,628,310 \end{array}$ | $\begin{array}{r} 19,017,940 \\ 3,922,622 \end{array}$ | $\begin{array}{r} 17,871,087 \\ 4,348,472 \end{array}$ |
| Total operating expenses | 7, 484, 509 | 18,351,673 | 15, 110, 568 | 14,752, 764 | 14, 039, 707 | 13,681, 787 | 12, 066, 736 | 18, 117, 395 | 22, 904, 562 | 22, 219, 559 |
| Net profit on sales. Other income (net) | $\begin{array}{r} 731,374 \\ 1145,854 \end{array}$ | $\begin{array}{r} 2,619,558 \\ 1442,516 \end{array}$ | $\begin{array}{r} 739,515 \\ 1490,303 \end{array}$ | $\begin{array}{r} 1,527,786 \\ 1345,133 \end{array}$ | $\begin{array}{r} 984,577 \\ 1446,148 \end{array}$ | $\begin{array}{r} 1,721,992 \\ 1464,518 \end{array}$ | $\begin{array}{r} 2,242,959 \\ 1346,132 \end{array}$ | $\begin{array}{r} 3,576,001 \\ 1692,591 \end{array}$ | $\begin{array}{r} 4,261,816 \\ 1448,060 \end{array}$ | $\begin{gathered} 4,928,691 \\ 1 \\ 789,452 \end{gathered}$ |
| Net income a pplicable to total investment Less interest on long-term debt. | 585, 520 | $\begin{array}{r} 2,177,042 \\ 3,322 \end{array}$ | $\begin{array}{r} 249,212 \\ 12,979 \end{array}$ | $\begin{array}{r} 1,182,653 \\ 12,363 \end{array}$ | $\begin{array}{r} 538,429 \\ 12,445 \end{array}$ | $\begin{array}{r} 1,257,474 \\ 11,042 \end{array}$ | $\begin{array}{r} 1,896,827 \\ 143,665 \end{array}$ | $\begin{array}{r} 2,383,410 \\ 162,455 \end{array}$ | $\begin{array}{r} 3,813,756 \\ 618,068 \end{array}$ | $\begin{array}{r} 4,139,239 \\ 34,641 \end{array}$ |
| Net income applicable to stockholder's Investment. Provision for Federal income and profits taxes.......... | $\begin{aligned} & 585,520 \\ & 117,500 \end{aligned}$ | $\begin{array}{r} 2,173,720 \\ 275,273 \end{array}$ | 236, 233 | $\begin{array}{r} 1,170,290 \\ 115,000 \end{array}$ | $\begin{array}{r} 525,984 \\ 54,000 \end{array}$ | $\begin{array}{r} 1,246,432 \\ 165,000 \end{array}$ | $\begin{array}{r} 1,753,162 \\ 230,000 \end{array}$ | $\begin{array}{r} 2,720,955 \\ 348,200 \end{array}$ | $\begin{array}{r} 3,195,688 \\ 274,050 \end{array}$ | $\begin{array}{r} 4,104,598 \\ 490,800 \end{array}$ |
| Net income for the year. Surplus beginning of year | $\begin{aligned} & 468,020 \\ & 195,200 \end{aligned}$ | $\begin{array}{r} 1,898,447 \\ 525,204 \end{array}$ | $\begin{array}{r} 236,233 \\ 8,887 \end{array}$ | $\begin{array}{r} 1,055,290 \\ 1799,287 \end{array}$ | $\begin{aligned} & 471,984 \\ & 179,390 \end{aligned}$ | $\begin{array}{r} 1,081,432 \\ 271,112 \end{array}$ | $\begin{aligned} & 1,523,162 \\ & 1,040,004 \end{aligned}$ | $\begin{aligned} & 2,372,755 \\ & 1,999,829 \end{aligned}$ | $\begin{aligned} & 2,921,638 \\ & 2,315,418 \end{aligned}$ | $\begin{aligned} & 3,613,798 \\ & 1,983,532 \end{aligned}$ |
| Total. | 663, 220 | 2, 423,651 | 245, 120 | 256, 003 | 651,374 | 1,352, 544 | 2,563,166 | 4,372, 584 | 5, 237,056 | 5, 597, 330 |
| Less dividends paid onCommon stock in cash Common stock in stock |  | 631,125 540,000 | 181,003 |  |  |  |  | $\cdots$ | 1,749,937 | 1,749,937 |
| Preferred stock in cash | 148, 254 | 260, 491 | 288, 533 | 80, 390 | 284, 760 | 284, 760 | 487, 576 | 1,046, 133 | 404, 274 | 962, 723 |
| Total <br> Writ 3-down of inventory value | 148, 254 | $\begin{array}{r} 1,431,616 \\ 978,998 \end{array}$ | $\begin{aligned} & 469,536 \\ & 707,007 \end{aligned}$ | 80,390 | 284, 760 | 284, 760 | 487, 576 | 1,046, 133 | 2, 154, 211 | 2,712, 660 |
| Reserve for contlingencies. <br> Dlscounts, premiums, and expenses re: issuance and retirement of securities |  |  |  |  | 99, 295 |  | 75,153 | 142, 224 | 240, 720 | 173, 901 |
| Other addltions or reductions (net) | 210,238 | 4,150 | ${ }^{2} 132,136$ | ${ }^{2} 3,777$ | ${ }^{2}$ 3, 793 | 27, 780 | 608 | $\begin{array}{r} 847,036 \\ 21,773 \end{array}$ | $\begin{array}{r} 816,874 \\ 41,719 \end{array}$ | 54, 984 |
| Surplus end of the year. | 525, 204 | 8,887 | ${ }^{1} 799,287$ | 179, 390 | 271,112 | 1,040,004 | 1,999,829 | 2, 315, 418 | 1,983,532 | 2,655,785 |


|  | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$28.371, 051 | \$25, 214, 788 | \$21, 582, 270 | \$12, 831, 182 | \$9, 197, 924 | \$10, 240, 135 | \$9, 549, 273 | \$10, 022, 349 | \$11, 001, 394 | \$321, 015, 895 |
| Cost of goods sold | 19, 157, 233 | 17, 037, 882 | 14, 246, 333 | 8, 373, 236 | 6, 071, 353 | 6, 824, 076 | 6,320, 945 | 6, 467, 834 | 7, 086, 853 | $230,301,740$ |
| Distribution and administrative exp | 4,914,651 | 4,912, 707 | 4, 402, 205 | 3, 176, 078 | 2, 283,932 | 2, 357, 419 | 2, 385, 228 | 2, 326, 694 | 2, 567, 193 | $50,275,372$ |
| Total opera | 24, 071, \& 34 | 21,950, 589 | 18, 648, 538 | 11, 549, 314 | 8, 355, 285 | 9, 181, 49.5 | 8, 706, 173 | 8, 794, 528 | 9, 654, 046 | 280, 577, 112 |
| Net profit on sales. | 4, 299, 167 | 3, 264, 199 | 2, 933, 732 | 1, 287, 868 | 842,639 | 1. 058, 640 | 843,100 | 1,227, 821 | 1,347, 348 | 40, 438, 783 |
| Other income (net) | ${ }^{1} 567,705$ | ${ }^{1} 546,036$ | 1 492,905 | 1331,419 | : 281, 283 | ${ }^{1} 217,589$ | 1211,608 | 1226,783 | 1235,604 | 7, 721, 639 |
| Net income applicable to total investme | 3, 731, 462 | 2, 718, 163 | 2, 440, 827 | 956, 449 | 561, 356 | 841, 051 | 631, 492 | 1, 001, 038 | 1, 111, 744 | $32,717,144$ |
| Less interest on long-term debt.-.-.-.-- | 25, 072 | 24, 128 | 22, 254 | 20,591 | 19.127 | 13, 322 |  |  |  | $1,135,774$ |
| Net income applicable to stockholder's investment | 3, 706, 390 | 2, 694, 035 | 2, 418, 573 | 935, 858 | 541, 929 | 827, 729 | 631, 492 | 1, 001, 038 | 1, 111, 744 | 31, 581, 370 |
| Provision for Federal income and profits taxes | 392, 300 | 321, 500 | 296, 400 |  | 44, 150 | 49,513 | 78,350 | 188, 000 | 219, 170 | 3,659, 206 |
| Net income for the y | 3, 314, 090 | 2, 372, 535 | 2, 122, 173 | 935,858 570 | -497, 779 | 778, 216 | 553, 142 | 813, 038 | 892, 574 | 27, 922, 164 |
| Surplus, beginning of year | 2,655, 785 | 3, 147, 069 | 3, 304, 459 | 3, 570, 403 | 2, 740,612 | 2,666, 652 | 2, 804, 533 | 2, 686, 419 | 2, 766, 722 |  |
| Tot | 5,969, 875 | 5, 519, 604 | 5,426, 632 | 4, 506. 261 | 3.238, 391 | 3, 444, 868 | 3,357, 675 | 3, 499, 457 | 3, 659, 296 |  |
| Less dividends paid onCommon stock in eash | 1, 749,941 | 1,374,952 | 1, 249, 960 | 187, 484 |  |  |  |  | 187, 500 | $9,061,83$ |
| Common stock in stock |  |  |  |  |  |  |  |  |  | $\begin{array}{r} 540,000 \\ \text { 1) } 279 \quad 136 \end{array}$ |
| Preferred stock in cash | 949, 639 | 907, 275 | 861, 239 | 821, 876 | 739,513 | 712, 353 | 700, 969 | 678, 262 | 660, 116 | 11, 279, 136 |
| Total. | 2.699, 580 | 2, 282, 227 | 2,111, 199 | 1, 009, 360 | 739,513 | 712, 353 | 700,969 | 678, 262 | 847,616 | 20, 880, 975 |
| Write-down of inventory vai |  |  |  | 1, 242, 650 |  |  |  |  |  | 2, 928,655 |
| Reserved for contingeneies Discounts, premiums, and expenses re issuance and | 15, 000 |  |  |  |  |  |  |  |  | 746, 29 |
| Discounts, premiums, and expenses re issuance and retirement of securities | 290,890 | ${ }^{2} 210,175$ | ${ }^{2} 273,235$ | 2 487, 564 | 2 437, 214 | 184,089 | ${ }^{2} 27,835$ | 2 52, 003 | ${ }^{2} 58,133$ | ${ }^{2} 57,22$ |
| Write-down on value of fixed capi |  |  |  | 1, 450, 133 |  |  |  |  |  | 1,450, 133 |
| Goodwill written ofi. .-...-.-.-........ |  |  |  | 7, 905, 551 |  |  |  |  |  | $\begin{array}{r} 7,905,551 \\ 29,355,684 \end{array}$ |
| Reduction in stated value of common Other additions or deductions (net) - - | 199, 116 | 143, 093 | 218,26 | $\begin{array}{r} 29,355,684 \\ 1,203 \end{array}$ | 269, 440 | 12, 071 | 2 1,878 | 106, 476 | ${ }^{2} 6,564$ | $\begin{array}{r} 29,355,684 \\ 742,292 \end{array}$ |
| Surplus, end of the year. | 3,147, 069 | 3, 304, 459 | 3, 570, 403 | 2. 740.612 | 2, 666, 652 | 3.804, 533 | 2.686. 419 | 2, 766.722 | 2, 876, 377 |  |

[^40]Appendix Table 10.-Summary of investments, profits, and rates of return for Bayuk Cigars, Inc., 1917-s7


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  |  |  |  |  |
| 2. Common. | $\$ 4,449,800$ $3,015,369$ | $\$ 4,126,800$ $2,743,881$ | $\$ 3,888,200$ $2,752,045$ | $\$ 3.439,400$ $2,570,042$ | $8,090,000$ $2,566,687$ | $\$ 2,766,800$ $2,628,521$ | $\$ 2,500,500$ $2,804,234$ | $\$ 2.379,400$ $2,986,913$ | $\$ 2,157,500$ $2,987,047$ | $\$ 1,876,700$ $2,987,047$ |  |
| 3. Total | 7,465, 169 | 6,870, 681 | 6,640,245 | 6, 009, 042 | 5,656,687 | 5, 395, 321 | 5, 304, 734 | 5, 366, 313 | 5, 144, 547 | 4, 863, 747 |  |
| 4. Surplus-earned and capital | 4, 493, 383 | 5, 283, 194 | 5, 253, 959 | 3, 986, 208 | 2,683,703 | 3,268, 291 | 3,756,735 | 4, 273, 722 | 4,676,740 | 5, 102, 280 |  |
| 5. Surplus and contingency reserves | 152, 662 | 187, 386 | 127, 498 | 627, 267 | 1, 147, 551 | 673, 458 | 209,780 |  |  |  |  |
| 6. Reserve for Federal income and $p$ | 185, 450 | 161,576 | 70,316 |  |  | 13,000 | 101,635 | 182, 940 | 246, 096 | 322, 273 |  |
| 7. Capital stock and surplus | $12,296,664$ | $12,502,837$ | $12,0,92,018$ | $\begin{array}{r} 10,622,517 \\ 226,000 \end{array}$ | $9,487,941$ 200,000 | $9,350,070$ 175,000 | $9,472,884$ | 9,822,975 | $10,067,383$ | $\begin{array}{r} 10,288,300 \\ 19,250 \end{array}$ |  |
| 9. Total investment | 12, 640, 664 | 12, 810,837 | 12, 364,018 | 10,858, 517 | 9, 687,941 | 9, 525, 070 | 9, 622, 884 | 9, 822, 975 | 10, 087, 88.3 | 10, 307, 550 |  |
| 10. A verage of total investment | 12, 338, 923 | 12, 725, 750 | 12, 587, 427 | 11,611, 297 | 10, 273, 229 | 9,606, 505 | 9, 573, 977 | 9, 722,929 | 9, 955, 429 | 10, 197, 716 | \$7,496, 152 |
| 11. Average of stockholders' investment 1 | 11,964, 423 | 12, 399, 750 | 12, 297, 427 | 11, 357, 267 | 10,055, 229 | 9, 419.005 | 9, 411, 477 | 9,647, 929 | 9, 945, 179 | 10, 177, 841 | 7,349,655 |
| 12. Average of common stockholders' equity ${ }^{1}$ Net income before deducting Federal income and profits taxes: | 6,816, 223 | 8,111, 450 | 8, 289, 927 | 7,693, 667 | 6, 790, 729 | 6,490,605 | 6,777,827 | 7, 207, 979 | 7,676, 729 | 8, 160, 741 | 4, 692, 119 |
|  | 1,465, 464 | 1, 497, 125 | 668, 753 | 271, 446 | 2 1.249, 026 | 689, 274 | 1,043, 439 | 1, 193, 255 | 1, 222, 093 | 1, 251,712 | 799, 921 |
| 14. Applicable to stockholders' investment | 1, 445, 339 | 1, 477, 115 | 650, 903 | 255, 756 | ${ }^{2} 1,262,556$ | 677,711 | 1, 033, 377 | 1, 193, 255 | 1, 222,093 | 1, 251,712 | 792, 074 |
| 15. Applicable to common stock bolders' equity. | 1, 082, 353 | 1, 179, 944 | 370, 579 | 1,061 | ${ }^{2} 1,488,700$ | 477, 208 | 851, 445 | 1, 023,489 | 1, 070, 568 | 1,119, 219 | 604, 087 |
| percent | 11.88 | 11.76 | 5.31 | 2.34 | ${ }^{2} 12.16$ | 7. 18 | 10.90 | 12.27 | 12. 28 | 12.27 | 10.67 |
| $(14 \div 11)$ | 12.08 | 11.91 | 5. 29 | 2. 25 | ${ }^{2} 12.56$ | 7.20 | 10.98 | 12.37 | 12.29 | 12.30 | 10.78 |
| $(15 \div 12)$ | 15.88 | 14.55 | 4.47 | . 01 | ${ }^{2} 21.92$ | 7.35 | 12. 56 | 14.20 | 13.95 | 13.71 | 12.87 |

1 Average of investment at beginning and end of year.
${ }^{1}$ Denotes loss.
124491-41-pt. $31-9$
Appendix Table 10a.-Summary of income, expenses, and surplus for Bayuk Cigars, Inc., 1917-37

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$3, 728, 894 | \$3, 981, 461 | \$5, 202, 078 | \$9, 654, 923 | \$9,580, 144 | \$10, 427, 17- | \$11,997, 811 | \$12, 197, 451 | \$11, 828, 669 | \$12, 384, 504 | \$14, 479, 202 |
| Cost of goods sold | 3, 195, 046 <br> 260, 302 | $\begin{array}{r} 3, \\ 351,695 \\ 359,333 \end{array}$ | $\begin{aligned} & 4,391,149 \\ & 500,836 \end{aligned}$ | $\begin{array}{r} 8,349,620 \\ 733,944 \end{array}$ | $\begin{array}{r} 8,038,031 \\ 800,445 \end{array}$ | $\begin{array}{r} 8,161,079 \\ 944,927 \end{array}$ | $\begin{aligned} & 9,863,761 \\ & 1,071,116 \end{aligned}$ | $\begin{array}{r} 10,073,116 \\ 1,172,723 \end{array}$ | $\begin{aligned} & 9,782,183 \\ & 1,278,135 \end{aligned}$ | $\begin{aligned} & 9,881,142 \\ & 1,295,966 \end{aligned}$ | $\begin{array}{r} 11,102,460 \\ 1,642,775 \end{array}$ |
|  | 3,455,348 | 3, 711, 028 | 4, 891, 985 | 9, 086, 564 | 8, 838,476 | 9, 106, 006 | 10,934, 877 | 11,245, 839 | 11, 060, 318 | 11, 177, 108 | 12, 745, 235 |
|  |  |  | 310, 093 | 568, 359 | 741, 668 | 1, 321, 171 | 1, 062,304 | 951, 612 | 768, 351 | 1, 207, 396 | $1,733,967$ |
| Net profit on sales Other income, net | 1 23,711 | 144,575 | 134,007 | ${ }^{1} 49,970$ | 164,625 | ${ }^{1} 35,424$ | ${ }^{1} 21,972$ | 40, 061 | 141,077 | 173,635 | ${ }^{1} 115,167$ |
| Net income applicable to total invesiment. interest on long-term debt. | 249,835 | 225, 858 | 276, 086 | $\begin{array}{r} 518,389 \\ 1,650 \end{array}$ | $\begin{array}{r} 677,043 \\ 2,700 \end{array}$ | $\begin{array}{r} 1,285,747 \\ 1,260 \end{array}$ | $\begin{array}{r} 1,040,332 \\ 1,080 \\ \hline \end{array}$ | 991, 673 | 727, 274 | $\begin{array}{r} 1,133,761 \\ 26,125 \\ \hline \end{array}$ | $\begin{array}{r} 1,618,800 \\ 23,125 \end{array}$ |
| Net income applicable to stockbolders' investment | 249,835 60,000 | $\begin{array}{r} 225,858 \\ 13,426 \end{array}$ | $\begin{aligned} & 276,086 \\ & 139,468 \end{aligned}$ | $\begin{aligned} & 516,739 \\ & 168,136 \end{aligned}$ | $\begin{array}{r} 674,343 \\ 179,824 \end{array}$ | $\begin{array}{r} 1,284,487 \\ 156,777 \end{array}$ | $\begin{array}{r} 1,039,252 \\ 139,030 \end{array}$ | $\begin{aligned} & 991,673 \\ & 130,452 \end{aligned}$ | $\begin{array}{r} 727,274 \\ 93,224 \end{array}$ | $\begin{array}{r} 1,107,636 \\ 165,436 \\ \hline \end{array}$ | $\begin{array}{r} 1,595,675 \\ 226,342 \end{array}$ |
| Provision for Federal in Net income for the | 189, 835 | 229, 284 | 136, 618 | 348,603 | 494, 519 | 1, 127, 710 | 900,222 | 861, 221 | 634, 050 | 942,200 | 1, 369, 333 |
| Surplus beginning of year | 94, 082 | 81, 970 | 188, 072 | 176, 434 | 214, 165 | 525, 727 | 455, 205 | 1, 026, 192 |  |  |  |
| Total ------------- | 283, 917 | 311, 254 | 324, 690 | 525, 037 | 708, 684 | 1,653,437 | $1,355,427$ | 1, 887,413 | 2, 296, 189 | 3.019, 240 | 4, 166, 749 |
| Less dividends paid on: Common stock in cash | 201, 947 | 123, 182 | 148, 256 | 156, 635 |  |  |  |  |  |  |  |
| Common stock in stock |  |  |  | 154, 767 | 179, 120 | 193, 720 | 191, 227 | 223, 254 | 216, 680 | 221, 017 | 310,408 |
| Total | 201, 947 | 123, 182 | 148, 256 | 311,402 | 179, 120 | 193, 720 | 191, 227 | 223, 254 | 216, 680 | 221, 017 | 310,408 |
| Transferred to capital stock-common Other additions or deductions-net. |  |  |  | ${ }^{2} 530$ | 3,837 |  | 138, 008 | 2,020 | 2,469 | 807 | 22,786 |
| Surplus end of the year | 81,970 | 188, 072 | 176, 434 | 214, 165 | 525, 727 | 455, 205 | 1, 026, 102 | 1,662,139 | 2, 077, 040 | 2, 797, 416 | 3, 833, 555 |

[^41]
1 Denotes loss.
${ }^{1}$ Additions to surplus.
Appendix Table 11.-Summary of investments, profits, and rates of return for United States Tobacco Co., 1917-37

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1922 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: | \$4,600,000 | \$4,600,000 | \$4, 688,800 | \$4, 688,800 | \$4,688, 800 | \$4,938,000 | \$5, 520,000 | \$5, 520,000 | \$5, 520,000 | \$5, 520,000 | \$5, 520,000 | \$5, 520,000 |
| 2. Common. | 4,600,000 | 4,600,000 | 5, 520,000 | 6,623,800 | 6,623,800 | 7,943, 520 | 7, 948, 800 | 11, 128, 300 | 11, 128, 300 | 11, 128, 300 | 11, 128, 300 | 11, 128, 300 |
| $3 . \mathrm{Total}$ | 9, 200, 000 | 9, 200,000 | 10, 208, 800 | 11, 312, 600 | 11, 312, 600 | 12, 887, 320 | 13, 468, 800 | 16,648, 300 | $16,648,300$ 3 310 | $16,648,300$ 4,361 3 | $16,648,300$ 5,230 | $16,628,300$ $6,283,498$ |
| 4. Surplus-earned and capital | 960,431 | 1, 174, 260 | $1,319,205$ $2,389,297$ | $2,035,175$ $2,677,018$ | 2, 864,937 $2,709,799$ | $3,747,949$ $1,471,939$ | 5, $1,069,919$ | 2, $1,738,417$ |  | $4,361,339$ $3,071,621$ | 5, 726,062 | 6, $4,637,635$ |
| 5. Surplus and contingenoy reserves. <br> 6. Reserve for Federal income and profits taxes | $1,311,462$ 32,357 | $1,999,026$ 306,675 | $2,383,297$ 640,175 | $2,677,018$ 476,305 | $2,709,799$ 416,970 | $1,471,939$ 449,101 | $1,069,919$ 377,731 | $1,738,417$ 405,233 | $\begin{array}{r}2,528,378 \\ 422,863 \\ \hline\end{array}$ | $\begin{array}{r}\text { 3,07, } \\ 425,255 \\ \hline\end{array}$ | $\begin{array}{r}\text { 3, } \\ 472,847 \\ \hline\end{array}$ | $\begin{array}{r}\text { 4, } \\ 521,904 \\ \hline\end{array}$ |
| 7. Capital stock and surplus | 11, 504, 250 | 12, 679, 961 | 14, 557, 477 | 16, 501, 098 | 17, 304, 306 | 18, 556, 309 | 20,398,441 | 21, 730, 787 | 23, 210, 102 | 24, 506, 515 | 26,077, 593 | 28,091, 337 |
| 8. Less: Goodwill, appreciation, and other intangibles. | 4, $6^{4} 1,188$ | 4, 646, 312 | 4, 646, 066 | 4, 642, 890 | 4, 640, 856 | 5,140,651 | 5, 136,630 | 5, 134,004 | 5, 130, 475 | 5, 128,022 | 5, 123, 242 | 5, 117, 820 |
| 9. Total investment | 6, 863, 062 | 8,033,640 | 9, 911,411 | 11, 858, 208 | 12, 663,450 | 13, 415, 658 | 15, 261, 811 | 16, 596, 783 | 18,079, 627 | 19,378, 493 | 20, 954, 351 | 22, 973, 517 |
| 10. A verage of total investment |  | 7,448,355 | 8,972, 530 | 10, 884, 810 | 12, 260, 829 | 13, 039, 554 | 14, 338, 734 | 15, 929, 297 | 17, 338, 205 | 18,729, 060 | 20, 166, 422 | 21, 963, 934 |
| 11. Average of common stockholders' equity 1 |  | 2, 848, 355 | 4, 328, 130 | 6,196, 010 | 7,572,029 | 8, 225, 754 | 9, 109,334 | 10, 409, 297 | 11, 818, 205 | 13, 209, 060 | 14, 646, 422 | 16, 443,934 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  | 2, 872,918 | 3, 106,045 |
| 12. Applicable to total in vestment.- |  | 1,212,504 | 2, 166, 675 | 2,182, 791 | 2, 237, 307 | 2, 338, 152 | 2,393, 516 | 2, 509, 781 | 2,620,614 | 2,707,059 | 2, 372,018 | 3, 106,045 |
| 13. Applicabie to common stockholders' equity. |  | 890,504 | 1,843, 121 | 1, 854, 575 | 1.909, 091 | 1,996, 811 | 2,017, 287 | 2, 123, 381 | 2, 239, 214 | 2, 320,659 | 2,486, 518 | 2,719,645 |
| Rate of return on total investment ( 12 <br> $\div 10$ ) $\qquad$ percent.- |  | 16.28 | 24.15 | 20.05 | 18.25 | 17.93 | 16.69 | 15.76 | 15. 14 | 14.45 | 14.25 | 14. 14 |
| Rate of return on common stockbolders equity ( $13 \div 11$ ) $\qquad$ do.- |  | 31.26 | 42.58 | 29.93 | 25. 21 | 24.28 | 22.15 | 20.40 | 18.95 | 17.57 | 16.98 | 16. 54 |

${ }^{1}$ A verage of investment at beginning and end of year.

|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Annual A verage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capitol stock: |  |  |  |  |  |  |  |  |  |  |  |
| 1. Preferred | $\begin{aligned} & \$ 5,520,000 \\ & 11,128,300 \end{aligned}$ | $\begin{aligned} & \$ 5,520,000 \\ & 14,943,700 \end{aligned}$ | $\begin{array}{r} \$ 5,520,000 \\ 14,943,700 \end{array}$ | $\begin{aligned} & \$ 2,600,000 \\ & 14,943,700 \end{aligned}$ | $\begin{aligned} & \$ 2,600,000 \\ & 14,943,700 \end{aligned}$ | $\begin{aligned} & \$ 2,600,000 \\ & 14,943,700 \end{aligned}$ | $\begin{aligned} & \$ 2,600,000 \\ & 14,943,700 \end{aligned}$ | $\begin{aligned} & \$ 2,333,700 \\ & 14,943,760 \end{aligned}$ | $\begin{aligned} & \$ 2,333,700 \\ & 14,943,700 \end{aligned}$ | $\begin{array}{\|} \$ 2,330,000 \\ 14,943,700 \end{array}$ |  |
| 3. Total | 16, 648, 300 | 20, 463, 700 | 20, 463, 700 | 17, 543, 700 | 17, 543, 700 | 17, 543, 700 | 17,543, 700 | 17, 277, 400 | 17, 277, 400 | 17, 273, 700 |  |
| 4. Surplus-earned and capital | 7, 422, 797 | 5, 588, 112 | 5, 973, 747 | 6, 137, 790 | 5, 883, 485 | 5, 303, 467 | 5, 284, 286 | 5,447,012 | 5,513,228 | 5, 605, 765 |  |
| 5. Surplus and contingent reserves.-.......- | $\begin{array}{r}5,605,860 \\ 453,594 \\ \hline\end{array}$ | $5,958,543$ 473,241 | $6,603,945$ 472,192 | $7,276,629$ 463,384 | $4,480,512$ 533,256 | $4,385,857$ 483,245 | $4,385,857$ 494,547 | $4,385,857$ 515,690 | $4,385,857$ 657,818 | $4,385,857$ 531,857 |  |
| 7. Capital stock and surpl | 30, 130, 551 | 32,483, 596 | -33, 513, 584 | 31, 421, 503 | 28, 440, 953 | 27,716, 269 | 27, 708, 390 | 27, 625, 959 | 27, 834, 403 | 27, 797, 179 |  |
| Less: tangibles. | 5, 144, 229 | 5, 108, 861 | 4, 543, 381 | 4, 461, 395 | 1 | 1 | 1 | 1 | 1 | 1 |  |
| 9. Total investment | 25, 015, 822 | 27, 374, 735 | 28, 970, 203 | 26, 960, 108 | 28, 440, 952 | 27, 716, 268 | 27, 708, 389 | 27,625,958 | 27, 834, 402 | 27,797, 178 |  |
| 10. A verage of total investment 1 | 23, 994, 670 | 26, 195, 278 | 28, 172, 469 | 27, 965, 155 | 27,700,530 | 28, 078, 610 | 27,712, 328 | 27, 667, 174 | 27, 730, 180 | 27,815, 791 | \$20, 671, 618 |
| 11. Average of common stockholders' equity I | 18, 474, 670 | 20,675, 278 | 122, 652, 469 | 23, 905, 155 | 25, 100, 530 | 25,478, 610 | 25, 112, 328 | 25, 200, 324 | 25, 396, 480 | 25, 483, 941 | 16, 299, 348 |
| and profits taxes: <br> Net income before deducting rederal income |  |  |  |  |  |  |  |  |  |  |  |
| 12. Applicable to total investment | 3, 123, 919 | 3, 251, 968 | 3, 423, 010 | 3,484, 153 | 4,068, 191 | 3, 887,681 | 3, 905, 663 | 4. 109,278 | 4, 893, 681 | 4,009,278 | 3.0:1, 566 |
| 13. Applicable to common stock holders equity.- | 2, 737, 519 | 2, 865, 568 | 3, 036,610 | 3, 302, 163 | 3, 886, 191 | 3, 709, 591 | 3, 740,626 | 3, 945, 919 | 4,730, 322 | 3, 846,048 | 2, 271.49 s |
| Rate of return on total investment ( $12 \div 10$ ) percent. | 13.02 | 12.41 | 12. 15 | 12. 46 | 14. 69 | 13.85 | 14.09 | 14.85 | 17.65 | 14.41 | 14.51 |
| Rate of return on common stockholders' equity <br>  | 14.82 | 13.86 | 13.41 | 13.81 | 15.48 | 14. 56 | 14.90 | 15.66 | 18.63 | 15.09 | 17.00 |

Appendix Table 11a.-Summary of income, expenses, and surplus for United States Tobacco Co., 1917-87

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924. | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$6, 318, 362 | \$9, 127, 106 | \$10, 133, 893 | \$11, 674,028 | \$12, 590, 573 | \$13, 347, 870 | \$14, 144, 278 | \$14, 139, 419 | \$14, 243, 834 | \$15, 775, 037 | \$16.815, 972 |
| Cost of goods sold | $\begin{aligned} & 3,649,657 \\ & 1,521.517 \end{aligned}$ | $\begin{aligned} & 5,123,764 \\ & 1,702,545 \end{aligned}$ | $\begin{aligned} & 6,487,118 \\ & 1,429,109 \end{aligned}$ | $\begin{aligned} & 7,946,493 \\ & 1,322,622 \end{aligned}$ | $\begin{aligned} & 8,748,432 \\ & 1,392,063 \end{aligned}$ | $\begin{aligned} & 9,003,419 \\ & 2,037,241 \end{aligned}$ | $\begin{aligned} & 9,531,718 \\ & 2,389,268 \end{aligned}$ | $\begin{aligned} & 9,208,663 \\ & 2,529,699 \end{aligned}$ | $\begin{aligned} & 9,194,869 \\ & 2,672,491 \end{aligned}$ | $\begin{aligned} & 9,967,658 \\ & 3,440,137 \end{aligned}$ | $\begin{array}{r} 10,393,905 \\ 3,890,904 \end{array}$ |
| Total operating expense | 5, 171, 174 | 6, 826, 309 | 7, 916, 227 | 9, 269, 095 | 10, 140, 495 | 11,040, 660 | 11, 920, 986 | 11, 738, 362 | 11, 867, 360 | 13, 407, 795 | 14, 284, 809 |
| Net profit on sales Other income (net | $\begin{array}{r} 1,147,188 \\ 65,316 \end{array}$ | $\begin{array}{r} 2,300,797 \\ 1134,122 \end{array}$ | $\begin{array}{r} 2,217,666 \\ 134,875 \end{array}$ | $\begin{array}{r} 2,404,933 \\ 167,626 \end{array}$ | $\begin{gathered} 2,450,078 \\ 1111,926 \end{gathered}$ | $\begin{array}{r} 2,307,210 \\ 86,306 \end{array}$ | $\begin{array}{r} 2,223,292 \\ 286,489 \end{array}$ | $\begin{array}{r} 2 ; 401,057 \\ 224,557 \end{array}$ | $\begin{array}{r} 2,376,474 \\ 330,585 \end{array}$ | $\begin{array}{r} 2,367,242 \\ 505,676 \end{array}$ | $\begin{array}{r} 2,531,163 \\ 574,882 \end{array}$ |
| Net income applicable to total investme Provision for Federal income and profits taxes | $\begin{array}{r} 1,212,504 \\ 306,675 \end{array}$ | $\begin{array}{r} 2,166,675 \\ 640,176 \end{array}$ | $\begin{array}{r} 2,182,791 \\ 476,305 \end{array}$ | $\begin{array}{r} 2,237,307 \\ 416,969 \end{array}$ | $\begin{array}{r} 2,338,152 \\ 449,101 \\ \hline \end{array}$ | $\begin{array}{r} 2,393,516 \\ 377,731 \end{array}$ | $\begin{array}{r} 2,509,781 \\ 405,233 \end{array}$ | $\begin{array}{r} 2,625,614 \\ 422,864 \end{array}$ | $\begin{array}{r} 2,707,059 \\ 425,255 \end{array}$ | $\begin{array}{r} 2,872,918 \\ 472,847 \end{array}$ | $\begin{array}{r} 3,106,045 \\ 521,905 \end{array}$ |
| Net income for the year-Surplus beginning of year | $\begin{aligned} & 905,829 \\ & 960.431 \end{aligned}$ | $\begin{aligned} & 1,525,499 \\ & 1,174,260 \end{aligned}$ | $\begin{aligned} & 1,706,486 \\ & 1,319,205 \end{aligned}$ | $\begin{aligned} & 1,820,338 \\ & 2,035,175 \end{aligned}$ | $\begin{aligned} & 1,889,051 \\ & 2,864,937 \end{aligned}$ | $\begin{aligned} & 2,015,785 \\ & 3,749,949 \end{aligned}$ | $\begin{aligned} & 2,104,548 \\ & 5,481,991 \end{aligned}$ | $\begin{aligned} & 2,202,750 \\ & 2,938,837 \end{aligned}$ | $\begin{aligned} & 2,281,804 \\ & 3,610,561 \end{aligned}$ | $\begin{aligned} & 2,400,071 \\ & 4,361,339 \end{aligned}$ | $\begin{aligned} & 2,584,140 \\ & 5,230,384 \end{aligned}$ |
| Total | 1,866, 260 | 2, 700, 759 | 3, 025, 691 | 3, 855, 513 | 4, 753, 988 | 5, 763, 734 | 7, 586, 539 | 5, 141, 587 | 5, 892, 365 | 6, 761, 410 | 7, 814, 524 |
| Less dividends paid on- Common stock in cash |  | 138, 000 |  | 662,360 | $\begin{array}{r} 662,360 \\ 1.324,720 \end{array}$ | 953, 856 | 1, 096, 879 | 1, 144, 626 | 1,144,626 | 1,144,626 | 1, 144, 626 |
| Common stock in stoc <br> Preferred stock in cash | 322,000 | $\begin{aligned} & 920,000 \\ & 323,554 \end{aligned}$ | 328, 216 | 328, 216 | $1,324,720$ 341,341 | 376, 229 | $3,179,500$ 386,400 | 386, 400 | 386, 400 | 386, 400 | 386, 400 |
| Total A ppropriations to or from reserves Other additions or deductions (net) | $\begin{array}{r}1,242,000 \\ \hline 2550,000\end{array}$ | 1, 381, 554 | 990, 516 | 990, 576 | $\begin{array}{\|c} 2,328,421 \\ 21, \\ 1_{3}, 250,000 \\ 272,382 \end{array}$ | $\begin{array}{r} 1,330,085 \\ 21,000,000 \\ 248,342 \end{array}$ | 4, 662, 779 <br> $-715,077$ | 1,531, 026 | 1, 531, 026 | 1, 531, 026 | 1,531, 026 |
| Surplus end of the yea | 1, 174, 260 | 1, 319, 205 | 2, 035, 175 | 2, 864, 937 | 3, 747, 949 | 5, 481, 991 | 2, 938, 837 | 3, 610, 561 | 4, 361, 339 | 5, 230, 384 | 6, 283, 498 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sale | \$16, 418, 705 | \$16, 759, 437 | \$16, 965, 114 | \$16,684, 188 | \$15, 388, 202 | \$15, 265, 687 | \$15, 789, 295 | \$16, 495,527 | \$17, 850, 094 | \$17, 976, 214 | \$303, 902, 835 |
| Cost of goores selc | 10, 118, 042 | 10, 078, 719 | 10,322,693 | 10, 043, 999 | 8,929, 661 | 8, 653, 534 | 9, 403, 124 | 9,990, 714 | 10, 363, 326 | 10, 725, 176 | 187, 884, 664 |
| Distributiou and siministrative experise | 4, 042, 597 | 4,331, 664 | 3, 912,911 | 3,852, 362 | 3, 044, 411 | , 3, 147, 408 | 2, 921, 452 | 3,041, 982 | 3,265, 567 | 3, 763, 915 | 59,651, 865 |
| Totis' opersting e | 14, 160, 639 | 14, 410, 383 | 14, 235, 604 | 13, 896, 361 | 11, 974, 072 | 11,800, 942 | 12, 324, 576 | 13, 032, 696 | 13, 628, 893 | 14, 489, 091 | 247, 536, 529 |
| Net profit ors sale | 2, 258, 066 | 2, 349, 054 | 2, 729, 510 | $\begin{array}{r} 2,787,827 \\ 696,336 \end{array}$ | $\begin{array}{r} 3,414,130 \\ 654,061 \end{array}$ | $3,464,745$ 422,936 | $3,464,719$ 440,944 | $\begin{array}{r} 3,462,831 \\ 646,447 \end{array}$ | $\begin{array}{r} 4,221,201 \\ 672,480 \end{array}$ | $\begin{array}{r} 3,487,123 \\ 522,155 \end{array}$ | $\begin{array}{r} 56,366,306 \\ 8,142,888 \end{array}$ |
| Net income applicable to total investmen | 3, 123, 919 | 3, 251, 968 | 3, 423, 010 | 3, 484, 163 | 4, 068, 191 | 3, 887, 681 | 3, 905, 663 | 4, 109, 278 | $4,893,681$ 657,818 | $4,009,278$ 546,590 | $64,509,194$ $10,016,521$ |
| Provision for Federal income and profits taxes | 453, 594 | 473, 241 | 472, 192 | 463, 384 | 533, 257 | 491, 199 | 494, 547 | 515, 638 | 657,818 | 546, 590 | 10,016, 521 |
| Net income for the y | 2, 670, 325 | 3, 778, 727 | $2,950,818$ | 3, 020, 779 | 3, 534, 934 | 3, 396, 482 | $3,411,116$ $5,303,467$ | $3,593,640$ $5,284,286$ | $4,235,863$ $5,447,012$ | $\begin{aligned} & 3,462,688 \\ & 5,513,328 \end{aligned}$ | $54,492,673$ |
| Surplus beginning of year. | 6, 283, 498 | 7, 422, 797 | 5, 588, 112 | 5, 973, 747 | 6, 137, 730 | 5, 883, 485 | 7 | 5, 284, 286 | 5, 447, 012 | 5, 513, 328 |  |
| Total | 8,953, 823 | 10, 201, 524 | 8, 538, 930 | 8,994, 526 | 9,672, 724 | 9, 279, 967 | 8,714, 583 | 8, 877,926 | 9, 682, 875 | 8,976,016 |  |
| Common stock in cash | 1, 144, 626 | 1,411, 612 | 1,831, 400 | 2,014,540 | 1,937, 368 | 4, 2r 4,092 | 3, 250, 735 | 3,204, 950 | 4,006, 188 | 3,204,950 | 35, 954, 720 |
| Common stock in stock | 386, 400 | $3,815,400$ 386,400 | 386, 400 | 182, 000 | 182, 000 | 178,090 | 164, 937 | 163, 359 | 163, 359 | 163, 230 | 6,307, 731 |
| Total | 1,531, 026 | 5, 613, 412 | 2, 217, 800 | 2, 196, 540 | 2, 119, 368 | 4,452,182 | $3,415,672$ | 3, 368, 309 | 4, 169, 547 | 3,368, 180 | $\begin{array}{r} 51,502,071 \\ 25.694 \end{array}$ |
| Appropriations to or from reserves --.-- Premium paid on preferred stock retired |  | ${ }^{2} 1,000,00$ | 347, 383 | 660, 196 |  |  |  |  |  |  | 660, 196 |
| Goodwill and other intangibles written of |  |  |  |  | 4, 461, 394 |  |  |  |  |  | $\begin{array}{r} 4,461,394 \\ 2475,682 \end{array}$ |
| Profit on sale of treasury stock Other additions or deductions (net) |  |  |  |  |  | 2475,6 | 14,625 | 62, 605 |  | 2,071 | $\begin{aligned} & 2475,682 \\ & { }^{2} 606,500 \end{aligned}$ |
| Surpins end of the year. | 7, 422, 797 | 5,588, 112 | 5, 973, 747 | $6,137,790$ | 5,883, 485 | 5, 303, 467 | 5, 234, 286 | 5, 447, 012 | 5, 513, 328 | 5, 605, 765 |  |

Denotes lass.


|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  | 800 |  |  |  |  |
| 2. ${ }^{\text {1. }}$. $\quad$ Premmor | 11,000,000 | 11, 3000,000 | 11,000,000 | $11,000,000$ | 11, 000,000 | 11,000, 000 | 11,000,000 | 11,000,000 | 11, 000, 000 | 11,000,000 | 11,000, 000 | 11,000,000 |
| 3. Total | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 | 14, 952, 800 |
| 4. Surplus-earned and capital | 2, 398, 541 | 2, 456, 018 | 2, 542, 743 | 2, 869,987 | 3, 329, 579 | 3, 584,091 | 4, 220, 878 | 4, 526, 229 | 4, 827, 649 | 4, 910, 639 | 5, 026,921 | 5, 443, 670 |
| 5. Surplus and contingency reserves | 286, 567 | 276, 520 | 310, 624 | 278,997 | 250, 186 | 262, 439 | 474, 460 | 483,603 | 497,084 | 510, 594 | 589,778 | 602, 018 |
| profits taxes | $\begin{array}{r} 39,381 \\ 17,677,289 \end{array}$ | $\begin{array}{r} 246,059 \\ 17,931,397 \end{array}$ | $\begin{array}{r} 603,000 \\ 18,409,167 \end{array}$ | $\begin{array}{r} 508,063 \\ 18,609,847 \end{array}$ | $\begin{array}{r} 555,737 \\ 19,088,302 \end{array}$ | $\begin{array}{r} 512,363 \\ 19,311,693 \end{array}$ | $\begin{array}{r} 441,172 \\ 20,089,310 \end{array}$ | $\begin{array}{r} 434,014 \\ 20,396.646 \end{array}$ | $\begin{array}{r} 398,771 \\ 20.676,304 \end{array}$ |  | $\begin{array}{r} 425,517 \\ 20,995,016 \end{array}$ |  |
| 7. Capital stock and surplus. <br> 8. Less goodwill, appreciation, and | $17,677,289$ | 17, 931, 397 | $18,409,167$ | 18, 609, 847 | 19, 088, 302 | 19, 311, 693 | 20,089, 310 | 20, 396,646 | 20, 676, 304 | 20, 774, 016 | 20, 995, 016 | 21, 456, 674 |
| other intangibles. | 10, 126, 996 | 10, 126, 996 | 10, 126, 996 | 10, 126,996 | 10, 126, 996 | 10, 126, 996 | 10, 126, 996 | 10, 126, 996 | 10, 126,996 | 10, 126, 996 | 10, 126, 996 | 10, 126, 996 |
| 9. Total investment. | 7, 550, 293 | 7, 804, 401 | 8, 282, 171 | 8, 482, 851 | 8, 961, 306 | 9, 184. 697 | 9, 962, 314 | 10, 269, 650 | 10, 549, 308 | 10, 647, 020 | 10, 868, 020 | 11, 329, 678 |
| 10. A verage of total investment ${ }^{1}$ |  | 7,677,347 | 8,043,286 | 8, 382, 511 | 8,722, 079 | 9, 073, 002 | 9, 573, 506 | 10, 115, 982 | 10, 409,479 | 10, 598, 164 | 10,757, 520 | 11,098, 849 |
| 11. Average of common-stock equity ${ }^{1}-\ldots$ |  | 3, 724, 547 | 4, 090, 486 | 4, 429, 711 | 4,769, 279 | 5, 120, 202 | 5,620,706 | 6, 163, 182 | 6, 456, 679 | 6, 645, 364 | 6, 804, 720 | 7, 146, 049 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |  |
| 12. Applicable to total investment . |  | 1,748, 238 | 2, 134, 564 | 2, 249,412 | 2, 406, 760 | 2, 244, 886 | 2, 746, 786 | 2, 392, 520 | 2, 122,968 | 1,912,158 | 1,947, 285 | 2, 282, 202 |
| holders' equity. <br> 13. Applicable to common stock- |  | 1,511,070 | 1, 897, 396 | 2,012, 244 | 2, 169, 592 | 2,007,718 | 2,509,618 | 2, 155, 352 | 1, 885, 800 | 1,674,990 | 1, 710, 117 | 2, 045, 034 |
| Rate of return on total investment ( $12 \div 10$ ) |  | 22.77 | 26.54 | 26.83 | 27.59 | 24. it | 23.69 | 23.65 | 20.39 | 18. 04 | 18. 10 | 20.56 |
| Rate of return on common stockholders' equity ( $13 \div 11$ ) ................................... |  | 40.57 | 46. 39 | 45. 43 | 45. 49 | 39. 21 | 44.65 | 34. 97 | 29.21 | 25. 21 | 25. 13 | 28. 62 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Annusl average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{r} \$ 3,952,800 \\ 11,000,000 \\ \hline \end{array}$ | $\begin{aligned} & \$ 3,952,800 \\ & 11,000,000 \end{aligned}$ | $\begin{aligned} & \$ 3,952,800 \\ & 11,000,000 \end{aligned}$ | $\begin{array}{\|} \$ 3,952,800 \\ 11,000,000 \end{array}$ | $\begin{aligned} & \$ 3,952,800 \\ & 11,000,000 \end{aligned}$ | $\begin{aligned} & \$ 3,952,800 \\ & 11,000,000 \end{aligned}$ | $\begin{aligned} & \$ 3,952,800 \\ & 11,000,000 \end{aligned}$ | $\begin{aligned} & \$ 3,952,800 \\ & 11,000,000 \end{aligned}$ | $\begin{aligned} & \$ 3,952,800 \\ & 11,000,000 \end{aligned}$ | $\begin{aligned} & \$ 3,952,000 \\ & 11,000,000 \end{aligned}$ |  |
| 3. Total <br> 4. Surplus-earned and capital <br> 5. Surplus and contingency reserves. <br> 6. Reserve for Federal income and pronts taxes | $\begin{array}{r} 14,952,800 \\ 6,345,037 \\ 599,450 \\ 438,556 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 6,67 \%, 450 \\ 590,418 \\ 393,662 \end{array}$ | $\begin{array}{r} 14,952,800 \\ -6,903,331 \\ 599,624 \\ 390,915 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 7,152,295 \\ 753,907 \\ 322,259 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 7,303,152 \\ 770,665 \\ 345,136 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 8,162,216 \\ 757,486 \\ 377,016 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 8,511,729 \\ 793,257 \\ 375,308 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 8,529,979 \\ 1 ; 004,289 \\ 291,323 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 9,061,151 \\ 995,113 \\ 298,007 \end{array}$ | $\begin{array}{r} 14,952,800 \\ 9,007,374 \\ 969,277 \\ 285,442 \end{array}$ |  |
| 7. Capital stock and surplus. <br> 8. Less goodwill, appreciation, and other intangibles | $\begin{aligned} & 22,335,843 \\ & 10,126,996 \\ & \hline \end{aligned}$ | $\begin{aligned} & 22,614,330 \\ & 10,126,996 \end{aligned}$ | $\begin{aligned} & 22,846,670 \\ & 10,126,896 \\ & \hline \end{aligned}$ | $\left\{\begin{array}{l} 23,181,261 \\ 10,126,096 \end{array}\right.$ | $\begin{aligned} & 23,371,753 \\ & 10,126,896 \end{aligned}$ | $\begin{aligned} & 24,249,518 \\ & 10,126,996 \end{aligned}$ | $\begin{aligned} & 24,633,094 \\ & 10,126,996 \end{aligned}$ | $24,778,391$ $10,126,966$ | $25,307,071$ $10,126,896$ | $\begin{aligned} & 25,214,893 \\ & 10,126,896 \end{aligned}$ |  |
| 10. Á Totserage of total investment.... | 12, 208, 847 | 12, 487, 334 | 12, 719, 674 | 13, 054,265 | 13, 244, 757 | 14, 122, 522 | 14, 506, 098 | 14, 651, 395 | 15, 180, 075 | 15,087,897 |  |
| 11. Average of total investment ${ }^{\text {1 }}$-...-- | 11, 769, 263 | 12, 348, 091 | 12,603, 504 | 12, 886, 970 | 13, 149, 511 | 13, 683, 640 | 14, 314, 310 | 14, 578, 747 | 14,915, 735 | 15, 133, 986 | \$11, 420, |
| 11. Average of common-stock equity ${ }^{1}$ Net income before deducting Federal income and profits taxes: | 7,816, 463 | 8, 395, 291 | 8,650, 704 | 8,934, 170 | 2 196,711 | 9,730, 840 | 10, 361, 510 | 10, 225,947 | 10,962,935 | 11, 181, 186 | \$7,463,317 |
| 12. - Applicable to total investment - .-.......... | 2, 583, 298 | 2,349,616 | 2, 133, 132 | 2, 224, 440 | 2, 143, 521 | 2, 348,029 | 2, 333, 773 |  |  |  |  |
| Rate of retarn on total Investment ( $12 \div 10$ ) percent | $2,346,130$ 21,95 | 2, 112, 448 19.03 | 1,895, 16.94 | 1, 887,272 | 1, 906, 353 | 2,110, 861 | 2, 096,605 | 1, 709, 605. | 1,729,305 | 1, $1,861,423$ | 1, 957,376 |
| Rate of return on common stockholders' equity ( $13 \div 11$ ) | 21.95 30.02 | 19.03 25.16 | 16.92 21.92 | 17.26 22.34 | 16.30 20.73 | 17.16 21.69 | 16.30 20.23 | 13.35 16.09 | 13.18 15.77 | 12.35 14.59 | 19.22 26.23 |

${ }^{1}$ Average of investment at beginning and end of year.
Appendix Table 12a.-Summary of income, expenses, and surplus for American Snuff Co., 1917-37

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net soleg | \$5, 184, 910 | \$6,885, 836 | \$7, 807, 301 | \$8,896, 430 | \$9, 165, 452 | \$9,347, 902 | \$8,943, 901 | \$8,600, 209 | \$8, 128, 852 | \$7, 970, 338 | \$8, 487, 889 |
| Cost of goods sold <br> Distribution and administrative expenses. | $\begin{array}{r} 3,318,429 \\ 510,363 \end{array}$ | $\begin{array}{r} 4,539,040 \\ 598,311 \end{array}$ | $\begin{array}{r} 5,262,813 \\ 713,278 \end{array}$ | $\begin{array}{r} 6,044,553 \\ 897,870 \end{array}$ | $\begin{array}{r} 6,670,336 \\ 759,198 \end{array}$ | $\begin{array}{r} 6,334,174 \\ 799,110 \end{array}$ | $\begin{array}{r} 6,236,848 \\ 856,059 \end{array}$ | $\begin{array}{r} 6,112,357 \\ 887,395 \end{array}$ | $\begin{array}{r} 5,787,959 \\ 897,575 \end{array}$ | $\begin{array}{r} \hline 5,679,819 \\ 862,716 \end{array}$ | $\begin{array}{r} 5,932,672 \\ 856.757 \end{array}$ |
| Tota' opersting expens | 3, 828,792 | 5, 137, 351 | 5, 976, 091 | 6, 942, 423 | 7,429, 534 | 7, 133, 284 | 7,092,907 | 6, 999,752 | 6, 685, 534 | 6,542, 535 | 6. 789,429 |
| Net profit on sisles. Otber incmme (net) | $\begin{array}{r} 1,356,118 \\ 392,120 \end{array}$ | $\begin{array}{r} 1.748,485 \\ 386,079 \end{array}$ | $\begin{array}{r} 1,831,210 \\ 418,202 \end{array}$ | $\begin{array}{r} 1,954,007 \\ 452,753 \end{array}$ | $\begin{array}{r} 1,735,918 \\ 508,968 \end{array}$ | $\begin{array}{r} 2,214,618 \\ 332,168 \end{array}$ | $\begin{array}{r} 1,850,994 \\ 541,526 \end{array}$ | $\begin{array}{r} 1,600,457 \\ 522,511 \\ \hline \end{array}$ | $\begin{array}{r} 1,443,318 \\ 468,840 \end{array}$ | $\begin{array}{r} 1,427,803 \\ 519,482 \end{array}$ | $\begin{array}{r} 1,698,460 \\ 583,742 \end{array}$ |
| Net income applicable to total investment <br> Provision for Federal income and profts taxes. | $\begin{array}{r} 1,748,238 \\ 245,268 \end{array}$ | $\begin{array}{r} 2,134,564 \\ 601,296 \end{array}$ | $\begin{array}{r} 2,249,412 \\ 475,000 \end{array}$ | $\begin{array}{r} 2,406,760 \\ 500,000 \end{array}$ | $\begin{array}{r} 2,244,886 \\ 430,000 \end{array}$ | $\begin{array}{r} 2,746.786 \\ 352,518 \end{array}$ | $\begin{array}{r} 2,392,520 \\ 310,001 \\ \hline \end{array}$ | $\begin{array}{r} 2,122,968 \\ 272,870 \end{array}$ | $\begin{array}{r} 1,912,158 \\ 272,000 \\ \hline \end{array}$ | $\begin{array}{r} 1,947,285 \\ 275,410 \end{array}$ | $\begin{array}{r} 2,282,202 \\ 317,619 \end{array}$ |
| Net incoroe for the y Eusplus haginning of year | $\begin{aligned} & 1,502,070 \\ & 2,398,541 \end{aligned}$ | $\begin{aligned} & 1,533,268 \\ & 2,456,018 \end{aligned}$ | 1. 774, 412 <br> 2, 542, 743 | 1, 906,760 <br> 2, 869,987 | $\begin{aligned} & 1,814,886 \\ & 3,329,579 \end{aligned}$ | $\begin{aligned} & 2,394,268 \\ & 3,584,091 \end{aligned}$ | $\begin{aligned} & 2,082,519 \\ & 4,220,878 \end{aligned}$ | 1,850, 098 <br> 4, 526, 229 | $\begin{aligned} & 1,640.158 \\ & 4,82 i, 649 \end{aligned}$ | $\begin{aligned} & 1,671,875 \\ & 4,910,639 \end{aligned}$ | $\begin{array}{r} 1,964,533 \\ 5,026,921 \\ \hline \end{array}$ |
|  | 3, 901, 511 | 3, 989, 286 | 4,317, 155 | 4, 776, 747 | 5, 144, 465 | 5, 978, 359 | 6, 303, 397 | 6,376, 327 | 6, 467, 807 | 6,582,514 | 6,991, 504 |
| T,ose dividends paid on: Common stock in cash Preferre's stock in cash | $\begin{array}{r} 1.210,000 \\ 237,168 \end{array}$ | $\begin{array}{r} 1,210,000 \\ 237.168 \end{array}$ | $\begin{array}{r} 1,210,000 \\ 237,168 \end{array}$ | $\begin{array}{r} 1,210,000 \\ 237,168 \end{array}$ | $\begin{array}{r} 1,320,000 \\ 237,168 \end{array}$ | $\begin{array}{r} 1,320,000 \\ 237,168 \end{array}$ | $1,540,000$ 237,168 | $\begin{array}{r} \therefore 320,000 \\ 237.168 \end{array}$ | $\begin{array}{r} 1,520,000 \\ 237,168 \end{array}$ | $\begin{array}{r} 1,320,000 \\ 237,168 \end{array}$ | $\begin{array}{r} 1,320,000 \\ 237,168 \end{array}$ |
|  | 1, 447. 16.3 | 1, 447, 168 | 1, 447, 168 | 1,447, 168 | 1, 55\%, 168 | $1,557,168$ 200,000 | 1, 777, 168 | 1, 557. 168 | 1, 557, 168 | 1, 557, 168 | 1,557, 168 |
| Ofter adfitions ni dejuctions (net) | 1 1,675 | ${ }^{1} 825$ |  |  | 3, 206 |  |  | 18,490 |  | 11,575 | 19, 334 |
| Surplus end of the year | 2, 456, 018 | 2, 542, 743 | 2, 869.987 | 3, 329, 579 | 3, 584, 091 | 4, 220, 878 | 4, 526, 229 | 4, 827, 649 | 4,910.639 | 5, 026, 921 | 5,443, 670 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$8, 826, 359 | \$8, 399, 747 | \$8, 289, 328 | \$8, 407, 626 | \$7, 744, 158 | \$7, 531, 064 | \$7, 636, 344 | \$7, 551, 001 | \$7,530, 555 | \$7,550,634 | \$168, 885, 836 |
| Cost of goods soid .-- | 6, 053, 114 | 5,821,985 | 5, 868, 378 | 5,918, 747 | 5,216,827 | 4, 806, 823 | 5, 027, 754 | 5, 150, 459 | 4,915, 690 | 4, 914, 884 | .115, 643, 661 |
| Distribution and administrative expenses. | 844,690 | 874,312 | $\text { ठ } 70,751$ | 871, 706 | 919,767 | 913, 958 | 867, 216 | 1, 059, 453 | 1, 366, 746 | $1,336,928$ | 18,564, 159 |
| Totsl operating expense | 6,897, 804 | 6,696, 297 | 6,739, 129 | 6, 790.453 | 6, 136, 594 | 5, 720, 781 | 5, 894, 970 | 6, 209, 912 | 6,282, 436 | 6, 251, 812 | 134, 177, 820 |
| Net proflt on sales Other income (net) | $1,928,555$ 654,743 | $1,703,450$ 646,166 | $\begin{array}{r} 1,550,199 \\ 582,933 \end{array}$ | $1,617,173$ 607,267 | $1,607,564$ 535,957 | $\begin{array}{r} 1,810,283 \\ 537,746 \end{array}$ | $\begin{array}{r} 1,741,374 \\ 592,399 \end{array}$ | $\begin{array}{r} 1,341,089 \\ 605,684 \end{array}$ | $\begin{array}{r} 1,248,119 \\ 718,354 \end{array}$ | $\begin{array}{r} 1,298,822 \\ 569,769 \end{array}$ | $\begin{aligned} & 34,708,016 \\ & 11,377,409 \end{aligned}$ |
| Net income applicable to total investment | 2, 583, 298 | 2, 349, 616 | $2,133,132$ | 2, 224, 440 | 2, 143, 521 | 2, 348, 029 | 2, 333, 773 | 1,946, 773 | 1,966, 473 | 1,868, 591 | 46,085, 4 |
| rovision for Federal income and <br> tsxes | 308, 283 | 263,985 | 261, 237 | 279, 106 | 289, 496 | 321, 797 | 317,092 | 261, 355 | 268, 133 | 255, 200 | 6,877,666 |
| Net income for the y Surplus beginning of year. | 2, 275, 015 | 2, 085, 631 | 1,871, 895 | 1,945, 334 | 1,854, 025 | 2, 026, 232 | 2, 016, 681 | 1, 685, 418 |  | $1,613,391$ | 39, 207, 759 |
| Surplus beginning of year | 5, 443, 670 | 6,345.037 | 6,677, 450 | 6,903, 331 | 7, 152, 295 | 7,303, 152 | 8, 162, 216 | 8,511, 729 | 8,529, 979 | $9,061,151$ |  |
| Tot | 7, 718, 685 | 8,430,668 | 8,549, 345 | 8, 848, 665 | 9,006, 320 | 9,329, 384 | 10, 178, 897 | 10, 197, 147 | 10, 228, 319 | 10,674, 542 |  |
| Less dividends paid on: Common stock in cash | 1,540,000 | 1,540,000 | 1,430, 000 | 1, 430, 000 | 1,430, 000 | 1,430,000 | 1, 430, 000 | 1,430,000 | 1, 430,000 | 1, 430,000 |  |
| Preferred stock in cash. | 237, 168 | 237, 168 | 237, 168 | 237, 168 | 237, 168 | 237, 168 | 237, 168 | 237, 168 | 237, 168 | 237, 168 | $4,980,528$ |
| To | 1,777, 168 | 1,777, 168 | 1,667, 168 | 1, 667, 168 | 1,667, 168 | 1,667, 168 | 1,667, 168 | 1,667, 168 | 1,667, 168 | 1, 667, 168 | 33, 800, 5 |
| Other additions or deductions (net) | 1403.520 | 123, 950 | 121,154 | 29, 202 | 36,000 | ${ }^{1} 500,000$ |  |  | ${ }^{1} 500,000$ |  | $\begin{array}{r} 11,203,520 \\ 1,918 \end{array}$ |
| Surplus end of the year............- | 6,345, 037 | 6, 677, 450 | 6, 903, 331 | 7,152, 295 | 7, 303, 152 | 8,162, 216 | 8,511, 729 | 8,529,979 | 9, 061, 161 | 9, 007, 374 |  |

${ }^{1}$ Denotes additions to surplus.
Arpendix Table 13.-Súmmary of investments, profits, and rates of return for George W. Helme Co., 1917-s7

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  | \$4,000,000 | \$4,000,000 | \$4,000, 000 | \$4,000,000 | \$4,000,000 | \$4, 0000,000 | $\$ 4,000,000$ $6,000,000$ | $\$ 4,000,000$ $6,000,000$ | $\$ 4,000,000$ $6,000,000$ | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \end{array}$ | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \end{array}$ |
| 1. Creferre | 4,000, 000 | 4,000,000 | 4,000,000 | 4,000,000 | 4,000,000 |  |  |  |  |  |  |  |
| 3. Tota | $8,000,000$ $1,619,526$ | $8,000,000$ $1,697,496$ | $\begin{aligned} & 8,000,000 \\ & 2092,199 \end{aligned}$ | $\begin{aligned} & 8,000,000 \\ & 2,507,165 \end{aligned}$ | $8,000,000$ <br> 3, 029, 715 | $\begin{aligned} & 8,000,000 \\ & 3,728,179 \end{aligned}$ | $\begin{array}{r} 10,000,000 \\ 2,553,791 \end{array}$ | $\begin{array}{r} 10,000,000 \\ 3,230,097 \end{array}$ | $\begin{array}{r} 10,000,000 \\ 3,529,847 \end{array}$ | $10,000,000$ $3,833,571$ | $\begin{array}{r} 10,000,000 \\ 4,097,491 \end{array}$ | $10,000,000$ $4,396,340$ |
| 4. Surplus | 1,619, 526 | 1, 697, 496 <br> $1,148,723$ | $\begin{aligned} & 2,092,199 \\ & 1,346,162 \end{aligned}$ | $\begin{aligned} & 2,507,165 \\ & 1,535,278 \end{aligned}$ | $\begin{aligned} & 3,029,715 \\ & 1,737,095 \end{aligned}$ | $\begin{aligned} & 3,728,179 \\ & 1,960,050 \end{aligned}$ | $\begin{aligned} & 2,509,791 \\ & 2,209,791 \end{aligned}$ | $2,423,605$ | 2,634, 123 | 2, 866,604 | 3, 061,553 | 3,260,385 |
| 5. Surplus and contingency reserves.. <br> 6. Reserve for Federal income and profits taxes. | 956,198 26,302 | $1,148,72$ 196,200 | 1, 454,283 | $\begin{array}{r}\text { 1, } \\ \text { 327, } 990 \\ \hline\end{array}$ | 400,845 | 416, 494 | 324, 181 | 318, 114 | 332,453 | 348, 858 | 353, 011 | 366, 506 |
| 7. Oapital stock and surpl | 10, 602, 026 | 11, 042,419 | 11, 892, 644 | 12,370, 433 | 13, 167,655 | 14, 104, 723 | 15,087, 763 | 15, 971, 816 | 16, 496, 423 | 17,049,033 | $\underline{=}$ | $\underline{18,023,233}$ |
| 8. Less' preferred stock in treasury at cost | 442, 298 | 550, 013 | 650, 013 | 534, 185 | 518, 912 | 514, 191 | 642, 848 | 744, 360 | 827, 636 | 922, 308 | 1, 022, 820 | 1, 033, 145 |
| 0. Less common stock in treasury at cost |  |  |  | 827 | 44,598 | 83,997 | 93,997 | 93, 031 | 76,465 | 75,317 | 29,160 | 28,610 |
| 10. Total treasury stock | 442, 298 | 550, 013 | 550, 013 | 535, 012 | 563, 510 | 598, 188 | 636, 846 | 837, 391 | 904, 101 | 997, 625 | 1,051,980 | 1, 061,755 |
| 11. Capital stock outstanding and su plus | 10, 159, 728 | 10, 492, 406 | 11, 342, 631 | 11, 835, 421 | 12, 604, 145 | 13, 506, 535 | 14, 450, 917 | 15, 134, 425 | 15, 592, 322 | 16, 051, 408 | 16, 460, 075 | 16, 961, 476 |
| 12. Less goodwill, appreciation, and other intangibles | 3,091, 000 | 3, 140, 699 | 3, 140,699 | 3, 140,699 | 3, 140,699 | 3, 140, 699 | 3, 140, 699 | 3, 140, 699 | 3, 140,699 | 3, 140, 699 | 3, 140, 699 | 3,140, 699 |
| 13. Total investmen | 7,068, 728 | 7,351,707 | 8, 201, 832 | 8, 694, 722 | 9, 463, 446 | 10, 365, 836 | 11, 310, 218 | 11, 993, 726 | 12, 451, 623 | 12,910, 709 | 13,319, 376 | 13.820,77 |
| 14. A verage of total investment 1-...-. |  | 7,210, 217 | 7, 776, 819 | 8, 448,327 | 9, 079, 084 | 9, 914, 641 | 10, 838, 027 | 11, 651,972 | 12, 222, 674 | 12, 681, 166 | 13, 115, 042 | 13, 570, 076 |
| 15. Average of common stockholders' equity ${ }^{1}$ |  | 3,210, 217 | 3, 776, 819 | 4, 448, 327 | 5, 079, 084 | 5, 914,641 | 6, 838, 027 | 7,651, 972 | 8, 222, 674 | 8, 681, 156 | 9, 115, C12 | 9, 570, 076 |
| 16. <br> Net income before deducting Fed erali ncome and profits taxes: <br> Applicable to total investment |  | 1, 233, 221 | 1,501,457 | 1, 564, 074 | 1,862, 575 | 1, 931,254 | 2, 325, 075 | 2, 400, 334 | 2, 553, 328 | 2, 505, 675 | 2, 530, 210 | 2,620,700 |
| 17. Applicable to common-stock |  | 953, 221 | 1, 221,457 | 1,284, 074 | 1,582,575 | 1,651, 254 | 2, 045, 075 | 2, 120, 334 | 2, 273, 328 | 2, 225, 675 | 2, 250, 210 | 2,340,700 |
| Rate of return on total investment ( $16+14$ ) $\qquad$ percent |  | 17.11 | 19.31 | 18. 51 | 20.52 | 19.48 | 21.45 | 20.60 | 20.88 | 19.76 | 19.29 | 19.31 |
| Rate of return on common-stock equity $(17 \div 15)$ percent |  | 29.72 | 32.34 | 28. 37 | 31.16 | 27. 82 | 29.91 | 27.71 | 27. 65 | 25.64 | 24.69 | 24.46 |

${ }^{1}$ A verage of investment at beginning and end of year.

|  | 1928 | 228 | 193 | 1931 | 1932 | 933 | 1934 | 1935 | 1936 | 1937 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Capital stock } \\ & \begin{array}{l} \text { 1. } \\ \text { 2. } \end{array} \text { Preferred } \\ & \text { Common } \end{aligned}$ | $\left\lvert\, \begin{array}{r} \$ 4,000,000 \\ 6,000,000 \end{array}\right.$ | \$4, 000, 000 6, 000, 000 | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \end{array}$ | $\begin{array}{r} \$ 4,000,000 \\ 8,000,000 \end{array}$ | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \end{array}$ | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \end{array}$ | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \end{array}$ | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \\ \hline \end{array}$ | $\begin{aligned} & \$ 4,000,000 \\ & 6,000,000 \\ & \hline \end{aligned}$ | $\begin{array}{r} \$ 4,000,000 \\ 6,000,000 \\ \hline \end{array}$ |  |
| To | 10,000, 000 | 10,000,000 | 10,000,000 | 10,000,000 | 10,000,000 | 10,000, 000 | 10,000,000 | 10,000,000 | 10,000, 000 | 10, 000, 000 |  |
| 4. Surplus | 4, 737, 391 | 5, 102, 385 | 5,473,886 | 5, 5 61, 578 | - $5,719,142$ | 5,867,145 | 4,839,817 |  | 4, 854, 217 | 4, 858,1483 |  |
| 5. Surplus and contingency rese | ${ }^{3,442,651}$ | - ${ }^{3} \mathbf{6 4 8} \times 1018$ | $\begin{array}{r} 3,810,863 \\ 309,707 \end{array}$ | $3,94,525$ 286,810 | ${ }^{3,979,153}$ | 294,737 | ${ }^{824,628}$ | 275, 364 | 299, 223 | 262, 155 |  |
| 7. Capital stock and | 18, 515,585 | 19, 059, 575 | 19, 594, 456 | 19, 892, 711 | 19,954, 852 | 17,038,794 | 18, 046, 886 | 15, 998, 330 | 15, 883, 319 | 15, 711,798 |  |
| 8. Less preferred stock in treasury at cos <br> 9. Less common stock in treasury at co | $\begin{array}{\|c} 1,141,924 \\ 35,333 \end{array}$ | $\begin{aligned} & 1,322,66 \\ & 282,89 \end{aligned}$ | $\begin{array}{r} 1,411,235 \\ 332,885 \end{array}$ | $\begin{array}{r} 1,436,691 \\ \hline 345,479 \end{array}$ | $\begin{array}{r} 1,503,220 \\ \begin{array}{r} 367,919 \end{array} \end{array}$ | $\begin{array}{r} 1,516,279 \\ 198,931 \end{array}$ | 721,375 | 721,375 | 721,375 | 721, 375 |  |
| 10. Tota | 1,177, 257 | 1,605, 558 | 1,744, 120 | 1,782, 170 | 1,871, 139 | 1,715, 210 | 721, 375 | 721, | 721,375 | 721,375 |  |
| 11. Capital stock outstanding and surplus | 17,338,328 | 17,454,017 | 17,850,336 | 18, 110, 541 | 18,083,713 | 15,323,584 | 15, 325, 511 | 15, 276, 955 | 15, 261, 944 | 14, 990, 423 |  |
| 12. Less goodwill, appreciation, and other bles. | 3, 140,699 | 3, 140, 699 | 3, 140,699 | 2,710,43 | 2,710, 439 | 1 | 1 | 1 | 1 | 1 |  |
| 13. Total investment | 14, 197, 229 | 14, 313, 318 | 14,709,637 | 15,400, 102 | 15, 373, 274 | 15,323,583 | 15,325, 510 | 15, 276, 954 | 15, 281, 943 | 14,990, 42 |  |
| 14. Average | 14, 009, 203 | 14, 255, 473 | 14, 1111,477 | $\xrightarrow{11,054,889}$ |  | lill $\begin{aligned} & 11,3488,428 \\ & 11,348\end{aligned}$ | $15,324,546$ | 15, 301, 232 11, 301, 232 | $15,269,448$ | $15,126,182$ <br> 11, 126, 182 | $\$ 12,671,219$ |
| 15. Average of common stockholders eral income and Net income before deducting Federal profits texes: | 10,009, 203 | 10, 255, 473 | 10,511,47 | 11,054, 809 |  |  |  |  |  |  |  |
| pront laxes. |  |  |  | 2,325, 600 | 2, 176,763 | 235, | 303, | 146, 519 | 170, 839 | 1,940, 259 | 200, 186 |
| Applicable to common-stock equity | 18.94 | 2, 369,304 | $\begin{array}{r} 2,275,829 \\ 17.61 \end{array}$ | 2, 045,600 | $\begin{array}{r} 1,896,763 \\ 14,15 \end{array}$ | 2,045,942 14.57 | $\text { 2. } \begin{array}{r} 102,882 \\ 15.03 \end{array}$ | $\begin{array}{r} 1,927,716 \\ 14.15 \end{array}$ | $\begin{array}{r} 1,934,036 \\ 14.22 \end{array}$ | $\begin{array}{r} 1,703,456 \\ 12.83 \end{array}$ | 17.36 |
| Rate of return on common-stock equity $\begin{aligned} & \text { percent.- }\end{aligned}$ | 23.71 | 23.10 | . 65 | 8. 50 | 16.66 | 8.03 | 18.57 | 7.08 | 7. 16 | 15.31 | 32.31 |

Appendix Table 13a.-Summary of income, expenses, and surplus for George W. Helme Co., 1917-s7

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1928 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$4, 365, 928 | \$6, 582, 915 | \$6, 631, 905 | \$7, 338, 486 | \$7, 793, 781 | \$8, 151, 709 | \$8, 394, 337 | \$8, 537, 336 | \$8, 320, 465 | \$8, 217, 361 | \$8, 242, 391 |
| Cost of goods sold.-- Distribution and adr | $\begin{array}{r} 2,810,762 \\ 477,475 \end{array}$ | $\begin{array}{r} 4,648,177 \\ 533,062 \end{array}$ | $\begin{array}{r} 4,576,777 \\ 549,497 \end{array}$ | $\begin{array}{r} 4,922,824 \\ 643,126 \end{array}$ | $\begin{array}{r} 5,295,096 \\ 669,388 \end{array}$ | $\begin{array}{r} 5,331,578 \\ 741,143 \end{array}$ | $\begin{array}{r} 5,541,545 \\ , \quad 743,063 \end{array}$ | $\begin{array}{r} 5,549,497 \\ 749,425 \end{array}$ | $\begin{array}{r} 5,371,941 \\ 770,125 \end{array}$ | $\begin{array}{r} 5,316,094 \\ 716,013 \end{array}$ | $\begin{array}{r} 5,236,433 \\ 750,055 \end{array}$ |
| Total | 3, 288, 237 | 5, 181, 239 | 5, 126, 274 | 5,565, 950 | 5, 964, 484 | 6, 072, 721 | ن, 284, 608 | 6, 298, 922 | 6, 142, 066 | 6,032, 107 | 5, 986, 488 |
| Net profit en sales. Other income (net) | $\begin{array}{r} 1,077,691 \\ 156,230 \end{array}$ | $\begin{array}{r} 1,401,676 \\ 99,781 \end{array}$ | $\begin{array}{r} 1,505,631 \\ 58,443 \end{array}$ | $\begin{array}{r} 1,772,536 \\ 90,039 \end{array}$ | $\begin{array}{r} 1,829,297 \\ 101,957 \end{array}$ | $\begin{array}{r} 2,078,988 \\ 246,087 \end{array}$ | $\begin{array}{r} 2,109,729 \\ 290,605 \end{array}$ | $\begin{array}{r} 2,238,414 \\ 314,914 \end{array}$ | $\begin{array}{r} 2,178,399 \\ \quad 327,276 \end{array}$ | $\begin{array}{r} 2,185,254 \\ 344,956 \end{array}$ | $\begin{array}{r} 2,255,903 \\ 364,797 \end{array}$ |
| Net income applicable to total investme Provision for Federal income and profits taxes | $\begin{array}{r} 1,233,921 \\ 200,000 \end{array}$ | $\begin{array}{r} 1,501,457 \\ 460,810 \end{array}$ | $\begin{array}{r} 1,564,074 \\ 328,564 \end{array}$ | $\begin{array}{r} 1,862,575 \\ 404,521 \end{array}$ | $\begin{array}{r} 1,931,254 \\ 431,562 \end{array}$ | $\begin{array}{r} 2,325,075 \\ 362,668 \end{array}$ | $\begin{array}{r} 2,400,334 \\ 318,114 \end{array}$ | $\begin{array}{r} 2,553,328 \\ 332,203 \end{array}$ | $\begin{array}{r} 2,505,675 \\ 362,357 \end{array}$ | $\begin{array}{r} 2,530,210 \\ 351,797 \end{array}$ | $\begin{array}{r} 2,620,700 \\ 366,806 \end{array}$ |
| Net income for the y Surplus beginning of year | $\begin{aligned} & 1,033,921 \\ & 1,619,526 \end{aligned}$ | $\begin{aligned} & 1,040,647 \\ & 1,697,496 \end{aligned}$ | $\begin{aligned} & 1,235,510 \\ & 2,092,199 \end{aligned}$ | $\begin{aligned} & 1,458,054 \\ & 2,507,165 \end{aligned}$ | $\begin{aligned} & 1,499,692 \\ & 3,029,715 \end{aligned}$ | $\begin{aligned} & 1,962,407 \\ & 3,728,179 \end{aligned}$ | $\begin{array}{r} 2,082,220 \\ 2,553,791 \end{array}$ | $\begin{aligned} & 2,221,125 \\ & 3,230,097 \end{aligned}$ | $\begin{array}{r} 2,143,318 \\ 3,529,847 \end{array}$ | $\begin{aligned} & 2,178,413 \\ & 3,833,571 \end{aligned}$ | $\begin{aligned} & 2,253,894 \\ & 4,097,491 \end{aligned}$ |
| Total | 2, 653, 447 | 2, 738, 143 | 3, 327, 709 | 3, 965, 219 | 4, 529, 407 | 5, 690, 586 | 4, 636, 011 | 5, 451, 222 | 5, 673, 165 | 6, 011, 984 | , 351, 385 |
| Less dividends paid on: <br> Common stock in cash | 560, 000 | 400, 000 | 560, 000 | 560, 000 | 560, 000 | 900, 000 | 1,140,000 | 1,620,000 | 1,620,000 | 1,680,000 | 1, 680, 000 |
| Common stock in s | 280, 000 | 280, 000 | 280, 000 | 280,000 | 280, 000 | 2, 280, 000 | 280, 000 | 280, 000 | 280, 000 | 280, 000 | 280, 000 |
| Total | 840, 000 | 680, 000 | 840, 000 | 840, 000 | 840, 000 | 3, 180,000 | 1,420,000 | i, 900, 000 | 1,900, 000 | 1,960, 000 | 1,960, 000 |
| Dividends received on Treasury stock 1 | 28, 973 | 34, 056 | 33, 810 | 32, 154 | . 38,772 | 43, 205 | 54,086 | 62,850 | 72,078 | 79,319 | 72,182 |
| Reserve for decline in value of investmen | 144, 924 |  | 14,354 | 127, 658 |  |  | 40,000 | 84, 225 | 11,672 | 33,812 |  |
| Reserves restored to surplus ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Other deductions (net) |  |  |  |  |  |  |  |  |  |  |  |
| Surplus end of the year | 1,697, 496 | 2, 092, 199 | 2,507, 165 | 3, 029, 715 | 3, 728, 170 | 2, 553, 791 | 3, 230, 097 | 3,529, 847 | 3, 833, 571 | 4,097, 491 | 4,396, 340 |


${ }^{1}$ Additions to surplus.


## Part III

## INVESTMENTS, PROFITS, AND RATES OF RETURN FOR IRON AND STEEL MANUFACTURERS

## SCHEDULE OF TABLES

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## INVESTMENTS, PROFITS, AND RATES OF RETURN FOR IRON AND STEEL MANUFACTURERS

## Introduction

This report deals with the investments, profits, and operations of 11 companies which supply the bulk of the demand for iron and steel products. Their operations constitute integrated systems from raw material to finished product, and include the production of iron ore, pig iron, coal, limestone, crude steel, castings, and a great variety of semifinished and finished steel products. These companies are United States Steel Corporation, Bethlehem Steel Corporation, Republic Steel Corporation, Jones \& Laughlin Steel Corporation, National Steel Corporation, Youngstown Sheet \& Tube Co., Inland Steel Co., American Rolling Mill Co., Wheeling Steel Corporation, Otis Steel Co., and Pittsburgh Steel Co.

The investments, profits, and rates of return for these companies, individually and as a group, are presented for each of the years 1917-38 for which the information was available. Comparisons are made of returns on investments and of sales and operating results for the respective companies; and their josition in the industry is indicated in terms of production, capacity, investment, and volume of business. Information is also presented with respect to salaries and other compensation paid in recent years to officers and directors of these companies.

The financial information, which is the basis for the discussion of investments, profits, and rates of return, was obtained from certified written reports submitted by the companies in answer to questionnaires, and from their published annual reports. In the case of United States Steel Corporation, the dominant company in the industry, the study was supplemented by an extensive field examination at the offices of the company. For this reason a separate section of this report is devoted to the investments, profits, and operations of this company and its subsidiaries.

## History and Business of Companies Under Review

The 11 companies whose operations are the subject of this report own 84 percent of the steel-making capacity of the country. The annual capacity in gross tons for each company and its subsidiaries and the percentage of each company's capacity of the total for the industry are as follows:

| Name of company | Annual canacit ${ }^{1}$ | Percent of total for industry |
| :---: | :---: | :---: |
| United States Steel Corporation | 25,790,000 | 35. 31 |
| Bethlehem Steel Corporatiou | 10,042, 000 | 13. 75 |
| kepublic Steel Corporation.. | 6,500, 000 | 8. 90 |
| Joncs \& Laughlin Steel Corporation | 3, 671, 200 | 5. 03 |
| National Steel Corporation . | 3. 400, 0100 | 4. 65 |
| Youngstown Sheet \& Tube Co | $3,120,000$ $2,760,000$ | ${ }_{4}^{4} 27$ |
| Aruerican Rolling Mill Co. | 2.603,500 | 3. 56 |
| Wheeling Steel Corporation | 1,750,000 | 2.39 |
| Otis Steel Cg. | 872,000 | 1. 19 |
| Pittsburgh Steel Co | 810, 000 | 1.11 |
| Total | 61,318, 700 | 8394 |

[^42]The history and nature of the business conducted by each of the companies listed above are briefly set forth below.

## UNITED STATES STEEL CORPORATION

The United States Steel Corporation, the dominant company in the industry, was incorporated in New Jersey on February 25, 1901, as a holding company to acquire the capital stocks giving control of the following companies:

Carnegie Co.<br>Federal Steel Co.<br>National Steel Co.<br>American Steel and Wire Co.<br>American Sheet Steel Co.<br>American Tin Plate Co.<br>American Steel Hoop Co.<br>American Bridge C.o.<br>National Tube Co.<br>Shelby Steel Tube Co.<br>Lake Superior Consolidated Iron Mines

According to the report of the Commissioner of Corporations on the steel industry, ${ }^{1}$ the formation of United States Steel Corporation was the culmination of a consolidation movement which was begun in the late 90 's. Great consolidations, one after another, were effected in the principal branches of the industry. This movement toward industrial consolidation was characterized by the restriction of competition through combination, the integration or linking up of productive processes through acquisition under one control of raw materials and manufacturing plants, and the creation of a large amount of inflated securities and attendant promotional profits.

According to the report, the three great companies dominating the production of crude and semi-finished steel at the time of the organization of United States Steel Corporation were the Carnegie Co., the Federal Steel Co., and National Steel Co. Six other large concerns, the American Steel \& Wire Co., American Sheet Steel Co., American Tin Plate Co., American Steel Hcop Co., American Bridge Co., and National Tube Co. controlled the lighter finished products. Not one of these concerns was entirely self-sufficient. The secondary group was dependent upon the primary group for its crude steel, and the primary group was largely dependent upon the secondary group for a market for is products.

These great concerns almost simultaneously began a movement for self-sufficiency. The secondary group began acquiring ore reserves and crude steel plants and the primary group, finding their chief customers turning into rivals, began the manufacture of finshed products. These efforts toward integration threatened to result in great duplication of steel producing and finishing capacity of the country and to involve them also in the invasion of each other's business. In 1900 the Carnegie Co. threatened to erect a great tube plant near Cleveland, thus invading the field of finished manufacture. Steel men and associated financial interests regarded this situation as dangerous and efforts were begun to merge the conflicting interests into a great corporation and avert a threatened "steel war." This led to the formation of United States Steel Corporation with a total capitalization of over $\$ 1,402,000,000$ to acquire the capital stocks of the companies listed above and to provide it with working capital.

The report of the Commissioner of Corporations also states that the actual value of the Steel corporation's entire tangible properties at its formation was not more than $\$ 700,000,000$, or about one-half its capitalization. More specifically it was estimated that of the total capitalization of the company at its formation, $\$ 720$, 846,817 represented intangible values, and $\$ 682,000,000$ represented tangible assets. Recognition was given to this estimate as evidenced by the following statement appearing in the annual report of the United States Steel Corporation to its stockholders for the year 1938:
"As far back as 1917 when the war-time excess-profits tax laws were in force, the Internal Revenue Department in its calculations to determine and verify invested capital for tangibles accepted a plan designed to fix such investment values at the date of the formation of the corporation on April 1, i901. This plan was based upon values appraised some years prior to 1917 by the United States Department of Commerce and Labor, Bureau of Corporations. With the enactment of the Federal Securities Exchange Act of 1934 and the regulations promulgated thereunder, the necessity developed for a segregation in the accounts of the intangible values. Accordingly, the plan accepted by the Internal Revenue

[^43]Department, as above outlined, was utilized as the initial basis from which to obtain this separation of intangible values."

By December 31, 1938, the United States Steel Corporation had written down to a nominal value of $\$ 1$ all of the $\$ 720,846,817$ of intangible values included in its assets at the time of its organization together with $\$ 47,824,205$ of additional intangible values resulting from subsequent acquisition.

Enormous profits were made from the flotation of securities of United States steel Corporation at the time of its organization. The underwriting syndicate alone, of which J. P. Morgan \& Co. were the managers, cleared a cash profit of about $\$ 62,500,000$.

As a result of this great industrial combination, there was centered in one concern approximately 43 percent of the pig iron production of the country, 65 percent of the production of steel ingots and castings, and 50 percent of the production of all kinds of finished rolled products. ${ }^{2}$ However, the position of United States Steel Corporation with respect to its participation in the industry has steadily declined since that time, particularly with regard to the production of steel ingots and castings. For example, by 1938 its participation in the industry had fallen to 33 percent of the production of steel ingots and castings and 29 percent of the production of finished rolled products.

Table 1, which follows, gives the steel corporations participation in the industry with regard to the production of steel ingots and castings, finished rolled products, and certain other products, for each of the years 1913-38. The source of the information for the percentages shown in the table was the annual statistical reports of the American Iron and Steel Institute.

Table 1.-Participation by subsidiaries of United States Steel Corporation in the total United States production of steel ingots and castings, finished rolled products and certain other products, for each of the years 1913-98

| Year | Steel ingots and eastings | Finished rolled steel products |  |  |  |  |  |  | Tin <br> plate <br> and <br> terne <br> plate | Wire nails | Tubes and pipe ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Steel rails | Structural shapes | Plates | Sheets, black plate, strip ${ }^{1}$ | Wire rods | Other finished rolled products ${ }^{1}$ | Total finished rolled products |  |  |  |
|  | Per- | Per- | Per- | Per- | Pcr- | Per- | Per- | Per- | Per- | Per- | Per- |
| 1913 | $\begin{gathered} c e n t \\ 53.2 \end{gathered}$ | $\begin{gathered} \text { cent } \\ 55.5 \end{gathered}$ | cent <br> 54.0 | $\begin{gathered} c e n t \\ c_{3} \end{gathered}$ | $\begin{gathered} c e n t \\ 44.8 \end{gathered}$ | cent | $\begin{aligned} & \text { cent } \\ & 39.9 \end{aligned}$ | ${ }_{\text {cent }}$ | ${ }_{\text {cent }}^{\text {cer }}$ ( |  | cent 50.4 |
| 1914. | 50.3 | 50.6 | 47.5 | 47.3 | 39.3 | 56.9 | 37.9 | 44.1 | 53.6 | 46.5 | 44.8 |
| 1915 | 50.9 | 51.8 | 46.1 | 49.8 | 41.0 | 60.3 | 37.8 | 44.6 | 54.0 | 47.6 | 45.5 |
| 1916 | 48.9 | 54.4 | 49.4 | 51.5 | 42.8 | 58.9 | 37.0 | 44.4 | 40.3 | 54.4 | 47.1 |
| 1917 | 45.0 | 54.8 | 47.9 | 46.9 | 39.0 | 57.8 | 34.8 | 42.0 | 48.6 | 54.5 | 45. 5 |
| 1918 | 44.1 | 58.3 | 48.4 | 50.0 | 33.9 | 56.5 | 33.8 | 41.7 | 48.3 | 53.3 | 46.1 |
| 1919 | 49.6 | 62.0 | 43.8 | 50.2 | 37.7 | 55.4 | 38.7 | 44.6 | 48.4 | 51.9 | 46.4 |
| 1920 | 45.8 | 58.1 | 43.9 | 46.4 | 32.9 | 56.0 | 35.9 | 41.6 | 45. 1 | 54.0 | 43.4 |
| 1921 | 55.4 | 68. 2 | 47. 5 | 56.5 | 39.5 | 55. 1 | 45.8 | 50.5 | 48.8 | 48.1 | 46.8 |
| 1922 | 45.2 | 56.9 | 46. 3 | 51.6 | 31.4 | 50.6 | 39.6 | 43.0 | 43.5 | 45. 1 | 39.4 |
| 1923 | 45. 2 | 57.3 | 48.0 | 54.9 | 31.5 | 51.9 | 37.7 | 42.9 | 50.1 | 45.9 | 41.7 |
| 1924 | 43.4 | 57.6 | 42.8 | 54.4 | 27.0 | 48.5 | 35.8 | 40.2 | 45.3 | 40.2 | 40.5 |
| 1925 | 41.6 | 55.0 | 40.7 | 51.1 | 26.1 | 47.4 | 34.7 | 38.4 | 46.3 | 40.8 | 39.2 |
| 1926 | 42.1 | 55.3 | 39.9 | 52.0 | 28.3 | 49.6 | 34.1 | 38.9 | 46.6 | 45.4 | 40.6 |
| 1927 | 41.1 | 53.3 | 38.8 | 52.4 | 26.4 | 47.4 | 33.2 | 37.7 | 40.1 | 42.0 | 41.0 |
| 1928 | 39.0 | 52.1 | 39.9 | 49.8 | 26. 0 | 46. 5 | 29.9 | 35.2 | 39.9 | 39.6 | 35.9 |
| 1929 | 38.8 | 50.6 | 41.8 | 51.9 | 22.8 | 45.7 | 31.7 | 35.4 | 38.8 | 39.0 | 34.8 |
| 1930 | 41.2 | 51.2 | 44.6 | 54.5 | 23.7 | 46.1 | 32.2 | 25. 6 | 37.5 | 44.6 | 36.1 |
| 1931 | 38.9 | 52.0 | 45. 4 | 50.0 | 20.8 | 45.3 | 31.3 | 34.1 | 32.4 | 43.4 | 35.1 |
| 1932 | 36.0 | 46. 9 | 43.9 | 41.7 | 19.9 | 44.2 | 26.6 | 29.6 | 30.4 | 42.4 | 28.5 |
| 1933 | 34. 6 | 56.3 | 39.1 | 30.6 | 23.3 | 41.6 | 26.9 | 29.0 | 34.0 | 37.6 | 29.3 |
| 1934 | 33.2 | 52.2 | 42.2 | 33.4 | 22.5 | 40. 6 | 23.7 | 28.4 | 34. 1 | 40.6 | 28.4 |
| 1935 | 32.6 | 58.8 | 40.4 | 33.5 | 21.9 | 40. 1 | 24.2 | 27.7 | 34.1 | 40.1 | 27.8 |
| 1936 | 35. 4 | 54.9 | 43.6 | 36.8 | 22.3 | 39.5 | 27.6 | 29.7 | 32.5 | 38.6 | 31.8 |
| 1937 | 36. 6 | 52.8 | 44.7 | 39.8 | 24. 2 | 36.9 | 29.2 | 31.3 | 32.5 | 39. 1 | 31.5 |
| 1938 | 33.2 | 54.5 | 44.4 | 30.6 | 24.3 | 31.0 | 27.5 | 29.2 | 35.5 | 34.3 | 29.3 |

[^44][^45]The tonnage basis for the percentages of production of stcel ingots and castings and for the percentages of production of total finished rolled products is given in the following tabulation. This tabulation compares the tonnage production of the subsidiaries of the United States Steel Corporation of steel ingots and castings and of finished rolled steel products with such production for the industry as a whole for each of the years 1913 to 1938 .

Comparison of production of steel ingots and steel for casting, and production of rolled and finished products for the steel industry and for the United States Steel Corporation, 1918-88

| Year | Production of steel ingots and castings |  | Production of finished rolled steel products |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total for the industry | United States Stee Corporation | Total for the indus- try | United States Stee Corporation |
| 1913 | 31, 300,874 | $\xrightarrow{\text { Tons }}$ | 791, 243 |  |
| 1914 | ${ }_{23,513,030}$ | 11, 826, 476 | 18, 730,196 | ${ }_{8,101,228}^{1,838}$ |
| 1915 | 32, 511,036 | 16,376, 492 | 24, 392, 924 | 10, 870, 446 |
| 1916 | 42, 773, 680 | 20, 210,589 | 32, 380, 389 | 14, 365, 342 |
| 1917 | 45,060, 607 | 20, 285, 061 | ${ }^{33,} 067,700$ | 13, 894, 521 |
| 1918 | 44, 462, 432 |  | 25, 101,544 | 12, $11.195,829$ |
| 1920 | 42, 322,934 | 19, 277, ${ }^{1760}$ | 32, 347,863 | -13,457, 171 |
| 1922 | 19,783, 797 | 10, 966, 347 | 14, 774,006 | - 7, 454,986 |
| 1922 | 35, 602, 926 | 16,082, 385 | 26,452,004 | 11, 360,826 |
| 1924 | ${ }_{37}^{47,931,939}$ | 20,329, ${ }^{1650}$ |  | -14, 112881,441 |
| 1925 | 45, 393, 524 | 18, 898 , 697 | 33, 386, 960 | 12, 825, 933 |
| 1926 | 48, 293, 763 | 2c, 306,668 | 35, 495, 892 | 13, 817, 820 |
| 1927 | 44, 535, 185 | 18, 486, 444 | ${ }^{32,879,031}$ | 12, 395, 226 |
| 1928 | 51, 544, 180 | 20, 105,749 | 37,662,916 | 13, 3 23,468 |
| 923 | 40,699, 483 | 16,726, 472 | ${ }_{29,513,007}^{41}$ | 10,804, 241 |
| 1931 | 25, 945, 501 | 10,082, 398 | 19, 175, 894 | 6, 538,980 |
| 1932 | 13, 681, 162 | 4,929, 236 | 10,451,088 | 3,093,522 |
| 1933 | ${ }^{23,232,347}$ | 8,046, 995 | 16,735,086 | 4,853,175 |
| 1934 | 26, 055,289 | $8,660,309$ | 18,969, 506 | 5, 387, 340 |
| 1935 | 34,092, 594 | 11, 130, 942 | ${ }_{3,}^{23,964,552}$ | 6,638,181 |
| ${ }_{1937}$ | 50, 568,701 | 18, 532, 72 | ${ }_{36,766,389}^{33,80,379}$ | 11, 507, 880 |
| 1938 | 28, 349, 991 | 9, 397, 371 | 20, 985, 563 | 6, 127, 78 |

Since its organization, United States Steel Corporation has continued to act solely as a holding company and has acquired numerous competing and other concerns of which the more important were Union Steel Co. in 1902, Clairton Steel Co. in 1904, Tennessee Coal, Iron \& Pailroad Co. in 1907, and Atlas Portland Cement Co. and Columbia Steel Co. in 1930. The company and its subsidiaries constitute a highly integrated unit from ore to finished products.

Through its susbidiaries the company owns vast material resources, including coal, limestone, and high-grade iron ore. It operates railroads, shipyards, and steamship lines. It manufactures all kinds of iron and steel products, including cement, with emphasis on the ordinary open-hearth trade steel for the railroad, construction, and other capital goods industries. It is also engaged in the fabrication of a wide variety of finished products, including bridges, ships, barges, railroad, and oil well equipment. The principal producing center has always been in Pittsburgh, but important plants are also located in Gary, Cleveland, Youngstown, Chicago, Birmingham, San Francisco, and Milwaukee.

Further details concerning the nature of the operations of the company and its subsidiaries appears in the section of the report devoted to the investments, profit, and rates of return for the United States Steel Corporation and subsidiaries.

## BETHLEHEM STEEL CORPORATION

Bethlehem Steel Corporation is the second largest steel company in the United States. The first company to bear the name of Bethlehem Steel Corporation was incorporated on December 10, 1904, in New Jersey as successor to United States Ship Building Co. This latter company had been organized in 1902.and owned the capital stock of an old established concern known as Bethlehem Steel Co. and the capital stocks of a number of shipbuilding companies specializing in naval
vessel construction for the United States and foreign governments. Bethlehem Steel Co. specialized in the manufacture of armor plate, gun forgings, and steel forgings for marine and stationary engines.

Charles M. Schwab, who was one of the organizers of United States Steel Corporation and its first president, promoted the organization of Bethlehem Steel Corporation in 1904. For some years prior to that time he desired to go into the steel business on his own account and the acquisition of the capital stock of Bethlehem Steel Co. in 1901 gave him the opportunity. This led to the organization of United States Shipbuilding Co. a year later and in turn to the organization of Bethlehem Steel Corporation in 1904.

Bethlehem Steel Corporation has since become a thoroughly integrated concern from raw materials to finished products. The company expanded rapidly. New plants were constructed and numerous competing and other concerns were acquired from time to time. In 1908 the company organized Iron Mines Co. for the purpose of acquiring, holding, mining, and operating iron-ore properties. Soon thereafter other companies having iron-ore deposits in Chile and Cuba were acquired. In 1913, the company acquired Fore River Shipbuilding Co., Quincy, Mass., and Titusville Forge Co., Titusville, Pa., which enabled the company to build complete battleships at the Quincy plant. Earlier the company had expanded shipbuilding operations on the Pacific coast through the subsidiary, Union Iron Works Co.

Substantial growth of Bethlehem Steel Corporation occurred during the World War. In 1916 controlling equities in the stocks of Pennsylvania Steel Co. and Baltimore Sheet \& Tin Plate Co. were acquired. Pennsylvania Steel Co., or its predecessors, began operations in 1866 and owned important plants, including the Sparrows Point plant, for the manufacture of various types of steel and iron products. It also owned blast furnaces, coke ovens, coal properties, and ore deposits. Pennsylvania Steel Co. controlled Maryland Steel Co. and other important subsidiaries.

Late in 1916 and early in 1917 Bethlehem Steel Corporation acquired American Iron \& Steel Manufacturing Co., Lackawanna Iron \& Steel Co., and Lehigh Coke Co.

For the purpose of consolidating the shipbuilding operations the company formed, in 1917, Bethlehem Shipbuilding Corporation, Ltd., which took over the plants of various shipbuilding companies. About the same time the domestic mining operations were consolidated into the newly formed Bethlehem Mines Corporation.

In July 1919 the capital stocks of Cornwall Railroad Co. and Cornwall Iron Co. were purchased by Bethlehem Steel Corporation. Elkins Coal \& Coke Co., in West Virginia, was acquired in 1919 and additional coal lands in West Virginia were purchased in 1920.

Bethlehem Steel Corporation acquired a number of important companies during 1921, 1922, and 1923. Those acquisitions included Baltimore Dry Docks \& Shipbuilding Co., Lackawanna Steel Co., and Midvale Steel \& Ordnance Co. and its subsidiary, Cambria Steel Co.

In January 1930 all the plants and business of Pacific Coast Steel Co. and Southern California Iron \& Steel Co. were acquired. The fabricating properties of McClintic-Marshall Corporation were purchased in 1931. Also during that year Bethlehem Steel Corporation purchased the fabricating plants and properties of Levering \& Garrigues Co., Hay Foundry \& Iron Works, Hedden Iron Construction Co., and Kalman Steel Co. In 1932 the property of Seneca Iron \& Steel Co. were purchased. The properties and assets of Williamsport Wire Rope Co. were acquired in 1937.

In a program to consolidate subsidiaries in the interests of economies in management and savings in taxes a merger was effected in 1936 of Bethlehem Steel Corporation and three of its subsidiaries with Pacific Coast Steel Corporation. The latter company had been incorporated in Delaware in 1919 and at the time of the merger its name was changed to Bethlehem Steel Corporation so that the present company is a Delaware corporation, successor to the New Jersey corporation of the same name.

The company and its subsidiaries own extensive ore, coal, and limestone resources, together with manufacturing properties, railroads, and fleets of ocean and lake steamers. The business includes the manufacture of all kinds of iron, steel, and related products. It also includes the fabrication and erection of steel for buildings, bridges, and other structures, the construction of railroad cars for passenger and freight transportation, and the building and repairing of naval and commercial vessels. Producing plants are located in Pennsylvania, Mary-
land, New York, Washington, and California. Important steel-fabricating works for the erection of buildings, bridges, and other structures are located in Pennsylvania, New York, New Je sey, Illinois, and California. Shipbuilding and ship repair plants are located at Baltinore and Sparrows Point, Md.; Boston, Quincy, and Braintree, Mass.; and San Francisco, Alemada, and San Pedro, Calif.

Like the Steel Corporation the bulk of Bethlehem's business has always been in steels for the railroad and building industries.

## REPUBLIC STEEL CORPORATION

Republic Steel Corporation is the third largest steel company and had its beginning in 1899 as Republic Iron \& Steel Co. In 1930 this company and four other large companies-Central Alloy Steel Corporation, Donner Steel Co., Berger Manufacturing Co., and the Bowine-Fuller Co.-were merged to form Republic Steel Corporation.

The company has had a rapid growth since its organization in 1930, particularly with regard to the acquisition of other companies, among the more important of which were the Corrigan, McKinney Steel Co., Newton Steel Co., and Truscon Steel Co. in 1935, Canton Tin Plate Corporation in 1936, and the Gulf States Steel Co. in 1937.
The corporation and its subsidiaries are large producers of alloy steels and are among the leaders in capacity for stainless steel production. They manufacture steel pipe by the electric welding process on a large scale and rank high in the production of tin plate, but have little or no capacity in heavier steels, such as rails and structurals. Their largest single customer is the automobile industry. The system is fairly well integrated and owns huge coal and iron reserves, the latter in both the Lake Superior and Birmingham districts. Its principal plants are located in Cleveland, Youngstown, Warren, Niles and Canton, Ohio; Buffalo, N. Y.; Chicago, Ill.; and Birmingham, Ala.

## JONES \& LAUGHLIN STEEL CORPORATION

Jones \& Laughlin Steel Corporation was incorporated in Pennsylvania in December 1922 as successor to Jones \& Laughlin Steel Co., which had been incorporated in Pennsylvania in June 1902 as successor to the former partnership of Jones \& Laughlins, Ltd., established in 1850.

The company is the fourth largest steel producer in the country and with its subsidiaries forms an integrated system with works at Pittsburgh and Aliquippa, Pa., coal properties on the upper Monongahela River, and interests in iron ore, steamship, and railroad properties. Although the company manufactures a diversified line of iron and steel products, its major product is pipe, structural, and railway steel. In May 1939 the company announced an important disce:Jery of a method to obtain a uniform quality Bessemer steel with the aid of photeelectric cells.

## NATIONAL STEEL CORPORATION

National Steel Corporation was incorporated in Delaware in November 1929 as a holding company. It acquired the capital stocks giving control of Weirton Steel Co., Great Lakes Steel Corporation, and certain subsidiaries of the M. A. Hanna Co., which owned large ore reserves in the Lake Superior district, freighters for the transportation of the ore, and plants for the manufacture of iron and steel.

Weirton Steel Co. had its beginning in 1905 as Phillips Sheet \& Tin Plate Co. The company's principal producing plants were located in West Virginia and it specialized in the manufacture of sheet and tin plate products for all purposes. At the time of its acquisition by National it had developed a substantial business with the automobile industry.

Great Lakes Steel Corporation was incorporated in February 1929 for the purpose of carrying on a steel business in plants to be erected on a tract of land which the company owned in the Detroit industrial area. This program was carried out and this company's properties, together with those of other subsidiaries of National Steel Corporation, constitute the only integrated steel producing unit in the Detroit area.

The acquisition of these companies and their subsequent growth make National Steel a well-integrated unit, ranking fifth in ingot capacity and about the third largest producer of tin plate. Its plants in the Detroit area produce steel bars, strip, sheets, and related products, while its other main plant at Weirton, W. Va., produces primarily tin plate and "heavy" steel, such as shapes, plates, and structural steel.

## YOUNGSTOWN SHEET \& TUBE CO.

Youngstown Sheet \& Tube Co. was incorporated in 1900 as Youngstown Iron Sheet \& Tube Co. The name of the company was changed to the present title on May 5, 1905.

Youngstown Sheet \& Tube Co. is about the sixth largest domestic steel producer in terms of ingot eapacity. About two-thirds of the capacity is centralized in the Youngstown district of Ohio and the remainder in the Chicago area. The company is well integrated and controls coal, iron ore, and limestone reserves which are reported to be sufficient to last about 35 years.

The company's operations were expanded considerably in 1923 by the acquisitions of plants and other assets of Brier Hill Steel.Co. and Steel \& Tube Co. of America. A considerable amount has also been spent on plant improvements and new equipment in the last few years with the expansion of the business into the "light" steel lines, notably sheet and strip steel for the automobile- and house-hold-equipment industries. It is estimated that pipe and conduit make up 31 percent of capacity; sheets and strip, 34 percent; tin plate, 7 percent; plates, 3 percent; merchant bars, light structural shapes, railroad tie plates, and track spikes, 15 percent; wire rods and other wire products, 8 percent; and slabs, billets, skelp, and sheet bars, 2 percent.

## INLAND STEEL CO.

Inland Steel Co. was incorporated in Delaware in February 1917 as successor to an Jllinois company of the same name established in 1893.

The company is fully integrated, with operations varying from the production of raw material requirements to the fabrication and distribution of finished products. The principal iron and steel producing properties are located along the southern shore of Lake Michigan at Indiana Harbor, Ind., in the great ChicagoGary industrial area. The company also owns or controls important iron ore, coal, and limestone properties as well as facilities for the fabrication and distribution of a diversified line of products. It is estimated that approximately 60 percent of the finished steel products capacity is available for the production of so-called light products, such as sheets, strip, tin plate, bars, etc., and 40 percent is available for the production of the so-called heavy products, such as shapes, plates, rails, etc.

In recent years the company has expanded its operations through a program of construction of plant and facilities and the acquisition of the capital stocks giving control of other companies, notably Joseph T. Ryerson \& Son, Inc., Chicago, Ill., fabricators and distributors of steel products, and Milcor Steel Co., Milwaukee, Wis., manufacturers and fabricators of miscellaneous building materials from steel sheets.

## AMFRICAN ROLLING MILL CO.

American Rolling Mill Co. was incorporated in Ohio in June 1917 to acquire the businesses and assets of American Rolling Mill Co., incorporated in New Jersey, and Columbus Iron \& Steel Co. The predecessor American Rolling Mill Co. had been engaged primarily in the manufacture of specialty "Armco" ingot iron sheets and steel sheets and had purchased substantially all of its pig-iron requirements from Columbus Iron \& Steel Co., a company producing pig iron only.

At present the company specializes in producing high quality steel, iron sheets, and light plates. It has little or no capacity for heavier products such as rails and structurals. Its main outlet is the automobile industry, while other important consumers include jobbers, and the road-construction, refrigerator, and electricalequipment industries.

The company's patented continuous rolling process has been licensed on a royalty basis since 1927 to United States Steel, Republic, Youngstown Sheet \& Tube, and other domestic and foreign manufacturers. The company is reported to have evolved a method of spirally welding pipe and a new process for enameling iron. It has been active in alloy and stainless stcels. Recent developments are said to have included a new kind of galvanized roofing and the perfection of a new type of zinc-coated sheet steel. Fully integrated plants are at Ashland, Ky., on the Ohio waterway, and Middletown, Ohio, near Cincinnati. Finishing mills are located in the Pittsburgh district and at Kansas City.

Wheeling Steel Corporation was organized in June 1920 to consolidate the properties and businesses of LaBelle Iron Works, founded in 1852; WhitakerGlessner Co., which had its beginning in 1875; and Wheeling Steel \& Iron Co., incorporated in 1892.

Wheeling Steel Corporation is one of the smaller but well-integrated units in the steel industry. It owns 14 manufacturing plants along the Ohio River Valley in the States of West Virginia and Ohio; iron ore properties in Minnesota; interests in Great Lakes steamers; coal properties in Pennsylvania, West Virginia, and Ohio; and interests in railroad and river transportation. It is reported that more than 70 percent of the corporation's output in recent years has consisted of sheets, tin plate, and strips. The company's largest customer, the automobile industry, takes from 20 to 25 percent of the total output.

## OTIS STEEL CO.

Otis Steel Co. was incorporated in January 1912 in Ohio, and acquired the property and assets of Otis Steel Co., Ltd., an English corporation registered in 1895. The company is engaged chiefly in the production of sheets, plates, and strips. Plants are well located geographically on lake and river frontage at Cleveland, permitting economical transportation of raw materials, and of finished steel to Detroit and other points by water. The company specializes in the manufacture of automobile steel and sells about half of its finished output to the automobile industry. About 17 percent of the company's capacity is in structural and other heavy steels.

## PITTSBURGH STEEL CO.

Pittsburgh Steel Co. was incorporated in July 1901 and acquired the Pittsburgh Steel Hoop Co. which had been organized in July 1899. The company and its subsidiaries engage chiefly in the manufacture and sale of pig iron and semifinished and finished steel products. The most important finished steel products include a wide variety of seamless steel tubes ranging from one-half-inch to 14 inches in diameter, and a diversified line of wire and wire products, including laths, nails, fence and reinforcing material for building construction. Plants are located along the Monongahela River, and the company controls coal and iron ore reserves and through its subsidiaries, operates a railroad and a fleet of barges.
The subsidiaries of this company and of all other companies under review are listed in appendix tables 1 to 11. These tables list the names of the active subsidiaries of each company at December 31, 1937, the nature of the business in which they are engaged, and the percentage of control by the holding company.

## COMPARATIVE INVESTMENTS, PROFITS AND RATES OF RETURN FOR THE PRINCIPAL STEEL COMPANIES

## Summary of Investments, Proflts, and Rates of Return

It has been shown heretofore that the 11 steel companies, for which data are available, represent a substantial portion of the industry. Based upon capacity, the 11 companies and their subsidiaries have 84 percent of the steel-making capacity of the country. Thus it is evident that the operating results for the 11 companies, individually and combined, are significant indices of the trends of the industry.

Rates of return on investment have been computed on three bases, namely, the total investment, the stockholders' investment, and the common stockholders' equity. A summary of the investments, profits, and rates of return on each basis of investment for all 11 companies conibined, for the years 1917-38, is presented in the following table 2 .

The total investment includes the outstanding common and preferred stocks and long-term debt, surplus, surplus and contingency reserves, and reserves for Federal income and profits taxes. The stockholders' investment includes all of these elements except long-term debt. The stockholders' equity consists of the outstanding common stocks, surplus, surplus and contingency reserves, and reserves for Federal income and profits taxes. On each basis, the investments were averaged as of the beginning and end of each year, after deducting goodwill, appreciation and other intangibles.

The profits used in computing rates of return are before deductions for Federal income and profits taxes, since such taxes are wholly contingent upon profits and represent a division of the earnings of the business. Subject to this qualification, the profits applicable to the total investment represent the net income from all sources before deducting interest on long-term debt. The profits applicable to the stockholders' investment represent the net income after deducting interest on long-term debt. The profits applicable to the common stockholders' equity were determined by deducting the dividends paid or accrued on the preferred stocks from the income applicable to the stockholders' investment. In order to arrive at the profits applicable to the common stockholders' investment it was necessary to adjust the profits of some of the companies by the amounts of accrued dividends on the preferred stocks which were in arrears. For some of the companies the preferred dividends in arrears extended over several years, especially during the denression years.
TABLe 2.-Summary of investments, profits, and rates of return on the total investment, stockholders' investment, and common stockholders' equity

| lear | Number of companies | A verage investment 1 |  |  | Net profit ${ }^{2}$ applicable to |  |  | Rates of return on |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total investment | Stockholders' investment | Common stockholders' equity | Total investment | Stockholders' investment | Common stockholders' equity | Total investment | Stockholders' investment | Common stockholders' equity |
|  |  |  |  |  |  |  |  | Percent | Percent | Percent |
| 1917 | 9 | \$2, 213, 707, 515 | \$1, 437, 006, 392 | \$990, 785, 542 | \$705, 363, 357 | \$663, 468, 873 | \$632, 589, 523 | 31.86 | 46.17 | 63.85 |
| 1918 | 9 | 2, 582, 407, 605 | 1,779, 909, 979 | 1, 318,459, 179 | 566, 801, 772 | 525, 293, 121 | 492, 580, 451 | 21.95 | - 29.51 | 37. 36 |
| 1919 | 10 | 2, 562, 437, 392 | 1,778, 320, 566 | 1,312, 879, 716 | 249, 893, 905 | 208, 743, 874 | 175, 825, 259 | 9.75 | 11.74 | 13. 39 |
| 1920 | 10 | 2, 559, 572, 534 | 1,789, 37ヶ, 878 | 1,311, 070, 478 | 294, 965, 899 | 255, 161, 472 | 220, 606, 733 | 11.52 | 14. 26 | 16.83 |
| 1921 | 10 | 2,613, 654, 189 | 1, 836, 824,895 | 1,346, 854, 495 | 81,614, 552 | 40,992, 895 | 5,720,481 | 3.12 | 2.23 | . 42 |
| 1922 | 10 | 2, 608, 021, 308 | 1, 821, 644, 836 | 1, 325, 267, 936 | 109, 526, 987 | 68, 827, 860 | 33, 311, 777 | 4.20 | 3.78 | 2. 51 |
| 1923 | 10 | 2, 840, 595, 520 | 1, 983, 649, 171 | 1, 442, 339, 955 | 246, 680, 631 | 200, 226, 219 | 158, 970, 922 | 8.68 | 10.09 | 11: 02 |
| 1924 | 10 | 3, 041, 460, 238 | 2, 118, 508, 146 | 1,536,790, 767 | 196, 273, 306 | 146, 465, 949 | 101, 582, 738 | 6.45 | 6.91 | 6.61 |
| 1925 | 10 | 3, 083, 059, 302 | 2, 158, 203, 999 | 1, 574, 020, 566 | 226, 179, 246 | 176, 531, 658 | 134, 742, 391 | 7.34 | 8.18 | 8.56 |
| 1926 | 10 | 3, 181, 636, 884 | 2, 277, 654, 330 | 1, 672.781, 478 | 279, 171, 326 | 230, 156, 432 | 185, 389, 169 | 8.77 | 10.10 | 11.08 |
| 1927 | 10 | 3, 251, 345, 570 | 2, 374, 418, 150 | 1, 746, 309, 179 | 218, 562, 755 | 171, 518, 350 | 126, 763, 930 | 6.72 | 7.22 | 7.26 |
| 1928 | 10 | 3, 326, 387, 286 | 2, 438, 210, 838 | 1,815, 701, 638 | 275, 010, 676 | 226, 406, 911 | 182, 995, 895 | 8.27 | 9.29 | 10.08 |
| 1929 | 10 | 3, 483, 432, 320 | 2, 759, 921, 919 | 2, 148, 770, 198 | 401, 752. 360 | $363,615,712$ | 320, 454, 457 | 11. 53 | 13.17 | 1491 |
| 1930 | 11 | 3, 749, 038, 167 | 3, 215, 234, 115 | 2, 588, 423, 186 | 204, 886, 309 | 176, 812, 651 | 132, 763, 373 | 5.47 | 5. 50 | 5.13 |
| 1931 | 11 | 3, 785, 474,393 | 3, 230, 190, 166 | 2, 582, 814, 071 | 22, 080, 382 | 3 8, 793, 004 | ${ }^{3} 52,972,082$ | . 58 | 3. 27 | 32.05 |
| 1932 | 11 | 3,637, 006, 599 | 3, 059, 705, 419 | 2, 410, 372, 673 | ${ }^{3} 107,573,007$ | ${ }^{3} 137,610,085$ | ${ }^{3} 181,826,523$ | 32.96 | 34.50 | 37.54 |
| 1933 | 11 | 3, 471, 996, 803 | 2, 921, 272, 091 | 2, 272, 306,901 | ${ }^{\text {3 }} 35,641,890$ | ${ }^{3} 64,414,871$ | ${ }^{8} 108,620,228$ | ${ }^{3} 1.03$ | 32.21 | ${ }^{3} 4.78$ |
| 1934 | 11 | 3, 401, 101, 543 | 2, 862, 530, 570 | 2, 213, 601, 056 | 13,889, 328 | ${ }^{3} 14,237,163$ | ${ }^{3} 58,439,521$ | . 41 | 3. 50 | ${ }^{3} 2.64$ |
| 1935 | 11 | 3, 314,442. 229 | 2, 746, 487, 277 | 2, 106,667, 057 | 80, 129, 725 | 51, 202, 762 | 8, 160, 123 | 2.42 | 1.86 | . 39 |
| 1936 | 11 | 3, 306, 323, 280 | 2,681, 684, 819 | 2, 042, 363, 182 | 182, 617, 123 | 153, 307, 114 | 111, 167, 624 | 5. 52 | 5. 72 | 5. 44 |
| 1937 | 11 | 3, 461,961, 526 | 2, 817,540, 624 | 2, 148, 318, 744 | 282, 596, 553 | 254, 194, 158 | 209, 612, 574 | 8.16 | 9.02 | 9.76 |
| 1938 | 11 | $3,583,045,740$ | 2, 867, 279, 406 | 2, 176, 491, 233 | 32, 093, 402 | 557, 067 | ${ }^{3} 44,910.977$ | . 90 | . 02 | ${ }^{3} 2.06$ |
| A verage |  | 3,226,998, 366 | 2, 469, 810, 239 | 1, 883, 792, 160 | 212, 754, 232 | 173, 395, 480 | 132, 342, 274 | 6.59 | 7.02 | 7.03 |

[^46]Table 2 shows that during the 22 years, 1917-38, all companies as a group earned an average of 6.59 percent on the total investment, 7.02 percent on the stockholders' investment, and 7.03 prcent on the common-stock holders' equity. On each basis of investment returns were highest in 1917 when 31.86 percent was earned on the total investment, 46.17 percent on the stockholders' investment and 63.85 percent on the common-stock holders' equity. Rcturns were lowest in 1932 when losses were sustained equivalent to 2.96 percent on the total investment, 4.5 percent on the stockholders' investment, and 7.54 percent on the commonstock holders' equity.

The table shows that profits were earned on each basis of investment in all years prior to 1931 and that the high returns earned during the years 1917-20 were not equalled until 1929, although substantial returns were earned during the intervening years. Losses sustained during the depression years and the relatively small profits earned in most of the later years were such that the results of operations were decidedly less favorable than for the period prior to 1931. For example, the average return earned on the total investment for the years 1917-30 was 9.87 percent as compared with 1.68 percent for the years 1931-38. The average return of 6.59 percent for all years on this basis of investment was higher than for any year during the latter period, except in 1937 when 8.16 percent was earned. It will be noted that while the trend in earnings was upward following 1932 there was a sharp reversal in 1938 when only nine-tenths of 1 percent was earned on the total investment.

## Goodwill, Appreciation, and Other Intangibles

It has been explained that deductions were made for goodwill, appreciation, and other intangibles in computing rates of return on each basis of investment. The aggregate amounts deducted from investments for each of the years 1917-38 were as follows:

| 1917 | \$580, 098, 176 | 1928 | \$413, 986, 724 |
| :---: | :---: | :---: | :---: |
| 191 | 575, 988, 166 | 1929 | 325, 520, 837 |
| 1919 | 567, 655, 407 | 1930 | 324, 723, 807 |
| 1920 | 559, 637, 619 | 1931 | 324, 601, 493 |
| 1921 | 556, 303, 836 | 1932 | 324, 672, 006 |
| 1922 | 547, 904, 451 | 1933 | 324, 122, 565 |
| 1923 | 541, 972, 811 | 1934 | 324, 018, 073 |
| 1924 | 532, 598, 775 | 1935 | 298, 860, 813 |
| 192 | 521, 914, 295 | 1936 | 277, 988, 471 |
| 1926 | 466, 634, 633 | 1937 | 268, 565, 845 |
| 1927 | 456, 048, 066 | 193 | 18, 337, 800 |

On the average about 85 percent of the amounts shown above pertain to United States Steel Corporation. The bulk of the remainder was deducted from the investments of Bethlehem Steel Corporation and Republic Steel Corporation. The minimum amounts of intangibles applicable to these companies were $\$ 14,083,793$ for Bethlehem and $\$ 32,996,728$ for Republic.

The amounts of appreciation deducted from the investments of the Steel Corporation ranged from $\$ 522,609,129$ in 1917 down to $\$ 249,583,149$ in 1937. In 1938 the company wrote off all but $\$ 1$ of the latter amount. It has been explained that the Bureau of Corporations found that the actual value of the tangible properties of the steel corporation at the time of its formation in 1901 was not more than $\$ 700,000,000$, or about one-half of its capitalization. Further details concerning the appreciation in the company's accounts appear in the section of this report devoted to the investments, profits and rates of return of United States Steel Corporation and subsidiaries.

## Comparison of Average Annual Investments, Profits, and Rates of Return for Individual Companies

Table 2 summarized the investments, profits, and rates of return for all 11 companies, combined, for each of the years 1917-38 on the basis of the total investment, the stockholders' investment and the common stockholders' equity. Table 3 , immediately following, compares the average annual investment, profits and rates of return for each company and compares the returns earned by each company in relation to the average return for the period under review for all companies combined.

Table 3.-Comparative average annual investments, profits, and rates of return for the period 1917-38, for the principal steel companies

| Companies | A verage annual investment |  |  |
| :---: | :---: | :---: | :---: |
|  | Totalinvest- ment | Stockholders' investment | Commonstockholders' equity |
| United States Steel Corporation | \$1, 760, 820, 526 | \$1, 388, 291, 953 | \$1, 028, 010, 853 |
| Bethlehem Steel Corporation | 528, 805, 568 | 369, 365, 951 | 291, 686, 021 |
| Republic Steel Corporation. | 148, 335, 836 | 107, 949, 709 | 72, 628, 392 |
| Jones \& Laughlin Steel Corporat | 182, 959, 802 | 165, 448, 278 | 124, 516, 912 |
| Youngstown Sheet \& Tube Co | 165, 650, 756 | 112, 131, 517 | 98, 797, 945 |
| National Steel Corporation | 144, 350, 340 | 102, 956, 812 | 102, 956, 812 |
| Inland Steel Co. | 80, 407, 561 | 59, 522, 984 | 57, 250, 257 |
| American Rolling Mill Co | 61, 995, 249 | 45, 121, 565 | 37, 170, 674 |
| Wheeling Steel Corporation | 84, 723, 458 | 63, 618, 249 | 35, 967, 172 |
| Otis Steel Co. ${ }^{\text {3 }}$ | 29, 650,862 | 20, 906, 075 | 10, 799, 879 |
| Pittsburgh Steel Co | 39, 298, 408 | 34, 497, 146 | 24, 007, 243 |
| Combined | 3, 226, 998, 366 | 2, 469, 810, 239 | 1,883, 792, 160 |


| Companies | Average annual profit ${ }^{1}$ applicable to |  |  |
| :---: | :---: | :---: | :---: |
|  | $\underset{\substack{\text { ment }}}{\text { Total invest- }}$ | Stockholders' investment | Common stockholders' equity |
| United States Steel Corporation | \$129, 020, 924 | \$110, 663, 394 | \$85, 443, 717 |
| Bethlehem Steel Corporation | 23, 947, 750 | 15, 099, 429 | 9, 595, 779 |
| Republic Steel Corporation | 5, 700, 718 | 3, 387, 167 | 1, 144, 771 |
| Jones \& Laughlin Steel Corporat | 11, 039, 140 | 10, 168, 753 | 7, 212, 944 |
| Youngstown Sheet \& Tube Co | 10,688, 035 | 7, 905, 486 | 7, 076, 256 |
| National Steel Corporation ${ }^{2}$ | 11, 78\%, 262 | 9, 735, 132 | 9, 735, 132 |
| Inland Steel Co | 8, 187, 736 | 7, 124, 658 | 6, 965, 567 |
| American Rolling Mill Co | 4, 045, 371 | 3,111, 614 | 2, 665, 658 |
| Wheeling Steel Corporation | 5, 161, 605 | 3,945, 083 | 1,698,980 |
| Otis Steel Co. ${ }^{3}$ | 1,240,364 | 635,874 | 4 80, 959 |
| Pittsburgh Steel Co. | 1,933, 327 | 1,618,890 | 884, 429 |
| Combined | 212, 754, 232 | 173, 395, 480 | 132, 342, 274 |


| Companies | A verage annual rate of return on- |  |  |
| :---: | :---: | :---: | :---: |
|  | Totalinment | Stock-investment | Common stockholders' equity |
| United States Steel Corporation. | Percent $7.33$ | Percent 7.97 | Percent $8.31$ |
| Bethlehem Steel Corporation. | 4.53 | 4.09 | 3. 29 |
| Republic Steel Corporation. | 3. 84 | 3.14 | 1. 58 |
| Jones \& Laughlin Steel Corporation | 6.03 | 6.15 | 5.79 |
| Youngstown Sheet \& Tube Co | 6. 45 | 7.05 | 7.16 |
| National Steel Corporation ${ }^{2}$. | 8.17 | 9.46 | 9.46 |
| Inland Steel Co.. | 10.18 | 11.97 | 12. 17 |
| American Rolling Mill Co | 6. 53 | 6.90 | 7.17 |
| Wheeling Steel Corporation | 6. 09 | 6. 20 | 4.72 |
| Otis Steel Co. ${ }^{3}$ | 4.18 | 3.04 | 4.05 |
| Pittsburgh Steel Co. | 4.92 | 4.69 | 3.68 |
| Combined | 6. 59 | 7.02 | 7.03 |

${ }_{2}^{1}$ Net profit before deducting Federal income and profits taxes.
${ }^{2}$ Annual a verage for period from 1930 to 1938 , inclusive.
3 Annual average for period from 1919 to 1938, inclusive.
4 Denotes loss.
Table 3 shows that for all 11 companies the average annual return for the year 1917-38 was 6.59 percent of the total investment, 7.02 percent on the stockholders' investment, and 7.03 percent on the common stockholders' equity. The returns for only 3 of the 11 companies exceeded these averages, namely those for United States Steel Corporation, National Steel Corporation and Inland Steel Co.

It will be noted that Inland Steel Co. was the most profitable. Its average earnings were equivalent to 10.18 percent on the total investment, 11.97 percent on stockholders' investment, and 12.17 percent on the common stockholders' equity. National Steel Co. was next with average returns of 8.17 percent on the total investment and 9.46 percent on each of the other two bases of investment. Throughout the period, United States Steel Corporation's earnings averaged 7.33 percent on the total investment, 7.97 percent on the stockholders' investment and 8.31 percent on the common stockholders' equity.

Except for the Steel Corporation, the returns earned by the larger companies were less favorable on the whole than for the smaller companies. Republic Steel Corporation, the third largest company in the industry earned on average return of 3.84 percent on its total investment, which was the lowest return for any of the companies shown on the table. Bethlehem Steel Corporation, the second largest company, earned an average return of 4.53 percent on its total investment, and was the next smallest return, except for Otis Steel Corporation, the smallest company shown in the table. This company earned an average return of 4.18 percent on its total investment.

It will be noted that on the average, the investments of United States Steel Corporation are far in excess of those for any of the other companies. Its total investment amounts to 55 percent of the total for all companies shown in the table and is $31 / 3$ times larger than that of Bethlehem Steel Corporation, the next largest company.

Table 4, which follows, compares the total investments of each company in 1938 with their respective investments in 1917, or the earliest subsequent year for which the information was available, and indicates the source of invested capital for each company in the respective years.

Table 4.-Sources of invested capital of the principal steel companies in 1917 'and 1938

|  | United States Steel Corporation | Bethlehem Steel Corporation | Republic Steel Corporation | Jones \& Laughlin Steel Corporation |
| :---: | :---: | :---: | :---: | :---: |
| A verage total investment, 1917. | \$1, 603, 088, 695 | \$227, 819, 516 | \$65, 041, 857 | \$141, 507, 560 |
| RATIOS TO TOTAL INVESTMENT | Percent | Percent | Percent | Percent |
| Preferred stock | 31.71 | 13.07 | 38.44 | Percent |
| Common stock | 22.47 | 16.31 | 41.80 | 20. 50 |
| Surplus, including reserves | 39.60 | 32.64 | 45.73 | 63.78 |
| Less intangibles $\begin{aligned} & \text { Total }\end{aligned}$ | 93.78 32.83 | 62.02 | 125.97 50.72 | 84. 28 |
| Stockholders' investment | 60.95 | 55.84 | 75.25 | 4. 28 |
| Minority equities in subsidiaries. |  |  |  | -t- |
| Long-term debt, less discount, etc | 39.05 | 44.16 | 24.75 | 15.72 |
| A verage total investment, 1917. | 100.00 | 100.00 | - 100.00 | 100.00 |
| A verage total investment, 1938 | \$1, 557, 164, 621 | \$655, 782, 528 | \$322, 329, 168 | \$207, 198, 670 |
| RATIOS TO TOTAL INVESTMENT | Percent | Percent | Percent | Percent |
| Preferred stock | 48.91 | 17.09 | 12.47 | - 28.34 |
| Common stock | 23. 14 | 46.13 | 40.10 | 27.81 |
| Surplus, including reserves. | 24.27 | 11.12 | 20.01 | 24.26 |
| Less Total capital stock and surplus | 96.32 | 74.34 | 72.58 | 80.41 |
| Stockholders' investment | 88. 30 | 74.34 | 72.58 | 80.41 |
| Minority equities in subsidiaries |  | . 02 | . 06 | . 23 |
| Long-term debt, less discounts, etc | 11.70 | 25.64 | 27.36 | 19.36 |
| A verage total investment, 1938 | 100.00 | 100.00 | . 100.00 | 100.00 |

Table 4.-Sources of invested capital of the principal steel companies in 1917 and 1938-Continued

|  | Youngstown Sheet \& Tube Co. | National Steel Corporation | Inland Steel Co. | American Rolling Mill Co. |
| :---: | :---: | :---: | :---: | :---: |
| A verage total investment, 1917. | \$70, 033, 685 | 1 \$104,249, 526 | \$41, 805, 773 | \$13, 943, 619 |
| RATIOS TO TOTAL INV | Percent | Percent | Percent | Percent |
| Preferred stock | 14. 21 |  |  | 5.74 |
| Common stock | 26.11 | 50.61 | 41.85 | 52.78 |
| Surplus, including reserves | 59.95 | 45.35 | 44.24 | 37.08 |
| Total capital stock and surplus | 100.27 | 95.96 | 86.09 | 95.60 |
|  | . 44 | E. 83 |  | 8.49 |
| Stockholders' investment | 99.83 | 90.13 | 86.09 | 87.11 |
| Minority equities in subsidiaries. |  | . 26 |  |  |
| Long-term debt, less discount, etc | 17 | 9.61 | 13.91 | 12.89 |
| A verage total investment, 1917 | 100.00 | ${ }^{1} 100.00$ | 100.00 | 100.00 |
| A verage total investment, 1938 | \$212, 984, 832 | \$179, 009, 187 | \$147, 494, 335 | \$123, 510, 197 |
| Ratios to total investment | Percent | Percent | Percent | Percent |
| Preferred stock | 7.04 |  |  | 36.44 |
| Common stock | 49.23 | 30.49 | 38.91 | 58.08 |
| Surplus, including reserves | 10.42 | 39.46 | 25.87 | 10.08 |
| Total capital stock and surplus | 66.69 .13 | 69.95 3.39 | 64.78 | 104.60 6.70 |
| Stockholders' investment . | 66. 56 | 66.56 | 64.78 | 97.90 |
| Minority equities in subsidiaries -- Long-term debt, less discounts, ete | $\begin{array}{r} .02 \\ 33.42 \end{array}$ | 33. 44 | 35.22 | .01 2.09 |
| A verage total investment, 1938 | 100.00 | 100.00 | 100.00 | 100.00 |
|  |  | Wheeling Steel Corporation | Otis Steel Co. | Pittsburgh Steel Co. |
| A verage total investment, 1917 |  | \$24, 356, 275 | 2 \$12,585, 213 | \$26, 110, 535 |
| dos ro rotal mines |  | Percent | Percent | Percent |
| Preferred stock |  | 40.71 | 28.62 | 40.21 |
| Cornmon stock -...---- |  | 40.71 | 27.26 | 26.81 |
| Surplus, including reserves |  | 41.81 | 43.46 | 31.34 |
| Total capital stock and surplus |  | 123. 23 | 99.34 | 98.36 |
| Less intangibles. |  | 35.13 |  | 2. 93 |
| Stockholders' investment |  | 88.10 | 99.34 | 95.43 |
| Minority equities in subsidiaries |  |  |  | 95. |
| Long-term debt less discount, ete |  | 11.90 | . 66 | 4.57 |
| Average total investment, 1917 |  | 100.00 | ${ }^{2} 100.00$ | 100.00 |
| A verage total investment, 1938. |  | \$105, 501, 517 | \$34, 813, 722 | \$37, 258, 963 |
| Ratios to total inves |  | Percent |  |  |
| Preferred stock |  | 36.09 | P0. 14 | Persi. 04 |
| Common stock |  | 26.75 | 13.02 | 9.72 |
| Surplus, including reserves |  | 10.70 | 18.28 | 44.67 |
| Total capital stock and surplus |  | 73. 54 | 61.44 | 85.43 |
| Less intangibles.- |  | 3. 72 |  | . 31 |
| Stockholders' investment |  | 69.82 | 61.44 | 85.12 |
| Minority equities in subsidiaries |  |  |  |  |
| Long-term debt, less discounts, otc |  | 30.18 | 38.56 | 14.88 |
| Average total investment, 1938. |  | 100.00 | 100.00 | 100.00 |

[^47]Data are for year 1919, the first year for which data are available.

Table 4 shows that there were marked increases in the total investments of all companics, except United States Steel Corporation, since 1917, or the earliest subsequent year for which the information appears. The stecl corporations' average investment in 1938 of $\$ 1,557,164,621$, it will be noted, was slightly less than in 1917. On the other hand, the average total investment of $\$ 655,782,582$ for Bethlehem Stecl Corporation in 1938 was almost three tinies the investment in 1917. Most of the other companics also indicate considerable growth since 1917.

The table also shows the marked shifts in the sources of invested capital of the different companies between 1938 and the earlier years. In 1938. the ratio of the stockholders' investment to total capitalization, excluding intangibles, was greater than in 1917 for United States Steel Corporation, Bethlehem Steel Corporation, and American Rolling Mill Co. On the other hand, the proportions of the stockholders' investments in the other eight eompanies was much less in most cases in 1938 than for the earlier years. In other words, the three companies mentioned relied less on long-term debt as a souree of capital funds in 1938 as compared with 1917, while for the other eight companies the shift was in the other direction.

In 1938, the stockholders' investment, exclusive of intangibles, comprised 88 percent of the capitalization of United States Steel Corporation as compared with 61 percent of the total in 1917. For Bethlehem Steel Corporation, the stockholders' investment was 74 percent of its total investment in 1938 as compared with 56 percent in 1917, and for American Rolling Mill Company, the stockholders' investment in 1938 was 98 percent of its capitalization as compared with 87 percent in 1917.

## Comparative Annual Rates of Return for Individual Companies

A comparison of the average annual investments, profits, and rates of return for the period 1917-38 for individual companies was provided by table 3. Such information is presented in detail for each year during the period under review for each company, except United States Steel Corporation, in appendix tables 12 to 21-a. The information for the Steel Corporation is presented in the section of the report devoted to the investments, profits, and rates of return for that company and its subsidiaries.

The annual rates of return for the individual companies on the basis of the total investment, stockholders' investment, and common stockholders' equity appear in the following tables 5, 6, and 7. These tables also show the amulal return for all companies combined, the averages of the annual returns for the individual companies, and the average of the annual return for all of the companies combined.

The tables show that for all 11 companies combined, the average annual return was 6.59 percent on the total investment, 7.02 percent on the stockholders' investment, and 7.04 percent on the common stockholders' equity. It has already been pointed out that the returns for only 3 of the 11 companies exceeded these averages, namely those for United States Steel Corporation, National Steel Corporation, and Inland Steel Co.

For all companies the most profitable years were 1917 and 1918. The next most profitable years for most companies were 1920, 1929, and 1937. A number of the companies lost money in 1938 and the earnings of the others were only moderate. Losses during the depression years and small earnings during most of the subsequent years were such that the operating results since 1930 were on the whole very much less favorable than for the prior years shown in the tables. For example, on the basis of total investment, the average of the annual return for all companies was 9.87 percent during the years $1917-30$ and only 1.68 percent for the years 1931-38.
Table 5.-Rates of return on total investment for the principal steel companies, 1917-38


[^48]Data are not available prior to 1930
Data are not available prior to 1919
Table 6.-Rates of return on stockholders' investment for the principal steel companies, 1917-38

Data are not available prior to 1930 .
$\quad$ Rate of return for 18 months; on a mathematical ratio it would be 13.33 percent for 12 months.

- Denotes loss.
Table: 7.-Rates of return on common stockholders' equity for the principal steel companies, 1917-38


[^49]
## Comparison of Sales and Operating Results

Significant statistics on sales, ratios of costs to sales and distribution of profits will be presented to further describe the operations of the steel companies. Herctofore, the trends of net profits were expressed in rates of return on the total investment, stockholders' investment, and common stockholders' equity.

Table 8, immediately following, summarizes the net sales, net income, dividend payments, and net charge on surplus for each of the 11 companies and their subsidiaries. The upper part of the table gives the total for each item for all vears for which the information was avilable during the period 1917-38. The lower part of the table presents for each company the annual averages of their net sales, net income, dividend payments, and net income remaining after dividend payments. It should be noted that Federal income and profits taxes have been deducted in arriving at the net income shown on the table so that these amounts of net income differ from those used in computing rates of return by the amounts of such taxes.

The information in this table, together with the information in the succeeding tables of operating statistics, are based on the details appearing in appendixes 12 to 21 and $12-A$ to $21-A$, which summarize for each company except United States Steel Corporation the investments, and costs and profits for each year . during the period under review. Such information for the Steel Corporation appears in the section of the report dealing with the investments, profits, and rates of return for that company and its subsidiaries.

${ }_{2}{ }^{1}$ Net income after deductiug Federal inesme a.an profits taxes


- Other apt additions.
Data are for the perind from 1030 to 1038 . inclnsive.


Several of the steel companies paid dividends in excess of net income but not in excess of the net income and other additions to surplus during the entire period under review. For example, table 8 shows that Republic Steel Corporation had total net income of $\$ 45,842,492$ and distributed cash dividends amounting to $\$ 50,448,550$, but other additions to surplus amounted to $\$ 45,081,08 ?$, so that the net increase in the surplus account during the period was $\$ 40,475,031$. Other companies whose aggregate cash and stock dividends exceeded net income were American Rolling Mill Cu., Wheeling Steel Corporation, Otis Stee] Co., and Pittsburgh Steel Co. Four of the steel companies had smaller balances in their surplus at the end of 1938 than at the beginning of 1917. However, for two of these companies, namely, United States Steel Corporation and Bethlehem Steel Corporation, the decreases in surplus were not equal to the amounts transferred from surplus to capital stock through the issuance of stock dividends.

It will be noted that United States Steel Corporation is also dominant with regard to volume of business. During the 22 years, 1917-38, its total sales exceeded 26 billions of dollars, which was five times the total for the next largest company, Bethlehem Steel Corporation, During the period the Steel Corporation's net income amounted to $\$ 1,670,058,253$; and it paid dividends of $\$ 1,427,971,442$, of which it paid cash dividends on preferred stock of $\$ 554,832,894$, cash dividends on the common stock of $\$ 669,817,548$, and stock dividends on the common stock of $\$ 203,321,000$.

The following table 9 , gives the annual sales of each of the 11 companies and their subsidiaries during the years 1917-38, together with the combined sales of all companies on each year and the average of the annual sales for each company. The average of the annual sales ranged from $\$ 1,188,007,575$ for United States Steel Corporation to $\$ 21,712,069$ for Otis Steel Co.

The Steel Corporations' sales in 1917 amounted to 70 percent of the combined sales of the nine companies including that company for which the information was available for that year. By 1938, however, its proportion of the combined sales for the nine identical companies had declined to 49 percent.

The comparative profits of each of the 11 companies in relation to investments have been indicated. The relation of profits to sales is indicated in table 10, which follows. This table gives a comparison of the ratios of costs, expenses, and profits to net sales, expressed in cents per dollar of net sales, for each of the 11 companies for each of the years 1936, 1937, and 1938, and for the entire period 1917-38.
Table 9．－Consolidated net sales by the principal steel companies，1917－98

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| $$ |  <br>  <br>  <br>  |  |
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|  |  <br>  <br>  <br>  |  |
|  |  |  |

[^50] Data are not available prior to 1930 ．
Data are not available prior to 1919 ．
Net sales during an 18 months＇period from June 30，1918，to Dec．31，1920；total for 2212 years．
Table 10.-Ratios of costs, expenses, and profits ${ }^{1}$ to net sales, expressed in cents per dollar of net sales, for the principal steel companies for 1936,

| National Steel <br> Corporation |
| ---: |
| $\$ 123,074,149$ |
|  |
| Cents |
| 78.30 <br> 4.05 <br> 3.94 |
| 86.29 |
| 13.71 |
| 1.03 |
| 14.74 |




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 $\begin{array}{r}106.14 \\ \hline\end{array}$

| $\begin{aligned} & \text { Bethlehem } \\ & \text { Steel Corpora- } \\ & \text { tion } \end{aligned}$ | Republic Steel Corporation |
| :---: | :---: |
| \$287, 107, 706 | \$218, 317, 399 |
| Cents | Cents ${ }_{80}$ |
| 79.83 6.90 | 6. 04 |
| 5. 59 | 4.64 |
| 92. 32 | 91.58 |
| 7.68 | 8.42 |
|  |  |
| 8.03 | 8.29 |



|  |  |  | सip | $\stackrel{m}{\square}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |

\$140, 879, 763

103.14
Table 10.-Ratios of costs, expenses, and profits to net sales, expressed in cents per dollar of net sales, for the principal steel companies for 1996 ,

|  | United States <br> Steel Corporation | Bethlehem Steel Corpora- | Republic Steel Corporation | Jones \& Laughlin Steel Corporation | Youngstown Sheet \& Tube Co. | National Steel Corporation |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ratios to net sales-continucd | Cents | Cents | Cents | Cents | Cents | Cents |
| Net income from operations. Other income (net) | $\begin{array}{r} .28 \\ .73 \\ \hline \end{array}$ | 4. 35 | $\begin{array}{r}23.14 \\ .96 \\ \hline 2.15\end{array}$ | $\begin{array}{r} 26.14 \\ 1.21 \end{array}$ | $\begin{array}{r} 3.03 \\ \hline \end{array}$ | $\begin{array}{r}11.68 \\ .29 \\ \hline\end{array}$ |
| Total net profit ${ }^{1}$. | 45 | 4.87 | ${ }^{2} 2.15$ | ${ }^{2} 4.93$ | 3.36 | 11.97 |
| Net sales.-.-...........-.............................. | \$26, 136, 166, 672 | \$5, 581, 283, 309 | ${ }^{3} \$ 970,046,152$ | \$2, 010, 480, 461 | \$2, 181, 358, 232 | 4 \$ $8769,501,824$ |
| Ratios to net sales | Cents | Cents | Cents | Cents | Cents | Cents |
| Cost of goods sold, except items below | 79. 79 | 80.59 | 83.17 | 77. 36 | 80. 40 | 77. 90 |
| Distribution and administrative expenses Provision for depreciation and depletion.- | 6.28 4.35 | 5. 5.52 | 7.05 6.49 | 7. ${ }^{\text {7. }} 65$ | 2. <br> 68 <br> 8 | 4. 60 4.56 |
| Total operating expenses. | 90.42 | 91.48 | 96.71 | 90.12 | 89.38 | 87.06 |
| Npt, incợme from operations. ther income (net) | $\begin{aligned} & 9.58 \\ & 1.28 \end{aligned}$ | 8. 52 | 3.29 <br> 2.02 | 9.88 2.20 | 10.62 .16 | $\begin{array}{r}12.94 \\ \hline .85 \\ \hline\end{array}$ |
| Iotal net profit ${ }^{1}$. | 10.86 | 9.44 | ${ }^{3} 3.27$ | 12.08 | 10.78 | ${ }^{4} 13.79$ |
|  |  | $\begin{aligned} & \text { Inland Steel } \\ & \text { Co. } \end{aligned}$ | American Roll ing Mill Co. | Whteling Steel Corporation | Otis Stcel Co. | Pittsburgh Steel Co. |
| Net tales.......................................... 1936 |  | \$98, 903, 896 | \$101, 463, 383 | \$80, 598, 525 | \$28, 875, 577 | \$21, 352, 326 |
| ratios to net sales |  | Cenis | Cents | Cents | Cents | Cents |
| Cost ${ }^{\text {fi }}$ gouds sold, except itemus below... |  | 71.63 | 81.42 | 79. 79 | 81.41 |  |
| Distribution and administrative expenses |  | 6. <br> 5 <br> 18 | 8.87 288 | + $\begin{aligned} & 7.27 \\ & 6.14\end{aligned}$ | 3.07 3.53 | 8.14 5.96 |
| Total operating expenses.. | - --- -- | 83.20 | 92.57 | 93.20 | 88.01 | 99.91 |
| Net income from operations. Other income (net). |  | $\begin{array}{r} 16.80 \\ .19 \end{array}$ | $\begin{aligned} & 7.43 \\ & 2.04 \end{aligned}$ | $\begin{array}{r} 6.80 \\ .95 \end{array}$ | $\begin{array}{r} 11.99 \\ .13 \end{array}$ | $\begin{array}{r}.09 \\ .87 \\ \hline\end{array}$ |
| Total net profit ${ }^{\text {a }}$ |  | 16.99 | 9.47 | 7.75 | 12. 12 | 96 |


${ }^{1}$ Net profit before interest on long-term debt, and before deductions for Federal ineome and profit taxes.
${ }_{3}^{2}$ Denta applies to period from 1932 to 1938, inclusive
: Data applies to period from 1919 to 1938, inclusive

Table 10 shows that in the year 1937, when sales were larger than 1936 or 1938, the operating costs and expenses were smaller for each dollar of net sales than for the other 2 years. For instance, in 1938 the ratios of costs and expenses to net sales increased over those of 1937 by amounts ranging from 3.56 cents per dollar of net sales for Wheeling Steel Corporation to 15.03 cents per dollar of net sales for Otis Steel Co. The increase for United States Steel Corporation was 9.28 cents per dollar of net sales. This increase in relative costs when the sales volume declines is largely caused by nonvariable expenses that cannot be proportionately contracted as business decreases. Over the 22 -year period, or the portion thereof for which data are available for each company, the operating expenses ranged from 85.41 cents per dollar of net sales for• Inland Steel Co. to 96.71 cents per dollar of net sales for Republic Steel Corporation.

Throughout the period under review, the ratio of total net profit, before deduction of interest on long-term debt, or Federal income and profits taxes, ranged from 3.27 cents per dollar of net sales for Republic Steel Corporation to 15.40 cents per dollar of net sales for Inland Steel Co. It was 10.86 cents per dollar of net sales for United States Steel Corporation and 9.44 cents per dollar of net sales for Bethlehem Steel Corporation.

The table also shows that substantial provisions out of income have been made by the steel companies for depreciation and depletion. Throughout the period under review these provisions ranged from 3.57 cents per dollar of sales for Otis Steel Co. to 6.49 cents per dollar of sales for Republic Steel Corporation. For United States Steel Corporation they amounted to 4.35 cents per dollar of sales, and for Bethlehem Steel Corporation they amounted to 5.52 cents per dollar of sales. Large amounts have been provided annually for depletion, depreciation and obsolescence, which, according to the experience of the various companies, were deemed to be sufficient to equal, on the average, the gross book value of the property, less salvage, as and when such properties were to be withdrawn from service.

In general, the provisions for annual depreciation and obsolescence of steel plants and equipment are made on the straight-line method and are arrived at by applying against the investment cost of each facility a rate to provide for its depreciation and obsolescence based upon the life expectancy of the facility. The provisions for depletion of ore, coal, limestone, and other natural resource properties are generally arrived at by dividing the total estimated recoverable quantity in the respective properties in operation into the total investment cost of same. The annual provision is then determined by applying the resultant rate to the actual quantity of raw materials removed during the year.

The following tabulation shows that the depreciation and obsolescence reserves of the various companies, at December 31, 1938, ranged from 33 to 50 percent of the total recorded values of their respective properties:

| : | Dec. 31, 1938 |  |  |
| :---: | :---: | :---: | :---: |
|  | Property | Depreciation and depletion reserves | Percentage of reserves to property |
| United States Steel Corporation | \$2, 344, 316, 958 | \$1, 177, 797, 445 | 50.24 |
| Bethlehem Steel Corporation. | 758, 386, 677 | 305, 367, 631 | 40.40 |
| Republic Steel Corporation | $384,506,096$ | 145, 632, 568 | 37.88 |
| Jones \& Laughlin.------- | 251, 753, 555 | 94, 311, 256 | 37.46 |
| Youngstown Sheet \& Tube Co | 254, 353, 983 | 123, 672, 860 | 48. 62 |
| National Steel Corporation. | 213, 897, 076 | 70, 189, 566 | 32.81 |
| Inland Steel Co-.....-.-. | 165, 825, 925 | 60, 797, 700 | 35. 65 |
| American Rolling Mill Co | 123, 437, 777 | 44, 094, 549 | 35. 72 |
| Wheeling Steel Corporation | 124, 156, 073 | 52, 285, 296 | 42.11 |
| Otis Steel Co.-.-.-.--- | 42, 814,957 | 17, 161, 183 | 40.08 |
| Pittsburgh Steel Co | $45,352,084$ | 20, 162, 239 | 44. 46 |

With respect to the largest company in the industry, the question of obsolescence has been given very careful consideration. This is indicated by the fact that United States Steel Corporation, as far back as 1928, began an extensive survey of all of its operating properties, showing the age, condition, and adequacy of the facilities. The survey was carried forward by the company's engineers until 1935. Their findings were so extensive and involved expenditures of such magnitude that it was decided to employ outside opinion. To this end the firm of Ford, Bacon \& Davis, appraisal engineers, was employed to study all of the properties, methods, personnei, and markets. The extent of this firm's appraisal may be indicated by the fact that during the yoars 1935-38 they received over $\$ 3,000.000$ from the Steel Corporation for their services.

In connection with these studies the corporation also made capital expenditures during recent years of nearly $\$ 400,000,000$. It also expended nearly $\$ 500,000,000$ for repairs, maintenance, and extraordinary replacements, and provided more than $\$ 650,000,000$ for depreciation and depletion.

Attention is now directed to the relation of margins of profits on sales for the various companies with their returns on investment. This is indicated in the following tabulation which shows for each company, for the period 1917-38, its average total investment, sales, ratio of sales to investment, or capital turn-over, and the manner in which the average profits per dollar of sales is related, through the turn-over, to the average rates of return on investment.

The turn-over of eapital is indicated by the ratio of sales to investment and reflects the time required for the sales to equal the investment. The tabulation shows that the average turn-over for all companies combined, throughout the years under review, was 62 times. This means that on the average 19.5 months was required for the sales to equal the investment in order to produce one turnover of capital. This indicates the large amount of capital investment required in the steel business per dollar of sales and the slow moving nature of its products. As a result, margins of profits on sales are necessarily higher, in all instances, than the percentages of profits on investment.

Relation of margins of profit, through capital turn-over, to rates of return on investment for principal steel companies, 1917ะ38

| A verage 1017-38 | Total invest ment | Net sales | Rate of capital turn-over in terms of sales (times) | Profit on sales | Rite of return on investment |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Percent | Percent |
| United States Steel Corporation | \$1, 760, 820, 526 | \$1, 188, 007, 575 | 0. 67 | 10.86 | 7.33 |
| Bethlchem Steel Corporation.. | 528, 805, 568 | 253, 694,696 | . 48 | 9.44 | 4.53 |
| Republic Steel Corporation ${ }^{\text {d }}$ | 148, 335, 836 | 86. $72.5,821$ | . 58 | 6. 57 | 3.84 |
| Jones \& Laughlin Steel Corporation | 182,959, 802 | 91, 385, 476 | . 50 | 12.08 | 6.03 |
| Youngstown Sheet \& Tube Co | $165,650,756$ | $93,152,647$ | . 60 | 10.78 | 6.45 |
| National Steel Corporation? | 144,350, 340 | 85, 500, 203 | . 59 | 13.79 | 8.17 |
| Inland Steel Co.. | 80, 407, 561 | 53, 175, 448 | . 66 | 15. 40 | 10.18 |
| American Rolling Mill Co | 61,995, 249 | 45. 936, 457 | . 74 | 8.81 | 6.53 |
| Wheeling Steel Corporation | 84, 723, 458 | $59,95 f, 385$ | . 71 | 8.61 | 6.09 |
| Otis Steel Co. ${ }^{3}$ | 29, 650.862 | 21, 712,069 | . 73 | 5.71 | 4. 18 |
| Pittsburgh Steel Co | 39, 298, 408 | 25, 509, 155 | . 65 | 7. 58 | 4. 92 |
| Combined | 3, 226, 998, 366 | 2,010,765, 935 | . 62 | 10.58 | 6.59 |

[^51]
## Salaries and Other Compensation Paid to Officers and Directors ur Steel Companies

Data regarding the compensation-salaries and bonuses-paid to officers and directors of some of the prnicipal steel companies are presented to show the trends in recent years of the remuneration for their services. The amounts of compensation paid were obtained from reports submitted by the companies to the Securities and Exchange Commission for the years 1935 to 1938, inclusive, for United States Steel Corporation, Bethehem Steel Corporation, Republic Steel Corporation, Jones \& Laughlin Steel Corporatron, Youngstown Sheet \& Tube Co., National Steel Corporation, Inland Steel Co., the American Rolling Mill Co., Wheeling Steel Corporation, Otis Steel Co., and Pittsburgh Steel Co.

Table 11, which follows, shows the annual aggregate remuneration paid to all officers and directors and aggregate remuneration of the three highest paid officers and directors, of each company, during 1935 to 1938 , inciusive; it also shows the total number of officers and directors.

Table 11.- Aggregate remuneration, including salaries uni bonuses, paid 10 officers and directors of the principal steel companies, 1935-38

| C'ompany | Number of officers and directors | Aggregate remuneralion (salaries and komuses) |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { All officers } \\ & \text { and } \\ & \text { directors } \end{aligned}$ | 3 highest 11aid | $11]$ others |
| 1935 |  |  |  |  |
| United States Stcel Corporation | 28 | \$855, 61 4 | \$3x2, 353 | \$473, 26: |
| Bethlehem Steel Corporation. | 27 | 1,029, 495 | 473, 3:32 | 556,163 |
| Repunine Steel Corporation | 23 | 544, 189 | 275. 210 | 283, 21) |
| Jones \& Laughlin Steel Corporation | 1.5 | 399,350 | 135, 387 | 263. 763 |
| Yonngstown sheet \& Tube Cu | 24 | 318, 762 | 120, 4010 | 198,062 |
| National Step] Corporation. | 15 | 496, 379 | 430, 280 | 66, 099 |
| Inland Strel Co -..... | 18 | 479, 165 | [63, 986 | 315, 18.5 |
| The American Rolling Mil] Co | 19 | 432, 887 | 183, 765 | 249, 122 |
| W neeilng Steel Corporation. | 22 | 265, 620 | 140, 009 | 125.6:0 |
| Otis Steel Co... | 18 | 152, 448 | 111250 | 41, 198 |
| Pittsburgh Steel Co.. | 16 | 150.928 | 79, ¢3 $^{3} 4$ | 70, 394 |
| 1936 |  |  |  |  |
| United States Steel Corporation | 30 | 861,338 | 367, 922 | 493, $1 \pm 6$ |
| Bethlehem Steel Corporation... | 24 | 683, 413 | 4.50, 0100 | 533, 413 |
| Repmblie Steel Corporation | 20 | 697, 531 | 335, (k) | 272, 531 |
| Jones \& Laughlia Steel Cormoration. | 15 | 452, 679 | 187, 217 | 265, 162 |
| Youngstown Sheet \& Tube Co.. | 22 | 328. 752 | 122, 720 | 206, 032 |
| National Stecl Corporation. | 15 | 578, 865 | 160, 220 | 118, 64.5 |
| Inland Steel Co | 18 | 637. 469 | 177,400 | 460, 069 |
| The Anorican Rolling Mill Co | 21 | 524. 224 | 269, 346 | 254,876 |
| Wheeling Steel Corporation | 23 | 283, 790 | 140, 1500 | 143, 796 |
| Otis Steel Co...- ----.... | 17 | 176, 239 | 148, 300 | 28, 238 |
| Pittsburgh Steel Co | 19 | 116, 259 | 55, 880 | 60, 369 |
| 1937 |  |  |  |  |
| United States Steel Cormoration | 31 | 1,240,032 | 410, 457 | S29, 375 |
| Bethlehern Stcel Corporation. | 23 | 1,754,659 | 728,962 | 1, 025, 697 |
| Republie Steel Corporation | 20 | 649, 198 | 350, 000 | 299, 198 |
| Jones \& Laughlin Steel Corporation | 14 | 571,880 | 239, 333 | 333, 547 |
| Youngstown Sheet \& Tube Co | 22 | 410,917 | 180, 770 | $260, \times 47$ |
| National Steel Curporation. | 15 | 564, 075 | 474, 446 | 89, 629 |
| Inland Steel Co. .... | 18 | 668, 420 | 179, 500 | 488,920 |
| The Ameriean Rolling Mill Co | 20 | 576, 420 | 319, 411 | 256, 979 |
| Wheeling Steel Corporation | 23 | 266, 860 | 125, 000 | 139,860 |
| Otis Steel Co.. | 17 | 229, 877 | 190, 800 | 39,077 |
| Pittsburgh Steel Cơ- | 17 | 136, 725 | 71,980 | 64, 745 |
| 1938 |  |  |  |  |
| United States Steel Corporation | 25.5 | 1,019, 484 | 379, 897 | 639, 587 |
| Bethlehem Steel Corporation. | $2 \%$ | 1,676. 359 | 708, 308 | 968,051 |
| Republic steel Corporation. | 19 | 574, 549 | 320, 832 | 253, 717 |
| Jones \& Laughlin Steel Corporation | 12 | 361, 732 | 220, 833 | 140, 899 |
| Youngstown Sheet \& Tube Co.- | 22 | 436. 460 | 175, 166 | 261, 294 |
| National Steel Corporation. | 14 | 134, 803 | 362, 700 | 72, 103 |
| Inland Steel Co | 18 | 577. 309 | 160, 750 | 416,559 |
| The American Folling Mill Cu | 2) | 532. 506 | 298, 220 | 234, 283 |
| Wheeling Steel Corporation. | 21 | 241,940 | 109,999 | 131,941 |
| Otis Steel Co. | 16 | 144,879 | 118,800 | 26, 079 |
| Pittsburgh Steel Co. | 20 | 190, 502 | 96,003 | 94, 602 |

It was not possible from the records of the Securities and Exchange Commission to segregate the total compensation paid to officers and directors so as to show the compensation received by those who were both officers and directors and those who functioned as directors only. Therefore, in comparing the aggregate remuneration of all officers and directors of one company with another consideration should be given to the fact that some directors receive only a nominal compensation for part-time services. For this reason altogether valid comparisons cannot be made of the per officer and director compensation paid by the various companies shown in the table.

However table 11 shows that there were fewer officers and directors of Bethlehem Steel Corporation than of United States Steel Corparation but that in the aggregate they received more compensation. In 1938 United States streel Corporation had 25 officers and directors who received total compensation of $\$ 1,019,484$, while 22 officers and directors of Bethlehem Steel Corporation received comperisation aggregating $\$ 1,476,359$. During the same year the officers and directors of Republic Steel Corporation, Iones \& Laughlin Steel Corporation, Youngstown Sheet \& Tube Co., National Steel Corporation, Inland Steel Co., and the American Rolling Mill Co. received aggregate remuneration ranging from $\$ 361,732$ to \$577,309.
The aggregate remuneration of the three highest-paid officers and directors combined during 1938 ranged from $\$ 96,000$ for Pittsburgh Steel Co. to $\$ 708,308$ for Bethlehen Steel Corporation. The three highest-paid combined received $\$ 379,897$ from United Srates Steel Corporation, $\$ 362,700$ from National Steel Corporation, and $\$ 320,832$ from Republic Steel Corporation.

The highest-padd otficers of United States Steel Corporation did not receive as much cumpensation in 1938 as the highest-paid officer of some of the other steel companies. For example, the highest-pand officer of United States Steel Corporation in 1938 was William A. Irvin, vice chairman of the board of directors, who received $\$ 140,070$, and the next highest paid was Benjamin F. Fairless, president, who received $\$ 135,344$. There were five officers or directors of Bethlehem Steel Corporation each of whom received compensation rauging from $\$ 149,610$ to $\$ 378,698$, which larger amount was paid to Eugene G. Grise, president, in 1938. T. M. Girdler, president of Republic Steel Corporation, received $\$ 160,416$ in 1938, while George R. Fink, president of National Steel Corporation, recieved $\$ 150,400$, and Charles R. Hook, president of the American Roliing Mill Co., received $\$ 134,846$ in that year.

Tables 12 to 22, which follow, show the compensation, including salary and bonuses, pard to each of the higher-paid officers and directors of 11 of the principal steel companies. It will be noted that for some years no amounts of sompensation are shown for certain officers or directors. This did not necesisarily mean that they were no longer connerted with the corporation, but it indicates that those officers or directors were not among the 3 highest paid during the year.

Table 12.-Compensation of the 3 highest-paid officers and directors of United States steel Corporation, 1935-38

| Name | Position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Myron C. Taylor | Chairman of the board of directors. | \$166, 785 | \$166, 892 | \$167, 682 |  |
| William A. Irvin. | Director, and president 1935, 1936, and 1937; and vice chairman of the board of directors, 1938. | 124, 513 | 130, 310 | 141, 795 | \$140,070 |
| Benjamin F. Fairless_ | Director and presideut, 1937 and 1938. |  |  | 101,000 | 135, 344 |
| William J. Filbert. | Chairman, finance committee, and director. | 91, 055 |  |  |  |
| E. R. Stettinus, Jr.1- | do |  | 70, 750 |  |  |
| Enders M. Voorhees | do |  |  |  | 104, 483 |

[^52]Table 13.-Compensation of the highest-paid officers and directors of Bethlehem Steel Corporation, 1935-38

| Name | Position | 1935 | $1936$ | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cbaries M. Schwab ${ }^{1}$ | Chairman of the board of directors. | \$203, 332 | \$180, 000 | \$180, 000 | \$180, 000 |
| Eugene G. Grace ${ }^{12}$ | Director and president .-............ | 180, 000 | 180, 000 | 394, 586 | 378, 698 |
| Quincy Bent ${ }^{18}$ - | Director..... | 90,000 | 90, 000 | 154, 376 | 149, 610 |
| C. Austin Buck ${ }^{18}$ | ----do. | 90,000 | 90,000 | 154,376 | 149, 610 |
| Paul Mackall ${ }^{18}$ | do |  |  | 154, 376 | 149, 610 |

[^53]Table 14.-Compensation of the 3 highest-paid officers and directors of Republic Steel Corporation, 1935-38

| Name | Position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| T. M. Girdler | Cbairman of the board of directors and president. <br> Director, vice president, and general manager. <br> Director and vice president.- <br> Director and vice president in charge of finance. | $\begin{array}{r} \$ 140,779 \\ 69,769 \\ 64,692 \\ ---\cdots \end{array}$ | $\begin{array}{r} \$ 175,000 \\ 85,000 \end{array}$ | $\begin{array}{r} \$ 175,000 \\ 100,000 \end{array}$ | $\begin{array}{r} \$ 160,416 \\ 91,666 \end{array}$ |
| R. J. Wysor ${ }^{2}$ |  |  |  |  |  |
| B. F. Fairless |  |  |  |  |  |
| Myron A. Wick |  |  | 75,000 | 75,000 | 68,750 |

! Reslgned as president Apr. 17, 1937.
${ }^{2}$ Elected president Apr. 17, 1937.
Table 15.-Compensation of the highest-paid officers and directors of Jones \& Laughlin Steel Corporation, 1935-38

| Name | Position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| G. M. Laugblin, J | Chairman of the board of directors and member of executive committee. <br> President, director, and member of executive committee. <br> Vice president, director, and member of executive committee. do | \$49, 609 | \$66, 666 | \$75,000 | ${ }^{\text {2 }}$ \$86, 458 |
| S. E. Hacket ${ }^{2}$ |  | 49,609 |  |  |  |
| W. C. Moreland ${ }^{3}$ |  | 36, 369 |  |  |  |
| Frederick E. Fieger |  | 36,369 | 45, 552 |  |  |
| William D. Evans | Director, general counsel, and member of executive committee, <br> Vice president, director, and member of executive committee. <br> President, chairman of the board of directors, and member of executive committee. <br> Vice president, director, and member of executive committee. <br> Vice president and director. | 36, 369 | $\begin{aligned} & 45,552 \\ & 74,999 \end{aligned}$ |  |  |
| W. J. Creighton |  |  |  |  | 42, 361 |
| H. E. Lew is ${ }^{\text {d }}$ |  |  |  | 100,000 | 92,014 |
| William B. Todd ${ }^{6}$ |  |  |  | 63,333 |  |
| L. M. Parsons |  |  |  |  | 41,667 |

[^54]Table 16.-Compensation of the highest-paid officers and directors of Youngstown Sheet \& Tube Co., 1935-98


Table 17.-Compensation of the 8 highest-paid officers and directors of National Stcel Corporation, 1935-38

| Name | Position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ernest T . Weir ${ }^{1}$ | Chairman of the board of directors; also chairman of the board of directors, Weirton Steel Co., Great Lakes Steel Corporation, and Hanna Furnace Corporation (New York). <br> President and director; also president, Great Lakes Steel Corporation. <br> Vice president and director; also president, Weirton Steel Co., Weirton Coal Co., and Hanna Furnace Corporation (New York). President, Weirton Steel Co. and Weirton Coal Co. | \$160, 100 | \$200, 120 | \$200, 340 | \$147,900 |
|  |  |  |  |  |  |
|  |  | 160, 120 | 200, 100 | 200, 340 | 150,400 |
| John C. Williams ${ }^{3}$ - |  | 110,060 |  |  |  |
| Thomas E. Millsop 4 |  |  | 60,000 | 73,766 | 64,400 |

${ }^{1}$ Compensation for $1935,1936,1937$, and 1938 includes bonuses of $\$ 100,000, \$ 100,000, \$ 100,400$, and $\$ 47,500$. respectively.
${ }^{2}$ Compensation for $1935,1236,1937$, and 1938 includes bonuses of $\$ 100,000, \$ 100,000, \$ 100,000$, and $\$ 50,000$, respectively.
${ }^{3}$ Compensation for 1935 includes bonus of $\$ 50,000$. Mr. Williams died on June 1, 1936.
${ }^{4}$ Compensation for 1937 includes bonus of $\$ 30,000$. Elected director Weirton Steel Co., 1937.
Table 18.-Compensation of the highest-pand officers and directors of Inland Steel Co., 1935-88

| Name | Position | 1935 | 1936 | 19.7 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Leopold E. Block. | Director and chairnian of the board of directors. | \$60,000 | \$62, 500 | 362,500 | (56,250 |
| Philip D. Block | Director and president .-.-..-------- | 60, 000 | 62, 500 | 62,500 | 55, 250 |
| Wilfred Sykes | Director and assistant to president. | 43,980 | 52, 400 | 54, 500 | 48,250 |
| Edward M. Adams ${ }^{\text {² }}$ | Director and first vice president | 42,000 |  |  |  |
| Edward L. Reyerson, Jr..... | Director and vice chairman of the board of directors. |  |  | 54, 500 | 48,250 |
| J. H. Walsh | Work manager |  |  | 54,500 | 48,250 |

1 Deceased.
Table 19.-Compensation of the 3 highest-paid officers and directors of the American Rolling Mill Co., 1935-38

| Name | Position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| George M. Verity | Chairman of the board of directors <br> Director, president, and general manager. <br> Director, executive vice president, and assistant general manager. | \$69, 124 | \$69, 883 | \$74,937 | \$64,487 |
| Charles R. Hook ${ }^{1}$ |  | 65, 510 | 114, 692 | 141,060 | 134, 846 |
| Calvin Verity ${ }^{2}$ |  | 49,131 | 84, 771 | 103, 444 | 98,887 |

${ }^{1}$ Compensation for 1936,1937 , and 1938 includes bonuses of $\$ 39,817, \$ 60,775$, and $\$ 65,752$, respectively.
${ }^{2}$ Compensation for 1937 and 1938 includes bonuses of $\$ 44,568$ and $\$ 48,218$.

Table 20.-Compensation of the 3 highest-paid officers and directors of Wheeling Steel Corporation, 1935-38.


Table 21.-Compensation of the 3 highest-paid officers and directors of Otis Steel Co., 1935-38

| Name | Position | 1935 | 1936 | 1937 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| F. J. Kulas. | $\left\{\begin{array}{l} \text { President and director } \\ \text { President, Cuyahoga Valley Ry. } \\ \text { Co. } \end{array}\right.$ | $\begin{array}{r} \$ 42,650 \\ 3,600 \end{array}$ | $\begin{array}{r} \$ 61,400 \\ 3,600 \end{array}$ | $\begin{array}{r} \$ 81,400 \\ 3,600 \end{array}$ | $\begin{array}{r} \$ 46,400 \\ 3,600 \end{array}$ |
| ว. E. Motal.....-- | Vice president and general manager -- | $\begin{aligned} & 46,250 \\ & 48,000 \end{aligned}$ | $\begin{aligned} & 65,000 \\ & 55,000 \end{aligned}$ | $\begin{aligned} & 85,000 \\ & 71,000 \end{aligned}$ | $\begin{aligned} & 50,000 \\ & 48,000 \end{aligned}$ |
| F. B. Allen ${ }^{3}$ | $\left\{\begin{array}{l} \text { Vice president } \\ \text { Vice president, otis Steel Co. of } \\ \text { Canada, Ltd. }{ }^{1} \end{array}\right.$ | $\begin{array}{r} 16,700 \\ 300 \end{array}$ |  |  |  |
| Tutal |  | 17,000 |  |  |  |
| H. E. Robinson | $\left\{\begin{array}{l} \text { Vice president } \\ \text { Vice president, otis Steel Co. of } \\ \text { Canada, Ltd. } 1 \end{array}\right.$ |  | $\begin{array}{r} 27,550 \\ 450 \end{array}$ | $\begin{array}{r} 34,200 \\ 600 \end{array}$ | $\begin{array}{r} 20,200 \\ 600 \end{array}$ |
| Total. |  |  | 28,000 | 34,800 | 20,800 |

${ }^{1}$ Subsidiary company.
3 Served the company during entire year but served as such officer during only part of the year; said remuneration is that paid to him for full year 1935 as such employee and officer.

Table 22.--Compensation of the highest-paid officers and directors of Pittsburgh Steel C6., 1935-38

| Name | Position | 19351 | 19361 | 1937 | 19381 | $\underset{1938^{2}}{\boldsymbol{\operatorname { m o n t h n }},}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Homer D. Williams ${ }^{3}$ | President, director, and member | \$48, 304 | \$26, 250 |  |  |  |
| Emil Winter. | Vice president, director, and member of executive committee. | 16, 502 |  |  |  |  |
| Eenry A. Roemer | President, director, and member of executive committee. |  | 15,000 | \$36, 000 | \$36,000 | \$18,000 |
| William C. Sutherland ${ }^{\text {s }}$.- | Director and executive vice president in charge of operations. | 15,128 | 14, 640 | 15,980 | 20.000 |  |
| Charles E. Beeson | Director, vice president, treasurer, and member of executive committee. | 12,379 | 11,980 |  |  |  |
| Henry J. Miller-----.-.-.-- | Director, vice president, secretary and member of executive committee. | 12, 379 | 11,980 |  |  |  |
| Alexander E. Walker ${ }^{6}$. ...- | Director and executive vice presiident. |  |  | 20,000 | 40,000 | 20,000 |
| J. H. Carter ${ }^{8}$. | Director, vice president in charge of operations. |  |  |  | 16,000 | 15,000 |

[^55]
# INVESTMENTS, PROFITS, AND RATES OF RETURN FOR UNITED STATES STYEL CORPORATION 

## Introduction

The Tinited States Steel Corporation las dominated the steel industry since its formation in 1901 At that time, the corporation produced 43 percent of all pig iron, produced in United States, 65 percent of aill steel ingots and stcel castmgs, and 50 perrent of all kinds of finished rolled products The United States Steel Corporation contiaues to dominate the industry; it is approximately two and a half times as large in productive capacity as the next largest company, the Buthlehem Steel Corporation. However, the United States Steel Corporation has declined in relative importance in the industry; this in spite of the fact that the corporation has increased both its productive capacity and investments since 1901. The industry has grown at a more rapid pace. At the end of 1938 , the Steel Corporation produced 33 percent of all steel ingots and castings, and 29 percent of all kinds of finished rolled products.

For the period covered by this study the United States Steel Corporation of New Jersey controlled through stock ownership 259 subsidiary compames. Classified by groups as follows:






A few of the companies included in the above tabulation were inactive during the period under review.

The manufacturing companies were engaged principally in producing pig iron, ingots, castings, and rolled and finished steel productis for sale. In addition to the companies so engaged there was a number of other large closely related manufacturing concerns which buit bridges produced cement, ete., included ir the group.

The coal and coke, ore mining, and transportation companies were engagen chiefly in United States Steel Corporation activities mndicated by their respentive classifications.

The group of companies classified as "miscellaneous" includer real estate, utility merchandising and various other concerns engaged in activitics somewhat removed from those derectly connected with producing and disposing of iron and stecl products

A detailed aralysis was made of approximately 4 fi compames, which are not primarily ergaged in the procucion of arm and stat for sate in order to compare the results of the operations of such companies with those of the concerns more directly engazed in the produetion of iron and steel for salc

## Prontiemon Spamistis:

While income, investment, and rates of return are measures of the artirity and success of a business, such information presents only one phase of the history of a bnsuiess. The things which a business produces is of real importance in descritHe its business life iable 23 mmediately foliowing sceks to present such \& vecord. This intormation his been compiled from production data appearis is, the annual reports of the United States Steel Corporation The wide variations an the production of the varous products of the United States Steel Corporation sare apparent from this table. For example, the annual production of ore mined has followed a most erratic course. In 1917, some 31,781,000 tons of ore was inined. Mining of ore fell ofl steadıly the next few years, reaching a low in 1921 of $16.422,000$ tons. Production of ore recovered rapidly and by 1923, 31,015,000 tons was mined. For the next 6 vears, production fluctuated at levels somerrhat below that of 1923 without snowing any definite trend. The next period, 1929-38, 1.. characterized by a sharp, and precipitous decline to 1932 , when only $3,616,000$ tons of ore were mined as compared with $30,540,000$ tons in! 1929 Recovery from this low was rapid, though less so than the fall. By 1937 production regained the 1529 level with the mining of $30,428,000$ tons of ore. 1938 saw, however, the sharpest declue in ore production of the whole 22 -year period. Production of ore in 1938 was but slightly more than one-third that of the ore mined in 1937

As to be expected, production of steel ingots and castings, blast furnace production, and production of rolled and finished steel products for sale followed a course almost identical to that of ores mined, though the percentage variations in the production of ores mined was somewhat greater than in the case of the other stages of production.

Similarly, the production of coal and coke, since it enters so intimately in the manufacture of steel, follows with fairly close correlation the production of the products mentioned above. An inspection of the yearly totals reveals, however, that the changes from year to year, for the most part, have been less violent than in the case of ores mined.

Table 23.-Summary of production of raw, semifnished and finished products of United States Steel Corporation 1928-38, inclusive

| Products | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ores mined (tons) | 10, 984, 471 | 30, 428, 301 | 19, 023, 059 | 11, 437, 501 | 10,074, 431 | 8,345, 767 | 3, 616,319 | 13, 600, 716 |
| Limestone quarried (tons) |  |  |  |  |  |  |  |  |
| Coal mined (tons) | $6,980,314$ $13,841,727$ | 13, 121, 4981 | 23, 581, 476 | 15,094, 540 | $6,043,323$ $11,72 A, 183$ | $5,410,752$ $10,227,230$ | 3, 203, 029 | 7, 673, 718 <br> $15,779,298$ |
| Coke manufactured (tons) | 7,005,696 | 14, 189, 725 | 12, 034, 398 | 7, 328, 083 | 5, 382, 345 | 4, 879, 785 | 2,966, 483 | 7, 040, 832 |
| Blast furnace production (tons) | 6, 814, 252 | 14, 438, 549 | 12, 054, 347 | 7, 417, 088 | 5, 512, 805 | 5, 025, 209 | 3, 122, 930 | 7,021,507 |
| Steel lngots and castings (tons) | 9,397, 371 | 18, 532, 278 | 16, 907, 996 | 11,130,942 | 8,660, 309 | 8,046,995 | 4, 920, 236 | 10, 082,398 |
| Rolled and finished steel products for sale (tons) | 6,562,948 | 12, 762, 267 | 11, 029, 616 | 7, 474, 213 | 6,004, 585 | 5, 536,322 | 2, 591, 474 | 7,196,017 |
| Other (tons) | 413, 085 | 616,378 | 544,025 | 391, 221 | 372,812 | 285, 771 | 1 157, 341 | 377, 699 |
|  | 10,695,500 | 12 | 12, 113, 649 | 8.184, 463 | 7, 260, 650 | , | 7, 113,300 | 15,050,996 |
| Products |  | 1930 | 1929 | 1928 | 1927 | 025 | 1925 | 924 |
| Ores mined (tons) <br> Limestone quarried (tons) <br> Coal mined (tons) <br> Coke manufactured (tons) <br> Blast-furnace production (tons) <br> Steel ingots and castings (tons). <br> Rolled and finished steel prod- <br> ucts for sale (tons) <br> Other (tons). $\qquad$ <br> Portland cement (barrels) |  | 24, 295, 103 | 30, 540, 565 | 26,633, 554 | 25, 645, 327 | 29, 262, 741 | 27, 996, 845 | 24, 744, 541 |
|  |  | 14, 611,927 | 14, 733,412 | 14, 600, 181 | 4, 656, 150 | 5. 513, 739 | 5, 344, 893 | 5, 033, 889 |
|  |  | $25,388,265$ | 31, 826, 634 | 28, 691, 024 | 27, 430, 329 3 | 34, 294, 657 | 31, 475, 568 | 27, 738, 007 |
|  |  | 13, 113, 382 | 17, 355, 036 | 15, 993, 373 | 14, 506, 980 | 17, 336, 334 | 16, 301, 224 | 14, 408, 041 |
|  |  | 12, 758, 333 | 16, 484, 985 | 15, 237, 717 | 13, 784, 226 | 15. 705,301 | 14, 798, 999 | 12, 683, 729 |
|  |  | 16, 726, 472 | $21,868,816$ | 20, 105, 749 | $18.486,444$ | 20.306, 663 | 18, 898, $39 ?$ | , 478,857 |
|  |  |  | 15, 302, 669 | 13, 972, 388 | 12, 879,232 | 14, 334, 412 | 13, 271, 010 | 11.722,908 |
|  |  | 651,099 | 611,600 | 595, 653 | 484, 719 | 490, 724 | 452, 3 \% | 11.396,560 |
|  |  | 24, 294, 154 | 11, 549, 000 | $11,957,000$ | $15,42 \mathrm{~s}, 000$ | 14, 526, 000 | $15,722,000$ | 15, 156,000 |
| Products |  | 1923 | 1922 | 1921 | 1920 | 1919 | 1918 | 1917 |
| Ores mined (tons) |  | 31, 015, 109 | 21, 778, 179 | 16, 422, 682 | 27,021,009 2 | 25, 423, 093 | 28, 332, 939 | 11, 781, 768 |
| Limestone quarried |  | 6, 571, 486 | 5, 633, 186 | 4, 607, 486 | 5, 981, 022 | 5, 835, 239 | 5, 141, 365 | 6, 494, 917 |
| Corl mined (tons) |  | $35,288,901$ | 23, 293, 471 | 21, 627, 93913 | 30, 328, 334 | $28,893,123$ | 31, 748, 135 | 31, 496, 823 |
| Coke manufactured (tons) ...... 18 |  | 18, 837,631 | 13, 237, 058 | 9, 825, 264 | 16, 208, 1111 | $15,463,84911$ | 17, 757, 336 | 17, 461,675 |
| Blast-furnace production (tons) |  | 16, 729, 226 | 12, 027, 183 | 8, 678, 262 | $14,532,546$ | 13, 637, 504 | 15, 940, 954 | $15,653,928$ |
| Steel ingots and castings (tons). |  | 20, 329,950 | 16, 082, 385 | 10,966, 347 | 19, 277, 960 | $17,200,373$ | 19, 583, 493 | 20, 285, 061 |
| Rolled and finisbed steel products for sale (tons) |  | 14, 721, 489 | 11, 785, 331 | 7, 860, 334 | 14, 228, 502 | 11, 997, 935 | 13,849. 483 | 14, 942,911 |
|  |  | 411,872 | 355, 027 | 306, 923 | 378, 351 | 105, 596 | 96,058 | 122, 934 |
| Portland cement (barrels) |  | 14, 440, 000 | 13, 168, 000 | 12,499, 000 | 11,960,000 | 9,112,000 | 7, 287, 000 | 10,917,000 |

Because of the importance of rolled and finished steel products to the United States Steel Corporation, an analysis of such production by the steel-producing and fabricating subsidiaries for the years 1917-38 is set forth in table 24 . While the table furnishes a measure of the relative size of the various steel-producing units of the United States Steel Corporation, it should be pointed out that certain of the units such as Carnegie Steel Co. and the Illinois Steel Co. and their successor, the Carnegic-1llinois Steel Corporation, devote a substantial proportion of their productive capacity to the production of basic steel products which require further processing by other units in the group. The tons produced for further conversion within the United States Steel Corporation by the companies listed in table 24 are not included in this table nor in table 23.

Table 24.-Summary of production of rolled and finished steel products for sale for the steel-producing and fabricating subsidiaries of the United States Steel Corporation, 1917-3S, inclusive

${ }^{1}$ Includes production of American Sheet \& Tin Plate Co. and Illinois Steel Co.

An excellent measure of growth in the steel industry is the capacity to produce steel and steel products. The following tabulation compares the capacities of the United States Steel Corporation and the steel industry to produce steel ingots and castings from 1917 to 1939, inclusive:

Comparison of the capacities of the United States Steel Corporation and the steel industry in the production of steel ingots and castings, 1917-39

| Year ${ }^{1}$ | Total for industry? | U. S. Stcel Corporation | Percentage of corporation to total | Year ${ }^{1}$ | Total for industry ${ }^{2}$ | U. S. Steel Corporation | Percentage of corporation to total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tons | Tons |  |  | Tons | Tons |  |
| 1917 | 49, 613, 888 | 22, 009, 300 | 44.4 | 1923 | 63, 784, 389 | 24, 150,000 | 37.9 |
| 1918 | 52, 541, 445 | 22, 163, 000 | 42.2 | 1930 | 65, 165, 541 | 25,085, 000 | 38.5 |
| 1919 | 54, 482, 740 | 22, 295, 500 | 40.9 | 1931 | 68, 980, 181 | 25, 997, 000 | 37.7 |
| 1920 | 55, 637, 135 | 22, 303, 300 | 40.1 | 1932 | 70, 340, 101 | 27, 766, 300 | 39.5 |
| 1921 | 57, 376, 810 | 22, 649, 800 | 39.5 | 1933 | 70, 191, 431 | 27, 341, 900 | 40.0 |
| 1922 | 58, 416, 680 | 22,650, 200 | 38.8 | 1934. | 69, 755, 371 | 27, 341, 900 | 39.2 |
| 1923 | 58, 644, 655 | 22, 740, 000 | 38.8 | 1935- | 70, 046, 366 | 27, 341, 900 | 39.0 |
| 1924 | 59, 431, 710 | 22, 758, 400 | 38.3 | 1936 | 69,789, 554 | 26, 657, 000 | 38.2 |
| 1925 | 61, 136, 805 | 23,067, 700 | 37.7 | 1937 | 69, 775, 334 | 25, 772, 400 | 36.9 |
| 1926 | 57, 812, 531 | 22,692, 000 | 39.3 | 1938 | 71, 594, 320 | 25, 790, 000 | 36.0 |
| 1927 | $60,032,217$ | 23, 119, 800 | 38.5 | 1939 | 73,061, 569 | 28, 885, 000 | 39.5 |
| 1928 | 61, 465, 100 | 23,713,000 | 38.6 |  |  |  |  |

${ }^{1}$ Totals as of January 1.
${ }^{2}$ From Annual Reports of the American Iron and Stecl 1nstitute (Summary of Prorluction of Iron and Steel Products), 191;-39.

In 1917 the capacity of the corporation amounted to 44.4 percent of the total capacity for the industry. In terms of tonnage in 1917 the corporation had a rated capacity of $22,009,300$ tons of steel ingots and castings as compared with a capacity for the industry of $49,613,888$ tons. In 1939 the industry had a capacity of $73,061,569$ tons, while the corporation had a capacity of $28,885,000$ tons, or 39.5 percent of the total. In other words, while the corporation increased its capacity during the period $6,875,700$ tons, the capacity of the industry increased $23,447,681$ tons. The decrease of approximately 5 percent in the corporation's participation in total capacity as the result of the more rapid increases in the capacity of the industry, represents a fairly gradual decline. This trend was interrupted when the corporation made slight recoveries to its former position. In 1926 the corporation's percent of participation increased to 39.3, a gain of 1.6 percent over the previous year. Again, in 1933, the corporation possessed 40.0 percent of total capacity, a gain of 2.3 percent over the preceding 2 years. Finally in 1939 the corporation's percentage of total capacity jumped 3.5 percent over the preceding year.

The following table 25 compares the capacities of the United States Steel Corporation and.its steel subsidiaries in 1917 with its capacities in 1939.. Since the relative loss of the corporation's participation in the production of steel has been gradual, without violent changes, it is perhaps unnecessary to account-for the changes in capacities in the years intervening between 1917 and 1939. This table also shows the capacities of the subsidiaries for rolled and $\rho$ ther iron and steel products. It will be noted that the total capacity of the corporation for the production of these products increased from $44,302,600$ tons in 1917 to $55,818,025$ tons in 1939. Most of this increase represents capacity for the conversion of steel within the corporation. The classification of rolled and other iron and steel products comprises several stages in the production of steel. This explains why with an increase in the capacity of these products of $11,515,425$ tons, the capacity in the production of such products for sale to interests outside the corporation increased only $3,675,210$ tons. In other words, an increasing amount of semifinished stcel produced by the corporation was further processed by it into finished products.

Table 25.-Comparison of capacities of United States Steel Corporation and its steel-producing and stcel-fabricating subsidiaries in 1917 and 1939


${ }^{1}$ In 1917 these divisions of Carnegie-Illinois were completely separate companies. In 1935 Carnegie Stecl Co. and Illinois Steel Co. were merged to form the Carnegie-Illinois Steel Corporation. In 1936 the American Sheet \& Tin Plate Co. was added.

Investments, Profits, and Rates of Return for United States Steel
The following table summarizes the investments, profits, and rates of return for United States Steel Corporation and subsidiaries on a consolidated basis, for the period 1917 to 1938, inclusive.

Rates of return are computed on three bases of investments, namely the total investment, the stockholders' investment, the common stockholder's equity. The total investment includes preferred and common stocks, long-term debt, surplus, surplus reserves, and reserves for Federal income and profits taxes. The stockholders' investment includes all of these items except long-term debt. The common stockholders' equity consists of the outstanding common stocks, surplus, surplus reserves, and reserves for Federal income and profits taxes. On each basis the investments were averaged as of the beginning and end of the year after the elimination of appreciation and other intangibles.
The profits used in computing rates of return in the table are before deductions for Federal income and profits taxes, since such taxes are wholly contingent upon profits and represent a division of the earnings of the business. Subject to this qualification, the profits applicable to the total investment represent the net income from all sources before deducting interest on long=term debt. The profits applicable to the stockholders' investment represent the net income after deducting interest on long-term debt. The further deduction of dividends paid or accrued on preferred stock gives the net income applicable to the common stockholders' equity.
Table 26.-Summary of investments, profits, and rates of return for United States Steel Corporation and subsidiaries, 1917-38

|  | Total | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Capital stock, common |  | \$652, 743, 900 | \$870, 325, 200 | \$870, 325, 200 | \$870, 325, 200 | \$870, 325, 200 | \$870, 325, 200 | $\$ 870,325,200$ |
| 2. Capital stock, preferred |  | 360, 281, 100 |  |  |  | $360,281,100$ |  | $\begin{aligned} & 360,281,100 \\ & 270,000,000 \end{aligned}$ |
| 4. Surplus, capital. |  | 38, 462, 801 | 81, 250,021 | 81, 250, 021 | 81, 250,021 | 81, 250,021 | 81, 250, 021 | 81, 250, 021 |
| 5. Surplus, earned |  | 247, 419,013 | 280, 356, 143 | 252, 660, 717 | 252, 516, 714 | 258, 575, 628 | 287, 330, 507 | 329, 100, 248 |
| 6. Reserves, contingency |  | 31, 949, 585 | 32, 476, 784 | 28, 074,449 | 23, 444, 809 | 19, 630, 598 | 18, 398,749 | 34, 688, 520 |
| 7. Reserves-Federal income and profits |  | 9,547, 713 | 34, 534,486 | 15, 246, 244 | 8, 715, 160 | 6,733, 638 | 4, 225, 818 |  |
| 8. Capital stock and sur |  | 1,340, 404, 112 | $\begin{array}{r} 1,659,223,734 \\ 249,583,149 \end{array}$ | $\begin{array}{r} 1,607,837,731 \\ 249,583,149 \end{array}$ | $\begin{array}{r} 1,596,533,004 \\ 249,583,149 \end{array}$ | $\begin{array}{r} 1,866,796,185 \\ 249,583,149 \end{array}$ | $\begin{array}{r} 1,891,811,395 \\ 249,583,149 \end{array}$ | $\begin{array}{r} 1,949,944,328 \\ 249,583,149 \end{array}$ |
| 10. Stockbolders' |  | 1,340, 404, 111 | 1,409, 640, 585 | 1,368, 254, 582 | 1,346,949, 855 | 1,617, 213, 036 | 1,642, 228, 246 | , 700, 361, 179 |
| 11. Long-term debt |  | 231, 574, 257 | 107, 489, 624 | 98, 251, 474 | 93, 551,890 | 95, 663, 689 | 93, 179, 823 | 95, 950, 255 |
| 12. Purchase money obligatio |  | 12, 138, 082 | 13, 082, 583 | 14, 036, 195 | 15, 025, 700 | 16, 017, 541 | 17,010, 259 | 18, 783, 722 |
| 13. Total investment |  | 1,584, 116, 450 | 1,530, 212, 792 | 1,470, 542, 251 | 1,455, 527, 445 | 1,728, 894, 266 | 1, 752, 418, 328 | 1,815, 095, 156 |
| 14. A verage of total investment | \$1,760, 820,526 | 1,557, 164, 621 | 1, 500, 377, 521 | 1,463, 034, 848 | 1,592, 210, 855 | 1,740, 656, 297 | 1,783, 756, 742 | 1, $867,262,334$ |
| 15. Average of stockholders' investment | 1,388, 291, 593 | 1,375, 022, 348 | 1,383, 947, 583 | 1, 352, 602, 218 | 1, 482, 081, 445 | 1,629, 720,641 | 1,671, 294, 712 | 1,750, 559, 838 |
| 16. Average of common stockholders' investment | 1, 028, 010, 853 | 1,014,741, 248 | 1, 023, 666, 483 | 992, 321, 118 | 1, 121, 800, 345 | 1, 269, 439, 541 | 1,311, 013, 612 | 1,390, 278, 738 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |
| 17. Applicable to total investment_ | 129,020, 924 | 3, 474, 874 | 129, 585, 445 | 66, 701, 788 | 10, 031, 488 | ${ }^{1} 14,016,728$ | ${ }^{1} 31,250,345$ | 65, 795, 143 |
| 18. Applicable to stockholders' investment. | $110,663,394$ | 1 4,787, 453 | 124, 444, 357 | 61,783, 357 | 5,071,708 | ${ }^{1} 19,067,780$ | ${ }^{1} 36,414,798$ | 71, 108, 604 |
| 19. Applicable to common stockholders' equity -- | 85, 443, 717 | ${ }^{1} 30,007,130$ | 99, 224, 680 | 36, 563, 680 | ${ }^{1}$ 20, 147,969 | 1 44, 287, 457 | ${ }^{1} 61,634,475$ | 96, 328,281 |
| Rate of return on total investment ( $17 \div 14$ ) .-percent.- | 7.33 | 0.22 | 8.64 | 4.56 | 0. 63 | 0.81 | ${ }^{1} 1.75$ |  |
| ate of return on stockholders' investment $1(8 \div 15)$ percent | 7.97 | 1. 35 | 8.99 | 4.57 | 34 | 11.17 | 12.18 | 14.06 |
| Rate of return on common stockholders' equity ( $19 \div 16$ ): percent | 8.31 | 12.96 | 9.69 | 3. 68 | 11.80 | 13.49 | 4.70 | 16.93 |




## ${ }^{1}$ Losses

Table 26 shows that rates of return based on the total investments, stockholders' investment, and common stockholders' equity were $30.94,47.58$, and 71.28 percent, respectively, for 1917. Rates of return were approximately onethird less for 1918 applicable to all classes of investment. The rates of return declined to $9.28,11.50$, and 13.46 percent, respectively, for 1919. Rates of return remained approximately the same for 1920 and then declined to 4.39, 4.13, and 2.84 percent, respectively, for 1921 . The three classes of rates of return remained approximately the same for 1922, but there was a substantial increase in rates of return in 1923. Returns on all classes of investment continued at a high level thereafter through 1930. During the period 1923-30 rates of return were highest in 1929 and lowest in 1930. In 1929, earnings were equivalent to 12.18 percent on the total investment, 13.57 percent on the stockholders' investment, and 15.45 percent on the common stockholders' investment; in 1930 they were equivalent to 6.16 percent on the total investment, 6.29 percent on the stockholders' investment, and 6.11 percent on the common stockholders' equity.

Losses during the depression years and the moderate earnings in most of the other years were such that the results of operations since 1930 were decidedly less favorable on the whole than for the earlier years. This is evident from the following tabulation of rates of return for the two periods:

Rates of Return

|  | 1917-1930 | 1931-1938 |
| :---: | :---: | :---: |
| On total investment | Percent 10.77 | Percent 0.87 |
| On stockholders' investment | 13.08 |  |
| On jcommon stockholders' equity | 15. 43 | 11.34 |

1 Loss.
Rates of return were lowest in 1932 where losses were sustained on each basis of investment. For the following 5 years there was gradual recovery and in 1937 the returns were higher than for any year since 1929. In 1938 however, the trend was sharply reversed, the decline being greater than for any year since 1921.

The following chart 1, indicates graphically the trend in rates of return on each basis of investment from 1917-38.

Table 26 shows that the total investment increased from $\$ 1,770,265,768$ in 1917 to $\$ 1,994,662,712$ in 1930 , when it began a steady decline reaching $\$ 1,455,527,445$ at the close of 1935, largely resulting from unprofitable operations, caused by unfavorable business conditions during this latter period. Following 1935 there was a steady increase in total investment to $\$ 1,584,116,450$ as at December 31, 1938.

As shown elsewhere in this report intangible values included in the assets of the United States Steel Corporation, amounting to $\$ 529,866,362.10$ as at the beginning of 1917 were gradually written down to the end of 1937 , when a balance of $\$ 249,583,148.86$ remained. All of this later amount was written off in 1938 with the exception of $\$ 1$. By reference to the table above referred to it may be noted that the intangible value was deducted in determining the total investment. Other details of the changes in total investment follow.


## Common Stock

Common stock as at December 31, 1916, amounted to $\$ 508,302,500$ and increased to $\$ 652,743,900$ as at December 31, 1938. This net increase of $\$ 144,441,400$ resulted from the issuance of $3,620,227$ shares of the par value of $\$ 100$ per share, and the reduction of the par value of the common stock by $\$ 217,581,300$ in 1938, when the stock was changed from a par value of $\$ 100$ to a stated value of $\$ 75$ per share.

The common stock, issued during the period 1917 to 1938 , inclusive, was for the consideration set forth in the following tabulation:

Common stock issued by United States Steel Corporation and consideration therefor, 1917-38

| Year issued | Par value | Consideration |  |  | Reduction from par to stated value |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Cash | Property | Stock dividend |  |
| 1917-26. | (1) |  |  |  |  |
| 1927 | \$203, 321, 000 |  |  | \$203, 321, 000 | ------------- |
| 1929 | 101, 660,500 | 2\$142, 697, 625 |  |  |  |
| 1930. | ${ }^{3} 55,459,500$ | 4 8 8 2 | 5 \$91, 570, 335 |  |  |
| 1938. | ${ }^{2}$ 217,581, 300 | -2, 653, 889 |  |  | \$217, 581, 300 |
| Total. |  | 148, 381, 387 | 91, 570, 335 | 203, 321, 000 | 217, 581, 300 |
| Less premium credited to capital surplus |  | 43, 323, 487 | 37,926, 535 |  |  |
| Net increase | 144, 441, 400 | 105, 057, 900 | 53, 643, 800 | 203, 321,000 | 217, 581, 300 |

${ }_{1}$ None issued.
${ }^{2}$ Includes $\$ 41,037,125$ premium.
${ }^{3}$ Includes $\$ 1,815,700$ par of stock sold to employees.
Includes $\$ 1,214,172$.
${ }^{5}$ Includes $\$ 37,926,535$ premium.
6 Includes $\$ 1,072,189$ premium.
7 Denotes deduction.
The tabulation shows that there was a net increase in outstanding common stock of $\$ 144,441,400$ during the years 1917-38. This increase, together with $\$ 508,302,500$ of outstanding common at December 31, 1916, accounts for $\$ 652,743,900$ of outstanding common stock at December 31, 1938, without par value, represented by $8,703,252$ shares of the stated value of $\$ 75$ per share.
The property acquired for stock issued in 1930 consisted of the assets and business of Atlas Portland Cement Co., Columbia Steel Corporation, and Oil Well Supply Co. In consideration therefor, United States Steel Corporation issued 536,438 shares of its common stock of the par value of $\$ 100$ per share, of which 176,265 shares were issued for the assets of Atlas Portland Cement Co., 251,771 shares were issued for the assets of Columbia Steel Corporation, and 108,402 shares were issued for the assets of Oil Well Supply Co. The cash value of the assets acquired were stated to be $\$ 91,570,335$ and reflected the market value of the soock issued at the time of purchase. The difference between this amount and the par value of the United Staces.Steel Corporation's stock issued therefor was credited to capital surplus.

The stock issued in fayment of dividends amounting to $\$ 203,321,000$ in 1927 represented a 40 percent stock dividend from undivided surplus.

As previously explained, the common stock of United States Steel Corporation was changed from shares of the par value of $\$ 100$ to shares without par value. This resulted in a reduction of the value of $8,703,252$ outstanding shares from $\$ 870,325,200$ to $\$ 652,743,900$ in 1938 . This reduction - of $\$ 217,581,300$ was (charged to the capital stock account and credited to the capital surplus account.

## Preferred Stock

The United States Steel Corporation has autnorized the issuance of but one class of preferred stock, namely: $4,000,000$ shares of 7 percent cumulative preferred. This stock with a par value of $\$ 100$ per share has equal voting power with the common stock. In addition it has preference as to any assets and dividends, being entitled in any liquidation to $\$ 100$ per slare and accrued dividends.

The records of this company show that there have been issued and outstanding during the entire period covered by this report $3,602,811$ shares, with a par value of $\$ 360,281,100$.

## Appropriated Surplus

The balance in the appropriated surplus account as at December 31, 1916, amounted to $\$ 55,000,000$ to which amount additions were made from earned surplus to cover capital expenditures, as follows:

|  | $\begin{gathered} \text { Balance } \\ \text { Jan. } 1 \end{gathered}$ | Net additicns during year | Balance <br> Dec. 31 |  | Bałance <br> Jan. 1 | Net additions during year | Balance Dec. 31 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1917 | \$55, 000, 000 | \$55, 000, 000 | \$110, 000.000 | 1924 | \$180, 898, 914 | \$20,000,000 | \$200, 898, 914 |
| 1918 | 110,000, 000 | 898,914 | 110,898, 914 | 1925 | 200, 893, 914 | 39, 101, 086 | 240, 000, 000 |
| 1919. | 110, 898, 914 |  | 110, 898, 914 | 1926 | 240, 000, 000 | 30,000, 000 | 270, 000, 000 |
| 1920...----- | 110, 898, 914 | 30,000,000 | 140, 898, 914 | 1927-34 | (1) | ( 1$)$ | (1) |
| $1921 \text { and } 1922$ | (1) $140,898,914$ | 40,000, 000 | (1) ${ }_{\text {(1) }}$ | 1935. | ${ }^{2} 270,000,000$ |  |  |

${ }^{1}$ No change.
${ }^{2}$ In 1935 the balance in the appropriated surplus of $\$ 270,000, n 00$ was transferred to depriciation resr rves. This was the result of a detailed and extensive survey by the corporation of its depreciable property which revealed that depreciation reserves were inadequate by this amount.

## Capltal Surplus

At December 31, 1938, the amount of capital surplus recorded on the company's books was $\$ 38,462,801$. The additions and deductions accounting for this balance in this 2 oount are as follows:

ADDITIONS
Difference between proceeds and par value of $1,016,605$ shares of common stock of the par value of $\$ 100$ per share issued for cash in 1929
\$41, 037, 125
Difference between proceeds and par value of 18,157 shares of common stock issued for cash in 1930

1, 214, 172
Excess of cash value of assets of Atlas Portland Cement Co., Columbia Steel Corporation, and Oil Well Supply Co. over par value of 536,438 shares of common stock issued therefor in 1930 .
Difference between proceeds and par value of 15,817 shares of

Surplus arising from reduction in 1938 of the value of $8,703,252$ shares of outstanding common stock from shares of the par value of $\$ 100$ each to shares without par value, but to which a stated value of $\$ 75$ per share was assigned

217, 581, 300
Total
298, 831, 231

## DEDUCTIONS

Amount applied in 1938 to the reduction of appreciation and other intangibles

260, 368, 520


## Earned Surplus

Earned surplus decreased from $\$ 356,360,913$ at December 31, 1916, to $\$ 247,-$ 419,013 at December 31, 1938, as follows:

| Balance Dec. 31, 1916 Net income (1917-38) | $\begin{array}{r} \$ 356,360,913 \\ 1,670,058,253 \end{array}$ |
| :---: | :---: |
| Total | 2, 026, 419, 166 |
| Acquisition of assets and securities of other companies | 12, 876, 706 |
| Reversal of reserves no longer required. | 97, 098, 546 |
| Refund of prior years, Federal income and profits tax | 90, 780, 939 |
| Refund of railroad recapture payments. | 6, 355, 750 |
| Total | 3, 233, 531, 107 |

Less dividends:
Common stock:
Cash ..... \$669, 817, 548

Preferred cash ..... 554, 832, 894
Total ..... 1, 427, 971, 442
Transfers to:
Depreciation reserves ..... 60, 427, 303
Appropriated surplus ..... 211, 669, 422
Amortization of intangibles ..... 236, 269, 067
Premiums paid on bonds retired ..... 40, 841, 224
8, 933, 636

Balance, Dec. 31, 1938
247, 419, 013

## Contingency and Federal Income and Profits Tax Reserves

The balance in the reserves to provide for general contingencies, accident, and hospital expenditures, extraordinary expenses in specified operations, and for special purposes amounted to $\$ 31,949,585$ at the end of 1938 . The balance-in this account varied from $\$ 64,263,259$ in 1921 to $\$ 18,398,749$ in 1933 . The yearly balances carried in this reserve appear in table 26.

The balance in the reserve for Federal income and profits taxes amounted to $\$ 9,547,713$ at the end of 1938 . The amounts reserved for this purpose were largest in 1917 and 1918 , amounting to $\$ 245,406,350$ and $\$ 307,161,192$, respectively. During these years the company realized large war profits and undoubtedly accrued these reserves to provide for large war-profits taxes. The reserves in these years, as shown by the table referred to above, were relatively small. Net income dropped very decidedly for 1919 and subsequent years and likewise smaller amounts were reserved in anticipation of Federal income and profits taxes.

Long-Term Debt

Bonded, debenture, and mortgage indebtedness decreased from $\$ 603,736,905$ as at December 31, 1916, to $\$ 231,574,257$ as at December 31, 1938, as follows:

Bonded, debenture, and mortgage debt

|  | Total liability | Amounts issued or liability assumed | $\underset{\text { tired }}{\text { Amounts re- }}$ | Total liability <br> Dec. 31 | Supplementary adjustments |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1917 | \$603, 736,905 | \$1,000 | \$16, 760, 188 | \$586, 949,949 | \$27, 768 |
| 1918 | 586,949,949 | 8, 148, 273 | 12, 156, 179 | 582,916, 274 | 25,769 |
| 1919 | 582, 916, 274 | 709, 000 | 14, 630, 885 | $568,964,621$ | 29,768 |
| 1920 | 568, 964, 621 | 29,250 | 13, 899, 701 | $555,066,402$ | 27,768 |
| 1921 | 555, 066, 402 | 310, 000 | 14, 473, 866 | 540, 874, 768 | 27,768 |
| 1922 | 540, 874, 768 | 15, 781, 000 | 16, 905, 500 | 539, 740, 268 | 10,000 |
| 1923. | 539, 740, 268 | 806,000 | 13, 386, 538 | 527, 159,730 |  |
| 1924. | 527, 159, 730 | 1, 202, 700 | 17, 089, 500 | 511, 272, 930 |  |
| 1925. | 511, 272, 930 | 15; 412, 000 | 17, 186, 852 | 509, 479, 578 | 18,500 |
| 1926 | 509, 479, 578 | 92, 775 | 16, 869,000 | $492,689,353$ | 14,000 |
| 1927. | 492, 689, 353 |  | 17, 514, 824 | 475, 174, 529 |  |
| 1928. | 475, 174, 529 |  | 18,572, 114 | 456, 602, 415 |  |
| 1929 | 456, 602, 415 |  | 344, 344, 437 | 112, 257, 978 |  |
| 1930 | 112, 257, 978 | 425, 933 | 10,905, 500 | 101, $820,11 \mathrm{I}$ | -41,700 |
| 1931 | 101, 820, 111 |  | 2,932, 817 | 98, 887, 294 |  |
| 1932 | $98.887,294$ |  | 2,937, 039 | $95,550,255$ |  |
| 1933. | 95, 950, 255 |  | 2,770, 431 | 93, 179, 824 |  |
| 1934 | 93, 179, 824 | 4,740, 400 | 2, 256, 535 | 95, 663, 689 |  |
| 1935. | 95, 663, 689 |  | 2, 111,799 | 93, 551, 890 |  |
| 1936 | 93, 551, 890 | 6,560,000 | 1,860, 416 | 98, 251, 474 |  |
| 1937 | 88, 251, 474 | 19, 425, 067 | 10,186, 917 | 107, 489, 624 |  |
| 1938. | 107, 489, 624 | 132, 157,000 | 8,072,367 | 231, 574, 257 |  |

The preceding tabulation shows that the principal reductions in bonded indebtedness occured in 1929 when the corporation retired its 50 -year 5 -percent gold bonds of 1951, and its 10-60-year 5 -percent bonds of 1963. Of these issues there were outstanding at January 1, 1929, exclusive of bonds previously purchased and in the treasury, $\$ 134,830,000$ and $\$ 136,632,000$, respectively. The 50 -year gold 5's of 1951 were called for payment September 1, 1929, at 115 and interest, and the $10-60$-year sinking-fund gold 5 's of 1963 were called for payiment November 1, 1929, at 110 and interest. During $1929 \$ 265,455,000$ of these bonds were retired.

Of the total amount of 50 -year 5 -percent gold bonds, outstanding as above indicated, $\$ 58,368,000$ were of the noncallable series. The greater part of such bonds were held by a few interests with whom arrangements were made to turn in their bonds for redemption at the call price for the callable series.

Of the remaining $78,887,437$ of bonds retired during $1929, \$ 45,918,000$ represented cancelation of bonds previously redeemed and held in the treasury. Bonds of subsidiary companies, principally those of the Indiana Steel Co. and the National Tube Co. in the amount of $\$ 32,971,437$ make up the balance of these bonds retired.

The cash funds required in retiring these bonds were supplied from cash resources on hand, representing surplus and surplus reserves, and in part from proceeds of sale of additional shares of common stock.

The principal issuance of bonds, between January 1, 1917, and December 31, 1938, the period eovered by this report, occurred during 1938 when $\$ 100,000,000$ of United States Steel Corporation 10 -year $33 / 4$-percent debentures and $\$ 30,000,000$ first mortgages $3 \not 1 / 2$ percent Duluth, Missabe \& Iron Range Railway Co. were issued.

The 10-year $3 \frac{1}{4}$ percent debentures of United States Steel Corporation, dated June 1, 1938, mature June 1, 1948. On June 7, 1938, these bonds were sold through a syndicate, headed by Morgan, Stanley \& Co., Inc., at a price equal to $981 / 4$ percent of the principal amount thereof, plus accrued interest. The aggregate cash proceeds derived by United States Steel Corporation from such sale was $\$ 98,250$,000.

To the extent of $\$ 50,000,000$ these proceeds were used for the repayment of bank loans incurred in February 1938, the remainder being available, among other things, for expenditures for modernization, extension and replacement of various manufacturing plants of the subsidiaries. The detail by companies, issuès, balance outstanding, December 31, 1938, maturity and interest is shown in the following tabulation.

United States Steel Corporation and subsidiary companies' bonded, mortgage, and debenture debt outstanding, Dec. 31, 1938

${ }^{1}$ Sinking fund of $\$ 2,500,000$ due cach June and Dec. 1,1939 to 1947 , account retirement of these bonds.
i In addition, $\$ 1,236,000$ of this issue are beld alive in sinking fund.
$3 \$ 44,000$ per annum payable to sinking-fund trustees plus interest on bonds in sinking fund for redemption of bonds.

- Sinking fund to retire $\$ 600,000$ prineipal amount of honds cach Apr. and Oct. 1 to 1962, inclusive.
${ }^{3} \$ 5,225,000$ of these bonds are guaranteed by United States Stcel Corporation under a special nonassignable guaranty to their present holders.
${ }^{6}$ Annual sinkine fund equals $\$ 119,360$. If bonds are not.offered to trustees at 105 or less, within 20 days of first publication of offer to purchase, amount of unused installment is returned by trustees to company.

United States Steel Corporation and subsidiary companies' bonded, mortgage, and debenture debt outstanding, Dec. S1, 1938-Continued


## Purchase Money Obligations

The item styled purchase money obligations decreased from $\$ 25,561,968$ at January 1, 1917, to \$12,138,082 at December 31, 1938. During 1917 the balance in this account representing principally existing mining royalty obligations was substituted for subsidiary companies' non-interest-bearing notes, maturing over a period of 39 years.

The net liability as at the close of each year 1917 to 1938, inclusive, representing this item is shown in table 26.

## Intangibles

The total assets of the United States Steel Corporation at the time of its organization in 1901 were capitalized at an amount far in excess of the value of the physical assets aequired. The book value of these assets in 1901 amounted to $\$ 1,402,846,817$. In 1911 the Bureau of Corporations estimated that of this amount $\$ 720,846,817$ represented intangible value; the remaining $\$ 682,000,000$ representing tangible assets. Subsequent to 1901, the United States Stee! Corporation aequired three large steel compannes which resulted in the inclusion of additional water or intangible value in the assets of the United States Steel Corporation. The Union Steel Co. was taken over in 1902, the Clairton Steel Co. in 1904, and the Tennessee Coal, Iron \& Railroad Co. in 1907. These acquisitions raised the total of intangible value originally included in the assets of the United States Steel Corporation to $\$ 768,671,021.53$.

In recognition of the desirability of eliminating this intangible value from their accounts, the United States Steel Corporation has written the entire $\$ 768,671,021.53$ of intangible valuc down to the nominal amount of $\$ 1$. Table 27, immediatcly following, shows how the reduction was accomplished.

Table 27.-Total intangible value included in the assets of United States Stcel Corporation and the manner in which such value has been written off

| Years | Total intangible value | Amounts written off or provided for amortization of intangibles- |  |  |  | Balance of intangible value |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | From surplus invested in property account | From bond sinking fund reserve account | From capital surplus account | Total |  |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1901-16. | \$768, 671, 021. 53 | \$163, 694, 423.55 | \$75, 110, 235. 88 |  | \$238, 804, 659. 43 | \$529, 866, 362. 10 |
| 1917 |  |  | 7, 257, 233.41 |  | 7, 257, 233. 41 | 522,609, 128.69 |
| 1918 |  | ${ }^{18} 898,914.10$ | $7,520,801.64$ | ----------- | 6,621, 887.54 | 515, 987, 241. 15 |
| 1919. |  |  | 7, 831, 975. 64 |  | 7, 831, 975. 64 | 508, 155, 265. 51 |
| 1920 |  |  | 8,349, 913.51 |  | $8,349,913.51$ | $499,805,352.00$ |
| 1921 |  |  | 8, 768, 701.17 |  | $8,768,701.17$ | 491, 036, 650.83 |
| 1922 |  |  | 9, 180, 562. 92 |  | 9, 180, 562.92 | 481, 856, 087.91 |
| 1923 |  |  | 9, 589, 593. 55 |  | $9,589,593.55$ | 472, 266, 494.36 |
| 1924. |  |  | 10, 088, 601. 29 |  | 10, 088, 601. 29 | 462, 177, 893.07 |
| 1925 |  |  | 10,502, 062. 25 |  | 10,502, 062.25 | 451, 675, 830.82 |
| 1926 |  | 43, 956, 177. 93 | 10, 907, 687. 30 |  | 54, 863, 865. 23 | 396, $811,965.59$ |
| 1927 |  | 956, 882.30 | 11, 316, 038.00 |  | 12, 272, 920. 30 | $384,539,045.29$ |
| 1928 |  | $30,205,076.23$ | 11, 456, 371. 63 |  | 41, 661, 447. 86 | 342, 877, 597. 43 |
| 1929 |  | 88, 296, 020.09 | 4,998, 428.48 |  | 93, 294, 448. 57 | $249,583,148.86$ |
| 1930 |  |  |  |  |  | $249,583,148.86$ |
| 1931. |  |  |  |  |  | 249, 583, 148.. 86 |
| 1932 |  |  |  |  |  | 249, 583, 148:86 |
| 1933 |  |  |  |  |  | $249,583,148.86$ |
| 1934 |  |  |  |  |  | 249, 583, 148. 86 |
| 1935 |  |  |  |  |  | $249,583,148.86$ |
| 1936 |  |  |  |  |  | $249,583,148.86$ |
| 1937 |  |  |  |  |  | 249, 583, 148.86 |
| 1938 |  |  | 10, 785, 372.67 | 260, 368, 520.53 | 249, $583,147.86$ | - ${ }^{1} 1.00$ |
| Total |  | 362, 209, 666. 00 | 182, 092, 834.00 | 260, 368, 520.53 | 768, 671, 020.53 |  |

## 1 Deduction.

The United States Steel Corporation effeeted the amortization of intangibles through two amortization reserve accounts. The principal reserve account was called "Surplus invested in property." This account appears only on the books of the subsidiary companies. Column 3 sets forth the amounts credited to this account. The balance in the individual accounts of the various subsidiaries of the United States Steel Corporation was dedueted direetly from their property accounts. The property accounts of the subsidiary companies as thus reduced were incorporated in the consolidation statements of the United States Steel Corporation. So far as the consolidated statement is concerned, these amounts were effectively written off against the property account. Since 1916, the principal amounts credited to this account were transferred from free surplus. However, $\$ 43,956,177.93$ and $\$ 956,882.30$ were transferred from "Depreciation reserves" in 1926 and 1927, respectively.
The second amortization reserve account was called "U. S. Steel Corp. bond sinking fund reserve." This reserve was built up by annual charges against income. These yearly amounts are shown in column 4. The actual yearly balance of the sinking fund reserve is not given in the table. In the consolidated statement, the balanee in the reserve has been combined with other depreciation, depletion, and amortization reserves. The resulting total was then deducted from the "Property investment account" so as to show the net property investinent.

The important thing about this particular method of amortization of intangible values, is the fact that it has been built up through eharges against income. H:ad these intangibles never been brought on the books of the United States Steel Corporation, the yearly income would never have been burdened with charges for their amortization. Therefore in order to arrive somewhat nearer to the true income of the United States Steel Corporation, the income has been increased each year by the amounts shown in column 4. The ineome during this' period has been adjusted by $\$ 117,767,971$. The United States Steel Corporation decided that of this am ount $\$ 10,785,372.67$ represented excessive provision from income for amortion on of intangibles. This latter amount, shown as a deduction in column 4,was transferred from "Bond sinking fund reserve" to repair eertain net sholtages in the "Depreeiation reserves" of certain subsidiary companies. The net amount of $\$ 106,982,598$ represents the amount of
"Bond sinking reserve" which the United States Steel Corporation actually used to amortize intangibles.

In order to maintain the correct yearly balances of surplus, the free surplus was charged with the same amounts which were thus credited to income. In other words, no part of the intangibles should be written off through charges to income; all such charges should be against some capital account.

In 1938, the United States Steel Corporation in one final act squeezed the last remaining intangitle values from their assets. At the annual stockholders meeting in April 1938, the common stock was changed from stock having a par value of $\$ 100$ per share, to stock of no-par value. The no-par stock was then given a stated value of $\$ 75$ per share. This resulted in a decrease of the capital value of the common stock of $\$ 217,581,300$ which amount increased the capital surplus from $\$ 81,250,621.42$ to $\$ 298, \$ 31,321.42$. Of this capital surplus $\$ 260,368,520.53$ was applied aganst the remaining intangibles value in the "Property investment. account."

## Disposition of Capital, Earnings, and Other Resources

The following table 28 indicates the main sources of funds and the manner in which such funds-were used during the period from January 1, 1917, to December 31, 1938, for the United States Steel Corporation and its subsidiaries as a consolidated group. This summary does not, of course, purport to show total gross funds available and their disposition. Receipts from sales and from other similar sources are not included here. Nor are the disbursements for expenses properly chargeable against income included: However, net income for the period gives effect to these factors, since it, together with the depreciation and similar reserves created by charges against income during the period, is a measure of the net funds available to the management as the result of the operation of the business. In other words, for the purpose of this statement which is designed to show longtine changes of a more permanent nature, manufacturing costs, distribution and administrative expenses, Federal income and profits taxes, interest on long-term debt have already been deducted from gross income. These amounts are shown in table 29, "Summary of income, expenses, and surplus," for the United States Steel Corporation 1917-38.

Table 28 has been prepared so as to eliminate the effect of intangible values. The December 31, 1916, consolidated balance sheet for the United States Steel Corporation and its subsidiaries includes among its assets some $\$ 529,866,000$ of intangibles which have been entirely eliminated from the consolidated balance sheet for December 31, 1938. The writing off of this intangible value against various capital accounts does not, of course, affect the amounts of funds available to the United States Steel Corporation or the manner of their disposition. Therefore, in order to put the 1916 statement on a comparable basis with the 1938 statement, the $\$ 529,866,000$ of intangibles has been deducted from the 1917 statement.

TABLE 28.-Statement of disposition of capital, earnings, and other resources of the
United States Steel Corporation and its subsidiaries for the period from Jan. 1,
1917, to Dec. 31, 1938, with effect of all intangible values eliminated
Capital, earnings, and other resources:



$90,780,000$
187, 878, 000
$1,857,936,000$
Less: Transfers from surplus repair deficiencies in deprecia-
tion reserves:
From undivided surplus
From appropriated surplus


Common stock:

lncrease in premiums on common stock.
81, 252, 000
239, 954, 000
I Of this amount, $\$ 211,669,422$ was transferred by the corporation through the appropriated surplus account.
a Balance prior to 1917.

Table 28.-Statement of disposition of capital, earnings, and other resources of the United States Steel Corporation and its subsidiaries for the period from Jan. 1, 1917, to Dec. 31, 1938, with effect of all intangible values eliminated-Continued

| Reauction in prepayments of mining royalties. |  | \$42,021,000 |
| :---: | :---: | :---: |
| Increase in contingent, insurance. and miscellaneous operating rese |  | 28, 924,000 |
| Reduction in working capital |  | 25, 334, 000 |
|  |  | 2, 917, 458,000 |
| Disposition of above resources: |  |  |
| Increase in investment in property. |  | 1, 265, 918,000 |
| Cash dividends: |  |  |
| Common. | \$659, 818,000 |  |
| Preferred | 554, 832, 000 |  |
| Net amount expended in retirement of funded debt: |  | 1,224, 050,000 |
| Decrease in bonded debt and purchase-money obligations_ | 385, 584, 000 |  |
| Premium on bonds retired. | 40, 841, 000 |  |
| Other (net) |  | $\begin{array}{r} 426,425,000 \\ 465,000 \end{array}$ |
|  |  | 2,917, 458,00n |

The principal source of funds during this period was net income as adjusted. The adjustments reveal additions of $\$ 187,878,000$ and deductions of $\$ 337,881,000$ to net income as set forth in the table 28. A certain small, though indeterminate, portion of these additions and deductions are applicable to the period prior to 1917. Subject to this qualification, net income supplied $\$ 1,520,055,000$. Most of this amount was distributed in the form of cash dividends to the stockholders. These cash dividends amounted to $\$ 1,224,650,000, \$ 669,818,000$ going to the common stockholders and $\$ 554,832,000$ to preferred stockholders. Income retained in the business after the distribution of cash dividends amounted to $\$ 295,405,000$.

The next most important source of funds was obtained by the retention within the business of asset values represented by the increase in depreciation and depletion reserve during this period of $\$ 1,601,170,000$. The whole of this increase flowed into the property account. From 1917 to 1938, the United States Steel Corporation increased its investment in property before deduction of reserves for depreciation and depletion from $\$ 1,078,399,000$ to $\$ 2,344,317,000$. The net increase amounts to $\$ 1,265,918,000$. Attention should be called to the fact that all intangible values have been eliminated from this comparison.

Thus all but $\$ 204,748,000$ of the net increase in property during this period was accounted for by the increase in the depreciation and depletion reserves.

A summary follows of the funds not yet accounted for.
Source: Amounts available

Reduction in prepayments of mining royalties



Dispositions:
Amounts

Increase in investment in property not accounted for-.-.---- $204,748,000$
Other (net) 465, 000
Total
631, 638, 000

The bulk of the funds available, as shown above, was used to retire bonded debt. The above amount of funded debt represents the net decrease in the funded debt and the cost of such retirement from 1917 to 1938. In 1917, the funded debt and purchase money obligations amounted to $\$ 629,296.000$; in 1938 it totaled $\$ 243,712,000$. This is a net decrease of $\$ 385,584,000$. An additional $\$ 40,841,000$ in the form of a premium on bonds was required to be disbursed in the retirerient of these bonds. Thus, to effect a net decrease of $\$ 385,584,000$ in the funded deht, total funds of $\$ 426,425,000$ were required. These funds were supplied principally from accumulated net income and the issuance of common stock.

It should be pointed out in this connection that the increase in funds available through the issuance of common stock is exclusive of the common-stock increase through stock dividends. This increase has not been shown since it does not represent a source of funds in itself, but simply is a device for holding within the business funds previously accumulated. It should also be emphasized that the increase in the investment in property represents a net increase, and does not take into account the replacement of property actually retired with property of equal cost.

## Income, Expenses, and Surplus for United States Steel Corporation

Table 29, which follows, summarizes the income, expenses, and surplus of the United States Steel Corporation and its subsidiaries on a consolidated basis for each year during 1917-38, and accounts for the profits applicable to each basis of investment on which rates of return were computed.

Net sales during the 22 -year period, from 1917-38 aggregated $\$ 26,136,166,672$. Total operating expenses amounted to $\$ 23,632,819,197$. This resulted in a net income from operations of $\$ 2,503,347,475$, before deducting Federal income and excess-profits taxes which totaled $\$ 764,536,417$. Adding income derived from all other sources and deducting interest paid on funded debt, a total of $\$ 1,670,058,253$ was earned during the 22 -year period, 1917-38.

The relation of costs, expenses, and profits is further emphasized in the following tabulation which shows the yearly averages and the percentage of costs, expenses, and net income to sales for the United States Steel Corporation and its subsidiaries for the 22-year period 1917-38.


Averages are rather deceptive in an industry whose business fluctuates so violentiy as the steel industry. It does, however, indicate a rough norm about which the business of the steel company may be said to fluctuate.
Table 29.-Summary of income, expenses, and surplus for U. S. Steel Ccrporation, 1917-38


|  | 1931 | 1930 | 1929 | 1928 | 1927 | 1926 | 1925 | 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$725, 218, 082 | \$1, 175, 046, 726 | \$1, 502, 211, 063 | \$1, 351, 842, 104 | \$1, 318, 334, 399 | \$1, 515, 063, 024 | \$1, 412, 153, 844 | \$1, 270, 789, 379 |
| Manufacturing costs. | 610, 689,126 | 935, 509, 378 | 1, 150, 023, 977 | 1,098, 684, 915 | 1, 078, 472,010 | 1,231,949, 842 | 1,164, 856,034 | 1,046, 718, 778 |
| Distribution and administrative expenses, including taxes other than Federal income and profit taxes | 75, 385, 950 | 81, 456, 669 | 85, 561, 4S2 | 80, 486, 444 | 74, 459, 546 | 74, 2>6,059 | 74, 738, 587 | 68, 644, 859 |
| Provisions for depreciation and depletion. | 47, 317, 895 | 58, 550, 120 | 58, 275, 735 | 55, 780,931 | 47, 589, 969 | 53, 313, 223 | 45, 584, 617 | 38, 804, 236 |
| Total operating expen | 733, 392, 971 | 1,078, 516, 167 | 1,293, 861, 194 | 1, 234, 952, 240 | 1,200, 521, 525 | 1,359, 599, 164 | 1,285, 179, 238 | 1,154, 217, 873 |
| Net income from operations. Cther income (net) | $\begin{aligned} & 18,144,889 \\ & 26,732,654 \end{aligned}$ | $\begin{aligned} & 96,530,559 \\ & 24,081,109 \end{aligned}$ | $\begin{array}{r} 208,349,869 \\ 26,418,114 \end{array}$ | $\begin{array}{r} 146,890,814 \\ 19,445,151 \end{array}$ | $\begin{array}{r} 117,812, \times 74 \\ 18,937,746 \end{array}$ | $\begin{array}{r} 155,463,860 \\ 15,955,366 \end{array}$ | $\begin{array}{r} 126,974,606 \\ 14,489,227 \end{array}$ | $\begin{array}{r} 116,571,506 \\ 17,444,796 \end{array}$ |
| Net income applicable to total investment <br> Less interest on long term debt. | $\begin{array}{r} 18,587,765 \\ 5,469,624 \end{array}$ | $\begin{array}{r} 120,611,668 \\ 5,640,097 \end{array}$ | $\begin{array}{r} 234,767,983 \\ 14,944,871 \end{array}$ | $\begin{array}{r} 166,335,965 \\ 25,746,009 \end{array}$ | $\begin{array}{r} 136,750,620 \\ 26,063,504 \end{array}$ | $\begin{array}{r} 171,419,226 \\ 26,757,938 \end{array}$ | $\begin{array}{r} 141,463,833 \\ 27,109,118 \end{array}$ | $\begin{array}{r} 134,016,302 \\ 27,310,509 \end{array}$ |
| Net income applicable to stockholders' investinent Provision for Federal income and profit taxes | $\begin{array}{r} 13,118,141 \\ 80,000 \end{array}$ | $\begin{array}{r} 114,971,571 \\ 10,550,000 \end{array}$ | $\begin{array}{r} 219,823,112 \\ 17,232,624 \end{array}$ | $\begin{array}{r} 140,589,956 \\ 14,959,809 \end{array}$ | $\begin{array}{r} 110,687,116 \\ 11,474,242 \end{array}$ | $\begin{array}{r} 144,661,288 \\ 17,086,196 \end{array}$ | $\begin{array}{r} 114.354,715 \\ 13,250,000 \end{array}$ | $\begin{array}{r} 106,705,793 \\ 11,590,000 \end{array}$ |
| Net income for year Surplus beginning of year | $\begin{array}{r} 13,038,141 \\ 471,782,759 \end{array}$ | $\begin{aligned} & 10 \dot{4}, 421,571 \\ & 434,711,118 \end{aligned}$ | $\begin{aligned} & 202.590,488 \\ & 355,277,349 \end{aligned}$ | $\begin{aligned} & 125,630,147 \\ & 335,044,914 \end{aligned}$ | $\begin{gathered} 99,212,874 \\ 528,502,400 \end{gathered}$ | $\begin{aligned} & 127,575,092 \\ & 496,863,109 \end{aligned}$ | $\begin{aligned} & 101,104,715 \\ & 492,061,305 \end{aligned}$ | $\begin{array}{r} 35,155,793 \\ 487,751,220 \end{array}$ |
| Total | 484, 820, 900 | 539, 132, 689 | 587, 867, 837 | 463, 675, 061 | 627, 715, 274 | 624, 438, 201 | 593, 166, 023 | 582, 907, 013 |
| Less dividends paid on: |  |  |  |  |  |  |  |  |
| - Common stock in cash | 36,983, 950 | 60, 365, 797 | 63, 849, 040 | 49, 813, 645 | 49, 813,645 | 35, 581, 175 | 35,581, 175 | 35, 581, 175 |
| Preferred stock in cash | 25, 219, 677 | 25, 219, 677 | 25, 219, 677 | 25, 219, 677 | 25, 219, 677 | 25, 219, 677 | 25, 219, 677 | 25, 219, 677 |
| Total dividends. | 62, 203,627 | 8,5,585, 474 | 89, 968.717 | 75, 033, 322 | 278, 354, 322 | $60,800,852$ | 60, 800, 852 | 60, 800,852 |
| Total | 422, 617, 273 | 453; 547, 215 | 498, 799, 120 | 398, 641, 739 | 349, 360, 952 | 563, 637, 349 | 532, 365, 171 | 522, 106, 161 |
| Depreciation reserves Transferred to appropriated surplus |  |  |  | ${ }^{1} 6,500,000$ |  |  |  | 300, 512 |
| Transferred to appropriated surplus .-............ |  |  |  | 8,091, 982 |  | $\begin{aligned} & 141,669,422 \end{aligned}$ | $125,000,000$ | ${ }^{1} 20,000.000$ |
| Amortization of intangibles........................... |  |  | $188,296,020$ | $130,205,076$ |  |  |  |  |
| Reversals of reserves no longer required |  |  | 54, 076, 404 |  |  | 24, 397, 361 |  | 43 |
| Premiums paid on bonds retired........................ | 163,750 | 186,850 | ${ }^{1} 40,626,554$ |  |  |  |  |  |
| Refund of prior years Federal income and excess profits taxes |  | 18, 322, 394 |  | ' 36, 705, 076 |  | 19,996, 873 |  |  |
| Amortization of intangibles charged to income ${ }^{2}$ |  |  | 14, 998, 428 | ${ }^{1} 11,456,372$ | 111,316, 038 | ${ }^{1} 10,907,687$ | ${ }^{1} 10,502,062$ | 1 10, 088, 601 |
| All other | ${ }^{1} 716,331$ |  |  |  |  |  |  | 57, 507 |
| Total additions or deductions | ${ }^{1780,081}$ | 18, 235, 544 | ${ }^{1} 64,088,002$ | ${ }^{1} 3,364,390$ | ${ }^{1} 11,316.038$ | ${ }^{1} 35,134,949$ | ${ }^{1} 35,502,062$ | ${ }^{1} 30,044,853$ |
| Surplus at end of year | 421, 837, 192 | 471, 782, 759 | 434, 711, 118 | 385, 277, 349 | 338, 044, 914 | 528, 502, 400 | 496, 863, 109 | 492, 061, 308 |

Table 29.-Summary of income, expenses, and surplus for U. S. Steel Corporation, 1917-38-Continued

Charged to income by company, but restored to income for purposes of this report.

Reference to table 29 shows that net sales has followed an extremely erratic course during the whole of the $22-\mathrm{ye}$ ar periot. During the period from 1917 to 1929 sales fluctuated violently about as slight downward trend. Sales declined from a near high in 1917 to $\$ 1,706,356,000$ to a low for this period in 1921 of $\$ 997,127,000$. Sales recovered erratically to $\$ 1,502,211,000 \mathrm{in} 1929$. In addition to the inability of net sales to maintain any definite trend from year to year, it should be pointed out that the most precipitious drop in the period occurred between 1920 and 1921, when sales fell from $\$ 1,756,667,000$ to $\$ 997,127,000$.

The period 1929-38 witnessed a sharp and continuous decline from $\$ 1,502$,211,000 in 1929 to $\$ 354,693,000$ in 1932. The following 5 years show that net sales recovered nearly all of this decline without break, reaching $\$ 1,395,550,000$ in 1937. This upward trend was completely reversed in 1938. Sales plunged downward to $\$ 766,674,000$.

While net sales during the whole period from 1917 to 1938 was characterized by a complete lack of stability, manufacturing costs, and total operating expenses fluctuated in surprising agreement with the fluctuations of net sales. This high degree of correlation is evident from chart 2 , which follows.

It is to be noted that it is a peculiarity of the ratio paper on which this graph is charted that the slope of a line measures its rate of change. Thus equal slopes of lines, regardless of the numerical amounts which they represent, indicate equal rates of change.

The correlation between net sales and total operating expenses is somewhat less than the degree of correlation existing between manufacturing costs and net sales. This is explained by the greater lack of correlation between depreciation, distribution and administrative expenses with net sales.

In the case of distribution and administrative expenses the trend was almost in direct reverse of tiat of net sales. These expenses started in 1917 at the low for the period of $\$ 45,122,000$, and with some variation increased to a high of $\$ 111$, 609,000 in 1937. Depreciation and depletion, however, followed in a general way net sales, though much more loosely than did manufacturing costs. It should be mentioned here that depreciation for blast furnace relining and renewals is included by the United States Steel Corporation in manufacturing costs. However, the amounts so included are not sufficiently large to alter materially the amount of depreciation and depletion set forth in table 29.

While there was excellent correlation between total operating expenses and sales, expenses varied less widely than did sales. This resulted in larger fluctuations in income than occurred in either of the other factors. Net income applicable to total investment, stockholders' investment and common stockholders' equity, varied closely with one another, except in the early years 1917-20. This is explained by the fact that during this period, the earnings applicable to the common stockholders' equity was much larger than the payments for the use of funds supplied by either the bondholders or the preferred stockholders. After 1920, these income totals moved closely together.

Attention is now directed to the relation of net income, after deducting interest on long-term debt and Federal income and profit taxes, with charges for depreeiation and depletion, capital expenditures, and expenses for repairs, maintenance, and extraordinary replacements. This relationship is graphically portrayed in chart 3 , which follows.

It will be observed that capital expenditures followed net income more closely than either of the other factors, though from 1920 to 1930 capital expenditures lag somewhat behind net income. Repairs, maintenance and extraordinary, depreciation and depletion shows a less close relationship.

The following tabulation sets forth a comparison of capital expenditure, repairs and maintenance and extraordinary replacements, and charges for depreciation and depletion of the United States Steel Corporation for the periods indicated.

| Period | Capital expenditures | Repairs, maintenance and extraordinary replacements | Depreclation and depletion |
| :---: | :---: | :---: | :---: |
| 1917-39 | \$1, 584, 393, 100 | \$2, 078, 222, 328 | ' \$1, 467, 191, 735 |
| 1938-31 | 399, 563, 931 | 497, 233, 471 | 2 $678,852,254$ |
| 1930-23 | 646, 647, 797 | 934, 037, 606 | ${ }^{3} 433,624,281$ |
| 1923-17. | 538, 181, 372 | 646,951, 251 | - 354, 715, 200 |

[^56]The tabulation reveals particularly that in the S-year period terminating with the depression in the steel industry in 1930, the United States Stcel Corporation spent $\$ 683.888,001$ more for capital expenditures, and repairs, maintenance, and extraordinary replacements than it did in the $\delta$ years following 1930. Approximately two-thirds of this decrease occurred in expenditures for repairs, maintenance and extraordinary replacements which were cut almost in half.

Credits to depreciation and depletion reserves during the 1923-30 period were $\$ 245,227,973$ less thin for the period, 1931-38. However, of the $\$ 678,852,2.54$ credited to the depreciation and depletion reserves in the years 1931-38, $\$ 291$,000,000 represented charges against surphus. These charges providing for additional depreciation, were made necessary by inadequate annual depreciation charges against income. In 1935, $\$ 270,000,000$ was transferred from surplus to depreciation reserves to repair deficiencies in the reserves. An extensive survey hy the United States Steel Corporation of all its operating properties for the purpose of determiniug the age, endition, and adequacy of its farilities revealed the existence of these deficieneies. This survey, indertaken in 1928, was carried forward by the company's engineers until 1935. Their findings were so extensive and involved expenditures of such magnitude that it was decided to employ outside opinion. To this end the firm of Ford, Bacon, and Davis, appraisal engineers, was employed. The extent of this firm's appraisal is indicatrd by the fact that during the years 1935-38 they received $\$ 3,037,157.76$ from the Sitcel Corporation for their serviees.

The depreciation and depletion of $\$ 678,852,254$ charged during the 1931-38 period, together with the amounts charged during the prior periods shown in the above tabulation, resulted in a huge increase in the depreciation and deplation reserves of the United States Steet Corporation. These reserves increased from $\$ 271,004,251.99$ in 1917 to $\$ 1,177,797,445$ in 1938 . The property account inereased by a somewhat larger amount. In December 31, 1938, the investment in property account amounted to $\$ 2,341,316,958$. The depreciation and lepletion reserves as of December 31, 1938, amounted to 50.24 percent of the property account.

Table 30 immediately following contains a summary of eapital expenditures made by the United States Steel Corporation and subsidiaries, during the period 1917 to 1938, inclusive.
Table 30.-Summary of capital expenditures made by United States Steel Corporation and subsidiaries, 1917-38


[^57]
## Dividends

Table 29 shows that of the net income of $\$ 1,670,058,253$ earned for the period 1917-38, dividends in the amount of $\$ 1,427,971,442$ were distributed to the stockholders. The dividends, together with the net deductions of $\$ 351,028,711$ from surplus, account for the reduction in surplus from $\$ 356,360,913$ at the beginning of 1917 to $\$ 247,419,013$ at the end of 1938 .

Dividends amounting to $\$ 1,224,650,442$ were distributed in the form of cash to the stockholders. The common stockholders received $\$ 669,817,548$ and the preferred stockholders received $\$ 554,832,894$. The remaining dividends of $\$ 203$,321,000 represents a distribution of a 40 percent common stock dividend which was declared in 1927 on the common stock.

The dividend rate on the common and preferred stock follows. This rate is based on the par value of each class of stock. It has been already pointed out that in 1938, the common stock was changed from shares with par value of $\$ 100$ each to hares without par value to which a stated value of $\$ 75$ a share has been assigned. It will be observed in the yearly rates in the preferred stock which follow that the United States Steel Corporation did not maintain a dividend rate of 7 percent for every year on the preferred stock. However, as of 1938, all arrears on the 7 percent cumulative preferred have been remedied.

| - Years | Rate on common stock ${ }^{1}$ | Rate on 7 percent cumulative preferred stock ${ }^{1}$ | Y'ears | Rate on common stock 1 | Rate on 7 percent cumulative preferred stock 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1917. | Percent 18 | Percent | 1928 | Percent | Percent |
| 1918 | 14 | 7 | 1929. | 8 | 7 |
| 1919. | 5 | 7 | 1930 | 8 | 7 |
| 1920 | 5 | 7 | 1931. | 432 | 7 |
| 1921 | 5 | 7 | 1932 |  | $3{ }^{3}$ |
| 1922 | 5 | 7 | 1933. |  | 2 |
| 1923 | 53 | 7 | 1934. |  | 2 |
| 1924 | 7 | 7 | 1935 |  | 2 |
| 1925 | 7 | 7 | 1936 |  | 14 |
| 1926 | 7 | 7 | 1937. | 1 | 161/4 |
| 1927. | 7 | 7 | 1938. |  | 7 |

1 Par value $\$ 100$ a share.
Principal Steel Producing and Fabricating Subsidiaries of the United States Steel Corporation

A study was also made of the financial statements of the principal producing and fabricating subsidiarics of United States Steel Corporation for the period 1925 to 1938, inclusive. Eight of these companies produced substantially all of the raw, semifinished, and finished iron and stecl products for sale of the total produced by the system. These companies are as follows:

> American Sheet \& Tin Plate Co.
> American Steel \& Wire Co.
> Carnegie-Illinois Steel Corporation.
> Carnegie Steel Co.
> Illinois Steel Co.
> Columbia Steel Co.
> National Tube Co.
> Tennessee Coal, Iron \& Railroad Co.

At December 31, 1938, the total investments of these companies aggregated $\$ 1,059,574,541$. This aggregate investment accounts for substantially 60 percent of the investment of United States Steel Corporation, as a consolidated basis, in that year.

Table 31, which follows, shows the investment, profits and rate of return for each of the subsidiaries for each of the years $1925-38$ on the basis of average investment.

Table 31.-Summary of average investment, annual net income, and rates of return for the principal steel subsidiaries of the United States Sieel Corporation, 1925-93

|  | A verage | 1938 | 1937 | 1936 | 1935 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AVERAGE INVESTMENT |  |  |  |  |  |
| A meriean Sheet \& Tin Plate Co | \$99, 732, 633 |  |  | \$96, 753, 137 | \$88, 117, 253 |
| Ameriean Steel and Wire Co | 150, 421,342 | \$125, 162, 141 | \$123, 418, 303 | 122, 881.199 | 119, 671, 193 |
| Carnegie-Illinois Steel Corporation... | $489,965,061$ | 591, 138, 344 | 514, 068, 350 | 437, 139, 312 | 417, 514, 240 |
| Carnegie steel Co | 250, 244, 060 |  |  |  |  |
| Illinois Steel Co. | 145, 436, 508 | 42, 330, 199 | 71, 910, 182 | 95, 055, 776 | 155, 899, 870 |
| Columbia Steed Co | 52, 244, 224 | 56, 175, 771 | 54, 811,912 | 52, 780, 107 | 51, 992, 559 |
| National Tube Co | 177, 653, 773 | $164,335,273$ | $166,272,123$ | 172, 365, 514 | 189, 353, 301 |
| Tennessee Coal, Iron \& R. R. Co....- | 92,946,370 | $80,352,161$ | 78, 143, 014 | 76, 368, 523 | 88, 021, 287 |
| Total | 14, 1159, 702, 374 | $1,059,193,889$ | 1,008,623,54 | 1,053,343, 568 | 1, 111), 569, 703 |
| Ameriean Sheet \& Tin Plate Co | 2, 121,334 |  |  | 1,036, 589 | 3, 466, 456 |
| American Steel de Wire Co.........- | 776, 064 | 18,520, 879 | 484, 909 | 1593, 154 | 1877,034 |
| Carnegie-Hlinois Steel Corporation.- | $1,561,796$ | $121.655,462$ | 34, 798, 351 | 85, 448 | $16.981,153$ |
| Carnegic Steel Co | $\begin{array}{r} 5,951,417 \\ 13,532,451 \end{array}$ | 833, 798 | 2,017,531 | 1, 549, $\times 49$ | 5, 667, 991 |
| Columbia steel C | 948, 703 | 918, 226 | 3, 267, 237 | 3, 284, 276 | 1, 899, 877 |
| National Tube Co | 8, 290, 997 | 2, 813, 836 | 15, 960, 633 | 9, 491), 427 | 2, 84x, 932 |
| Tennessee Coal, lron, \& R. R. Co... | 2, 696, 028 | 1, 164, 043 | 7,611,874 | 2, 877, 431 | 2, 124,801 |
| Total A verage | $\begin{gathered} 453,883,253 \\ 32,+20,232 \end{gathered}$ | $124,145,838$ | 64, 140, 535. | 17,730, 366 | 8, 200, 370 |
| Rates of return on total investMENT |  |  |  |  |  |
| American Sheet \& Tin Plate Co. (pereent) | 2.13 |  |  | 1. 177 | 3. 93 |
| Amieriean Steel \& Wire Co. (perent) | . 52 | 1 6. 51 | 0. 39 | 1.48 | 1.73 |
| Carnegie-fllinois Steel Corporation (perefat) | 32 | 13.66 | 6. 77 | 02 | 11.67 |
| (arnegie Steel Co. (percent) | 2.38 |  |  |  |  |
| Illinois Steel Co. (percent) | 9.30 | 1.97 | 2.81 | 1. 63 | 3. f 4 |
| Columbia Steel Co. (percent) | 1. 82 | 1. 64 | 5.96 | 6. 22 | 3. 65 |
| National Tube Co. (percent) ...... | 4.67 | 1.71 | 9. 60 | 5. 51 | 1.53 |
| Ceanessee Coal, Iron, \& R. R. Co. (percent) | 2. 90 | 1. 45 | 9. 74 | 3. 77 | 2. 41 |
| A verage (pereent) | 3. 23 | 12.31 | 6. 36 | 1.68 | 74 |


|  | 1934 | 1933 | 1932 | 1931 | 1930 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AVERAGE INVESTMENT |  |  |  |  |  |
| American Sheet \& Tin Plate Co | \$92, 958, 602 | \$99, 125, 066 | \$110, 393, 936 | \$105, 703, 874 | \$105, 849, 407 |
| Ameriean Steel \& Wire Co. | 122, 194, 230 | 135, 879, 293 | 150, 733, 888 | 169, 223, 560 | 177, 275, 456 |
| Carnegie-Illinois Stecl Corporation |  |  |  |  |  |
| Carnegie Steel Co | 21¢,214, 212 | 230, 558, 966 | 251, 443, 598 | 271, 342, 738 | 279, 533, 053 |
| Illinois Steel Co | 218, 470, 576 | 209, 645, 540 | 199, 506, 828 | 187, 509, 54.9 | 158,850,69x |
| Columbia Steel Co | 50, 645, 805 | 49, 981, 842 | 50, 265, 979 | 51, 451, 692 | $52,092,352$. |
| National Tube Co | 199, 870,556 | 195, 801, 004 | 192, 450, 496 | 189, 977,955 | 183, 576, 972 |
| '「ennessec Coal, Iron \& R. R. Co | 88, 352, 488 | 90, 237, 159 | 96, 033, 380 | 103,381,322 | 107, 356, 225 |
| Tota | 991,036, 469 | 1,011, 228,870 | 1,041, 828, 105 | 1,078,590,690 | 1,064, 534, 163 |
| NET INCOME |  |  |  |  |  |
| Ameriean Sheet \& Tin Plate Co | ${ }^{1} 330.262$ | 1, 640, 434 | ${ }^{1} 1,702,347$ | $12,876,113$ | 3, 357, 530 |
| American Stecl \& Wire Co ...... | 1 $2,279,852$ | ${ }^{1} 1,218,300$ | ${ }^{1} 5,944,765$ | 1 5, 497, 509 | 409, 806 |
| Carnegie-Illinois Steel Corporation |  |  |  |  |  |
| Carnegie Steel Co. Illinois Steel Co | $\begin{array}{r}1 \\ \text { 5, 275, } \\ 1,663 \\ \hline 12,238\end{array}$ | 113, 517, 324 | : $13,494.725$ $111,104,178$ | $18,192,574$ <br> 17 <br> 17 <br> 1 | 10, 611, 144 |
| Colnmbia Steel Co | 1, 047, 497 | - 7, 427,365 | 1 1, 073, 0.32 | $11.259,321$ | 16, 124,933 |
| National Tube Co | 109, 666 | 12, 169,58f | 1 4, 813, 9-10 | 13, 868, 489 | 8,196,784 |
| Tennessee Coal, Ir n, \& R. R. Co. | 197, 098 | ${ }^{1} 3,931,459$ | 17,399,399 | ${ }^{1} 3,041$, 4.10 | 2,317, 074 |
| Total | $14,918,678$ | $126,320,171$ | 1 45, 532, 386 | 132,630,009 | 41,142,874 |

1 Denotes loss.

Table 31.-Summary of average investmant, anniual nel income, and rotes of return far the principal steel subsidiarics of the Cnited States Steel Corpnration, 1995-98-Continued

${ }^{1}$ Denotes loss.
Table 31 shows that average rates of return for all companies for the perior 1925 to 1938, inclusive, ranged from a low of 0.32 percent for Carnegie-Illinois Steel Corporation to a high of 9.30 percent for Illinois Steel Co. Without exception profits were realized by all companies in each of the years 1925 to 1930, inclusive. The lowest rate of return for all the companies during this 6 -vear period was 0.23 percent. This rate was earned by the American Stecl \& Wire Co. in 1930. The highest rate during the same period was realized by the Illinois Steel Co. which earned 30.96 percent in 1929

Each of the companies operated at a loss for the years 1931 and 1932. The greatest percent of loss during this period was the 7.71 -percent loss sustained by Tennessee Coal, Iron \& Railroad Co. in 1932 and the lowest percent of loss was 1.68 percent sustained by American Sheet \& Tin Plate Co. for 1932.

Moderate profits or small losses occurred intermittently during the years 1933 to 1938, inclusive. The greatest percentage of loss during this period was 6.81 percent. This loss was sustained by American Steel \& Wire Co. in 1938. The largest rate of return in these later years was earned by the Tennessee Coal, Iron \& Railroad Co., which realized 9.74 percent on its total investment in 1937.

The table shows that for all companies the most profitable years were those from 1925 to 1929, inclusive. During these years, profits for all companies ranged from 7.12 percent of total investment in 1927 to 13.77 percent of total investment in 1929. Following this period, the next most profitable year was in 1937 when all companies combined averaged 6.36 percent of total investment.

The average rate of return for all companies throughout the entire period, $1925-38$, was 3.23 percent. This compares with an average return of 3.66 percent on total investment of United States Steel Corporation and subsidiarles, on a consolidated basis, during this period. For the sake of comparability, this average return for the system as a whole is based on investment including intangibles, since it was not practicable to eliminate intangibles from the investments of the subsidiaries. Excluding intangibles, the average return for the system during these years was 4.39 percent.

Attention should be called to the fact that intercompany profits have been eliminated in arriving at the average return for the system, but this was not feasible in arriving at the average return for the subsidiaries. However, it is believed that the validity of the above comparison of rates of return is not materially affected in view of the fact that the averages are based on the results of operations over a 14 -year period.

The investments, profits, and rates of return for each principal producing and fabricating subsidiary for each of the yeats during the period 1925-38 are shown in greater detail below, together with a brief account of the history and business of each company.

AMERICAN SHEET \& IIN PLATE CO.
According to the report of the commissioner of corporations on the steel industry, ${ }^{3}$ American Sheet \& Tir Plate Co. was organized in 1903 as an intercompany consolidation of American Sheet Steel Co. and American Tin Plate Co., two of the companies acquired by United States Steel Corporation at its formation in 1901. In June 1936 American Sheet \& Tin Plate Co. was merged with Carnegie-Illinois Steel Co.

The investments, profits, and rates of return for American Sheet \& Tin Plate Co. for each of the years 1925-36, together with a summary of its income, expenses, and surplus for these years, are set forth in tables 32 and 33 , which follow. Rates of return have been computed on the basis of intal investment and stockholders' investment for each company and show that during the period an average return of 2.13 percent was earned on the total investment and 2.10 percent was earned on the stockholders' mvestment. Returns were highest in 1929 when 8.30 and 8.71 percent, respectively, was carned in that year. Returns were lowest in 1931 when losses were sustained equivalent. for 2.72 and 2.92 percent, respectively, on the total investment and storkholders' investment.

[^58]Table 32.-Summary of investments, profits, and rates of return for the American Sheet \& Tin Plate Co., 1925-86 ${ }^{1}$


[^59]TABLE 32.-Summary of investments, profits, and rates of return for the American Shect \& Tin Plate Co., $1925-36-\mathrm{Continued}$

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \& 1930 \& 1929 \& 1928 \& 1927 \& 1926 \& 1925 \& 1924 <br>
\hline Capital stock: \& \& \& \& \& \& \& <br>
\hline Common- \& \$24,500,000.00 \& \$24, 500, 00000 \& \$24, 500, 00000 \& \$21.500. 000.00 \& \$2.1, 500.000 .00 \& \$24, 500.00k \& <br>
\hline Preferred
Premium on common stoc \& $24,560,000.00$ \& $24,500,000.00$ \& 24, 500, 000. 00 \& 24,500, 000. 00 \& $24,500,000.00$ \& 21,500, 001).00 \& - . <br>
\hline Capital surplus. \& \& \& \& \& \& \& <br>
\hline Surplis ..... \& 49, 619, 096. 84 \& 44, 018, 632.68 \& 39, 970, 747. 89 \& 37, 432, 958. 47 \& 39, 265, 553. 58 \& 36, 800. 362.40 \& <br>
\hline Surplus and contingency rese \& $6,021,393.82$ \& $6,061,199.85$ \& $6,155,631.25$ \& 6, 052, 067. 12 \& 6, 064, 442. 75 \& 6, 001, 424. 56 \& <br>
\hline Long-term debt. \& $3,579,485.36$ \& 3, 284, 005. 92 \& $9,539,953.44$ \& 12, 529, 595.89 \& $6,314,113.76$ \& 2, 699, 057. 80 \& <br>
\hline Reserve for Federal income and profit tax \& $465,000.00$ \& $650,000.00$ \& 140.000 .00 \& 100, 000.00 \& $500,000.00$ \& 491, 000.00 \& <br>
\hline Total investment \& 108, 684, 976.02 \& $103,013,838.45$ \& 101, 806, 332. 58 \& 105, 114.621.48 \& 101, 144.110. 09 \& 94, $291,948.76$ \& \$98, 592, 974.66 <br>
\hline A verage of total investment..... \& $105,819,407.00$ \& 103, 910, 085. 00 \& 104, 960, 477.00 \& 103, 129, 366.00 \& 98, $067,979.00$ \& 96,792.412.00 \& <br>
\hline Net income applicable to total investment
Rate of return on total investment (percen \& 3, 357, 530.35 \& 8,629,
886.
S. 30 \& $2,167,693.39$
2.07 \& $307,237.36$
0.30 \& 4, 607, 643.54 \& 5, 150, 963. 25 \& <br>
\hline Total investment \& 108, 684, 976.02 \& 103, 013, 838. 45 \& 101, $206,332.58$ \& $105,114,621.48$ \& 101, 144, 110. 09 \& 94, 991, 848.76 \& 98, 582, 97.1. 66 <br>
\hline Long-term debt \& $3,579,485.36$ \& 3, 281, 005.92 \& 9,539, 953. 44 \& 12, 529, 595. 89 \& 6, 314, 113. 76 \& 2, 699, 057. 80 \& 7,811, 433. 58 <br>
\hline Stockholders' investmen \& $105,105,490.66$ \& 99, 729, 832. 53 \& $95,266,379.14$ \& $92,585,025.59$ \& $94,829,996.33$ \& 92, 292, 790. 96 \& $90,781,541.08$ <br>
\hline A verage of stockholders' investment........ \& 102, 417, 661. 00 \& $97,498,106.00$ \& 93, 925, 702.00 \& $93,707,511.00$ \& 93, 561, 394.00 \& 91, 537, 166. 00 \& <br>
\hline Net incone applicable to stockholiers investment \& $$
\begin{array}{r}
3,248,530.35 \\
3.17
\end{array}
$$ \& $$
\begin{array}{r}
8,494,019.72 \\
8.71
\end{array}
$$ \& $1.687,891.17$
1.80 \& 3

3 \& 4, 368, 11.25 \& $4,836,968.30$
5.28 \& <br>
\hline
\end{tabular}

Table 33.-Summary of income, expense, and surplus for the American Sheet \& Tin Plate Co., 192.5-36 ${ }^{1}$

|  | Total | 19361 | 1935 | 1934 | 1933 | 1932 | 1931 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$1, 445, 745, 800.00 | \$57, 585, 560.00 | \$113, 917, 527.00 | \$80, 554, 750. 00 | \$79, 181, 126. 00 | \$45, 667, 944. 00 | \$81, 799, 557.00 |
| Cost of goods sold | 1, 321, 932, 925. 55 | 52, 026, 980. 24 | 100, 480, 787.14 | 73, 602, 559. 86 | 71, 114, 498. 79 | 42, 009, 474. 84 | 75, 287, 828. 79 |
| Depreciation and depletion--.----.-.-- | 29, 171, 565. 59 | 1, 603, 277.84 | 3, 003, 978.00 | 4, 435, 291. 26 | 2, 270, 270.00 | 1,762, 648.00 | 3, 351, 838.05 |
| Distributive and administrative expense | 78, 743, 415.03 | 3, 079, 810.61 | 7,542, 254.26 | 3, 908, 057.46 | 4, 960, 025. 35 | 4, 253, 989.98 | 6,584, 489.12 |
| Total operating expenses | 1, 429, 847, 906.17 | 56, 710, 068. 69 | 111, 027, 019.40 | 81, 945, 908. 58 | 78, 344, 794. 14 | 48, 026, 112. 82 | 85, 224, 155. 96 |
| Net income from operations Other income. | $\begin{array}{r} 15,897,893.83 \\ 9,558,116.84 \end{array}$ | $\begin{aligned} & 875,491.31 \\ & 161,097.82 \end{aligned}$ | $\begin{array}{r} 2,890,507.60 \\ 576,448.02 \end{array}$ | $\begin{array}{r} 21,391,118.58 \\ 1,060,856.28 \end{array}$ | $\begin{aligned} & 836,331.86 \\ & 504,101.98 \end{aligned}$ | $\begin{array}{r} { }^{2} 2,358,168.82 \\ 655,821,80 \end{array}$ | $\begin{array}{r} 23,424,599.96 \\ 548,486.09 \end{array}$ |
| Net income applicable to total investment <br> Less: Interest on long-term debt | $\begin{array}{r} 25,456,010.67 \\ 1,970,783.82 \end{array}$ | $\begin{array}{r} 1,036,589.13 \\ 86,838.61 \end{array}$ | $\begin{array}{r} 3,466,955.62 \\ 21,209.37 \end{array}$ | ${ }^{2} 330,262.30$ | 1,640,433.84 | $\begin{array}{r} 21,702,347.02 \\ 103,000.00 \end{array}$ | $\begin{array}{r} 22,876,112.87 \\ 109,000.00 \end{array}$ |
| Net income applicable to stockholders' investment Less: Federal income and excess-profits tax | $\begin{array}{r} 23,485,226.85 \\ 2,835,570.00 \end{array}$ | $\begin{array}{r} 949,750.52 \\ 91,704.00 \end{array}$ | $\begin{array}{r} 3,445,746.25 \\ 394,866.00 \end{array}$ | ${ }^{2} 330,262.30$ | 1, $14.40,433.84$ | 21,811,347.02 | ${ }^{2} 2,985,112.87$ |
| Net iueome for year. Surplus at beginning of year | $\begin{aligned} & 20,649,656.85 \\ & 35,240,083.94 \end{aligned}$ | $\begin{array}{r} 855,046.52 \\ 22,815,495.84 \end{array}$ | $\begin{array}{r} 3,050,880.25 \\ 30,702,407.28 \end{array}$ | $\begin{array}{r} 3330,262.30 \\ 41,075,595.52 \end{array}$ | $\begin{array}{r} 1,640,433.84 \\ 41,269,548.31 \end{array}$ | $\begin{aligned} & { }^{2} 1,811,347.02 \\ & 44,469,845.65 \end{aligned}$ | $\begin{aligned} & { }^{2} 2,985,112.87 \\ & 49,619,096.84 \end{aligned}$ |
| $\qquad$ Dividends | $\begin{aligned} & 55,859,740.79 \\ & 30,135,000.00 \end{aligned}$ | $\begin{array}{r} 23,670,542.36 \\ 428,750.00 \end{array}$ | $\begin{array}{r} 33.753,287.53 \\ 1,286,250.00 \end{array}$ | $\begin{array}{r} 40,745,333.22 \\ 3,797,500.00 \end{array}$ | $\begin{array}{r} 42,909,982.15 \\ 857,500.00 \end{array}$ | $\begin{array}{r} 42,658,498.63 \\ 1,715,000.00 \end{array}$ | $\begin{array}{r} 46,633,983,97 \\ 1,715,000.00 \end{array}$ |
| Total | 25, 754, 740.79 | 23, 241, 792.36 | 32, 467, 037. 53 | 36.947, 833.22 | 42, 052, 482. 15 | 40, 943, 498. 63 | 44, 918, 983. 97 |
| Additions or deductions: |  |  |  |  |  |  |  |
| Adjustment of depreciation, depletion, amortization_--- Adjustment of amortization of intangibles book valuo |  | ${ }^{3} 4,865,649.84$ |  | ${ }^{3} 418,965.38$ | ${ }^{3} 1,050,717.97$ | 280, 000. 59 | 2, 945, 791.05 |
| Transfers to and from appropriated surplus | $34,164,603.50$ |  | ${ }^{3} 1,000,000.00$ |  |  |  | ${ }^{3} 3,164,603.50$ |
| Transfers from Sharon Tin Plate Co. in merger (surplus) Write-off of intaugible property value and their adjust- | $3,191,989.40$ |  | 2, 839, 032.72 | 352, 956. 68 |  |  |  |
|  | ${ }^{3} 6,084,138.24$ |  |  | $36,676,917.24$ | 92, 779.00 |  |  |
| Adjustment of taxes (Federal) - | $9,618,811.69$ |  |  | ${ }^{3} 2,500.00$ | ${ }^{3} 20,000.00$ |  | 100, 411.14 |
| Transferred from special inventory reserve | $\begin{array}{r}4,657,757 \\ 3119,854.29 \\ \hline\end{array}$ |  |  |  |  |  | $\begin{aligned} & { }^{3} \\ & 3 \\ & 1190, ~ 850.00 \\ & \hline \end{aligned}$ |
| Other additions and deductions (net) | 123, 201.02 |  | 1,645.98 |  | $1,052.34$ | 46,049.09 | 69, 117. 28 |
| Total additions and deductions | ${ }^{3} 7,378,598.27$ | ${ }^{3} 4,865,649.84$ | 3 9, 651, 541.69 | ${ }^{3} 6,245,425.94$ | ${ }^{3} 976,886.63$ | 326, 049. 68 | ${ }^{3} 449,138.32$ |
| Surplus at end of year | 18,376, 142. 52 | 18, 376, 142. 52 | $22,815,495.84$ | 30, 702, 407. 28 | 41, 075, 595. 52 | 41, 269, 548.31 | 44, 469, 845.65 |

[^60]Table 33.-Summary of income, expense, and surplus for the American Sheet \& Tine Plate Co., 1925-36-Continued


[^61]
## AMERICAN STEEL AND WIRE CO.

This company was organized in 1899 under the laws of New Jersey, and was one of the important acquisitions by United States Steel Corporation at its formation in 1901.

Plants of the American Steel \& Wire Co. are located in Cleveland, Ohio; Donora, Pa.; Joliet, Ill.; Worcester, Mass.; Waukegan, Ill.; and Duluth, Minn. This subsidiary also has plants located at De Kalb, III.; Anderson, Ind.; Allentown and Rankin, Pa.; Jackson, Mich.; New Haven, Conn.; and Trenton, N. J. The company manufactures large quantities of coke, irnn, wire rods, wire nails, wire fences, etc.

The details of investments, profits and rates of return on the basis of the total investment and stockholders' investment are presented for American Steel \& Wire Co. for cach of the years 1925-38, together with a summary of its income, expenses and surplus for these years in tables 3.1 and 35 immediately following. During the period 1925 to 1938, inclusive, the average rates of return on total investment and stockholdcr's investment were 0.52 percent and 0.53 percent, respectively.

Rates of return were highest on both classes of investment during 1929 when 6.52 percent and 6.55 , respectively, were realized. Rates of return were lowest on both classes of investment during 1938 when losses 6.81 and 8.70 , respectively, were sustained.
Table 34.-Summary of investments, profits, and rates of teturn for the American Steel \& Wire Co., 1925-38

|  | A verage | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock-commo |  | \$54, 494, 100.00 | \$54, 494, 100.00 | \$50,513, 900. 00 | \$50, 513, 900.00 | $\$ 50,000,000.00$ | $\$ 50,000,000.00$ | $\$ 50,000,000.00$ |
| Capital stock-preferred |  | $40,000,000.00$ | 40, 000, 0000.00 | 40,000, 000.00 | $\begin{array}{r} 40,000,000.00 \\ 184,793.22 \end{array}$ |  |  |  |
| Premium on common stock |  | ${ }^{1} 1,886,864.74$ | 6,113,908.60 | 8, 429,000.06 | 9, 074, 902. 50 | 7,337,675.67 | 30, 586, 921.62 | $32,218,752.81$ |
| Surplus...- |  | -1, $342,011.56$ | -979,689.10 | $1,038,969.51$ | 12, $022,140.41$ | 13, 308, 973. 80 | 13, $754,889.41$ | 13,697,022. 48 |
| Surplus and con |  | 26,900, 000.00 | 27, 477, 154.02 | 16, 900, 000.00 | 16, 900, 000. 00 |  |  | 1,501, 000.00 |
| Total investmen |  | 120, 554, 338.50 | 129, 769, 943.40 | 117, 066, 662.79 | 128, 695, 736. 13 | 110,646,649. 47 | 134, 341, 811.03 | 137, 416, 77489 |
| A verage of total investment Net income applicable to to | $\begin{array}{r} \$ 150,421,341.00 \\ \$ 776,064.19 \end{array}$ | $\begin{array}{r} 125,162,141.00 \\ 18,520,879.42 \end{array}$ | $\begin{array}{r} 123,418,303.00 \\ 484,908.54 \end{array}$ | $\begin{array}{r} \hline 122,881,199.00 \\ 1593,153.52 \end{array}$ | $\begin{array}{r} 119,671,193.00 \\ 1877,033.86 \end{array}$ | $\begin{array}{r} 122,494,230.00 \\ 12,279,852.38 \end{array}$ | $\begin{array}{r} 135,879,293.00 \\ 11,218,300.16 \end{array}$ | $\begin{array}{r} 150,733,888.00 \\ 15,944,764.64 \end{array}$ |
| Rate of return on total investment (percent) <br> Total investment <br> Long-term debt | 0.52 | $\begin{array}{r} -6.81 \\ \$ 120,554,338.50 \\ 26,900,000.00 \end{array}$ | $\begin{array}{r} 0.39 \\ \$ 129,769,943.40 \\ 27,477,154.02 \end{array}$ | $\begin{array}{r} -0.48 \\ \$ 117,066,662.79 \\ 16,900,000.00 \end{array}$ | $\begin{array}{r} -0.73 \\ \$ 128,695,736.13 \\ 16,900,000.00 \end{array}$ | \$110, 646, 649.47 | $\begin{array}{r} -0.90 \\ \$ 134,341,811.03 \end{array}$ | $\begin{array}{r} -3.94 \\ \$ 137,416,774.89 \\ 1,501,000.00 \end{array}$ |
| Totalstockholders' investme |  | 93, 654, 338. 50 | 102, 292, 789. 38 | 100, 166,662. 79 | 111, 795, 736. 13 | 110, 646, 649.47 | 134, 341, 811.03 | 135, 915, 774. 89 |
| A verage of stockholders' in vestment | \$144, 623, 688.00 | 97, 973, 564. 00 | 101, 229, 726. 00 | 105, 981, 199.00 | 111, 221, 193. 00 | 122, 494, 230.00 | 135, 128, 793. 00 | 149, 195, 388. |
| Net income applicable to stockholders in restment. | 769, 976. 69 | 1 8, 520, 879. 42 | 484, 908. 54 | 1593, 153. 52 | ${ }^{1} 877,033.86$ | ${ }^{1} 2,279,852.38$ | ${ }^{1} 1,218,300.16$ | ${ }^{1} 5,944,764.64$ |
| Rate of return on stockholders' investment (percent) | 0. 53 | 18.70 | 0.48 | 1 0.56 | ${ }^{1} 0.79$ | 11.86 | 10.90 | 13.9 |

${ }^{1}$ Denotes loss.
Table 35.-Summary of income, expense, and surplus for the American Steel \& Wire Co., 1925-38

|  | Total | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales or net receipts | \$1, 510, 744, 439.02 | \$81, 514, 890.02 | \$130, 632, 155.00 | \$109, 942, 791.00 | \$89, 713, 176.00 | \$66, 965, 159.00 | \$66, 231, 192: 00. | \$18, 062, 401.00 |
| Cost of goods sold | $\begin{array}{r} 1,329,965,928.60 \\ 46,207,466.44 \end{array}$ |  |  |  |  | $\begin{array}{r} 59,645 ; 685.30 \\ 2,499,738.00 \end{array}$ | $\begin{array}{r} 58,224,838.96 \\ 2,798,700.34 \end{array}$ |  |
| Depreciation and depletion-1-.............. Distribution and administrative expenses.- | 46, 207, 466.44 $143,929,360.88$ | $\begin{array}{r} 3,926,609.49 \\ 12,066,307.39 \end{array}$ | $\begin{array}{r} 5,330,554.21 \\ 11,329,881.12 \end{array}$ | $\begin{aligned} & 5,511,477.82 \\ & 9,672,487.40 \end{aligned}$ | $\begin{aligned} & 3,345,047.07 \\ & 9,727,949.94 \end{aligned}$ | $\begin{aligned} & 2,499,738.00 \\ & 8,060,222.52 \end{aligned}$ | $\begin{aligned} & 2,798,706.34 \\ & 7,576,61.47 \end{aligned}$ | $\begin{aligned} & 2,564,865.75 \\ & 7,121,407.69 \end{aligned}$ |
| Total | 1, 520, 102, 755. 92 | 90, 507, 129.71 | 131, 260, 145. 66 | 111, 871, 694. 22 | 91, 813, 440. 31 | 70, 205.645.82 | 68, 600, 200. 77 | 54, 521, 346. 30 |
| Net operating profit Other income | $\begin{aligned} & 19,358,316.90 \\ & 20,223,215.51 \end{aligned}$ | $\begin{array}{r} 18,992,239.69 \\ 471,360.27 \end{array}$ | $\begin{array}{r} 1627,990.66 \\ 1,112,899.20 \end{array}$ | $\begin{array}{r} 1,928,903.22 \\ 1,335,749.70 \end{array}$ | $\begin{array}{r} 12,100,264.31 \\ 1,223,230.45 \end{array}$ | $\begin{array}{r} 13,240,486.82 \\ 960,634.44 \end{array}$ | $\begin{array}{r} 12,369,008.77 \\ 1,150,708.61 \end{array}$ | $\begin{array}{r} 16,458,945.30 \\ 514,180.66 \end{array}$ |
| Net income applicable to total $\ln$ vestment <br> Less interest on long-term debt | $\begin{array}{r} 10,864,898.61 \\ 85,225.00 \end{array}$ | ${ }^{1} 8,520,879.42$ | 484, 908. 54 | ${ }^{1} 593,153.52$ | $1877,033.86$ | ${ }^{1} 2,279,852.38$ | ${ }^{1} 1,218,300.16$ | ${ }^{1} 5,944,764.64$ |
| Net income applicable to stockholdcrs' investment <br> Less provision for Federal income and profit | 10, 779, 673.61 | ${ }^{1} 8,520,879.42$ | 484, 908. 54 | ${ }^{1} 593,153.52$ | ${ }^{1} 877,033.86$ | ${ }^{1} 2,279,852.38$ | ${ }^{1} 1,218,300.16$ | ${ }^{1} 5,944,764.64$ |
|  | 2, 962, 000.00 |  |  |  |  |  |  |  |
| Net income for year Surplus at beginning of year | $\begin{array}{r} 7,817,673.61 \\ 66,812,415.18 \end{array}$ | $\begin{array}{r} 18,520,879.42 \\ 6,113,908.60 \end{array}$ | $\begin{array}{r} 484,908.54 \\ 8,429,000.06 \end{array}$ | $\begin{array}{r} 1593,153.52 \\ 9,074,902.50 \end{array}$ | $\begin{array}{r} 1877,033.86 \\ 7,337,675.67 \end{array}$ | $\begin{array}{r} 12,279,852.38 \\ 30,586,921.62 \end{array}$ | $\begin{aligned} & \text { 1 } 1,218.300 .16 \\ & 32,218,752.81 \end{aligned}$ | $\begin{array}{r} 15,944,764.64 \\ 58,682,062.76 \end{array}$ |
| 'Total. <br> Less dividends | $74,630,088.79$ <br> $53,000,000.00$ | ${ }^{1} 2,406,970.82$ | $\begin{aligned} & 8,913,908.60 \\ & 2,800,000.00 \\ & \hline \end{aligned}$ | 8, 481, 748. 98 | 6, 460,641. 81 | $\begin{array}{r} 28,307,069.24 \\ 2,800,000.00 \\ \hline \end{array}$ | 31,000, 452.65 | $\begin{array}{r} 52,737,298.12 \\ 2.800,000.00 \end{array}$ |
| Total | 21,630, 088. 79 | ${ }^{1} 2,406,970.82$ | 6, 113, 908. 60 | 8,481, 748.98 | 6, 460,641.81 | 25, 507, 069. 24 | 31, 000, 452.65 | 49, 937, 298. 12 |
| Other net additions or deductions: <br> Adjustment of depreciation, amortization, and depletion. | ${ }^{2}$ 17,649, 261.70 |  |  |  | 11,170. 10 | 24, 328, 239. 45 |  | ${ }^{2} 13,812,603.31$ |
| Profit or loss on sale or retirement of capital assets. <br> Adjustment of write-offs | $25,528,478.13$ $2673,466.14$ |  |  |  |  | ${ }^{2} 360,961.14$ | 1 462, 717.23 |  |
| Adjustment of taxes..- | 2,939, 113.30 |  |  |  | 22, 357. 28 |  |  | 189, 289.81 |
| Write-off of intangibles. | ${ }^{2} 13,367,702.08$ |  |  |  |  | 2 13, 367, 702.08 |  |  |
| Transfers from appropriated surplus..- | 4, 074, 977. 35 |  |  |  | 4, 074, 977. 35 |  |  |  |
| erty | ${ }^{2} 4,045,907.50$ |  |  |  | - |  |  | 2 4,045, 907. 50 |
| Interest on tax adjustments.-- | 590, 634. 01 |  |  |  |  |  |  |  |
| Transferred from special inventory reserve. | \%,396,092. 73 |  |  |  |  |  |  |  |
| Other | 2, 747, 044.63 | 520, 106.08 |  | 2 52, 748.92 | 479.48 | 1112,490.90 | 49, 186. 20 | 2 $49,324.31$ |
| Total | ${ }^{2} 23,516,953.53$ | 520, 106.08 |  | ${ }^{2} 52,748.92$ | 2,614, 260. 69 | 2 18, 169, 393.57 | ${ }^{2} 413,531.03$ | ${ }^{2} 17,718,645.31$ |
| Surplus at end of year | ${ }^{2} 1,886,864.74$ | ${ }^{2} 1,886,864.74$ | 6,113, 908. 60 | 8,429,000, 06 | 9, 074, 902. 50 | 7,337,675.67 | 30, 586, 921.62 | 32, 218, 752.81 |



[^62]
## CARNEGIE-ILLINOIS STEEL CORPORATION

During 1935 Carnegie Steel Ca and the Illinois Steel Co., two important subsidiaries of United States Steel Corporation, were brought into a single operating organization under the name of Carnegie-Illinois Steel Corporation. The principal iron and steel producing plants of the Illinois Steel Co. were absorbed by the Carnegie-Illinois Steel Corporation. However, the Illinois Steel Co. continued to operate as a separate corporate entity. A corporate merger as of June 1, 1936, united the American Steel \& Tin Plate Co. with the Carnegie-Illinois Steel Corporation, the latter being the surviving corporation.

As of 1937 the plants of Carnegie-Illinois Steel Corporation had approximately 75 percent of the total rated pig-iron capacity and approximately 77 percent of the total rated annual steel-ingot capacity of the subsidiaries of the corporation. The more important manufacturing properties of this subsidiary are located at Gary, Ind.; South Chicago, Ill.; in an area near Pittsburgh, Pa.; and the Mahoning Valley in Ohio.

There is set forth below tables 36 and 37 which summarize investments, income, expenses, profits, and rates of return based on the total investment and stockholders' investment of the Carnegie-Illinois Steel Corporation for the years 1935 to 1938, inclusive.

The tables show that since 1935 Carnegie-Illinois Steel Corperation had only 1 year of profitable operations; namely, in 1937, when returns of 6.77 and 8.01 percent were earned, respectively, on the total investment and stockholders' investment. It will be noted that net profit applicable to total investment averaged only 0.32 percent for the 4 years, while a net loss equivalent to 0.11 percent was sustained on the stockholders' investment for the same years.

Table 36.-Summary of investments, profits, and rates of return for the CarnegieIllinois Steel Corporation 1935-98

|  | Average | 1938 | 1937 | 1936 I | 1935 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock-co |  | \$93, 368, 000.00 | \$93, 368, 000.00 | \$93, 368, 000.00 | \$75, 000, 000.00 |
| Capital surplus. |  | ${ }^{2} 184,972,680.82$ | 185, 037, 336.28 | 185, 046, 717. 53 | 153, 358, 670.00 |
| Surplus |  | 56, 405, 692. 52 | $79,475,156.39$ | 77, 372, 298. 15 | 14, 520, 441.92 |
| Surplus and contingency reserves |  |  |  |  | $73,850,000.00$ |
| Long-term debt <br> Reserve for Federal income and profits taxes. |  | 275, 700, 000.00 | 209, 323, 823. 26 | 100, 950,665. 14 | 100,785, 127.96 |
|  |  | 458,000.00 | $4,168,000.00$ | 71,704. 00 |  |
|  |  | 610,1904, 373.34 | 571, 372, 315.93 | 456, 764,384.82 | 417, 514, 239.88 |
| A verage of total investment... | \$489,965, 062.00 | 591, 138, 344.00 | 514, 068, 350.00 | 437, 139, 312.00 | 417, 514, 240.00 |
| Net income applicable to total investment | 1,561, 796.09 | ${ }^{3} 21,655,461.85$ | 34, 798, 351.31 | 85, 447.98 | ${ }^{8} 6,981,153.05$ |
| Rate of return on total investment (percent) | 0.32 | ${ }^{3} 3.66$ | 6. 77 | 0.02 | ${ }^{3} 1.67$ |
| Total investment | \$2,056,555,313.97 | \$610, 904, 373. 34 | 8571,372,315. 93 | \$456, $764,384.82$ | \$417,514,239. 88 |
| Long-term debt | $686,759,616.36$ | 275, 700, 000.00 | 209, 323, 823. 26 | 100, 950,665. 14 | $100,785,12 \% .96$ |
| vestment.-.............. | 1,369, 795, 697.61 | 335, 204, 373. 34 | 362, 048, 492. 67 | $355,813,719.68$ | 316, 729,111.92 |
| Average of stockholders' investment | 340, 139, 517.00 | $348,626,433.00$ | 358, 931, 106. 00 | 336, 271, 416.00 | 316, 729, 111.92 |
| Net income applicable to stockholders' investment | ${ }^{3} 366,551.38$ | ${ }^{3} 22,847,881.12$ | 28, 735, 6\%5.79 | 3 45, 028.52 | 3 7, 308.971.60 |
| Rate of return on stockholders' investment (percent)... | ${ }^{3} 0.11$ | ${ }^{3} 6.55$ | 8.01 | ${ }^{3} 0.01$ | 32.31 |

${ }^{1}$ As of June 1, 1936, the American Sheet \& Tin Plate Co. was absorbed by the Carnegie-Illinois Co.
2 Includes the following amounts:
Capital surplus through merger and other sources . . ............................................... $\$ 98,364,726.48$




${ }^{2}$ Denotes loss.

Table 37.-Summary of income, expenses, and surplus for the Carnegie-Illinois Steel Corporation, 1935-98


1 Denotes loss.
${ }^{2}$ Denotes red figures.

## CAKNEGIE STEEL CO.

The Carnegie Co. of New Jersey was formed in March 1900, as a reorganization and merger of the various Carnegie interests and the H. C. Frick Coke Co. On April 1, 1 §03, the Carnegie Co. of New Jersey, the National Steel Co., and the American Steel Hoop Co., which had been aequired by United States Stcel Corporation at its formation in 1901, were merged to form the Cernegie Steel Co. ${ }^{4}$ In 1935 Carnegie Steel Co. and Illinois Steel Co. were merged under a single operating organization under the name of Carnegie-Illinois Steel Corporation.

Tables 38 and 39 , set forth on the two following pages, summarize investments, profits, and rates of return, based on total investment and stockholders' investment of the Carnegie Steel Co. for the years 1925 to 1934, inclusive.

Rates of return for the Carnegie Steel Co. averaged 2.38 and 1.81 percent, respectively, on total investment and stockholders' investment during the years 1925-34. Rates of return were highest on both classes of investment during 1929, when 14.48 and 17.26 percent, respectively, were realized; and returns were lowest during 1933, when losses of 5.86 and 9.47 percent were sustained on total investment and stockholders' investment, respectivoly.

[^63]Table 38.-Summary of investments, profits, and rates of return for Carnegie Steel Co., 1925-34 ${ }^{1}$



[^64]Table 39.-Summary of income, expenses, and surplus for Carnegie Steel Co., 1925-3/1'



[^65]${ }_{2}$ Denotes deduction.

ILLINOIS STEEL CO.
The Illinois Steel Co. was organized in 1889 as a consolidation of the North Chicago Rolling Mill Co. (with plants at North Chicago, South Chicago, and Milwaikee), the Union Steel Co., and certain property of the Joliet Steel Co. ${ }^{1}$ In 1935 the principal iron and steel producing plants of the Illinois Steel Co. were merged with the Carnegie Steel Co. to form the Carnegie-Illinois Steel Corporation.

- Tables 40 and 41, which follow, summarize the investment, profits, and rates of return based on the total investment and stockholders' investment for the period 1925 to 1938. inclusive.

The operations of this company were more profitable during the period under review than for any other of the principal producing and fabricating subsidiaries of the Steel Corporation. During the years 1925-38, this company's net income was equivalent to 9.30 percent on the total investment and 13.84 percent on the stockholders' investment. Exceptional'y high returns were earned in each of the years 1925-29.: On the basis of total investment the returns during these years amounted to 23.52 percent in 1925; 30.13 percent in 1926; 22.80 percent in 1927; 27.47 percent in 1928 and 30.96 percent in 1929. Comparatively high returns, were also earned in 1930. In that year 10.15 percent was earned on the total investment. However, on this basis of investment losses were sustained in 1931, 1932, and 1933, and only moderate profits were earned thereafter.

[^66]Table 40.-Summary of investments, profits, and rates of return for Illinois Steel Co., 1925-38

|  | A verage | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock (common) |  | \$7,650,000.00 | \$18,650, 000.00 | \$18, 650, 000.00 | \$18, 650, 600.00 | \$18, 650, 600.00 | \$18, 650, 600.00 | \$18,650,600.00 |
| Appropriated surplus. |  |  |  |  |  | 12,000, 000. 00 | 12,000,000. 00 | 12,000,000. 00 |
| Capital surplus (paid in by stockhelders) |  | 188, 638.34 | 8, 109, 041. 48 | 7,957, 587, 38 | 6,181,979.25 | 5 50, 000,000.00 | 50,000,000. 00 |  |
| Surplus.................-...... |  | 677,024.38 | 8 $\quad 464,608.00$ |  |  | 42, 604, 705. 79 | 43, 284, 348. 32 | $49,526,734.20$ |
| Surplus and contingency reser |  | 10,010.68 | 505, 075.40 | 323, 051.69 | 2, 742, 454. 50 | 2, 253,542.50 | 2, 226, 357.00 | $2,496,439.41$ |
| Long-term debt........... |  | $24,203,000.00$ | 24, 203, 000.00 | 64, 453, 000. 00 | 70,647, 859. 56 | $688,003,000.00$ | 97, 203, 000.00 | $113,253,000.00$ |
| Reserve for Federal income and profits t |  |  |  |  |  | 65,000.00 |  |  |
| Total investme |  | 32, 728, 673.40 | 51, 931, 724.88 | 91, 888, 639.07 | 98, 222, 893.31 | $1213,576,848.29$ | 223, 364, 305. 32 | 195, 926, 773.61 |
| A verage (beginning and end of year) | 145, 436.506.00 | 42, 330, 199. 00 | 71, 910, 182.00 | 95, 055, 766. 00 | 155, 899, 870.00 | 218, 470, 576. 00 | 209, 645, 540.00 | 199, 506, 828.00 |
| Net income applicable to total investment | 13, 532, 451. 96 | 833, 798. 22 | 2, 017, 531. 32 | 1,549, 849.64 | 4 5, 667,991. 02 | 2 1,612, 238, 30 | 1 7, 451, 300.84 | ${ }^{1} 11,104,177.85$ |
| Rate of return on total investment (percent) | 9.30 | 22.728, 1.97 | (51.031, 724.81 | - 1.63 | - 3.64 |  | 4 213.55 | 1195, 1596.57 |
| Total investment |  | 32,728, 673.40 | 51,931, 724.88 | $91,888,639.07$ | 98, 222, 893.31 | $1.213,576,848.29$ | 223, 364, 305. 32 | $195,926,773.61$ $113,253,000.00$ |
| Long-term debt |  | 24, 203, 00000 | 24, 203, 000. 00 | 64, 453, 000.00 | 70,647, 859.56 | 6) 88, 003,000.00 | -97, 203,000.00 | $113,253,000.00$ |
| Total stockholders' investment |  | $8,525,673.40$ | 27, 723, 724.88 | $27,435,639.07$ | 27, 575, 033. 75 | $5125,573,848.29$ | , 126, 161, 305. 32 | 82, 673, 773. 61 |
| A verage of stockholders' investment | 82,066,331.00 | 18, 127, 199.00 | 27, 582, 182.00 | 27, 505, 336.00 | 76,574, 441.00 | 125, 867, 577.00 | [104, 417, 539. 00 | $90,178,828.00$ |
| Net-income applicable to stockholders' investment | 11,356, 404.00 | 1,298. 22 |  |  | 4,222,603. 73 | . 1, 217, 660. 40 | ${ }^{1} 10,356,244.06$ | ${ }^{1} 14,020,039.47$ |
| Rate of return on stockholders' investment (percen | 13.84 |  |  |  | 5. 51 | 1.1 .97 | $7 \quad 19.92$ | 115.55 |
|  | . 1931 | 1930 | 1929 | 1928 | 1927 | 1926 | 1925 | 1924 |
| Capital stock (common) | \$18, 650, 600. 00 | \$18,650, 600.00 | \$18, 650, 600. 00 | \$18, 650, 600.00 | \$18, 650, 600.00 | \$18, 650, 600.00 | \$18,650,600.00 |  |
| Appropriated surplus | $12,000,000.00$ | $12,000,000.00$ | 12,000,000. 00 | $12,000,000.00$ | $12,000,000.00$ | $12,000,000.00$ | $12,000000.00$ |  |
| Surplus. | 63, 892, 460.99 | 74, 631, 898.48 | $61,822,170.57$ | $50,813,747.23$ | 49, 263. 702. 27 | $50,016,805.56$ | 38, 792, 220. 97 |  |
| Surplus and contingency reser | $3,140,821.00$ | $3,549,717.25$ | 11, 853, 388.02 | 11, 824, 021. 73 | 11, 530, 433. 51 | 11, 711, 829. 50 | 15, 320, 911.16 |  |
| kong-term debt | 105, 403, 000.00 | 61,900,000.00 | $39,203,000.00$ | $39,203,000.00$ | $49,031,170.32$ | 49, 031, 170.32 | 49, 031, 170.32 |  |
| Reserve for Federal income and proflts taxes |  | 1,200,000. 00 | $2,240,000.00$ | $2,600,000.00$ | 1,800,000.00 | $3,500,000.00$ | 2,612,000.00 |  |
| Total investmen | 203, 086, 881.99 | 171, 932, 215. 73 | 145, 769, 158. 59 | 135, 091, 368.96 | 142, 275, 906. 10 | 144, 910, 405.38 | 136, 406, 902.45 | \$130, 725, 456.01 |
| A verage (beginning and end of year) | 187, 509, 549.00 | 158, 850, 688.00 | 140, 430, 264.00 | 338, 683, 638.00 | $143,593,156.00$ | 140, 658, 654.00 | 133, 566, 179.00 |  |
| Net income applicable to total investment | ${ }^{1} 7,884,962.93$ | 16, 124, 933.37 | 43, 480, 573.08 | 38, 094, 949.13 | 32, 735, 384. 12 | 42, 376, 801.36 | 31, 410, 706. 57 |  |
| Rate of return on total lnvestment (percent) | 14.21 | 10.15 | 30.96 | 27.47 | ${ }^{1}$ 22.80 | 30.13 | 23. 52 |  |
|  | 203, 086, 881.99 | 171, $832,215.73$ | 145, 769, 158. 59 | 135, 091, 368.96 | 142, 275, 906. 10 | 144, 910, 405.38 | 136, 406, 902. 45 | 130, 725, 456. 01 |
| Long-term debt | 105, 403, 000.00 | 61,900, 000. 00 | $39,203,000.00$ | $39,203,000.00$ | $49,031,170.32$ | 49, 031, 170. 32 | 49, 031, 170. 32 | $49,031,170.32$ |
| Total stockholders' iurvestment | 9., 683, 881. 99 | 110, 032, 215.73 | 106, 566, 158.59 | 95, 888, 368. 96 | 93, 244, 735. 78 | $95,879,235.06$ | 87, 375, 732. 13 | 81, 694, 285, 69 |
| Average of stockholders' investment | $103,858,049.00$ | 108, 299, 187.00 | 101, 227, 264.00 | $94,566,552.00$ | $94,561,985.00$ | 91, 627, 484.00 | $84,535,009.00$ |  |
| Net licome applicable to stockholders' investment | ${ }^{1} 10,273,440.39$ | $15,035,798.37$ | 41, 348, 313.08 | $35,534,152.57$ | 30, 155, 384.12 | $39,796,012.84$ | 28, 763, 482.07 |  |
| Rate of return on stockholders' investment (percent) | 19.89 | 13.88 | 40.85 | $37.58$ | 31.89 | 43. 43 | 34.02 |  |

${ }^{1}$ Denotes loss.
Table 41.-Summary of income, expenses, and surplus for Illinois Steel Co., 1925-38

|  | Total | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$1, 462, 969, 307. 47 | \$7, 289.72 | \$9, 810, 611.44 | \$9, 466, 915.75 | \$75, 603, 747.00 | \$75, 310, 967.00 | \$57, 345, 831.00 | \$35, 923, 256.00 |
| Less cost of goods sold | 1,161, 116,010. 55 |  |  |  | 64, 952, 625. 93 | $68,623,760.10$ | 55, 402, 019. 42 | 34, 859, 265. 03 |
| Depreciation and depletion | 83, 795, 817. 24 | 225, 211.94 | 5, 903, 966. 49 | 6, 120, 019.91 | 6, 387, 462.79 | 7, 653, 072.45 | $6,682,101.77$ | 5, 046, 745. 56 |
| Distribution of administrative expenses and $t$ | 82, 173, 359.71 | 110, 188. 15 | 2,667, 193, 69 | 1,954, 775. 37 | 4, 887, 270.74 | 3, 982, 320.55 | 4,411, 019.69 | 9, 465, 793.60 |
| Tota | 1,327, 085, 187. 50 | 335, 400.09 | 8,571,160.18 | 8, 074, 795. 28 | 76, 227, 359.46 | 80, 259, 143.10 | $66,495,140.88$ | 49, 371, 804. 16 |
| Net income from operations Other ineome | $\begin{array}{r} 135,884,119.97 \\ 53,570,193.54 \end{array}$ | $\begin{aligned} & 1342,689.81 \\ & 1,176,488.03 \end{aligned}$ | $\begin{array}{r} \hline 1,239,451.26 \\ 778,080.06 \end{array}$ | $\begin{array}{r} 1,392,120.47 \\ 157,728.17 \end{array}$ | $\begin{array}{r} 1623,612.46 \\ 6,291,603.48 \end{array}$ | $\begin{array}{r} 14,948,176.10 \\ 6,560,414.40 \end{array}$ | $\begin{array}{r} 19,149,309.88 \\ 1,698,009.04 \end{array}$ | $\begin{array}{r} 1 \mathrm{j} 3,448,548.16 \\ 2,344,370.31 \end{array}$ |
| Net income applicable to total investm Less interest on long-term debt. | $\begin{array}{r} 189,454,313.51 \\ 30,464,652.83 \end{array}$ | $\begin{aligned} & 833,798.22 \\ & 832,500.00 \end{aligned}$ | $\begin{aligned} & 2,017,531.32 \\ & 2,017,531.32 \end{aligned}$ | $\begin{aligned} & 1,549,8^{\prime} 8.64 \\ & 1,549,848.64 \end{aligned}$ | $\begin{aligned} & 5,667,991.02 \\ & 1,445,387.29 \end{aligned}$ | $\begin{aligned} & 1,612,238.30 \\ & 2,829,898.70 \end{aligned}$ | $\begin{array}{r} 17,451,300.84 \\ 2,904,943.22 \end{array}$ | $\begin{array}{r} 111,104,177.85 \\ 2,915,861.62 \end{array}$ |
| Net incoms applicable to stockholders' investment...Less proviston for Federal ineome and profits taxes.... | $\begin{array}{r} 158,989,660.68 \\ 13,952,000.00 \end{array}$ | 1,298. 22 |  |  | 4, 222, 603. 73 | ${ }^{1} 1,217,660.40$ | ${ }^{1} 10,356,244.06$ | ${ }^{1} 14,020,039.47$ |
| Net urome for year Surplige at beginning of y | $\begin{array}{r} 145,037,660.68 \\ 34,920,457.33 \end{array}$ | $\begin{array}{r} 1,298.22 \\ 464,608.00 \end{array}$ |  |  | $\begin{array}{r} 4,222,603.73 \\ 42,604,705.79 \\ \hline \end{array}$ | $\begin{array}{r} 11,217,660.40 \\ 43,284,348.32 \end{array}$ | $\begin{array}{\|r} 110,356,244.06 \\ 49,526,734.20 \end{array}$ | $\begin{array}{r} 114,020,039.47 \\ 63,897,460.99 \end{array}$ |
| Total... <br> Less dividends | $\begin{aligned} & 179,958,118.01 \\ & 187.707,607.41 \end{aligned}$ | $\begin{aligned} & 465,906.22 \\ & 1,305,806.86 \end{aligned}$ |  |  | $\begin{aligned} & 46,827,309.52 \\ & 33,466,850.55 \end{aligned}$ | 42,066, 687.92 | 39, 170, 490.14 | 49,872, 421. 52 |
| Total | 27,749, 489.40 | 2839, 906.64 |  |  | 13, 360, 428.97 | 42, 066, 687. 92 | 39, 170, 490.14 | 49, 872, 421.52 |
| Other net additions or deduetions: Transfer of contingent reserve | 1,623, 977.60 | 580, 582.37 | 618,658. 04 |  | 424, 737. 19 |  |  |  |
| Transfer of operating reserve, hospital and fire insurance. | 1,527,035.64 | 1,023,373.18 | 68,68.01 |  | 103, 662. 46 |  |  | 400,000.00 |
| Adjustment for Federal taxes | 7,246, 142. 18 |  |  |  | ${ }^{2} 183,568.43$ |  | 267,378.00 |  |
| Adjustment of surplus and surplus reserve | 4,945, 909.39 |  |  |  | 3,093, 383.34 |  | 2, 401, 880.66 | ${ }^{2} 549,354.61$ |
| Transfer to surplus appropriated for and inventory in eapital expenditures | ${ }^{2} 16,906,149.42$ |  |  |  | ${ }^{2} 16,906,149.42$ |  |  |  |
| Adjustment of eounty taxes.- | $731,281.60$ |  |  |  | 107, 505.89 | $523,456.90$ |  | 100, 318.81 |
| Adjustment of depreciation. | $24,261,940.42$ |  |  |  |  |  | 24, 261,940.42 |  |
| Adjustment of investments | 5, 285, 179. 14 |  |  |  |  |  | 5, 285, 179.14 |  |
| Adjustment of eapital sto | ${ }^{2}$ 67, 378.00 |  |  |  |  |  | $267,378.00$ |  |
| Adjustment of interest. | ${ }^{2} 2966,651.52$ |  |  |  |  |  |  | 296,651. 52 |
| Miscellaneous | $8,148,563.50$ 3 $387,511.68$ | 287,030. 53 | ${ }^{2}$ 154, 050.04 |  |  |  |  |  |
| Total | 8, 426, 513.78 | 1,516,925.02 | 464,608.00 |  | 213,380, 428.97 | 533, 017.87 | 4,113.858.18 | ${ }^{2} 345.687 .32$ |
| Surplus at end of year | 677,024. 38 | 677,024.38 | 464, 608.00 |  |  | 42, 604, 705. 79 | 43, 284, 348. 32 | 49, 526.734. 20 |



## COLUMBIA STEEL CO.

This company was organized by the United States Steel Corporation in 1930, as the result of the purchase of the properties, assets, and business of the Columbia Steel Corporation. This latter corporation was incorporated in Delaware in 1922 for the purpose of carrying on a completely integrated steel business from ore to finished product. In return for the assets and business of the Columbia Steel Corporation valued at not less than $\$ 41,370,000$, the United States Steel Corporation issued 251,771 shares of common stock of $\$ 100$ par value per share. The market price of the stock so issued by the United States Steel Cbrporation reflects substantially the value of the properties acquired in this exchange.

The business and resources of the Columbia Steel Co. are located primarily in the Pacific coast region; its works being located at Ironton, Utah; and Pittsburg, Los Angeles, and San Francisco, Calif. It produces iron ore, steel ingots, castings, blooms billet, structural shapes, bars, rods, nails, fences, and other steel products.

Tables 42 and 43, immediately following, summarize investments, profits and rates of return on total investment and stockholders' investrnent for the period 1930 to 1938, inclusive.

Returns on the total investment and stockholders' investment average 1.79 and 1.81 percent, respectively, during the years 1930-38. On both basis of investment, returns were highest in 1936 and 1937 and lowest in 1931. For example, on the total investment, earnings in 1936 and 1937 were equivalent to 6.22 and 5.96 percent, respectively, and in 1932, losses were sustained equivalent to 2.45 percent.

Table 42.-Summary of investments, profits, and rates of return for the Columbia Steel Co., 1930 1-98

|  | A verage | 1938 | 1937 | 1936 |
| :---: | :---: | :---: | :---: | :---: |
| Capital stock, common |  | \$32, 000, 000.00 | \$32,000, 000.00 | \$32,000,000 00 |
| Premium on capital stock |  | 19,861, 886.74 | 19, 861, 886.74 | 19, 861, 886.74 |
| Surplus.------ |  | 346, 970.51 | 377, 559. 72 | 186, 869.31 |
| Surplus and contingency reser |  | 100, 294.04 | 110,751. 10 | 122, 203. 41 |
| Long-term debt |  | $3,000,000.00$ | 4, 043, 364.89 | 20,000.00 |
| Reserve for Federal income and profit tax. |  | 136,648.09 | 512, 180. 23 | 527, 121.27 |
| Total investment |  | 55, 445, 799. 38 | $56,905,742.68$ | 52, 718, 080.73 |
| A verage of total investment | \$52, 244, 224. 00 | $56,175,771.00$ | $54,811,912.00$ | 52, 780, 107.00 |
| Net income applicable to total investment | \$934, 747.20 | 918,825. 52 | 3, 267, 237.25 | 3, 284, 275.91 |
| Rate of return on total investment percent - | 1.79 | 1.64 | 5.96 | 6.22 |
| Total investment |  | $\$ 55,445,799.38$ | $\$ 56,905,742.68$ | $\$ 52,718,080.73$ |
| Long-term debt |  | $3,000,000.00$ | $4,043,364.89$ | $20,000.00$ |
| Total stockholders' investment |  | 52, 445, 799.38 | 52, 862, 377. 79 | 52, 698, 080.73 |
|  | \$51, 583, 711.00 | $52,654,089.00$ | 52, 780, 229.00 | $52,755,107.00$ |
| Net income applicable to stockholders' investment | \$932, 036.45 | 768,825. 52 | 3,267, 237. 25 | 3, 284, 275.91 |
| Rate of return on stockholders' lnvestment percent | 1.81 | 1.46 | 6.19 | 6.23 |

${ }^{1}$ July 1 to Dec. 31, 1930.

Table 42.-Summary of investments, profits, and rates of return for the Columbia Steel Co., 1980-38-Continued

${ }^{2}$ July 1 to Dec. 31, 1830.
${ }^{2}$ Denotes deduction.
${ }^{3}$ Investment July 1, 1930.

- Net income July 1' to Dec. 31, 1930.

Table 43.-Summary of income, expense, and surplus for the Columbia Steel Co., 1930 ㄴ -38

|  | Total | 1938 | 1937 | 1836 |
| :---: | :---: | :---: | :---: | :---: |
| Net sales | \$155, 443, 581. 72 | \$24, 974, 650. 72 | \$31, 208, 252.00 | \$29, 411, 922.00 |
| Cost of goods sold | 122, 344, 653. 49 | 20, 436, 224. 90 | $23,451,590.47$ | 22, 506, 318.31 |
| Distributive and administrative expense <br> Depreciation and depletion | 18, 653, 015.00 | 3, 022, 022.14 | 3, 635, 708. 85 | 2, 739, 905.88 |
|  | $7,117,351.83$ | 1,088, 312.62 | 924, 454. 51 | 970, 040.60 |
| Total operating expense <br> Net operating profit <br> Other income <br> Net income applicable to total investment. <br> Less interest on long term debt | $148,115,020.47$ | 24, 546, 559.66 | 28, $011,753.83$ | 26, 216, 264.79 |
|  | 7, 328, 561. 25 | $428,091.06$ | 3, 196, 498. 17 | 3, 195, 657. 21 |
|  | 1,084, 163.58 |  |  | 88, 618. 70 |
|  | 8, 412, 724.83 | $918,825.52$ | 3, 207, 237.25 | 3, 284, 275. 91 |
|  | $150,000.00$ | 150,000.00 |  |  |
| Net income applicable to stockholders' investment <br> Less Federal income and excess-profit tax. | 8, 262, 724.83 | 768, 825.52 | 3, 267, 237. 25 | 3, 284, 275.91 |
|  | 1,688, 328.58 | 136, 648.09 | 512, 180). 23 | 527, 121. 27 |
| Net inoome for year. <br> Surplus at beginning of year | 6, 574, 396. 25 | 632, 177. 43 | 2, 755, 057. 02 | 2, 757, 154.64 |
|  | 125, 603. 24 | 377, 559.72 | 186, 869.31 | $639,425.19$ |
| Total <br> Less dividends <br> Total <br> Net additions or deductions <br> Surplus at end of year | 6, 699, 999. 49 | 1,009, 737. 15 | 2,941,926. 33 | 3, $396,579.83$ |
|  | $6,480,000.00$ | $720,000.00$ | 2,560,000. 00 | $3,200,000.00$ |
|  | 219, 999.49 | 289, 737. 15 | 381, 926. 33 | 196, 579.83 |
|  | 126, 971.02 | 57, 233. 36 | ${ }^{2} 4,366.61$ | ${ }^{2} 9,710.52$ |
|  | 346, 970. 51 | 346, 970. 51 | 377, 559. 72 | 186, 869.31 |
|  |  | 1835 | 1934 | 1933 |
| Net sales |  | \$22, 676, 004.00 | \$15, 095, 347.00 | \$13, 802, 574.00 |
| Cost of goods sold <br> Distributive and administrative expen |  | 17, 753, 481.99 | 11, 413, 955. 79 | 11, 161, 742.87 |
|  |  | 2, 194, 324. 72 | $1,865,887.24$ $849,623.80$ | 1, 551, 329.10 |
| Depreciation and depletion <br> Total operating expense |  |  |  |  |
|  |  | 20, 849, 001.71 | 14, 129, 466.83 | 13, 528, 470. 79 |
|  |  | 1,827, 002. 29 | $965,880.17$ | 274, 103. 21 |
| Net operating profit Other income. |  | 72, 874.47 | 81,617.08 | 53, 262.05 |
| Net income applicable to total investment. Less interest on long term debt |  | 1,899, 876. 76 | 1, 047, 497. 25 | 327, 365.26 |
|  |  |  |  |  |
| Net income applicable to stock holders' investment <br> Less Federal income and excess profit tax |  | $1,899,876.76$ | $1,047,497.25$ | 325, 365.26 |
|  |  | $271.849 .09$ | $240,529.90$ |  |
| Net income for year <br> Surplus at beginning of year |  | 1,628,027.67 | 806. 967.35 | 327, 365.26 |
|  |  | ${ }^{2} 1,012,179.87$ | ${ }^{3} 1,820,585.84$ | ${ }^{2} 2,143.571 .57$ |
| Total <br> Less dividends |  | 615, 847.80 | ${ }^{2} 1,013,618.49$ | ${ }^{2} 1,816,206.31$ |
| Total <br> Net additions or deductions |  | 615, 847.80 | ${ }^{2} 1,013,618.49$ | ${ }^{2} 1,816,206.31$ |
|  |  | 23, 577.39 | 1, 438.62 | ${ }^{2} 4.379 .53$ |
| Surplus at end of year |  | $639,425.19$ | ${ }^{2} 1,012,179.87$ | ${ }^{2} 1,820,585.84$ |

[^67]Table 43.-Summary of income, expense, and surplus for the Columbia Steel Co., 1930-98-Continued

|  | 1932 | 1931 | 1930 ' |
| :---: | :---: | :---: | :---: |
| Net sales. | \$7, 790, 743.00 | \$10, 484, 089.00 | \$14, 249, 436.00 |
| Cost of goods sold. | 6, 706, 252. 43 | 8, 917, 084.73 | 12, 601, 560.27 |
| Distributive and administrative expense | 16, 46, 233. 92 | 1, 997, 603. 30 | 1, 129, 917. 14 |
| Depreciation and depletion-.......- | 616,468.15 | 949, 860. 33 | 475, 413.58 |
| Total operating expense | 8,968,954. 50 | 11, 864, 548. 36 | 14, 206, 890. 99 |
| Net operating profit | ${ }^{2} 1,178,211.50$ | ${ }^{2} 11,380,459.36$ | 42,545. 01 |
| Other income | 105, 179.52 | 121, 138. 22 | 83, 058.23 |
| Net income applicable to total investment. | ${ }^{2} 1,073,031.98$ | ${ }^{2} 1,258,321.14$ | 125, 603. 24 |
| Less interest on long-term debt |  |  |  |
| Net income applicable to stock holders' investment - | 2 1,073, 031.98 | - 1, 259, 321. 14 | 125.603. 24 |
| Net lncome for year | ${ }^{2} 1,073,031.98$ | ${ }^{2} 1,259,321.14$ | 125,603. 24 |
| Surplus at beginning of year | ${ }^{\text {? }} 1,256,494.08$ | 125. ¢n3. 24 |  |
| Total. | ${ }^{2} 2,329,526.06$ | ${ }^{2} 11,133,717.90$ |  |
| Less dividends |  |  |  |
| Otal | ${ }^{2}$ 2, 329, 526. 06 | ${ }^{2} 11,133,717.90$ |  |
| Net additions or deductions | 185, 954. 49 | 2 122, 776. 18 |  |
| Surplus at end of year | ${ }^{2} 2,143,571.57$ | ${ }^{2} 1,256,494.08$ | 125, 603. 24 |

' July 1 to Dec. 31, 1930.
${ }^{2}$ Denotes deduction.

## National Tube Co.

The National Tube Co. was organized in 1899 and commenced business on July 1 of that year. It was acquired by the United Steel Corporation in 1901.

The principal plants of the National Tube Co. are located at Lorain, Ohio, and at McKeesport. Versailles, and Christy Park. Pa. The company produces large quantities of coke, iron, steel, ingots, tubular goods, and various other products.

Tables 44 and 45 , which follow, summarize investments, profits, and rates of return based on the total investment and stockholders' investment for the period 1925 to 1938, inclusive.

The tables show that during the years $1825-38$, rates of return on total investment and stockholders' investment were 4.67 and 5.62 percent, respectively. Again rates of return were highest in 1929 and lowest in 1932. In 1929 the company's net income was equivalent to 13.98 pereent on the total investment and 16.96 percent on the stockholders' investment. During 1932 losses were sustained equivalent to 2.50 percent on the total investment and 3.38 percent on the stockholders' investment.
Table 44.-Summary of investments, profits, and rates of return for National Tube Co., 1925-38

|  | A verage | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  | \$45 | \$45, 000, 000.00 | \$45,000,000.00 | \$45, 000, 000.00 | \$45, 000, 000.00 | \$45, 000, 000. 00 |
| Preferred |  | 40,000,000. 00 | 40,000,000.00 | 40,000,000.00 | $40,000,000.00$ | 40, 000, 000. 00 | 40, 000, 000. 00 | $40,000,000.00$ |
| Appropriated surplus |  |  |  |  | $2,500,000.00$ $13,313,503.10$ | $2,500,000.00$ $13,313,503.10$ | $2,500,000.00$ $13,313,503.10$ | - 2, 500,000.00 |
| Capital surplus. |  | $13,313,503.10$ | 13, 834, 602. 88 | 13,872, 149.95 | 16, 712, 126. 50 | 32, $573,359.29$ | 35, $066,176.49$ | 42, 846, 621.45 |
| Surplus.. |  | 4, $844,703.21$ | , 743, 657.30 | 1, $545,481.55$ | 16, 376, 401.73 | 23, $233,793.98$ | 321, 926.95 | -329, 127.00 |
| Reserve for Federal income and profit taxes |  |  | 2, 010, 995. 33 | 910.353 .00 |  | 70, 961.84 |  |  |
| Long term debt................................. |  | 57, 322, 304. 89 | $63,000,000.00$ | $63,000,000.00$ | 62, 187, 507. 44 | 64, 922, 443. 59 | 64, 922, 443.59 | 46, 488, 706. 25 |
| Total investment |  | 160, 767, 787. 80 | 167, 902, 758. 61 | 164, 641, 487. 60 | 180, 089, 538.77 | 198, 617, 061.80 | 201, 124, 050. 13 | 190, 477, 957. 80 |
| A verage of total investment | \$177, 653, 773.00 | 164, 335, 273.00 | $166,272,123.00$ | $172,365,514.00$ | 189, 353, 301. 00 | 199, 870, 5556.00 | 195, 801, 004.00 | $192,450,496.00$ |
| Net income applicable to total invest ment.... | 8,290, 996.99 | $2,813,836.49$ 1.71 | $15,960,633.22$ 9.60 | $9,490,426.51$ 5.51 | 2, 898, 932.111 | $109,666.27$ 0.05 | 1 $2,169,585.98$ 11.11 | $14,813,939.90$ 12.50 |
| Rate of return on total investment.-.-percent.- |  |  |  |  |  |  |  |  |
| Total investment | \$2.488,419,788. 63 | \$160, 767, 787. 80 | \$167, 902, 758. 61 | \$164, 641, 487. 60 | \$180, 089, 538. 77 | \$198, 617, 061.80 | \$201, 124, 050. 13 | \$190, 477, 957. 80 |
| Long-term debt | 649, 718, 031.14 | 57, 322, 304. 89 | $63.000,000.00$ | 63, 000, 000.00 | 62, 187, 507. 44 | 64, 922, 443.59 | 64, 922, 443. 59 | 46, 488, 706.25 |
| Total stockholders' investment | 1,838, 701, 757.49 | 103, 445, 482.91 | 104, 902, 758.61 | 101, 641, 487. 60 | 117, 902, 031. 33 | 133, 694, 618.21 | 136, 201, 606.54 | 143, 989, 251.55 |
| A verage of stockholders' investment. | 132, 189, 376.00 | 104, 174, 121.00 | 103, 272, 123.00 | 109, 771, 759.00 | 125, 798, 325. 00 | 134, $948,112.00$ | 140, 095, 429.00 | 145, 934, 593.00 |
| Net income applicable to stockholders' investment | 7, 429, 890. 80 | 491, 531. 60 | 12, 960, 633. 22 | 6, 490, 426.51 | 711, 424.67 | - $-1,188,782.69$ | ${ }^{1} 2,293,198.72$ | ${ }^{1} 4,937,552.64$ |
| Rate of return on stockholders' investment $\begin{gathered}\text { percent.- }\end{gathered}$ | 5. 62 | 0.47 | 12.55 | 5.91 | 0. 57 | 10.88 | 11.64 | 13.38 |


|  | 1931 | 1930 | 1929 | 1928 | 1927 | 1926 | 1925 | 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  | \$45, 000, 000.00 | \$45, 000, 000.00 | \$45,000, 000. 00 |  |
| Common | \$45, 000, 000.00 | $\$ 45,000,000.00$ $40,000,000,00$ | \$45, $40000,000.00$ | $\$ 45,00,000.00$ $40,000,000.00$ | $\$ 4$, $40,000,000.00$ | 40, 000, 000.00 | 40.000,000.00 |  |
| Preferred | $40,000,000.00$ $2,500,000.00$ | $40,000,000.00$ 2, 500, 000.00 | $40,000,000.00$ $2,500,000.00$ | $40,000,000.00$ $2,500,000.00$ | 2, 500, 000.00 | 2, 500, 000.00 | 2,500,000. 00 |  |
| Appropriated surplus | $2,500,000.00$ $13,313,503.10$ | 13, $313,503.10$ | $13,313,503.10$ | 13, 313, 503.10 | 13, 313. 503. 10 | 13, 313. 503. 10 | 13, 313, 503. 10 |  |
| Capital surplus. | 46, 534, 792.36 | 53, 580, 714. 42 | 47, 544, 051.85 | 37, 764, 520.87 | 35, 010. 159.96 | 32, 481, 034. 68 | $27.546,873.61$ |  |
| Surplus and contingency reserves | 531, 638.38 | 623, 762.75 | 652.706. 70 | 736,224. 10 | $565,154.86$ | 483, 987. 84 | 437, 453. 07 |  |
| Reserve for Federal income and profit taxes |  | $750,000.00$ | $1,405,000.00$ | 1, 000, 000.00 | 1.025, 000.00 | 1,750, 000. 00 | $806,923.59$ $29.776,056.82$ |  |
| Long-term debt.-.----- | 46, 543, 098.96 | 29, 764, 897.18 | 31, 205, 805.27 | 30, 744, 525. 43 | 30, 158, 912.97 | 29, 681, 328.75 | 29, 776.056. 82 |  |
| Tontal investment | 194, 423, 032. 80 | 185, 532, 877.45 | 181, 621,066. 92 | 171, 058, 773. 50 | $167,572,730.89$ | $165,209,854.37$ | $159,380.810 .19$ | \$158, 233, 848. 81 |
| A verage of investment. | 189, 977, 955.00 | 183, 576, 972.00 | 176, 339, 921.00 | $169,315,753.00$ | 166, 391, 293. 00 | $162,295,332.00$ | $158.807 .330 .00$ |  |
| Net income applicable to total investment | $13,868,489.26$ 12.04 | $8,196,784.15$ 4.47 | $24,660,403.37$ 13.98 | $12,951,981.46$ 7.65 | $13,205,277.78$ 7.94 | $18,530,276.17$ 11.42 | $18,107,755.52$ 11.40 |  |
| Total investment | \$191, 423, 032. 80 | \$185, 532, 877.45 | \$181, 621, 066.92 | \$171, 058, 773. 50 | \$167, 572, 730.89 | \$165, 209, 854.37 | \$159, 380. 810.19 | \$158, 233, 848. 81 |
| Long-term debt.- | 46, 543, 098. 96 | 29, 764, 897.18 | 31, 205, 805. 27 | 30, 744, 525.43 | 30, 158, 912. 97 | 29,681, 328. 75 | 29, 776, 056. 82 | 30, 889, 387.05 |
| Total stockholders' investment | 147, 879, 333.84 | 155, 767, 980. 27 | 150, 415, 261. 65 | 140. 314, 248.07 | 137, 413, 817.92 | 135, 528.525. 62 | $\begin{aligned} & 129,604,753.37 \\ & 128.474,618.00 \end{aligned}$ | 127, 344, 481. 76 |
| A verage of stockholders' in vestment ...--..... | 151, 823, 957.00 | 153, 091, 621.00 | $145,364,755.00$ | $138.864,033.00$ | 136, 471, 172.00 | $132,566,639.00$ | 128, 474, 618.00 |  |
| Net income applicable to stockholders invest-, ment | ${ }^{1} 3,868.459 .26$ | 8, 196, 781.15 | $24,660,403.37$ | 12.951, 981.46 | $13.205,277.78$ | 18, 530, 276. 17 | 18, 107, 755. 52 |  |
| Rate of return on stcckholders' investment | 12.55 | 5. 35 | 16.96 | 9.33 | 9. 68 | 13.98 | 14.09 |  |

1 1) enotes loss.
Table 45.-Summary of income, expenses, and surplus for National Tube Co., 1925-38

\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \& Total \& 1938 \& 1937 \& 1936 \& 1935 \& 1934 \& 1933 \& 1932 \\
\hline Net sales \& \$1, 346, 619, 017. 69 \& \$59, 498, 014.69 \& \$110, 759, 924.00 \& \$83, 511, 559. \(\mathrm{C0}\) \& \$56, 256,034.00 \& \$49, 299, 239,00 \& \$33, 769, 604.00 \& \$26, 773.587.00 \\
\hline Less: \& 1, 080, 648, 4-29.83 \& 47, 881, 155. 78 \& 80, 313, 964. 88 \& 6fi, 161.600. 99 \& 46, 356, 393. 09 \& 02 \& 8, 265.02 \& 40 \\
\hline Depreciation and depletion \& 38, 684, 585. 16 \& 3, 416, 630. 25 \& 5, 287, 930.00 \& 5, 083, 769.82 \& 3, 231, 327.38 \& 3, 106, 556.85 \& 2, 925, 037.80 \& 2, 390, 376. 96 \\
\hline Distribution, adininisiratiro exp
taxes computed \& 120, 354, C89. 06 \& 5, 616, 214.07 \& 10, 095, 239. 60 \& 5,250, 410. 85 \& 4, 278, 861.57 \& 3, 931, 279. 32 \& 3, 528, 109.77 \& 4, 855, 555. 76 \\
\hline Tota \& 1,239, 687, 104. 05 \& 56, 914, 000. 10 \& 95, 697, 134. 48 \& 74, 495, 781. 66 \& 53, 866, 582. 04 \& 49, 498, 398. 19 \& 36, 391, 412.59 \& 31, 954, 199.12 \\
\hline Net income from Other income. \& \[
\begin{array}{r}
106,931,913.64 \\
9,142,044.27
\end{array}
\] \& \[
\begin{array}{r}
2,584,014.59 \\
229,821.90
\end{array}
\] \& \[
\begin{array}{r}
15,062,789.52 \\
\quad 897,843.70
\end{array}
\] \& \[
\begin{array}{r}
9,015,777.34 \\
474,649.17
\end{array}
\] \& \[
\begin{array}{r}
2,389,451.96 \\
509,480.15
\end{array}
\] \& \[
\begin{array}{r}
199,159.19 \\
308,825.46
\end{array}
\] \& \[
\begin{array}{r}
12,621,808.59 \\
452,222.61
\end{array}
\] \& \[
\begin{array}{r}
15,180,612.12 \\
366,672.22
\end{array}
\] \\
\hline Net ineome applicable to total investment. Less interest on lonz-term debt. \& \[
\begin{array}{r}
116,073,957.91 \\
12,055,486.68
\end{array}
\] \& \[
\begin{aligned}
\& 2,813,836.49 \\
\& 2,322,304.89
\end{aligned}
\] \& \[
\begin{array}{r}
15,960,633.22 \\
3,000,009.00
\end{array}
\] \& \[
\begin{aligned}
\& 9,490,42 h 51 \\
\& 3,0 \Omega 0,000.00
\end{aligned}
\] \& \[
\begin{aligned}
\& 2,898,932.11 \\
\& 2,187,5117.44
\end{aligned}
\] \& \[
\begin{array}{r}
109,666.27 \\
1,29 \times, 448.87
\end{array}
\] \& \[
\begin{array}{r}
12,169,5 \times 5.98 \\
123,612.74
\end{array}
\] \& \[
\begin{array}{r}
14,813,939.90 \\
123,612.74
\end{array}
\] \\
\hline \begin{tabular}{l}
Net income applicable to stockholders' investment. \\
Less provision for income and profits taxes
\end{tabular} \& \[
\begin{array}{r}
104,918,471.23 \\
10,801,421.07
\end{array}
\] \& \[
\begin{array}{r}
491,531.60 \\
81,052.60
\end{array}
\] \& \[
\begin{array}{r}
12,9 f 0,633.22 \\
1,861,053.63
\end{array}
\] \& \[
\begin{array}{r}
6,490,426.51 \\
910,353.00
\end{array}
\] \& 711, 424.67 \& \[
\begin{array}{r}
1 \\
\begin{array}{r}
1, \\
1 \\
188,782.60 \\
70,961.84
\end{array}
\end{array}
\] \& \({ }^{1} 2,293,198.72\) \& \({ }^{1} 4,93 \overline{\text { I }}\), 552. 64 \\
\hline Net income for ye Surplus at beginning of \& \[
\begin{aligned}
\& 93,217,050.16 \\
\& 2.5,477,416.56
\end{aligned}
\] \& \[
\begin{array}{r}
410,479.00 \\
3,834,602.88
\end{array}
\] \& \[
\begin{array}{r}
11,099,579.59 \\
1,872,1.19 .95
\end{array}
\] \& \[
\begin{array}{r}
5,580,073.51 \\
16,712,126.50
\end{array}
\] \& \[
\begin{array}{r}
711,424.67 \\
32,576,359.29
\end{array}
\] \& \[
\begin{array}{r}
1 \\
-1,259,744.44 \\
-35,066,176.49
\end{array}
\] \& \[
\begin{aligned}
\& 1 \\
\& 42,293,198.72 \\
\& 42,846,621.45
\end{aligned}
\] \& \[
\begin{aligned}
\& 14,937,552.64 \\
\& 46,534,792.36
\end{aligned}
\] \\
\hline Total \& 119, 694, 466. 72 \& 4, 245, 081.88 \& 12, 971, 729.54 \& 22, 292, 200. 01 \& 33, 287, 753. 96 \& 33, 80¢, 432. 05 \& 40, 553, 422.73 \& 41, 597, 239.7 \\
\hline Less dividends: Common \& 50, 850, 000. 00 \& \& 1,350, 000.00 \& \& \& \& \& \\
\hline Preferred \& \(35,700,000.00\) \& \& 7, 800,000.00 \& 5, 500, 000.00 \& \& \& \& 2, 800,000.00 \\
\hline Tot \& 32, 144, 466. 72 \& 4, 245, 081.88 \& 3, 821, 729.54 \& 16, 792, 200. 01 \& 33, 287, 783.96 \& 33, 806, 432.05 \& 40, 553, 422. 73 \& 38, 797, 239. 72 \\
\hline Other net additions and deductions: Surplus transfers \& \({ }^{2} 9,342,524.07\) \& \& \& 410, 885.12 \& 216, 646,619. 33 \& \& 2, 042, 047.96 \& \\
\hline Interest adjustments--..............-.-......- \& 478, 617.32

¢, 305, 346.59 \& \& \& $\begin{array}{r}478,617.32 \\ 2 \\ 278,835.57 \\ \hline\end{array}$ \& 70, 061.81 \& \& ${ }^{2} 7,499,019.84$ \& <br>
\hline Adjustments of investments . . . . . . .-...........- \& ${ }^{2} 700,000.00$ \& \& \& ${ }^{2} 700,000.00$ \& \& \& \& <br>
\hline Loss or gain on capital assets \& $\begin{array}{r} \\ \\ \\ \text { 1 }\end{array} 12300,072.76$ \& \& \& \& \& ${ }^{2} 1,230.072 .76$ \& \& <br>
\hline Amortization adjustment.-...-....- \&  \& \& \& \& \& \& \& 55, 112.99 <br>
\hline Depreciation adjustment.......... \& ${ }^{2} 10,616,329.72$ \& \& \& 214, 835, 832.56 \& \& \& \& 3,994, 208.74 <br>
\hline Miscellaneous .-.... \& ${ }^{2} 49,480.29$ \& 42, 194.72 \& 12, 873.34 \& 5, 175. 63 \& \& \& $230,274,36$ \& <br>
\hline Total \& ${ }^{2} 27,857,190.12$ \& 42, 194.72 \& 12, 873.34 \& ${ }^{2} 14,920,050.06$ \& :16, 575, 657.46 \& ${ }^{2} 1,230,072.76$ \& 2 5, 487, 246. 24 \& 4, 049.381. 73 <br>
\hline Surplus at end of year \& 4, 287, 276. 60 \& 4, 287, 276. 60 \& 3,834, 602.88 \& 1, 872, 149.95 \& 16, 712, 126. 50 \& 32, 576, 359. 29 \& 35, 066, 176. 49 \& 42, 846,621. 45 <br>
\hline
\end{tabular}

|  | 1931 | 1930 | 1929 | 1928 | 1927 | 1926 | 1925 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales. | \$61, 244, 965.00 | \$114, 394, 118.00 | \$145, 554, 671.00 | \$137, 989, 396.00 | \$153, 799, 921.00 | \$171, 043, 752.00 | \$142, 724, 233.00 |
| Less: <br> Cost of goods sold | 55, 093, 554. 77 | 93, 523, 395. 59 | 106, 029,322.71 | 109, 393, 333. 74 | 125, 945, 260.86 | 140, 494, 788. 99 | 114, 348, |
| Depreciation and depletion | 1, 835, 361.78 | 2,526, 786.04 | 2, 179,690.49 | 1,719, 975.28 | 1,583.847.10 | 1, 797, 956. 37 | 1,599, 339.04 |
| Distribution, administrative expenses, and taxes computed..- | 8, 625, 290.82 | 10,929, 710.36 | 14,049, 407.92 | $14,896,908.29$ | $13,756,014.07$ | 10,893, 307.91 | 9,647, 778.75 |
| Total | $65,554,207.37$ | 106, 979, 891.99 | 122, 258, 421.12 | 126,010, 217.31 | 141, 285, 122.03 | $153,186,053.27$ | 125, 595, 682.78 |
| Net income from operations Otber income.----------------- | $\begin{array}{r} 14,309,242.37 \\ 440,753.11 \end{array}$ | $7,414,226.01$ $782,558.14$ | $\begin{array}{r} 23,296,249.88 \\ 1,364,153.49 \end{array}$ | $11,979,178.69$ $972,802.77$ | $\begin{array}{r} 12,514,798.97 \\ 690,478.81 \end{array}$ | $\begin{array}{r} 17,857,698.73 \\ 672,577.41 \end{array}$ | $\begin{array}{r} 17,128,550.22 \\ 979,205.30 \end{array}$ |
| Net income applicable to total investment Less interest on long-term debt | ${ }^{1} 3,868,489.26$ | 8, 196, 784. 15 | $24,660,403.37$ | 12,951, 981.46 | 13, 205, 277. 78 | 18,530,276. 17 | 18, 107, 755. 52 |
| Net income applicable to stockholders' investment Less provision for income and profits taxes | ${ }^{1} 3,868,489.26$ | $\begin{array}{r} 8,196,784.15 \\ 750,000.00 \end{array}$ | $\begin{array}{r} 24,660,403.37 \\ 1,405,000.00 \end{array}$ | $\begin{array}{r} 12,951,981.46 \\ 1,000,000.00 \end{array}$ | $\begin{array}{r} 13,205,277.78 \\ 1,025,000.00 \end{array}$ | $\begin{array}{r} 18,530,276.17 \\ 1,750,000.00 \end{array}$ | $\begin{array}{r} 18,107,755.52 \\ 1,948,000.00 \end{array}$ |
| Net income for year | ${ }^{1} 3,868,489.26$ | $7,446,784.15$ | 23, 255, 403.37 | 11,951, 981.46 | 12, 180, 277. 78 | $16,780,276.17$ | 16, 159, 755. 52 |
| Surplus at beginning of year | $53,580,714.42$ | $47,544,051.85$ | $37,764.520 .87$ | $35,010,159.96$ | 32, 481, 034.68 | $27,546,873.61$ | 25, 477, 416. 56 |
| Total | $49,712,225.16$ | 54,990, 836.00 | 61,019, 924. 24 | 46, 962, 141.42 | 41, 661, 312. 46 | 44, 327, 149. 78 | 41, 637, 172.08 |
| Less dividends Common. |  | $4,500,000.00$ | 11, 250, 000.00 | 6, 750,000.00 | 6, 750, 000.00 | 9,000,000. 00 | 11, 250, 000.00 |
| Preferred | 2,800,000,00 | 2, 800, 000.00 | 2, 800,000.00 | 2, 800, 000.00 | $2,800,000.00$ | 2,800,000.00 | 2, 800, 000.00 |
| Total | 46, 912, 225.16 | 47,690, 836.00 | 46, 969, 924.24 | $37,412,141.42$ | 35, 111,312.46 | 32, 527, 149. 78 | 27,587, 172.08 |
| Other net additions and deductions: |  |  |  |  |  |  |  |
| Surplus transfers. <br> Interest adjustments |  | 4,851, 162.15 |  |  |  |  |  |
| Adjustment for Federal income tax, prior years .-.............. | ${ }^{2} 230,265.80$ | 1, 038, 716.27 | 574, 127.61 | 120,181.40 | $2101,152.50$ | ------------ |  |
|  |  |  |  |  |  |  |  |
| Amortization adjustment.- |  |  |  |  |  |  |  |
| Additional compensation, employees | ${ }^{2} 147,167.00$ |  |  |  |  |  |  |
| Depreciation adjustment <br> Miscellaneous. |  |  |  | $\begin{array}{r} 225,234.10 \\ 6,963.95 \end{array}$ |  | ${ }^{2} 46,115.10$ | ${ }^{2} 40,298.47$ |
| Total | ${ }^{2} 377,432.80$ | 5, 889, 878. 42 | 574, 127.61 | 352,379.45 | ${ }^{2} 101,152.50$ | ${ }^{2} 46,115.10$ | ${ }^{2} 40,298.47$ |
| Surplus at end of year | $46,534,792.36$ | 53, 580, 714. 42 | 47, 544, 051.85 | -37, 764, 520.87 | 35, 010, 159.96 | 32,481, 034.68 | $27,546,873.61$ |

TENNESSEE COAL, IRON \& RAILROAD CO.
The Tennéssee Coal, Iron \& Railroad Co. was organized under the laws of Tennessee in 1860 as the Tennessee Coal \& Railroad Co. and the name was changed to the present title in 1881. This is the leading concern in the southern iron and steel district and was acquired by the United States Steel Corporation in the latter part of 1907.

The iron and steel producing and manufacturing plants of this subsidiary are all located near Birmingham, Ala. The company produces coke, iron, ferro-manganese, ingots, castings, rails, blooms, billets, plates, and bars. During 1938 a new 48 -inch continuous hot strip mill and a complete new plant, with an estimated capactty for the annual production of 200,000 tons of cold reduced tin plate were added, including 4 -high cold reduction mills with annealing, pickling, and tinning facilities.

Tables 46 and 47, which follow, summarize investments, profits and rates of return for Tennessee Coal, Iron \& Railroad Co., based on the total investment and stockholders' investment for the period 1925 to 1938, inclusive.

This company's operations were profitable in all years during the period under review except for 1931 to 1934, inclusive. For all years, 1925-38, the average net income was equivalent to 2.90 and 2.63 percent, respectively, of the total investment and stockholders' investment. The most profitable year for this company was 1937 when earnings were equivalent to 9.74 percent on the total investment and 10.92 percent on the stockholders' investment. This was unusual as 1929 was the most profitable year for most of the other subsidiaries. However, as in the case of a number of the other subsidiaries, returns for this company were lowest in 1932, when losses were sustained equivalent to 7.71 percent on the total investment and 9.50 percent on the stockholders' investment.
Table 46.-Summary of investments, profits, and rates of return for the Tennessee Coal, Iron \& Railroad Co., 1925-38

|  | Average | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock-preferred |  |  |  |  |  |  |  | \$248, 300. 00 |
| Capital stock-common. |  | \$32, 528, 697. 50 | \$32, 5¢0, 997, 50 | \$32, 560, 997. 50 | \$32,560, 997.50 | \$32, 560, $99^{\prime} \quad 50$ | \$32, 560, 997, 50 | 32, 560, 997. 50 |
| Capital surplus |  | 28, $4688,771.29$ | 29, 455, 581.03 | 27, 767, 596. 17 | 31, 284, 774. 89 | 29, 363, 803.56 | 35, 947, 176.82 | 40, 462, 500. 33 |
| Surplus and contingency res |  |  |  |  |  | $12,000,000.00$ | 6,000,000.00 | $6,508,344.88$ |
| Long-term debt |  | 13, 477, 000. 00 | 14, 136, 000.00 | 14, 136, 000. 00 | 14, 136, 000.00 | 14, 136, 000.00 | 14, 136, 000.00 | 12, 050, 000. 00 |
| Reserve for Federal income and |  | 49, 100.00 | 928, 175.00 | 290,680.00 |  |  |  |  |
| Total investmen |  | 79, 173, 568. 79 | 81, 530, 753. 53 | 74, 755, 273. 67 | 77, 981, 772. 39 | 88, 060, 801. 06 | 88, 644, 174. 32 | 91, 830, 142.71 |
| Average of total investment | \$92, 946, 370. 00 | 80, 352, 161.00 | 78, 143, 014. 00 | 76, 368, 523.00 | 88, $021,287.00$ | 88, 352, 488.00 | 90, 237, 159.00 | $96,033,380.00$ |
| Net income applicable to total investment. | \$2, 696, 028.00 | 1, 164, 043.29 | 7, 611, 874. 23 | 2, 877, 430. 73 | 2, 124, 801.32 | 1, 197, 097. 66 | ${ }^{1} 3,931,459.02$ | -7,399, 398.89 |
| Rate of return on total investment (percent). | 2.90 | 1.45 | 9.74 | 3.77 | 2.41 |  |  |  |
| Total investment Long-term debt. |  | $\begin{array}{r} \$ 79,173,568.79 \\ 13,477,000.00 \end{array}$ | $\begin{array}{r} \$ 81,530,753.53 \\ 14,136,000.00 \end{array}$ | $\$ 74,755,273.67$ $14,136,000.00$ | $\begin{array}{r} \$ 77,981,772.39 \\ 14,136,000.00 \end{array}$ | $\begin{array}{r} \$ 88,060,801.06 \\ 14,136,000.00 \end{array}$ | $\begin{array}{r} \$ 88,644,174.32 \\ 14,136,000.00 \end{array}$ | $\begin{array}{r} \$ 91,830,142.71 \\ 12,050,000.00 \end{array}$ |
| Total stockholders' investment |  | 65, 696, 568. 79 | 67, 394, 753. 53 | 60, 619, 273.67 | 63, 845, 772. 39 | 73, 924, 801.06 | 74, 508, 174. 32 | 79, 780, 142. 71 |
| Average of stockholders' investment | \$79, 605, 824.00 | 66, 545, 661.00 | $64,007,013.00$ | 62, 232, 523.00 | 68, 885, 287.00 | 74, 216, 488.00 | 77, 144, 158.00 | 83, 923, 810.00 |
| Net income applicable to stockholders' investment | \$2, 097, 302.00 | 547, 834.96 | 6,990, 824. 23 | 2, 251, 789.07 | 1,494, 462. 15 | ${ }^{1} 437,110.68$ | 14, 557, 395.67 | ${ }^{1} 7$ 7, 969, 206. 26 |
| Rate of return on stockholders' investment (percent) | 2. 63 | . 82 | 10.92 | 3.62 | 2. 17 | ${ }^{1} .59$ | ${ }^{1} 5.91$ | 19.50 |

[^68]Table 46.-Summary of investments, profits, and rates of return for the Tennessee Coal, Iron \& Railroad Co., 1925-38-Continued

|  | 1931 | 1930 | 1929 | 1928 | 1927 | 1926 | 1925 | 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock-preferred | $\$ 688,300.00$ | $\$ 688,300.00$ $32,560,997.50$ | $\$ 688,300.00$ $32,560,997.50$ | $\begin{array}{r} \$ 6888,300.00 \\ 32,560,997.50 \end{array}$ | $\begin{array}{r} \$ 688,300.00 \\ 32,560,997.50 \end{array}$ | $\begin{array}{r} \$ 688,300.00 \\ 32,560,997.50 \end{array}$ | $\begin{array}{r} \$ 688,300.00 \\ 32,560,997.50 \end{array}$ |  |
| Capital stock-common. | 32, $5600,997.50$ | $32,560,997.50$ $54,245,321.39$ | 53, $628,203.02$ | 49, $419,224.06$ | 46, 654, 157.84 | 42, 916, 849.33 | 39, 469, 777. 96 |  |
| Surplus-........................ Surplus and contingency reserve | $48,219,324.19$ $6,598,855.56$ | $54,245,321.39$ $6,689,407.46$ | 88, 742, 922.86 | 8, 185, 928.03 | 8, 162, 236. 64 | 8, $038,747.07$ | 6, 642, 144. 11 |  |
| Surplus and contingency reserve <br> Long-term debt | 12, 169, 140.00 | 12, $167,000.00$ | 12, 186, 000.00 | 12, 251, 000. 00 | 12, 271, 000. 00 | 12, 402, 000000 | 12, 553, 000000 |  |
| Reserve for Federal income and profit taxes. |  | 175, 000.00 | $38 \mathrm{C}, 000.00$ | 360, 000, 00 | 470, 000.00 | 900, 000. 00 | 907, 000.00 |  |
| Total investmen | 100, 236, 617.25 | 106, 526, 026.35 | 108, 186, 423.38 | 103, 465, 449. 59 | 100, 806, 691.98 | 97, 506, 893. 90 | 92, 821, 219.57 | \$88, 620, 318.01 |
| A verage of total investment | 103, 381, 322. 00 | 107, 356, 225. 00 | 105, 825, 936.00 | 102, 136, 071.00 | 99, 156, 973. 00 | 95, 164, 057. 00 | 90, 720, 769.00 |  |
| Net income applicable to total investment | $13,041,039.74$ 12.94 | $2,317,073.93$ 2.16 | $6,513,977.05$ 6.16 | 5, 219, 743.20 | 7, 356, $\begin{array}{r}\text { 7, } \\ 7.42\end{array}$ | , 603,851.04 | $8,180.316 .66$ 8.96 |  |
| Total investment | \$100, 236, 617.25 | \$106, 526, 026.35 | \$108, 186, 423. 38 | \$103, 465, 449. 59 | \$100, 806, 691. 48 | \$97, 506, 893.90 | $\$ 92,821,219.57$ | $\$ 88,620,318.01$ |
| Long-term debt | 12, 169, 140.00 | 12, 167, 000.00 | 12, 186, 000.00 | 12, 251, 000.00 | 12, 271, 000.00 |  |  |  |
| Total stockholders' investmen | 88, 067, 477. 25 | 94, 359, 026.35 | $96,000,423.38$ | 91, 214, 449. 59 | 88, 535, 691. 98 | 85, 104, 893.90 | 80, 268, 219. 57 | 76,020, 318.01 |
| Average of stockholders' investment | 91, 213, 252.00 | 95, 179, 712.00 | 93, 607, 436.00 | 89, 875, 071. 00 | 86, 820, 293.00 | 82, 686, 557. 00 | 78, 144, 269.00 |  |
| Net income applicable to stockholders investment | ${ }^{1} 3,616,389.74$ | 1, 741, 673.79 | 5, 937, 586. 08 | 4, 641, 193.20 | 6, 777, 253.97 | 8, 019, 437. 50 | 7,540, 272.07 |  |
| Rate of return on stockholders' investment (percent) | 13.96 | 1.83 | 6. 34 | 5.16 | 7.81 | 9.70 | 9.65 |  |

[^69]Tarle 47.-Summary of income, expenses, and surplus for the Tennessee Coal, Iron \& Railroad Co., 1925-98

|  | Total | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$592, 020, 410. 53 | \$49, 382, 116. 53 | \$65, 399, 510.00 | \$44, 207, 080.00 | \$29, 066, 428.00 | \$25, 888, 087.00 | \$19, 583, 379.00 | \$12, 676. 17700 |
| Less: <br> Cost of goods sold (or operating exnense) | 448, 536, 604. 90 | 36, 322, 864. 14 | 46, 455, 229. 99 | 32,683, 582. 28 | 22, 251, 473. 97 | 19, 963, 248.10 | B, 882,301. 79 | 669, 58917 |
| Depreriation and depletion........ ..... | 16,8.40, 541. 28 | 1, 636, 707.13 | 1,931, 484. 26 | 1,802, 990.12 | 1,049, 752.46 | 1,089, 610. 27 | 984, 581.12 | 808, 725.97 |
| Distribution and administrative expenses and taxes..................................... | 102. 815, 138.61 | 11, 286, 626.82 | 10, 167, 887.18 | 8, 347, 867. 19 | 5, 283, 647. 15 | 5. 459, 228.68 | 6, 179,049.31 | 7, 195, 270.30 |
| Tratal oprrating expens | 568, 192, 284. 79 | 49, 246, 198.09 | 58, 554, 601. 43 | 42, 834, 439.59 | 28, 584, 873.58 | 26, 512, 087.05 | 24, 045, 932. 22 | 20, 673, 585, 34 |
| Net income from operations. Other income. $\qquad$ | $\begin{aligned} & 23,828,125.74 \\ & 13,916,267.82 \end{aligned}$ | $\begin{array}{r} 135,918.44 \\ 1,1228,124.85 \end{array}$ | $\begin{array}{r} 6.844,908.57 \\ 766,965.66 \end{array}$ | $\begin{aligned} & 1,372,640.41 \\ & 1,504.790 .32 \end{aligned}$ | $\begin{array}{r} 481,554.42 \\ 1,643,246.90 \end{array}$ | $\begin{aligned} & 624,000.05 \\ & 821.097 .71 \end{aligned}$ | $\begin{array}{r} 14,462,553.22 \\ \\ \\ 531,094.20 \end{array}$ | $\begin{array}{r} 17,997,408.34 \\ 598,009.45 \end{array}$ |
| Net income apnlicable to total investment. <br> Less interest on long term debt. | $\begin{array}{r} 37,741.393 .56 \\ 8,382,168.89 \end{array}$ | $\begin{array}{r} 1,164,043.29 \\ 616,208.33 \end{array}$ | $\begin{array}{r} 7,611,874.23 \\ 621.050 .00 \end{array}$ | $\begin{array}{r} 2,877,430.73 \\ 625,611.66 \end{array}$ | $\begin{array}{r} 2.121,801.32 \\ 630,339.17 \end{array}$ | $\begin{aligned} & \text { 197, 097. } 6 R \\ & 634,208.34 \end{aligned}$ | $\begin{array}{r} 13,931,459.02 \\ 625,936.65 \end{array}$ | $\begin{array}{r} 17,399,398.89 \\ 569,807.37 \end{array}$ |
| Net income applicable to stockholders' investment <br> Less provision 'o Federal income and profit taxes. | $\begin{array}{r} 29,362,224.67 \\ 4,434.975 .42 \end{array}$ | $\begin{array}{r} 547,834.96 \\ 33,500.00 \end{array}$ | $\begin{array}{r} 699,824.23 \\ 928,175.00 \end{array}$ | $\begin{array}{r} 2,251,789.07 \\ 290,680.00 \end{array}$ | 1.494, 462.15 | $1437,110.68$ | 1 4, 557, 395.67 | ${ }^{1} 7,969,206.26$ |
| Net income for year ... Surplus at beginning of year | $\begin{aligned} & 24,927,249.25 \\ & 35,325,051.16 \end{aligned}$ | $\begin{array}{r} 514,334.96 \\ 29,455,581.03 \end{array}$ | $\begin{array}{r} 6,062,649.23 \\ 27,767,596.17 \end{array}$ | 1,961, 109.07 <br> 31, 284, 774. 89 | $\begin{array}{r} 1,494,462.15 \\ 29,363,803.56 \end{array}$ | $\begin{array}{r} 1437,110.68 \\ 35,947,176.82 \end{array}$ | $\begin{array}{r} 14.557,395.67 \\ 40,462,500.33 \end{array}$ | $\begin{array}{r} 17,969,206.26 \\ 49,219,324.19 \end{array}$ |
| Less dividen | $\begin{aligned} & 60.252,300.41 \\ & 29,739,330.10 \end{aligned}$ | $\begin{array}{r} 29,969,915.99 \\ 1,301,144.70 \end{array}$ | $\begin{array}{r} 33,830,245.40 \\ 4,879,292.63 \end{array}$ | $\begin{array}{r} 33,245,883.96 \\ 1,740,281.04 \end{array}$ | $\begin{array}{r} 30,858,2655.71 \\ 3,252,861.75 \end{array}$ | 35, 510, 066. 14 | 35, 905, 104.66 | $\begin{array}{r} 40,250,117.93 \\ 2,581.00 \end{array}$ |
| Total | 30, 512, 970. 31 | 28, 668, 771. 29 | 28, 950, 952.77 | 31, 505, 602.92 | 27, 605, 403.96 | 35, 510, 066. 14 | 35, 905, 104. 66 | 40, 247, 533.93 |
| Other net additions and deductions: Capital to subsidiarics, as paid-in surplus. | 2 3, 200, 000.00 |  |  | 23,200,000. 00 |  |  |  |  |
| Reserve for Tennesser Land Co-. | ${ }^{2} 507,091.79$ |  |  | $2507,091.79$ $120,000.00$ |  |  |  |  |
| Adjustment of contingent reser ie | ${ }^{2} 1278,720.38$ |  |  |  | 2, 887,795.00 | ${ }^{2} 6,000,000.00$ |  |  |
| Adjustment of amortization | 1.852, 534.33 |  |  |  | 1, 721, 318. 36 |  |  |  |
| Adjustment of rental | 2 2 $21479,0714.36$ |  |  |  |  | 2147,41436 |  |  |
| Deferred rail replacements | ${ }^{2} 625,000.00$ |  |  |  |  |  |  |  |
| Adjustment if inventory | 2, 332, 590.90 |  |  |  |  |  |  |  |
| Adjustment of propertv aceoun | 1,792,894.31 |  |  |  |  |  |  |  |

[^70]Table 47.-Summary of income, expenses, and surplus for the Tennessee Coal, Iron \& Railroad Co., 1925-98—Continued


| Adjustment of rental |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Adjustment of fire insurance. |  |  | 2, 332, 590.90 |  |  |  |  |
| Deferred rail replacements.- |  | 625,000.00 |  |  |  |  |  |
| Adjustment of inventory Adjustment of property account |  |  |  | $\begin{array}{r} 2627,506.97 \\ 950,592.61 \end{array}$ |  | $\begin{array}{r} 1,165,387.33 \\ 2,922,890.88 \\ 2,975,029.97 \\ 19,017.72 \end{array}$ |  |
| Adjustment of Federal taxes...- |  |  |  |  |  |  |  |
| Adjustment of depreciation and depletion Miscellaneous.....................-- | 130, 020.23 | 255, 903. 03 | ${ }^{2} 425,106.27$ | 56,591. 11 | 25, 548.36 |  | 119, 248.13 |
| Total other net additions and deductions. | ${ }^{2} 130,020.23$ | 1, 855, 317.98 | 1, 907, 484.63 | 1, 088, 746.42 | 25, 548.36 | ${ }^{2} 1,067,292.73$ | 119, 248.13 |
|  | 48, 219, 324. 19 | 54, 245, 321. 39 | 53, 628, 203. 02 | 49, 419, 224.06 | 46, 654, 157.84 | 42, 916, 849.33 | 39, 469, 777. 96 |

${ }^{1}$ Denotes loss.

## Subsidiaries Other Than Those Producing and Fabricating Steel

While the steel subsidiaries form the most important group in the United States Steel Corporation, they by no means account for all the business in the system. Ore, coal and coke, transportation, manufacturing companies other than stcelproducing or fabricating, and miscellaneous companies have represented during the period 1925-37 more than half the investments and have produced more than half the income for the United States Steel Corporation as a consolidated system.

Some indication of the extent of these subsidiaries is furnished by the following tabulation of the subsidiary companies by groups which were in existence as of December 31, 1937.
Number
Steel ..... 15
Manufacturing other than steel ..... 10
Ore mining ..... 49
Coal and coke ..... 8
Transportation ..... 27
Miscellaneous ..... 28
Total ..... 137

A much better indication of the relative importance to the system as a whole of the various groups of subsidiaries is afforded by the following summary of income, investments, and rates of return of the United States Steel Corporation and subsidiaries for the period 1925-37, inclusive.

Comparison of the relative importance of income, investments, and rates of return for the United States Steel Corporation and subsidiary groups for the period 1925-37, inclusive

|  | Total net income | A verage net income | Average investment | Average rate of return | Group income to total | Group investment to total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United States Steel Corporation and subsid. iaries ${ }^{1}$ $\qquad$ | \$1, 036, 012, 977 | \$79, 693, 305 | \$2, 072, 657, 841 | $\begin{gathered} \text { Percent } \\ 3.84 \end{gathered}$ | $\begin{aligned} & \text { Percent } \\ & 100.00 \end{aligned}$ | $\begin{aligned} & \text { Percent } \\ & 100.00 \end{aligned}$ |
| Groups: |  |  |  |  |  |  |
| Transportation | $478,203,492$ $247,585,805$ | $36,784,884$ $19,045,062$ | $993,562,963$ $287,594,925$ | 3.70 6.62 | 46.16 23.90 | 47.94 13.87 |
| All other. | 310, 223, 680 | 23, 863, 359 | 791, 499,953 | 3.01 | 29.94 | 38.19 |
| Total | 1,036, 012, 977 | 79,693,305 | 2, 072, 657, 841 | --*-- | 100.00 | 100.00 |

${ }^{1}$ Represents consolidated figures. Income and investments have not been adjusted for intangibles.
The transportation group, constituting some 14 percent of the investment and 24 percent of the income of the United States Steel Corporation for the 13-year period, 1925-37, did noticeably better than either of the other two groups. The average rate of return for the transportation companies was 6.62 percent. The steel group, comprising 48 percent of the consolidated investment, earned 3.70 percent. The all-other group for the same period earned only 3.01 percent.

The effect of intangible value has not been eliminated from any of the figures in the table. While it has been possible to make this adjustment in the consolidated records of the United States Steel Corporation, no such elimination of intangibles from the records of the subsidiaries is feasible. Therefore, for comparative purposes, the intangibles not actually deducted by the United States Steel Corporation itself are included in the consolidated figures.

Were it possible to eliminate intangibles from both the consolidated company and the subsidiaries, it is probable that the relative importance of the groups in regard to investments would be altered somewhat. According to the Bureau of Corporations report ${ }^{1}$ in 1911, the bulk of the intangibles included in the capitalization of the United States Steel Corporation in 1901 was contained in assets of the ore companies. It, therefore, follows, that were the intangibles eliminated in this comparison, the ore companies would show to better advantage. This would be reflected in a higher rate of return for the all-other group. However, relationships of these groups would not be radically ehanged as the result

[^71]of the elimination of intangibles. This contention is borne out by a comparison of the rates of return for the consolidated company over the period 1925-37 with and without intangible values included.

| United States Steed Corporation | Average income | Average of total investment | Average rate of return |
| :---: | :---: | :---: | :---: |
| Company statements. | \$79, 693, 305 | \$2, 072. 657, 841 | Percent $\text { 3. } 84$ |
| Company statements adjusted by elimination of intangibles | 83, 476, 428 | . 1, 778, 646, 089 | 4.69 |

The average rate of return on total investment for this period is raised 0.85 of 1 percent by the elimination of intangible values.

Income and investments for the group comprising all other companies represent for the most part a derived figure obtained by deducting from the consolidated figures for the United States Steel Corporation the amounts shown for the steel and transportation groups. The figures for the steel and transportation groups represent a summary of data compiled from balance sheets and income statements of the individual companies within these groups.

With the exception of the following manufacturing companies, no company listed in the all-other group were so examined. These manufacturing companies were the Universal Atlas Cement Co., American Bridge Co., and the Federal Shipbuilding \& Dry Dock Co. Their importance in this group is indicated by the following tabulation which covers the period 1925-37, inclusive:

Comparison of relative importance of income, investments and rates of return for other steel producing and transportation subsidiaries, 1925-37

| All-other group | Total net income | Average net income | Average investment | Average rate of return | Income to total | Investment to total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unlversal Atlas Cement Co..- | \$32, 932, 201 | \$2, 533, 246 | \$33, 436, 735 | Percent 7.58 | Percent 10.62 | Percent $4.22$ |
| American Bridge Co..---.--- | 13, 477, 048 | 1,036,696 | 75, 106, 557 | 1.38 | 4.34 | 9.49 |
| Federal Shipbuilding \& Dry Dock Co. | ${ }^{1} 3,032,869$ | ${ }^{1} 233,298$ | 6, 703, 729 | ${ }^{1} 3.48$ | 1.98 | 1.85 |
| Total | 43, 376, 380 | 3, 336,644 | 115, 247, 021 | 2.90 | 12.07 | 14. 56 |
| Remainder | 266, 847, 300 | 20,526, 715 | 676, 252, 932 | 3.04 | 87.93 | 85. 44 |
| Total. | 310, 223, 680 | 23, 863, 359 | 791, 499, 953 | 3.01 | 100.00 | 100.00 |

## ${ }^{1}$ Loss.

Responsible officials of the United States Steel Corporation stated that of the companies included in the remainder of the all-other group, the ore-mining companies constituted the great bulk from the point of view of investment and income produced.

Average figures for the period 1925-37 have been used without any attempt to show the relative importance of these groups by years. This procedure has been occasioned by the fact that the figures for the United States Steel Corporation are consolidated figures, with all intercompany items eliminated. These intercompany items are included in the records of the individual subsidiary companies. The most important of these intercompany items which affect the income and investment of the subsidiaries is intercompany profits. Such profits arise from sales of goods at more than cost from one subsidiary to another. From the point of view of the Steel Corporation as a whole, profits can only be realized when sales above cost are made to outside interests.

Consolidated income for the. United States Steel Corporation varies from the sum of the income for all its subsidiaries by as much as $\$ 50,000,000$ in some years. However, this effect is not cumulative, and over the 13 -year period total and average income figures are not materially affected.

While it is true that the effect of intercompany profit is relatively unimportant when a sufficiently long period is averaged, comparison of the yearly income and investment. total for the individual companies with those of the consolidated company are liable to serious error. Consequently the annual totals in the following
table 48 cannot be related with any precision to the totals for the United States Steel Corporation. This table shows the average income, investment and rates of return for the transportation companies and the principal subsidiaries not primarily connected with the production of steel, if we include the mining of ore, coal, and the manufacture of coke within this latter term. This should be further amended since the American Bridge Co. processes some of the steel required in its own business.

The transportation companies, as a group, earned 7.36 percent on their investment during the period 1917-37. Although 30 companies are included in this group, 7 companies account for 85.3 percent of the average investment and 96.9 percent of the average income of the whole transportation group during this 22 -year period. These 7 companies, together with their average rates of return, follow:

## Principal transportation companies

Average rates of return (percent)
(1) Duluth, Missabe \& Northern Railway Company ${ }^{1}$..................... 11. 92

(3) Duluth \& Iron Range R. R. Co $-\ldots . .$.

(5) Chicago, Lake Shore \& Eastern R. R. Co. .-.................................. 7.55
(6) Pittsburg, Bessemer \& Lake Erie R. R. Co_-................................... 4. 39


' Name changed in 1937 to Duluth, Missabe \& Iron Range R. R. Co.
Table 48.-Summary of investment, net income, and rates of return for transportation companies ${ }^{1}$ and certain other subsidiaries of the $U$. $S$. Steel Corporation, 191.7-37, inclusive

|  | A verage | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 | 1930 | 1929 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| INVESTMENTS |  |  |  |  |  |  |  |  |  |  |  |
| Transportation companies ${ }^{1}$ | \$269, 050, 530 | \$261, 522, 627 | \$244, 016, 540 | \$251, 002, 039 | \$285, 967, 917 | \$306, 875,687 | \$312, 197, 941 | \$323, 963, 906 | \$319, 219, 815 | \$301, 876, 094 | \$291, 356. 882 |
| Federal Shipbuilding \& Dry Dock Co. | 8, 508, 843 | 6, $\mathbf{4} 54,522$ | 6, 066, 682 | 5, 683, 076 | 5, 012, 877 | 5, 753, 941 | 6,925, 291 | 7,128,733 | 6, 298, 132 | 6,172, 205 | 7, 297, 975 |
| American Bridge Co.. | 75, 576, 618 | 64, 772, 668 | 66, 687, 849 | 69, 982, 117 | 73, 019,055 | 75, 384,045 | 77, 669, 911 | 79,673,967 | 79, 560, 758 | 78, 696, 988 | 78,002, 484 |
| Universal Atlas Cement Co. | 24, 865, 342 | 30, 337, 283 | 30, 048, 535 | 31, 500, 414 | 34, 293, 076 | 38, 126, 146 | 43, 092, 802 | 47, 954, 986 | 40, 326, 391 | 29, 985, 784 | 29, 456, 959 |
| Total of average investments | 378, 001, 333 | 362, 987, 100 | 346, 819, 606 | 358, 167, 646 | 398, 292, 925 | 426, 139, 819 | 439, 885, 945 | 458, 721, 592 | 445, 405, 096 | 416,731, 071 | 406, 114, 300 |
| Transportation companies | 19, 811,951 | 33, 063,461 | 25, 317, 225 | 11, 439, 743 | 5, 626,651 | 7, 194, 185 | 24, 889, 859 | 5,321, 507 | 21,714, 153 | 35, 261,439 |  |
| Federal Shipbuilding \& Dry Dock Co. | 16, 383 | ${ }^{2} 50,426$ | 901, 992 | 2282, 353 | 2887,822 | ${ }^{2} 52,870$ | 277, 341 | 837, 135 | 143, 420 | ${ }^{2} 518,544$ | ${ }_{2} 11,160,162$ |
| American Bridge Co...-..........---- | 1, 914, 265 | 313, 418 | ${ }^{2} 500,722$ | ${ }^{2} 2,514,267$ | ${ }^{2} 2,397,892$ | ${ }^{2} 1.143,067$ | 203, 028 | 1,374, 804 | 2, 989, 921 | 2,945,665 | 2, 726, 126 |
| Universal Atlas Cement Co | 2, 762, 244 | 2, 256,032 | 2, 809, 244 | 205,871 | 496,425 | 2832, 731 | ${ }^{2} 3$ 3, 297, 509 | 2 3, 261, 545 | $5,739,715$ | 4, 030,230 | 5,932, 262 |
| Total | 24, 504, 843 | 35, 582, 485 | 28, 527, 739 | 8, 848, 994 | 2, 837, 362 | 5, 165, 517 | ${ }^{2} 7,706,999$ | 4, 271, 901 | 30, 587, 209 | 41, 718, 790 | 35, 707, 652 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Transportation companies (percent) | 7.36 | 12.64 | 10. 38 | 4.56 | 1.97 | 2.34 | ${ }^{2} 1.57$ | 1.64 | 6. 80 | 11.68 | 9.68 |
| Federal Shipbuilding \& Dry Dock Co (percent) |  | 2. 79 | 14.87 | ${ }^{2} 4.97$ | ${ }^{2} 17.71$ | ${ }^{2} .92$ | 4.00 | 11.74 | 2.28 | 28.40 | ${ }^{2} 15.90$ |
| American Bridge Co. (percent) ...... | 2. 53 | . 48 | ${ }^{2} .75$ | 23.59 | 23. 28 | ${ }^{2} 1.52$ | 26 | 1. 73 | 3. 76 | 3. 74 | 3. 49 |
| Universal Atlas Cemerit Co. (percent). | 11.11 | 7.44 | 9.35 | . 65 | 1.45 | ${ }^{2} 2.18$ | 27.65 | ${ }^{2} 6.80$ | 14.23 | 13.44 | 20.14 |
| Averase rate of return (percent). | 6. 48 | 9. 80 | 8.23 | 2.47 | . 71 | 1.21 | ${ }^{2} 1.75$ | . 93 | 6.87 | 10.01 | 8.79 |

${ }_{2}^{1}$ This table includes the investments, net incomes, and rates of return of 30 transportation companies combined.
Table 48.-Summary of investment, net income, and rates of return for transportation companies and certain other subsidiaries of the $U$. $S$.

|  | 1927 | 1926 | 1925 | 1924 | 1923 | 1922 | 1921 | 1920 | 1919 | 1918 | 1917 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| investments |  |  |  |  |  |  |  |  |  |  |  |
| Transportation companies 1 | \$287, 393, 565 | \$281, 540, 842 | \$271, 800, 170 | \$269, 371, 105 | \$262, 543, 848 | \$248, 638, 676 | \$242, 023,096 | \$234, 185, 465 | \$225, 803, 794 | \$220, 327, 362 | \$208, 433, 760 |
| Federal Shipbuilding \& Dry Dock Co. | 88, ${ }^{\text {8 }}$, 158,188 | 8,187, 159 | $\begin{array}{r}8,169,698 \\ 76,749 \\ \hline\end{array}$ | 8, $, 507,870$ $75,360,423$ | 9, 884, 199 | 11, 335, 858 | 13, 715,321 | $15,744,732$ $79,054,355$ | 15, $78.283,265$ | 75; 442, 630 | 71, 246, 282 |
| American Bridge Co..... | $78,151,688$ $28,305,351$ | 26,663, 925 | 24, 785,911 | 72, $22,612,059$ | 20,072, 295 | 13, 052,661 | -7,464, 808 | -7,441, 565 | 6, 837, 098 | 5, 764,010 | 4, 250, 143 |
| Total of average investment | 401, 948, 792 | 394, 426, 631 | 381, 304, 787 | 375, 851, 457 | 368, 136, 372 | 350, 282, 772 | 341, 648, 411 | 336, 426, 117 | 326, 255, 720 | 301, 534, 002 | 283, 930, 185 |
| Transportation companies | 21, 930, 290 | 31, 145, 753 | 26, 251, 831 | 16, 700, 228 | 32, 816, 109 | 24, 989, 532 | $16,180,035$ | 25, 552, 746 | 15, 004, 175 | 18,973, 086 | 18,249, 257 |
| A merican Bridge Co... | 2, 264, 341 | 3, 812, 788 | 3,402, 910 | 2, 305.035 | ${ }_{2} \mathbf{3 6 1 , 8 6 2}$ | ${ }^{2} 524,792$ | 1, 389, 496 | 2, 668, 615 | 5, 699, 139 | 6,519,975 | 9,026,910 |
| Universal Atlas Cement Co | 5,552, 270 | 6,519,615 | 6,782, 322 | 7, 279, 867 | 7,516,347 | 3, 189, 109 | 1, 513, 595 | 1, 138,051 | 2, 593, 704 | 852, 195 | 992, 055 |
| Total | 29,064, 600 | 40, 762, 182 | 35, 594, 752 | 25, 846,847 | 38, 589, 201 | 26, 894, 871 | 18, 327, 985 | 28, 941, 743 | 30, 392, 638 | 26, 345, 256 | 28, 268, 222 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Transportation companies (percent) | 7.63 | 11.06 | 9. 66 | 6. 20 | 12.50 | 10.05 | 6. 69 | 10.91 | 6. 64 | 8.61 | 8.76 |
| Federal Shipbuilding \& Dry Dock Co. (percent) | 28.43 | 28.75 | 210.31 |  |  |  |  |  |  |  |  |
| American Bridge Co. (percent). | 2.90 | 4.89 | 4.43 | 3.06 | 2.48 | 2.68 | 1.77 | 3.38 | 7.28 | 8.64 | 2.67 |
| Universal Atlas Cement Co. (percent) --- | 19.62 | 24.45 | . 27.59 | 32.19 | 37.45 | 24.43 | 20.28 | 15. 29 | 37. 94 | 14.78 | 23.34 |
| A verage rate of retu | . 23 | 10.33 | 933 | 6.88 | 10.48 | 7.68 | 5. 36 | 8.60 | 9.32 | 8.74 | 9.96 |

This table includes the inrestments, net incomes, and rates of return of 30 transportation companies combined. ${ }^{2}$ Denotes loss.

## APPENDIX TABLES

Appendix Table 1.-Active subsidiaries of United States Steel Corporationat Dec. 31, $1987^{1}$

| Name | Kind of business in which engaged | Percent of control |
| :---: | :---: | :---: |
| Adams Mining Co | Iron ore | 100 |
| Agate Land Co. | Real estate | 100 |
| Interstate Transfer Ry. Co | Transportation | 100 |
| Agawem Iron Mining Co | Iron ore. | 100 |
| Alpha Ore Co. | do | 100 |
| Ambridge Iron Mining Co |  | 100 |
| American Bridge Co | Steel fabrication. | 100 |
| American Improvement Co | Real estate. | 100 |
| Etna and Montrose R. R. C | Transportation. | 100 |
| Wissahickon Bridge Co | Toll bridge. | 100 |
| American Steel \& Wire Co. of New Je | Steel and steel products. | 100 |
| Angus Land Co | Iron ore. | 100 |
| Athens Land Co | do | 100 |
| Bessemer \& Lake Erie R. R. Co | Transportation | 100 |
| Beta Ore Co | Iron ore.- | 100 |
| Bishop Iron Co | do | 100 |
| Blue Earth Land Co |  | 100 |
| Bradley Transportation Co | Transportation | 100 |
| Cambridge Iron Mining Co | Iron ore | 100 |
| Carnegie-Illinois Steel Corporation | Steel and steel products | 100 |
| Carnegie Land Corporation | Real estate | 100 |
| Carnegie Natural Gas Co | Natural gas | 100 |
| Chapin Mining Co- | Iron ore. | 100 |
| Chicago, Lake Shore \& Eastern Rail | Transportation | 100 |
| Chippewa Iron Co., The | Iron ore. | 100 |
| Clarion Iron Mining Co. | do | 100 |
| Cloquet Iron Mining Co |  | 100 |
| Columbis Steel Co- | Steel and steel products | 100 |
| Companhla Meridional de Mineracao |  | 100 |
| Crawford Iron Mining Co. | Iron ore | 100 |
| Cumberland Iron Mining |  | 100 |
| Cyclone Fence Co | Steel and steel products | 100 |
| Duluth, Missabe \& Iron Range Ry | Transportation. | 100 |
| Duquesne Iron Mining Co- | Iron ore .------ | 100 |
| Elgin. Joliet \& Eastern Ry. Co | Transportation | 100 |
| Essex Iron Co | Iron or | 100 |
| Federal Coke Corporation | Coal | 100 |
| Federal Shipbuilding \& Dry Dock | Shipbuilding | 100 |
| H. C. Frick Coke Co | Coal | 100 |
| Gary Land Co | Real estate | 100 |
| Genoa Iron Co | Iron ore.. | 100 |
| Great Northern Mining Co | .do. | 100 |
| Hemlock Land Co. | ..do | 100 |
| Hugo Iron Co- |  | 100 |
| Illinois Steel Co | Steel and steel products | 100 |
| Isthmian Steamship | Transportation. | 100 |
| Jena Mining Co | Iron ore. |  |
| Joliet \& Blue Island Ry. Co., The | Transportation | 100 |
| Kentucky Fire Brick Co., The | Refractory brick | 100 |
| Lafayette Fluorspar Co--- | Fluor spar... | 100 |
| Lake Superior Consolidated Iron | Iron ore-....-. | 100 |
| Lake Terminal R. R. Co., The | Transportation | 100 |
| Lancaster Iron Mining Co | Iron ore. | 100 |
| Lebanon Iron Mining Co | do- | 100 |
| Ligonier Iron Mining Co-.......--- |  | 100 |
| Michigan Limestone \& Chemical Co | Limestone | 100 |
| Mingo Coal Co-- | Coal. | 100 |
| Mingo Iron Mining Co Minnesota Iron Co | Iron ore | 100 |
| Minnesota Iron Co- Minnesota Steel Co | St--do--.-....... | 100 |
| Minnesota Steel Co--- | Steel and steel products | 100 |
| Monessen Iron Mining Co- | Iron ore. | 100 |
| Mometa ${ }^{\text {M }}$ mprovela Iroment Mining Co | --.-.do- | 100 |
| Morewood Iron Mining Co... | -do | 100 |
| Mountain Iron Co. | ..do. | 100 |
| Munhall Iron Mining Co. |  | 100 |
| National Mining Co. | do | 100 |
| National Tube Co... | Steel and steel products. | 100 |
| Neville Iron Mining Co--- | Iron ore...------- | 100 |
| Oil Well Supply Co... | Steel and steel products | 100 |
| Oliver Iron Mining | Iron ore---------...- | 100 |
| Pencoyd Iron Mining Co |  | 100 |
| Pennsylvania and Lake Erie Dock Co | Docks | 78 |
| Piloto Mlning Co.- | Iron ore. | 85 |

${ }^{1}$ This list does not include many subcompanies of these subsidiaries and does not include many iron ore and other companies in which U S. Steel Corporation held only a minorlty equity

Appendix Table 1.-Active subsidiaries of United States Steei Corporation at
Dec. $31,1937-$ Continued

| Name | Kind of business in which engaged | Percent of control |
| :---: | :---: | :---: |
| Pittsburgh, Bessemer \& Lake Erie Ry. Co., | Transportation. | 57 |
| Pittsburgh \& Conneaut Dock Co., The | Docks | 100 |
| Pittsburgh Limestone Corporation | Limestone | 100 |
| Youngstown \& Northern R. R. Co., The | Transportation. | 100 |
| ${ }_{\text {Pittsburgh }}$ Pittsburgh Supply Co Co. | Ship chandlery | 100 100 |
| Pfoctor Water \& Light Co | Village utility services | 100 |
| Rathbun Iron Mining Co. | Iron ore | 100 |
| Saranac Iron Mining Co | do | 100 |
| Scully Steel Products Co | Warehousing | 100 |
| Seventy-one Broadway Corporation | Real estate-.-.--.-- | 100 |
| Sharon Coal \& Limestone Co | Coal and limestone | 100 |
| Shaw Iron Co -i-...- | Iron ore | 100 |
| Spruce Mining Co.- |  | 100 |
| Standard Fence Co. | Steel and steel products. | 100 |
| Tennessee Coal, Iron \& Railroad C | do | 100 |
| Birmingham Southern R. R. Co | Transportation | 100 |
| Chickasaw Shiphuilding \& C | Shipbuilding | 100 |
| Fairficld Steel Co | Steel and steel products. | 100 |
| Tennessee Land Co | Real estate | 100 |
| Virginia Bridge Co. | Steel fabrication | 100 |
| Trotter Water Co- | Water.. | 100 |
| Union Railroad Co. | Transportation | 100 |
| Union Supply Co | Merchandise. | 100 |
| United States Coal \& Coke Co | Coal | 100 |
| United States Fuel Co. |  | 100 |
| United States Stecl Corporation of Delaware | Service company | 100 |
| United States Products Co | Export sales... | 100 |
| United Supply Co., The | Merchandise. | 100 |
| Universal-Atlas Cement Co | Cement | 100 |
| Hannibal Connecting R. R. Co | Transportation | 100 |
| Northampton \& Bath R. R. Co |  | 100 |
| Universal Exploration Co |  | 100 |
| Connellsville \& Monongahela Ry. Co | Transportation | 100 |
| Westmoreland Iron Mining Co. | Iron ore | 100 |
| Youghiogheny Northern Ry. Co., Tbe | Transportation. | 0 |

Appendix Table 2.-Active subsidiaries of Bethlehem Steel Corporation at Dec. 31, $1987^{1}$

| Name | Kind of business in which engaged | Percent of control |
| :---: | :---: | :---: |
| Bethlehem Chile Iron Mines Co | Mining iron ore | 100 |
| Bethlehem-Cuba Iron Mines Co | Mining iron ore, owns coal and limestone prop- | 100 |
| Bethlehem Shipbuilding Corporation, Ltd. | Shiphuilding and ship repairs. | 100 |
| Bethlehem Steel Co. (Pennsylvania) ....... | Manufacture of iron and steel products, fabricated structural material, etc. | 100 |
| Bethlehem Steel Realty Corporation |  | 100 |
| Bethlehem Land \& Improvement Corporation | - do | 100 |
| Northampton County Water Co. | Supplies water to pu | 100 |
| Dundalk Cn., The | Rcal estate | 100 |
| Dundalk Sewerage Co., The | Sewage disposal | 100 |
| Johnstown Water Cor | Holding company ............. | 198 |
| Johnstown Water Co | Supplies water to steel plant of Bethlehem Stecl Co. and to public. | 98 |
| Conemaugh \& Franklin Water Co | Supplies water to public | 100 |
| Lebanon Consolidated Water Co | Supplies water to steel plant of Bethlehem Steel Co. and to public. | 100 |
| Mahoning Ore \& Steel Co. |  | 51 |
| Manufacturers Water Co., T | Sunplies water to steel plant of Bethlehem Stcel Co. and to public. | 100 |
| Penn Iron Mining Co. (Michigan) | Mining irnn ore. | 100 |
| Penn Iron Mining Co. of Wisconsin | Owns power site.- | 100 |

1 This list does not include 7 iron ore companies listed below in which Bethlehem Stoel Corporation held from 22 to 50 percent minority equity, nor does It include Cambria Iron Co. which Is leased for 999 years to this corporation:

Bennett Mining Co. (22 percent).
Hoyt Mining Co. (45 percent).
Negaunee Mine Co. (50 percent).
Odanah Iron Co. (50 percent).
Plymouth Mining Co. (40 percent)
Vermillion Mining Co. (25 percent)
Verona Mining Co. (50 percent).

# Appendix Table 2.-Active subsidiaries of Bethlehem Steel Corporation at Dec. 31, 1937-Continued 

| Name | Kind of business in which engaged | Pereent of control |
| :---: | :---: | :---: |
| Bethlehem Steel Co. (Delaware) | Selling company, also operates fabricating works and warehouses and erects structural steel. | 100 |
| Bethlehern Steel Expurt Corporation | Selling company, all foreign countries ...... | 100 |
| Bethlehem Supply Corporation. | Selling company, operates supply stores and storage yards. | 100 |
| Bethlehem Transportation Corporation_ | Operates vessels on Great Lakes principally to transport raw materials to stee 1 plants of Bethlehem Steel Co. | 100 |
| Buena Vista Iron Co | Owns iron ore lands | 100 |
| Calmar Steamship Corporation | Operates vessels in intercoastal service, principally to transport products of steel plants to Paclfic coast. | 100 |
| Campania de Mines de Fierro, "Los Truchas" S. A. | Owns mineral rights. | 100 |
| Comemaugh and Black Lick R. R. Co......-- | Common carrier | 100 |
| Cornwall R. R. Co | do | 100 |
| Fore River R. R. Corporation. | Owns prop | 100 |
| Industrial Collieries Corporation | Manages the mining of coal for account of consuming subsidiary company. | 100 |
| Iron Mines Co. of Venezuela | Iron ore development in Venezuela. | 100 |
| Jurague Iron Co | Mining iron ore | 100 |
| Ore Steamship Corporation | Operates vessels in coastwise and foreign trade transporting raw materials from properties of subsidiary companies. | 100 |
| Patapseo \& Black Rivers R. R. Co | Common carrier | 100 |
| Philadelphia Bethlehem \& New England R. R. Co. | Retail merchandising serring employees and | 00 |
| Service Stores Corporation (Pennsylvania) .-.-- | Retailmerchandising serving employees and the public. | 100 |
| Service Stores Corporation (Michigan) | --.-do. | 100 |
| South Buftalo Ry. Co-.... ${ }^{\text {Steeltan }}$ \& Hiphspire R. R. | Common carrier | 100 |
| Sunday Lake Iron Co., The.. | Mining iron ore | 100 |
| Cambria Steamship Co | Transportatiou | 62 |
| Corsica Iron Co | Mining iron ore | 67 |
| Cuyuna Ore Co | do | 60 |
| Farmers' \& Merchants' Bank | Banking. | 100 |
| Hobart Iron Co------ | Mining iron ore | 67 53 |
| Palmer Mining Co. | Mining iron ore | 51 |

## Appendix Table 3.-Active subsidiaries of Republic Steel Corporation at Dec.

 31, $1937^{1}$| Name | Kind of business in which engaged | Percent of control |
| :---: | :---: | :---: |
| Beaver Falls Water Power Co. |  | 67 |
| Berger Manufacturing Co. of Mass., The | Metal office equipment | 67 |
| Columbia Land Co., The------- |  | 100 |
| Donner Mining Co-.-- |  | 100 94 |
| Howard Supply C0, |  | 94 81 |
| Upper Mahoning Land Co., The. |  | 100 |
| Penokee Ore Co..- |  | 100 |
| Republic Collieries Co. |  | 00 |
| Republic Steel Corporation of Delaware |  | 00 |
| Republic Supply Co |  | 85 |
| Searight Supply Co.- |  | 00 |
| Steel \& Tubes, Inc Products Company, |  | 100 |
| Truscon Steel Co.-.-.....--------- | Fabricated steel products | 75 97 |
| Union Drawn Steel Co., Ltd |  | 100 |
| Vance Iron \& Steel Co. |  | 100 |

${ }^{1}$ Company also held minority equities in the following companies:
Donner-Hanna Coke Corporation ( 50 percent).
Fretz-Moon Tube Co., Inc. ( 50 percent).
Susquehanna Ore Co. ( 59 percent).
Lake Erie Lirnestone Co. (57 percent).
Mahoning Ore \& Steel Co. ( 6 percent).
Mesaba-Cliffs Mining Co.

## Appendix Table 4.-Active subsidiaries of Jones \& Laughlin Steel Corporation at Dec. 31, 1987



Appendix Table 5.-Active subsidiaries of National Steel Corporation at Dec. 31, $193 \%^{1}$

| Name | Kind of business in which engaged | $\begin{gathered} \text { Percent } \\ \text { of } \\ \text { control } \end{gathered}$ |
| :---: | :---: | :---: |
| Weirton Steel Co. | Manufactures steel and iron.- | 100 |
| Weirton Improvement Co. | Water supply, housing, etc. | 100 |
| Midwest Steel Corporation | Plant site in Chicago district | 91 |
| Oak Hill Supply Co- | General store--......--...-. | 95 |
| Great Lakes Steel Corporation | Manufactures steel products | 100 |
| Hanna Furnace Corporation, The - | Pig iron | 100 |
| Hanna Iron Ore Co. of Delaware | Iron ore properties, holding company | 100 |
| American Boston Mining Co., The | Iron ore properties | 100 |
| Hanna Iron Ore Co. (Michigan) |  | 100 |
| Homer Ore Co. | do | 100 |
| Hanna Ore Mining Co | do | 70 |
| Richmond Iron Co. | do | 67 |
| Williams Ore Co. | do | 100 |
| Weirton Coal Co | Mining coal | 100 |

## ${ }^{1}$ Minority equities are held in the following iron ore companies:

Mahoning Ore \& Steel Co. ( 7 percent).
Mesaba Cliffs Mining Co. (11 percent).
Nokay Iron Co. (67 percent).
Susquehanna Ore Co. ( 25 percent).

Appendix Table 6.--Active subsidiaries of Youngstown' Sheet \& Tube Co. at Dec. 31, 1997 :

| Name | Kind of business in which engaged | $\begin{gathered} \text { Percent } \\ \text { of } \\ \text { control } \end{gathered}$ |
| :---: | :---: | :---: |
| Vinegar Hill Zinc Co. | Zinc and lead | 95 |
| Youngstown Metal Products Co | Stamping plant | 100 |
| Youngstown Mines Corporation, The | Iron ore and coal | 100 |
| Buckeye Coal Co., The | Bituminous coal mining:- | 100 |
| Buckeye Land Co., The | Real estate | 100 |
| Nemacolin Ferry Co., The | Ferry transportation | 100 |
| Nemacolin Supply Co...-...-...-.... | General merchandise....... | 100 |
| Youngstown Steel Products Co., The | Merchandising iron and steel products. | 100 |
| May ville Iron Co., Th | Timber and farm lands. | 100 |
| Delotex Co., The | Lessor of oil and gas properties | 100 |
| Continental Supply Co., The | Merchandising oil and gas well supplies | 100 |
| Contivental Emsco Co., Inc.-.-.-. | General merchandising | 100 |
| Mahoning Insurance Co | General fire insurance. | 100 |
| Biwabik Mining Co,. The | Iron ore | 75 |
| Balkan Mining Co., The | do | 67 |
| Crete Mining Co.. | - | 60 |
| Century Zinc Co., The | Zinc and lead | 60 |
| Mahoning Mining Co. | Fluor spar | 60 |

${ }^{1}$ Other companies in which minority equities are held are listed here:
Bennett Mining Co.-iron ore ( 33 percent).
Campbell Mining Co.-iron ore ( 33 percent).
Cuyuna Ore Co.-iron ore ( 20 percent).
Hoyt Mining Co.-iron ore ( 10 percent).
Mahoning Ore \& Steel Co.-iron ore ( 12 percent).
Palmer Mining Co.-iron ore ( 15 percent).
Plymouth Mining Co.--iron ore ( 20 percent).
Vermillion Mining Co.--iron ore ( 37 percent).
Volunteer Ore Co-iron ore ( 33 percent).
Carbon Limestone Co.-limestone quarry ( 18 percent).
Cambria Steamship Co.-Great Lakes transportation ( 12 percent).
Interlake Steamship Co.-Great Lakes transportation ( 10 percent).
Mahoning Stearnship Co.-Great Lakes transportation ( 6 percent).
Chicago Short Line Ry. Co.-belt line railway ( 49 percent).
Direct Current Welding Co.-holds welding patents ( 50 percent).
Pennsylvania \& Lake Erie Dock Co.-docks (4 percent).
Youngstown Steel Door Co.-steel doors and specialties for railroad cars (8 percent).
Appendix Table 7.-Active subsidiaries of Inland Steel Co. at Dec. 31, $1987^{1}$

| Name | Kind of business in which engaged | $\begin{aligned} & \text { Percent } \\ & \text { of } \\ & \text { control } \end{aligned}$ |
| :---: | :---: | :---: |
| Joseph T. Ryerson \& Son, Inc | Fabricator and distributor of steel products | 100 |
| Milcor Steel Co | Manufacturer and fabricator of miscellaneous building materials from steel sheets. | 100 |
| Inland Lime \& Stone Co | Quarrying limestone | 100 |
| Indiana Harbor Houses Co. | Building and renting of houses to employees -- | 100 |
| Inland Steel Co. of Wisconsin. | Manufacturers of steel sheets-plant now dismantled. | 100 |
| Inland Tar Co | Manufacturer of tar products | 100 |

${ }^{1}$ Other iron ore companies in which minority equities are held are listed here:
Mahland Ore Co. ( 50 percent).
Susquehanna Ore Co. ( 25 percent).
Michigan Mineral Land Co. ( 50 percent).
Mesaba Cliffs Mining Co. (14 percent).

## Appendix Table 8.-Active subsidiaries of The American Rolling Mill Co. at Dec. 31, $1937{ }^{1}$

| Name | Kind of business in which engaged | Percent of contro |
| :---: | :---: | :---: |
| Sheffield Steel Corporation | Manufacture and sale of iron and'steel | 100 |
| Armco International Corporation, The ${ }^{2}$ | Exporters of iron and steel-holding compaņy- | 100 |
| Armeo Railroad Sales C0.--..-........ | Sale of iron and steel products....... .-. . . - .- | 100 |
| American Rolling Mill Co. of California, The. | Wholesale dealers in sheet iron and steel | 100 |
| California Corrugated Cuivert Co. | Manufacture anci sale of metal culverts | 100 |
| Western Metal Manufacturing Co. (of Arizona). | Sale of metal culverts | 100 |
| Dakota Culvert \& Pipe Co. | Manulacture and sale of metal culverts. | 100 |
| Dixie Culvert \& Metal Co., The | .do | 100 |
| Dixie Culvert \& Pipe Co., The |  | 100 |
| Fort Worth Tank \& Culvert Co. |  | 100 |
| R. Hardesty Manufacturing Co., | do | 100 |
| Harry Bros. Co. of Louisiana. | Jobbers and fabricators of iron and steel | 100 |
| Iowa Culvert \& Pipe Co. | Manufacture and salo of metal culverts | 95 |
| Lyle Culvert \& Pipe Co. | do | 100 |
| Maryland Culvert \& Pipe Co., The | do | 100 |
| Missouri Culvert \& Pipe Co | do. | 100 |
| Montana Culvert \& Pipe Co | do | 100 |
| Nebraska Culvert \& Pipe Co., | do | 100 |
| W. Q. O'Neall Co. of Illinois, The. | do | 100 |
| Pure Iron Culvert \& Manufacturing | do | 100 |
| Road Supply \& Metal Co., The | ...do | 100 |
| Virginia Culvert Corporation | do | 100 |
| Washington Corrugated Culvert Co | do | 100 |
| Western Metal Manufacturing Co. of Texas.- | do | 100 |
| Canada Ingot Iron Co., Ltd., The - |  | 100 |
| Drainage Engineering Co. of Canada, Ltd | Jobbers of iron and steel prod | 8 ¢ิ |
| F. K. Simonds Co.. | Foundry iron castings. | 100 |
| Armeo Coal Mining Corporation | Coal mining | 100 |
| Nellis Coal Corporation | do | 100 |
| Manchester Hotel Co., Th | Operates hotel | 100 |
| Boyd County Realty Co | General real estate | 100 |
| Aruzen Co. | Rolling mill developraent company | 51 |
| Middletown Realty Co., The | General real estate | 00 |
| Middletown Airport, Inc | A irport | 58 |

${ }^{1}$ A minority equity of 47 percent is held in Rustless Iron \& Steel Corporation and minority equities were held of from 15 to 33 percent in the following iron ore companies:

Hanna Ore Mining Co.
Castile Mining Co.
Fortune Lake Mining Co.
Richmond Iron Co.
St. James Mining Co.
${ }^{2}$ The names of 10 foreign subsidiaries of The Armco International Corporation are not included here.
Appendix Table 9.-Active subsidiaries of Wheeling Steel Corporation at Dec. 31, 1987 ${ }^{1}$

| Name | Kind of business in which engaged | $\begin{gathered} \text { Percent } \\ \text { of } \\ \text { control } \end{gathered}$ |
| :---: | :---: | :---: |
| Wheeling Corrugating Co........................ | Manufactures and sells sheet steel and formed products. | 100 |
| Coesolidated Expanded Metal Co., The. | Expanded metal products.. | 100 |
| Actarmann Manufacturing Co. | Pressed steel stampings. | 100 |
| Consumpers Mining Co. | Coal mining | 100 |
| Emperor Coal Co. | -...do | 100 |
| Luzerne Mercentie Co....--........-.....--- | Qeneral merchandise. | 100 |
| Benwood \& Wheoling Connecting Railway Co. | Connecting railroad. | 100 53 |

[^72]Appendix Table 10.-Active subsidiaries of Otis Steel Co. at Dec. \$1, 1997

| Name | Kind of business in whictrengaged | Percent of control |
| :---: | :---: | :---: |
| Cuyahoga Valley Ry. Co., The | Owns and operates connecting railroad | 100 |
| Beelick Knob Coal Co., The | Coal mining | 100 |
| Otis Steel Co. of Canada, Ltd | Limestone property | 100 75 |

Appendix Table 11.-Active subsidiaries oj Pittsburgh Steel Co. at Dec. 31, 1997.

| Name | Kind of busiuess in which engaged | Percent of contro |
| :---: | :---: | :---: |
| Monessen Southwestern Ry. Co. | Plant switching.- | 100 |
| Standard Land \& Improvement Co. | Land......- | 100 |
| Pittsburgh Steel Sales Co..---- | Sales company | 100 |

${ }^{1}$ Company also held minority equities in the following iron ore companies:
Bennett Mining Co. (2236 percent).
Mesaba-Cliffs Minlng Co. (16 percent).
Plymouth Mining Co. (10 percent).
Appendix Table 12.-Summary of investments, profits, and rates of return for Bethlehem Steel Corporation and subsidiaries, $1917-38$

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1. Preferre | \$14, 908,000 | \$44, 632,000 | \$44, 908, 000 | \$44, 908, 000 | \$44, 908, 000 | \$44, 908, 000 | \$57, 408, 000 | \$58, 776, 400 | \$59, 432, 510 | \$59, 891, 345 | \$97, 000, 000 | \$97, 000, 000 |
| 2. Common | 14, 862,000 | 59, 448, 000 | 59, 448, 000 | 59, 862, 000 | 59, 862,000 | 59, 862, 000 | 82, 470, 500 | 180, 151, 900 | 180, 151, 900 | 180, 151, 900 | 180, 000, 000 | 180, 000, 000 |
| 3. Total | 29, 770, 000 | 104, 080, 000 | 104, 356, 000 | 104, 770, 000 | 104, 770, 000 | 104, 770, 000 | 139, 878, 500 | 238, 928, 300 | 239, 584, 410 | 240, 043, 245 | 277, 000,000 | 277,000,000 |
| 4. Surplus-earned and capital. | 69, 370, 198 | 58,513,615 | 65, 057, 845 | 72, 804, 610 | 80, 826, 786 | 82, 418, 929 | 104, 050, 674 | 126, 188, 803 | 94, 003, 878 | 103, 100, 166 | 115, 283, 088 | 124, 319, 230 |
| 5. Surplus and contingency reser | 2,586, 590 | 4, 985, 863 | 4,998, 216 | 5,086,025 | 5, 956, 617 | 7,505, 529 | 7, 150, 826 | 5, 379, 919 | 5, 670,648 | $6,167,550$ | 2,974, 695 | 3, 179, 860 |
| profits taxes. | 1,252, 850 | 12,042,096 | 8, 801, 897 | 14, 369, 426 | 12, 709, 118 | 7,310, 803 | 7,041,572 | 10, 118, 607 | 4,626, 412 | 4, 160, 894 | 5, 113, 634 | 5, 002, 812 |
| 7. Capltal stock and surplus. | 102, 979, 638 | 179, 621, 574 | 183, 213, 958 | 197, 030, 061 | 204, 262, 521 | 202,005, 261 | 258, 121, 572 | 380,615, 629 | 343, 885, 348 | 353, 471, 855 | 400, 371, 417 | 409, 501, 932 |
| other intanglbles | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 | 14,083, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 |
| 9. Stockholde | 88, 895, 845 | 165, 537, 781 | 169, 130, 165 | 182, 946, 268 | 190, 178, 728 | 187, 921, 468 | 244, 037, 779 | 366, 531, 836 | 329, 801, 555 | 339, 388, 062 | 386, 287, 624 | 395, 418, 139 |
| 10. Minority stockholders' equity subsidiaries |  |  |  |  |  |  |  |  |  |  |  |  |
| 11. Long-term debt ${ }^{1}$ | 68,590,000 | $132,615,406$ | 142, 112, 505 | 118, 259, 193 | 141,619,696 | 146, 432, 897 | 156, 611,612 | $210,109,239$ | 237, 142, 264 | 226, 489, 944 | 207, 905,712 | 204.169, 447 |
| 12. Total investmen | 157, 485, 845 | 298, 153, 187 | 311, 242, 670 | 301, 205, 461 | 331, 798, 424 | 334, 354, 365 | 400, 649, 391 | 576, 641, 075 | 566, 943, 819 | 565, 878, 006 | 594, 193, 336 | 599, 587, 586 |
| 13. Average of total investment |  | 227, 819, 516 | 304, 697, 928 | 306, 224, 066 | 316, 501, 942 | 333, 076, 395 | 367, 501, 878 | 488, 645, 233 | 571, 792, 447 | 566, 410, 912 | 580, 035, 671 | 596, 890, 461 |
| 14. Average of stockholders' investment. |  | 127, 216, 813 |  |  |  |  |  |  |  |  |  | 300 |
| $15_{\text {d }}$ Average of common stockholders' |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 97, 446, 813 | 122, 563, 973 | 131, 130, 216 | 141, 654, 498 | 144, 142, 098 | 164, 821, 624 | 247, 192, 707 | 289, 062, 241 | 274, 932, 881 | 284, 392, 170 | 293, 852, 882 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |  |
| 16. Applicable to totai investment- |  | 47, 580, 242 | 29,007,000 | 33,671, 175 | 23, 800, 730 | 20, 417, 925 | 13, 554, 449 | 27, 789, 702 | 22, 204, 484 | 28, 736, 793 | 35, 105, 377 | 29, 277, 114 |
| Applicable to stockholders' investment. |  | 39, 240, 925 | 20, 535, 226 | 24, 989, 427 | 16, 194, 248 | 11, 243, 128 | 4, 828, 680 | 15, 657, 046 | 9,117, 735 | 15, 688, 488 | 22, 928, 492 | 17,860, 651 |
| holders' equity : <br> 18. Applicable to common stock- |  | 37, 602, 885 | 17,093, 866 | 21,545, 867 | 12, 750, 688 | 7,799,568 | 1,166, 370 | 11,338, 793 | 3,742, 548 | 11, 385, 415 | 16, 149, 637 | 11,070, 651 |
| Rate of return on total investment $16 \div$ 13) $\qquad$ percent. |  | 20.89 |  |  |  |  |  | 5. 69 |  | 5.07 | 6.05 | 4.90 |
| Rate of return on stockholders' invest- |  | 30.85 | 12. 27 | 14. 20 | 8.68 | 95 | 2.24 | 5.13 | 2. 62 | 4.6 | 6. 32 | 4.57 |
| Rate of return on common stockholders' equity $(18 \div 15)$ |  | 38. 59 |  | 16.43 | 9.00 |  | 71 | 4. 59 |  |  |  | 3.77 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. Common | 180, 000, 000 |  | 315, 900,000 | 315, 900,000 | 315,900, 000 |  |  | 315, 388 , 889 | \$112,000, 440 | \$112,060, 440 |  |  |
| 3. Total | 280,000,000 | 415, 900, 000 | 415, 900, 000 | 409, 900, 000 | 409, 300, 000 | 409, 288, 700 | 408, 784, 793 | 408, 731, 089 | 415, 269, 770 | 414, 652, 270 | 414, 544, 920 |  |
| 4. Surplus-earned and capital | 114, 922, 652 | 134, 565, 632 | 128, 471, 434 | 114, 844, 280 | 89, 221, 676 | 81, 145, 825 | 76, 370, 540 | 74, 487, 447 | 57, 562, 527 | 67, 248, 455 | 64, 863, 198 |  |
| 5. Surplus and contingency reserves. | 2,138, 990 | 3, 293, 614 | 2, 870, 741 | 91 | 3, 071,962 | 2, 500,000 | 3, 010,953 | 2,989, 326 | 3, 619,022 | 2, 782, 287 | 3,445, 073 |  |
| 6. Reserves for Federal income and profits taxes. | 5,837, 003 | 9, 139, 741 | 6, 557,787 | 3, 607, 253 | 728,506 | 541, 456 | 912, 815 | 1, 485, 014 | 3,559,556 | 7, 532, 727 | ${ }^{(2)}$ |  |
| 7. Capital stock and sur- | 402, 899, 645 | 562, 895, 957 | 553, 799, 962 | 531, 2;3, 024 | 502, 322, 144 | 493, 475, 981 | 489, 079, 101 | 487, 692, 876 | 480, 010, 875 | 492, 215, 739 | 482, 853, 191 |  |
| 8. Less goodwill. appreciation, and other intangibies. | 14, 083, 793 | 083, 793 | 14, 083, 793 | 14, 085, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 | 14, 083, 793 |  |  |  |  |
| 9. Stockholders' invest- | 388, 814, 852 | 548, 815, 194 | 539, 716, 169 | 517, 189, 231 | 488, 238, 351 | 479, 392, 188 | 474, 995, 308 | 473, 609, 083 | 480, 010, 875 | 492, 215. 739 | 482, 853, 191 |  |
| in subsidiari |  |  |  | 1, 804,000 | 1, 804, 000 | 1, 804,000 | 1,928, 883 | 1,933,544 | 98, 4.51 | 99,787 | 103, 589 |  |
| 11. Long-term deb | 199, 421, 172 | 184, 339, 595 | 117, 528, 600 | 136, 971, 877 | 126, 212, 420 | 121, 256, 639 | 116, 034, 495 | 142, 033, 000 | 142, 980, 066 | 170,919, 923 | 165, 372, 828 |  |
| 12. Total investment. | 588, 236, 024 | 733, 154, 789 | 657, 244, 769 | 655, 965, 108 | 616, 254, 771 | 602, 452, 827 | 592, 958, 686 | 617, 575, 627 | 623, 089, 392 | 663, 235, 449 | 648, 329, 608 |  |
| 13. Average of total investment | 593, 911, 805 | 660, 695, 407 | 695, 199, 779 | 656, 604, 938 | 636, 109, 940 | 609, 353, 799 | 597, 705, 756 | 605, 267, 157 | 620,332, 509 | 643, 162, 421 | 655, 782, 528 | 528, 805, 568 |
| vestment | 392, 116. 495 | 468, 815, 023 | 544, 265, 682 | 528, 452, 700 | 502, 713. 791 | 483, 815, 269 | 477, 193, 748 | 474, 302, 196 | 476, 800, 979 | 486, 113, 307 | 487, 534, 465 | 369, 365, 9 |
| 15. Average of common stockholders' equity | 293, 616, 495 | 368,815, 023 |  |  | 409, 013, 791 |  | 383, 805, 448 | 380, 913, 496 | 374,082, 409 |  |  | 291, 686, 021 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  | 83, 805, 48 | - 013,406 | 374,082, 408 | $374,046,86$ | 375, 46, 025 | -1,606, 21 |
| 16. Applicabie to total lnvestment | 32, 524, 360 | 58, 994, 780 | 32, 741, 711 | 241, 202 | ${ }^{3} 12,901,012$ | ${ }^{3} 2,500,519$ | 7, 223, 743 | 11, 914, 935 | 23, 046, 788 | 44, 490, 757 | 12, 928, 776 | 23, 947, 750 |
| 17. Appiicable to stockholders' investment | 21, 323,918 | 042, 8 | 626, 705 | 152, 80 | ${ }^{19} 12,667,870$ | 3 8, 937, 224 | 968, 864 | 5, 275, 747 | 16, 949, 817 | 38, 017,712 | 6, 150, 104 | 15, 099, 42 |
| 18. Applicable to common stockholders' equity | 14, 481, 418 | 41, 042, 816 | 18, 626, 705 | ${ }^{3} 6,742,191$ |  |  | ${ }^{3} 5,568,345$ | ${ }^{3} 1,261,462$ | 11, 346, 495 | 30, 546, 616 | ${ }^{\text {\% } 1,320,992}$ | $9,595,7$ |
| Rate of return on total invest- |  |  |  |  |  |  |  | 1,261,462 | 11,34, 495 | 30, 546, | 1,320, 08 | 9, 59.5, |
| ent $(16+13)$ $\qquad$ percent | 5. 48 | 8.93 | 4.71 | 1. 10 | 2.0 | ${ }^{3} 0.41$ | 1 | 97 | 3.72 | 6. 92 | 1. | 4.53 |
| vestment ( $17+14$ )...-percent .- | 5.44 | 10.2 | 4.71 | . 03 | 33.92 | 1.85 | . 20 | 11 | 3.55 | 7.82 | 1.26 | 4.09 |
| Rate of return on common stock- holders' c zuity $(18 \div 15)$ percent | 4. 93 | 11.13 | 4.19 | . 56 | 36.41 | ${ }^{3} 3.96$ | 81.45 | 3. 33 | 3.0 | 8.17 | 3.35 | 3. 29 |

Appendix Table 12a.-Summary of income, expenses, and surplus for Bethlehem Steel Corporation and subsidiaries, $1917-98$

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$298, 929, 531 | \$448, 410, 809 | \$281, 641, 808 | \$274, 431, 236 | \$147, 794, 353 | \$131, 866, 111 | \$275, 213, 423 | \$243, 004, 266 |
| Cost of goods sold | $225,626,795$ $10,693,312$ | $379,762,963$ $10,718,026$ | 229,202, 684 | 227,600, 092 | $117,151,710$ 7836 | 108, 044, 422 | 225, 271, 587 | 199, 305, 032 |
| Provision for depreciation and depletion | 17,911,641 | 31, 510, 3 ¢. 6 | 12, 566,152 | - 3 , 9411,514 | 6,002, 715 | 6,499, 189 | 10,676,078 | $12,496,103$ $11,846,891$ |
| Total oferating expenses. | 254, 231, 748 | 421, 991, 355 | 249, 248, 380 | 251, 512,312 | 120, 99n, 503 | 121, 169,449 | 248, 217, 231 | 223, 648, 031 |
| Net income from operations. Other income (net) | $\begin{array}{r} 44,697,793 \\ 2,882,459 \end{array}$ | $\begin{array}{r} 26,419,454 \\ 2,597,546 \end{array}$ | $\begin{array}{r} 32,393,528 \\ 1,277,647 \end{array}$ | 22, 918, 881,806 | $\begin{array}{r} 16,803,850 \\ 3,614,075 \end{array}$ | $\begin{array}{r} 10,696,663 \\ 2,857,786 \end{array}$ | $\begin{array}{r} 26,996,192 \\ 793,510 \end{array}$ | $\begin{array}{r} 20,256,235 \\ 1,948,249 \end{array}$ |
| Net income applicable to total investment. Less interest on long-term debt. | $\begin{array}{r} 47,580,242 \\ 8,339,317 \end{array}$ | $\begin{array}{r} 29,007,000 \\ 8,471,774 \end{array}$ | $\begin{array}{r} 33,671,175 \\ 8,681,748 \end{array}$ | $\begin{array}{r} 23,800,730 \\ 7,606,482 \end{array}$ | $\begin{array}{r} 20,417,925 \\ 9,174,797 \end{array}$ | $\begin{array}{r} 13,554,449 \\ 8,725,769 \end{array}$ | $\begin{aligned} & 27,789,702 \\ & 12,132,656 \end{aligned}$ | $\begin{aligned} & 22,204,484 \\ & 13,086,749 \end{aligned}$ |
| Net income applicable to stockholders' investment Provision for Federal income and profits taxes. | $\begin{aligned} & 39,240,925 \\ & 11,912,316 \end{aligned}$ | $\begin{array}{r} 20,535,226 \\ 4,610,335 \end{array}$ | $\begin{array}{r} 24,989,427 \\ 9,779,754 \end{array}$ | $\begin{array}{r} 16,194,248 \\ 1,776,033 \end{array}$ | $\begin{array}{r} 11,243,128 \\ 938,167 \end{array}$ | $4,828,680$ 126,868 | $15,657,046$ $1,317,893$ | 9, 117, 282,393 |
| Net income for the year Surplus beginning of the year | $\begin{array}{r} 27,328,579 \\ 69,370,198 \end{array}$ | $\begin{aligned} & 15,924,891 \\ & 58,513,615 \end{aligned}$ | $\begin{aligned} & 15,209,673 \\ & 65,057,815 \end{aligned}$ | $\begin{array}{r} 14,418,215 \\ 72,804,610 \end{array}$ | $\begin{aligned} & 10,304,961 \\ & 80,826,786 \end{aligned}$ | $\begin{array}{r} 4,631,812 \\ 82,418,929 \end{array}$ | $\begin{array}{r} 14,339,147 \\ 104,050,674 \end{array}$ | $\begin{array}{r} 8,835,342 \\ 126,183,803 \end{array}$ |
| Total | 96,638, 777 | 74, 438, 506 | 80, 267, 518 | 87, 222, 825 | 91, 131, 747 | 87, 050, 741 | 118, 385, 821 | 135, 024, 145 |
| Less dividends paid onCommon stock in cash | 6,539, 280 | 5, 914, 800 | 4, 166,535 | 2, 993, 100 | 2, 993, 100 | 3, 275, 706 | 7, 767,074 | 4, 494, 785 |
| Common stock in stock | $\begin{array}{r} 30,000,000 \\ 1,638,040 \end{array}$ | 3, 441, 360 | 3,443, 5 f0 | 3, 443, 560 | 3,443, 560 | 3,662, 310 | 4, 318, 253 | 5, 375, 187 |
| Total | 38, 177, 329 | 9, 386, 160 | 7,610, 095 | 6, 436, 660 | 6, 436,660 | 6, 938, 016 | 12, 085, 327 | 9, 869, 972 |
| Other net additions or deductions: <br> Adjustment of values in acquisition of assets or securities of other companies |  |  |  |  |  | 23, 2r 4, 431 | 21, 549, 904 | $125,514,335$ |
| Discount or premium on conversion, repurchase, sale or adjustment of values of own securities.. | 17,842 | 5,499 | 147, 187 | 40,621 | 1 2, 276, 158 | ${ }^{1} 26,482$ | 1 1,665, 595 | 1 5, 635,960 |
| Surplus end of the year | 58, 513,615 | 65, 057, 845 | 72, 804, 610 | 80, 826, 786 | 82, 418,929 | 104, 050, 674 | 126, 188, 803 | 94, 003, 878 |


|  | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales. | \$273, 025, 320 | \$304, 361, 805 | \$271, 502, 891 | \$294, 778, 287 | \$342, 516, 207 | \$253, 979, 253 | \$186, 541, 195 | \$96, 892, 488 |
| Cost of goods sold | 221, 786, 240 | 245, 728, 848 | 218, 114, 965 | 235, 462, 750 | 257, 905, 889 | 200, 895, 644 | 153, 531, 838 | 85, 949, 823 |
| Distribution and administrative expenses | 12,924, 945 | 13, 649, 058 | $13,667,763$ | $15,044,962$ | 18, 194,454 | 16.411, 682 | $15,235,171$ | 12, 722, 107 |
| Provision for depreciation and depletion. | 12, 004, 984 | 12,626, 665 | 13, 096, 496 | 13, 658, 335 | 14,009, 085 | 14, 217, 741 | 13, 844, 910 |  |
| Total operating expens | 246, 716, 169 | 272, 004, 571 | 244, 879, 224 | 264, 166, 047 | 290, 109, 427 | 231, 525, 067 | 182, 611, 919 | 111, 773, 51 |
| Net income from operations | 26, 309, 151 | $32,357,234$ | 26, 623,667 | 30, 612, 240 | 52, 406, 780 | $27,454,180$ <br> $5,287,525$ | $\begin{aligned} & 3,929,276 \\ & 3,311,926 \end{aligned}$ | $\begin{array}{r} 14,881,031 \\ 1,980,019 \end{array}$ |
| Other income (nct) --.-.... | 2, 427,642 | 2, 748, 143 | 2,653, 447 | 1,912, 120 | 6,588,000 | 5, 287, 525 | 3,311, 926 | $1,980,018$ |
| Net income applicable to total investment | 28, 736, 793 | 35, 105, 377 | 29, 277, 114 | 32, 524, 360 | 58, 994, 780 | 32, 741, 711 | 7,241, 202 | ' 12,901, 01 |
| Less: <br> Income applicable to minority interest |  |  |  |  |  |  | 108, 327 | 108, 32 |
| Interest on long-term debt.......----- | 13.048, 305 | 12,176,885 | 11,416, 463 | 11, 200, 442 | 10,951,964 | 7,115, 006 | 6, 980,066 | 6,658,531 |
| Net income applicable to stockholders' investme Provision for Federal income and profits taxes | $\begin{array}{r} 15,683,488 \\ 1,791,360 \end{array}$ | $\begin{array}{r} 22,923,492 \\ 2,434,775 \end{array}$ | $17,860,651$ $2,005,218$ | $\begin{array}{r} 21,323,918 \\ 2,666,001 \end{array}$ | $48,042,816$ $5,537,149$ | $\begin{array}{r} 25,626,705 \\ 1,773,239 \end{array}$ | $\begin{array}{r} 152,809 \\ 50,513 \end{array}$ | $\begin{array}{r} 19,667,870 \\ 244,118 \end{array}$ |
| Net income for the year | $\begin{aligned} & 13,897,128 \\ & 94,003,878 \end{aligned}$ | $20,493,717$ $103,100,166$ | $\begin{array}{r} 15,855,433 \\ 115,283,088 \end{array}$ | $\begin{array}{r} 18,657,917 \\ 124,319,230 \end{array}$ | $42,505,667$ <br> 114, 922, 652 | $\begin{array}{r} 23,853,466 \\ 134,565,632 \end{array}$ | $\begin{array}{r} 102,296 \\ 128,471,434 \end{array}$ | $\begin{aligned} & 19,623,752 \\ & 114,844,280 \end{aligned}$ |
| Tota | 107,901, 006 | 123, 593, 883 | 131, 138, 521 | 142, 977, 147 | 157,429, 319 | 158,419, 098 | 128, 573, 730 | 95, 220, 52 |
| Less dividends paid onCommon stock in cash |  |  |  | 1,800,000 | 15,600,000 | 19, 200, 000 | 6, 400,000 |  |
| Prefcrred stock in cash | 4, 303, 073 | 6,778, 855 | 6,790,000 | 6,842,500 | 7,000,000 | 7,000,000 | 6, 895, 000 | 1,645,00 |
| Total | 4,303, 073 | 6,778, 855 | 6,790, 000 | 8,642,500 | 22,600,000 | 26,200,000 | 13,295, 000 | 1,645, 000 |
| Other net additions or deductions: <br> Adjustment of values in acquisition of assets or securities of other companies. |  |  |  | $120,000,000$ |  |  |  |  |
| Discount or premium on conversion, repurchase, sale or adjustment of values of own securities Loss on abandonment of propertles $\qquad$ | 1497,767 | 1 1, 531, 940 | 129,291 | 588, 005 | 1262,687 | $13,747,664$ | $\begin{array}{r} 13,449 \\ \times 447,899 \end{array}$ | $\begin{array}{r} 219,321 \\ 14,573,173 \end{array}$ |
| Surplus end of the year | 103, 100, 166 | 115, 283, 088 | 124, 319, 230 | 114, 922, 652 | 134, 565, 632 | 128, 471, 434 | 114,844, 280 | 89, 221, 676 |

Appendix Table 12a.-Summary of income, expenses, and surplus for Bethlehem Steel. Corporation and subsidiaries, 1917-98-Continued

|  | 1933 | 2934 | 1935 | 1936 | 1937 | 1938 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$120, 163, 374 | \$167, 736, 124 | \$192, 543, 458 | \$287, 107, 706 | \$417, 538, 024 | \$265, 405, 540 | \$5, 581, 283, 309 |
| Cost of goods sold | 97, 557, 416 | $7^{34,715,666}$ | 151, 321,669 | 229, 205, 838 | 330, 418, 617 | 223, 646, 624 | 4, 498, 207, 111 |
| Distribution and administrative expenses Provisions for depreciation and depletion. | $\begin{aligned} & 12,623,191 \\ & 13,506,256 \end{aligned}$ | $14,048,494$ $13,779,639$ | $16,237,481$ $14.581,899$ | $\begin{aligned} & 19,813,690 \\ & 16,052,851 \end{aligned}$ | $\begin{aligned} & 27,057,177 \\ & 16,17 \mathrm{c}, 916 \end{aligned}$ | $\begin{aligned} & 13,700,290 \\ & 16,501,567 \end{aligned}$ | $\begin{aligned} & 299,419,642 \\ & 308.107,479 \end{aligned}$ |
| Total operating expenses | 123, 686, 863 | 162, 543, 799 | 182, 141, 049 | 265, 072,379 | 373,646, 710 | 253, 848, 481 | 5, 105, 734, 232 |
| Net income from operations. Other income (net) | $\begin{array}{r} 23,523,489 \\ 1,022,970 \end{array}$ | $\begin{aligned} & 5,192,325 \\ & 2,031,418 \end{aligned}$ | $\begin{array}{r} 10,402,409 \\ 1,512,526 \end{array}$ | $\begin{array}{r} 22,035,327 \\ 1,011,461 \end{array}$ | $\begin{array}{r} 43,891,314 \\ 599,443 \end{array}$ | $\begin{array}{r} 11,557,059 \\ 1,371,717 \end{array}$ | $\begin{array}{r} 475,549,077 \\ 51,301,435 \end{array}$ |
| Net income applicable to total investment | 2, 500, 519 | 7, 223, 743 | 11, 914, 935 | 23, 046, 788 | 44, 490, 757 | 12, 928, 776 | 526, 850, 512 |
| Income applicable to minority interest. Interest on long-term debt | $\begin{array}{r} 108,327 \\ 6,328,378 \end{array}$ | $\begin{array}{r} 108,327 \\ 6,146,552 \end{array}$ | $\begin{array}{r} 108,327 \\ 6,530,861 \\ \hline \end{array}$ | $\begin{array}{r} 95,828 \\ 6,001,143 \end{array}$ | $6,473,{ }^{2} 72$ | $\begin{array}{r} 3,795 \\ 6,774,877 \end{array}$ | $\begin{array}{r} 641,251 \\ 194,021,817 \end{array}$ |
| Net income applicable to stockholders' investment <br> Provision for Federal income and profits taxes.................. | $\begin{array}{r} 28,937,224 \\ \quad 2112,866 \end{array}$ | $\begin{aligned} & 968,864 \\ & 422,965 \end{aligned}$ | 5, 275,747 909,803 | $\begin{array}{r} 16,949,817 \\ 3,048,358 \end{array}$ | $\begin{array}{r} 38,017,712 \\ 6,163,402 \end{array}$ | $\begin{array}{r} 6,150,104 \\ 908,241 \end{array}$ | $\begin{array}{r} 332,187,444 \\ 58,367,835 \end{array}$ |
| Net income for the yea Surplus begianing of the yea | $\begin{array}{r} 28,824,358 \\ 89,221,676 \end{array}$ | $\begin{array}{r} 545,899 \\ 81,145,825 \end{array}$ | $\begin{array}{r} 4,365,944 \\ 76,370,540 \end{array}$ | $\begin{array}{r} 13,901,459 \\ 74,487,447 \end{array}$ | $\begin{array}{r} 31,854,310 \\ 57,562,527 \end{array}$ | $\begin{array}{r} 5,241,863 \\ 67,248,455 \end{array}$ | 273, 819, 609 |
| Total | 80, 397, 318 | 81, 691, 724 | 80, 736, 484 | 88, 388, 906 | 89, 416, 837 | 72, 490, 318 | -...---.-.....- |
| Loss dividends paid on- |  |  |  |  |  |  |  |
| Common stock in cash |  |  |  | 4,787,421 | 15, 941, 020 |  | 101, 902, 821 |
| Common stock in stock |  |  |  |  |  |  | $30,000,000$ |
| Preferred stock in cash |  | 1,634,302 | 3, 268, 604 | 5, 603, 322 | 7,471, 096 | 7,471,096 | 101, 468, 678 |
| Total |  | 1,634,302 | 3, 268, 604 | 10, 390, 743 | 23, 412, 116 | 7,471,096 | 233, 371, 499 |
| Other net additions or deductions: <br> Excess of par value of securities issued in 1905 over book value of assets. |  |  |  | 1 14, 083, 793 |  |  | ${ }^{1} 14,083,793$ |
| Loss on sale of property |  | ${ }^{1} 1,615,782$ |  |  |  |  | ${ }^{1} 1,615,782$ |
| Adjustment of values in acquisition of assets or securities of other companies |  |  |  | ${ }^{1} 194,699$ |  |  | 1 194, 699 |
| Discount or premium on converslon, repurchase, sale, or adjustment of values of own securities | 88,635 | 60,493 | ${ }^{1} 2,980,433$ | ${ }^{1} 6,157,144$ | 11,708, 600 | 1406,024 | ${ }^{1} 25,770,377$ |
| Other miscellaneous items.......... <br> Loss on abandonment of properties | 659, 872 | 12,131, 593 |  |  | - 2,952,334 | 250, 000 | $\begin{array}{r} 17,152,665 \\ 3,862,206 \end{array}$ |
| Surplus end of the year. | 81, 145, 825 | 76.370, 540 | 74, 487, 447 | 57, 562, 527 | 67, 248, 455 | 64, 863, 198 |  |


|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: | \$25,000,000 | \$25,000,000 | \$25,000,000 | \$25,000,000 | \$25,000,000 | \$25,000,000 | \$25, 000,000 | \$25,000,000 | \$25, 000,000 | \$25,000,000 | \$25, 000,000 | 5, 000, 000 |
| 2. Commo | 27, 191,000 | 27, 191,000 | 27, 191,000 | 27, 272, 800 | 30,000, 000 | 30,000, 00 | 30,000,000 | 30,000, 000 | 30,000,000 | 30,000,000 | 30,000,000 | 30,000,000 |
| 3. Total | 52, 191,000 | 52, 191, 000 | 52, 191, 000 | 52, 272, 800 | 55,000, 000 | 55,000,000 | 55,000, 000 | 55,000,000 | 55,000,000 | 55,000,000 | 55,000,000 | 55,000,000 |
| 4. Surplus-earned and capital | 18, 236, 251 | 30,711, 988 | $35,122,462$ | 33, 880, 972 | 37,441, 571 | 29, 576, 329 | 29, 994, 641 | 33, 003, 836 | 32, 921,772 | 33, 562, 389 | 34, 836,163 | 34, 904, 445 |
| 5. Surplus and contingency reserv | 284, 703 | 1,035, 801 | 2, 382, 250 | 1,464,997 | 1, 472,585 | 660,660 | 644, 054 | 635,310 | 579,938 | 631,985 | 591, 316 | 740, 19 |
| profits taxes. | 618,840 | 8,597, 086 | 5, 621,203 | 1,547, 050 | 2, 331, 116 | 1,691,399 | 59,760 | 693,174 | 273, 890 | 341, 516 | 517,682 | 431, 183 |
| 7. Capital stock | 71, 330, 794 | 92, 535,875 | 95, 316, 915 | 89, 165, 819 | 96, 245,272 | 86, 928, 388 | 85, 698, 455 | 89, 332, 320 | 88, 775, 700 | 89, 535, 890 | 90, 945, 161 | 91,075, 827 |
| 8. Less Intangibles | 32, 990, 728 | 32,990, 728 | 32, 990,728 | 32,990, 728 | 32, 990, 728 | 32, 990, 728 | 32, 990, 728 | 32, 990, 728 | 32, 990,728 | 32, 990, 728 | 32,990, 728 | 32, 990. 728 |
| 9. Stockholders' investment | 38, 340, 066 | 59, 545, 147 | 62, 326, 187 | $56,175,091$ | 63, 254, 544 | 53, 937, 660 | 52, 707, 727 | 56, 341, 592 | 55, 784, 972 | 56, 545, 162 | 57, 954, 433 | 58,085,099 |
| 10. Minority stockholders' equity subsidiaries |  |  |  |  |  |  |  |  |  |  |  |  |
| 11. Long-term debt ${ }^{2}$ | 16,795, 500 | 15,403,000 | 14, 275, 000 | 14,093,000 | 13,474,000 | 13, 357,000 | 13, 125,500 | 22, 253, 000 | 21, 338,500 | 24, 144,000 | 19,533. 000 | 18,797,000 |
| 12. Total investment. | 55, 135, 566 | 74,948, 147 | 76, 601, 187 | 70, 268,091 | 76, 728,544 | 67, 294, 660 | 65, 833, 227 | 78, 594, 592 | 77, 123, 472 | 80, 689, 162 | 77, 487, 433 | 76, 882,099 |
| 13. Aversge of total investment |  | 6., 041, 857 | 75, 774, 667 | 73, 434, 639 | 73, 498, 317 | 72,011,602 | 66, 563,944 | 72, 213, 909 | 77, 859,032 | 78, 906, 317 | 79, 088, 298 | 77, 184, 766 |
| 14. A verage of stockholders' investment. |  | 48, 942, 607 | 60, 935,667 | 59, 250, 639 | 59, 714, 817 | 58, 596, 102 | 53, 322, 694 | 54, 524, 659 | 56, 063, 282 | 56, 165, 067 | 57, 249, 798 | 58, 019, 766 |
| 15. Average of common stockholders' equity. |  | 23, 942, 607 | 35,035, 667 | 34, 250, 639 | 34, 714, 817 | 33, 596, 102 | 28, 322, 694 | 29, 524, 659 | 31, 063, 282 | $31,165,067$ | 32, 249, 798 | 33, 019, 766 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  | 3, 71, 81 | , | , | 20, 524,658 |  | , |  |  |
| 16. Applicable to total investment |  | 26, 495, 189 | 14, 210, 875 | 3, 189, 713 | 10, 167, 325 | 34,858, 269 | 1,355, 439 | 8, 172, 032 | 3, 314, 558 | 5, 433, 397 | 6,766, 317 | 4, 492, 456 |
| 17. Applicable to stockholders' inment |  | 25, 735, 854 | 13 | 2, 456, 310 | 9, 429, 358 | 3 5,665, 243 | 478, 072 | 6, 945, 392 | 2, 191, 92 | 4, 155,00 | 5, 582,704 | 3,449, 465 |
| 18. Applicable to common stockholders' equity |  | 23,985; 854 | 11, 722,693 | 706, 310 | 7,679, 358 | 3, 7, 415, 243 | 31, 271, 928 | 5, 195, 392 | 441, 926 | 2, 405,000 | 3,832, 704 | 1,609, 465 |
| Rate of return on total in vestment ( $16 \div$ 13) <br> percent |  |  |  |  | 13.83 | ${ }^{6} 6.75$ |  | 11.32 | 4.26 | 6. 89 | 8.56 | 5.82 |
| Rate of return on stockholders' investment $(17 \div 14)$ |  |  |  |  |  | 9. 67 | . 90 | 12.74 | 3.91 | 7.40 | 9.75 | 5.95 |
| Rate of return on common stockholders' equity $(18 \div 15)$. do.- |  | 100. 18 | 33.46 | 2.06 | $\stackrel{1}{22.12}$ | 322.07 | 3 4.49 | 17. 60 | 1. 42 | 72 | 11.88 | 5.15 |

1 Organized in 1930 as a consolidation of Republic Iron \& Steel Co., Central Alloy Steel Co., Donner Steel Co., and Berger Manufacturing Co.; figures prior to 1930 are for
Republic Iron \& Steel Co.
2 Less unamortized debt discount and expenses.
Appendix Table 13.-Summary of investments, profits, and rates of return for Republic Steel Corporation and subsidiaries, 1917-s8-Con.

|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: | \$25, 000, 000 | \$25, 000,000 | \$59,560, 900 | 859,560,800 | \$59, 560, 800 | *59, 560, 800 | \$69,560,800 | \$41, 289, 750 | \$40, 190, 050 | \$40, 190, 050 | 840, 190, 050 |  |
| 2. Common | 53, 173, 512 | 55, 622, 028 | 91, 289,344 | 91, 289, 344 | 91, 289, 344 | 91, 289, 344 | 92, 058, 968 | 92, 324, 312 | 93, 995, 228 | 129, 247, 330 | 129, 264, 311 |  |
| Tota | 78, 173, 512 | 80, 622.028 | 150, 850, 244 | 150, 850, 144 | 150, 850, 144 | 150, 850, 144 | 151, 619, 768 | $\begin{array}{r}133,614,062 \\ 59,982 \\ \hline 1\end{array}$ | 134, 185, 278 | 169, 437, 380 | 169, 454, 361 |  |
| 4. Surplus-earned and capital | 29, 480, 356 | 32, 144, 099 | 63, 425, 872 | 52, 677, 763 | 42, 698, 739 | 39, 326, 317 | 35, 951, 522 | 59, 982, 461 | 64, 299, 96 | $67,002,376$ | $58,711,282$ |  |
| 5. Surplus and contingency re................................ | 1. 756, 214 | 2, 028, 562 | 1,798, 101 | 1,748, 101 | 599, 138 | 392, 291 | 359, 502 |  |  |  |  |  |
| 6. Reserves for Federal income and profits taxes. | 500, 000 | 1,158, 000 |  |  |  |  |  | 677, 080 | 3, 677, 080 | 3, 300, 000 |  |  |
| 7. Capital stock and surp | 109, 910, 082 | 115, 952, 689 | 216, 074, 217 | 205, 276, 008 | 194, 148, 021 | 190, 568, 752 | 187, 930, 792 | 194, 273, 603 | 202, 162, 321 | 239, 739, 756 | 228, 165, 643 |  |
| 8. Less: Intangibles | 32, 990, 728 | 32,990, 728 | 32, 990, 728 | 32, 990, 728 | 32,990, 728 | 32, 990, 728 | 32,990, 728 | 8, 059, 005 | 8, 059,005 |  |  |  |
| Stockholders' investm | 76,919, 354 | 82,961,961 | 183, 083, 489 | 172, 285, 280 | 161, 157, 293 | 157, 578, 024 | 154, 940, 064 | 186, 214, 598 | 194, 103, 316 | 239, 739, 756 | 228, 165, 643 |  |
| 10. Minority stockholders equity in subsidiaries $\qquad$ |  |  |  | $5,000,000$ | 4, 615, 300 | $4,439,1$ | $\text { 4, 163, } 500$ | 4,320, 907 | 718,153 | 200, 094 | 166, 056 |  |
| 11. Long-term debt ${ }^{2}$-........ | 32, 756, 500 | 34, 556,000 | $63,884,400$ | $60,030,650$ | 50, 725, 250 | 48,818,850 | 53, 053, 700 | 77, 159, 787 | 107, 336, 782 | 89, 953, 311 | 86, 433, 476 |  |
| 12. Total investmen | 109,675, 854 | 117, 789,941 | 251, 967, 889 | 237, 315, 930 | 216, 497, 843 | 210, 835, 974 | 212, 157, 264 | 267, 695, 292 | 302, 158, 251 | 329, 893, 161 | 314, 765, 175 |  |
| 13. A verage of total investment -....... | 93, 278, 976 | 113, 732, 898 | 184, 878, 915 | 244, 641, 909 | 226, 906, 887 | 213, 686, 909 | 211, 496, 619 | 239, 926, 278 | 284, 926, 771 | 316, 025, 706 | 322, 329, 168 | 148, 335, 836 |
| 14. Average of stockholders' investment. | 67, 502, 226 | 79,940,658 | 133, 022, 725 | 177, 684, 384 | 166, 721, 287 | 159, 367, 658 | 156, 259, 044 | 170, 577, 331 | 190, 158, 957 | 216, 921, 536 | 233, 952,699 | 107, 949, 709 |
| 15. Average of common stockholders' equity. | 42, 502, 226 | 54, 940, 658 | 90, 742, 275 | 118, 123, 534 | 107, 160, 487 | 99, 806, 858 | 96, 698, 244 | 120, 152, 056 | 149, 419, 057 | 176, 731, 486 | 193, 762, 649 | 72, 628, 392 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |  |
| 16. Applicable to total investment | 6, 801, 760 | 13, 102, 222 | 436, 935 | ${ }^{3} 5,402,948$ | 3 8, 847, 826 | ${ }^{3} 1,133,293$ | ${ }^{3} 161,174$ | 8,999, 408 | 18, 087,745 | 17, 866, 607 | 072, 667 | 5, 700, 718 |
| 17. Applicable to stockholders' in- <br> vestment | 5, 142, 450 | 10, 938, 044 | 3 3, 522,003 | 3 9,312, 017 | ${ }^{3} 12,507,501$ | 3 4, 584, 724 | ${ }^{3} 3,543,844$ | 5, 351, 691 | 13, 081, 231 | 12, 869, 647 | ${ }^{3} 7,628,825$ | 3, 387, 167 |
| 18. Applicable to common stockholders' equity | 3, 392, 450 | 9, 188, 044 | ${ }^{3} 6,164,507$ | ${ }^{3} 12,885,665$ | ${ }^{8} 16,081,149$ | 3 8, 158, 372 | ${ }^{3} 7,117,492$ | 2, 940, 288 | 10, 669, 828 | 10, 458, 244 | 2 10, 038, 228 | 1, 144, 771 |
| Rate of return on total investment ( $16 \div 13$ ) $\qquad$ percent.- | 7.29 | 11.52 | 24 | 2.21 | 3.90 | ${ }^{3} 0.53$ | . 08 | 3. 75 | 5 | - 5.65 | . 95 | 3.8 |
| Rate of return on stockholders' investment ( $17 \div 14$ )......................percent. . | 7.62 | 13.68 | 5 | 5.2 | 7.50 | . 88 | . 27 | 4 | 8 | 5.93 | 13.28 | 3.1 |
| Rate of return on common stockholders' equity ( $18 \div 15$ ) percent. | 7.98 | 16.72 | ${ }^{3} 6.79$ | ${ }^{3} 10.91$ | ${ }^{3} 15.01$ | ${ }^{3} 8.17$ | 7. 36 | 4 | 7.14 | , 5.92 | 5. 18 | 1.58 |

[^73]See footnotes at end of table.
Appendix Table 13a.-Summary of income, expenses, and surplus for the Republic Steel Corporation and subsidiaries, 1917-38

Appendix Table 13a.-Summary of income, expenses, and surplus for the Republic Stee! Corporation and subsidiaries, 1917-38-Continued

Surplus end of year -....-Denotes loss.
Denotes deduction.
Note.-Figures for years prior to 1930 are for Republic Iron \& Steel Co.
Appendix Table 14.-Summary of investments, profits, and rates of return for Jones \& Laughlin Steel Corporation and subsidiaries, $1917-38{ }^{1}$

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: <br> 1. Preferred |  |  |  |  |  |  |  | \$55, 845, 500 | \$55, 928, 400 | \$56, 850, 800 | \$57, 036, 400 | \$58, 331, 800 |
| 2. Commo | \$29, 027, 500 | \$28, 987, 500 | \$29, 167, 500 | \$29, 257, 500 | \$29,525, 000 | \$29, 470, 000 | \$30, 000, 000 | 57, 332, 000 | 57, 332, 000 | 57, 332, 000 | 57, 332, 000 | 57, 332, 000 |
| -3. Tot | 29, 027, 500 | 28, 987, 500 | 29, 167, 500 | 29, 257, 500 | 29, 525, 000 | 29, 470, 000 | 30, 000, 000 | 113, 177, 500 | 113, 260, 400 | 114, 182, 800 | 114, 368, 400 | 115, 663, 800 |
| 4. Surplus. | 68, 703, 271 | 89, 514, 554 | $90,933,960$ | 102, 206, 197 | 118, 950, 657 | $110,914,871$ | 115, 049, 256 | 30, 808, 275 | 35, 080, 722 | 40, 941, 835 | 49, 270, 070 | 53, 413, 072 |
| 5. Contingency reser | 128, 443 | 128, 443 |  |  | 7, 500, 000 | 6,602, 593 | 6,602, 593 | 6, 665, 998 | 6,824, 994 | 6, 902, 796 | 6,944, 499 | 7,051, 754 |
| 6. Reserves for Federal income and profits taxes ? | 401, 103 | 21, 621, $90^{\circ} 6$ | 16,252, 857 | 9, 715, 380 | 17, 288, 364 | 891, 599 | 979,658 | 2, 362, 146 | 2, 369, 750 | 2, 609, 227 | 3, 468, 948 | 3,000,809 |
| 7. Capital stock and surplus | 98, 260, 317 | 140, 252, 403 | 136, 354, 317 | 141, 179, 077 | 166, 264, 021 | 147, 879, 063 | 152, 631, 507 | 153, 013, 919 | 157, 535, 866 | 164, 636, 658 | 174, 051, 917 | 179, 129, 435 |
| 8. Minority stockholders' equity in subsidiaries | 5,700 | 5,700 | 5,700 | 5,700 |  |  |  |  |  |  |  |  |
| 9. Long-term debt ${ }^{3}$ | 23, 481, 000 | 21, 010, 000 | 20, 752, 000 | 18, 729,000 | 17, 939, 720 | 22, 312, 000 | 21, 084, 000 | 19, 735, 000 | 18, 357, 000 | 17, 100, 000 | 15,575, 000 | 12, 982, 000 |
| 10. Total investment | 121, 747, 017 | 161, 268, 103 | 157, 112, 017 | 159, 913, 777 | 184, 203, 741 | 170, 191, 063 | 173, 715, 507 | $172,748,919$ $173,232,213$ | $175,892,866$ $174,320,893$ | $181,736,658$ $178,814,762$ | $189,626,917$ $185,681,788$ | $\begin{aligned} & 192,111,435 \\ & 190.869 .176 \end{aligned}$ |
| 11. Average of total investment .-.-.--- |  | 141, 507, 560 | 159, 190, 060 | 158, 512, 897 | 172, 058, 759 | 177, 197, 402 | 171, 953, 285 | 173, 232, 213 | $174,320,893$ | 178, 814, 762 | 185, 681, 788 | $190,869,176$ |
| 12. Average of stockholders' investment |  | 119, 256, 360 | 138, 302, 360 | 138, 766, 697 | 153, 721, 549 | 157, 071, 542 | 150, 255, 285 | 152, 822, 713 | 155, 274, 893 | 161, 086, 262 | 169, 344, 288 | 176,590,676 |
| 13. Average of common stockholders' equity |  | 119, 256, 360 | 138, 302, 360 | 138, 766, 697 | 153, 721, 549 | 157, 071,542 | 150, 255, 285 | 124, 899, 963 | 99, 387, 943 | 104, 696, 662 | 112, 400, 688 | 118, 906, 576 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |  |
| 14. Applicable to total investment |  | 47, 675, 913 | 21,573, 988 | 23, 621, 348 | 31, 812, 015 | 4 2, 551, 759 | 6,652, 455 | 13, 472, 575 | 10, 803, 716 | 12, 242, 395 | 18,078, 195 | 13, 553, 843 |
| 15. Applicable to stockholders' in- <br> ment |  | 46, 588, 793 | 20,512, 607 | 22, 591, 208 | 30,870, 597 | 4 3, 490, 026 | 5,511, 843 | 12, 406, 145 | 9, 804, 041 | 11, 317, 358 | 17, 227, 714 | 12, 805, 822 |
| 16. Applicable to common stockholders' equity. |  | 46, 588, 793 | 20,512, 607 | 22, 591, 208 | 30, 870, 597 | 4 3, 490, 026 | 5, 511, 843 | 8, 526, 272 | 5, 882, 104 | 7, 323, 977 | 13, 236, 795 | 8, 726, 485 |
| Rate of return on total investment <br> (14 $\div 11)$ $\qquad$ percent |  | 33.69 | 13.55 | 14.90 | 18.49 | 11.44 | 3.87 | 7. 78 | 6.20 | 6.85 | 9.74 | 7.10 |
| Rate of return on stockholders' investment $(15 \div 12)$ percent |  | 39. 06 | 14.83 | 16.28 | 20.08 | 12.22 | 3.67 | 8.12 | 6.31 | 7.03 | 10.17 | 7.25 |
| Rate of return on common stockholders' equity ( $16 \div 13$ ) $\qquad$ percent.. |  | 39.06 | 14.83 | 16.28 | 20.08 | 12.22 | 3.67 | 6.83 | 5.92 | 7.00 | 11.78 | 7.34 |

[^74]| Appendix Table 14.-Summ | ary of in | vestments | profits, | and rate 1917-38 | es of $r$ -Con | $n$ for $J$ ed | nes \& | aughlin | teel Cor | orporat? | $n \text { and } s$ | ries, |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1931 | 1935 | 1936 | 1937 | 1938 | Annual average |
| Capital stock: Preferred | \$58, 715, 100 | \$58, 713,900 | \$58, 713, 900 | \$58, 713.900 | \$58, 713, 900 | \$58, 713, 900 | \$58, 713,900 | \$58, 713, 900 | \$58, 713, 900 | \$58, 713, 900 | \$58, 713, 900 |  |
| 2. Conımon | 57, 632,000 | 57, 632, 000 | 57, 632, 000 | 57, 632, 000 | 57, 632, 000 | 57, 632,000 | 57, 632, 000 | 57, 632,000 | 57, 632, $\mathrm{CO}^{0} 0$ | 57, 632, 000 | 57, 632, 000 |  |
| $3 . \mathrm{Tot}$ | 116, 347, 100 | 116, 345, 900 | 116, 345, 900 | 116, 345, 900 | 116, 345, 900 | 116,345, 900 | 116, 345, 900 | 116, 345, 900 | 116, 345, 900 | 116, 345,900 | 116, 345, 900 |  |
| 4. Surplus... | 61, 219, 465 | 72, 897, 6388 | 74, 749, 352 | 67, 291, 440 | 56, 399, 814 | 51,038, 671 | 48,547, 581 | $48,477,015$ | $49,304,909$ | $50,204,472$ | 45, 289, 755 |  |
| 5. Contingency reserves | 6, 966, 085 | 6, 871, 174 | 6, 787, 279 | 4, 767, 628 | 3,000, 000 | 3, 000,000 | 3,000,000 | 3,000,000 | 2, 043, 546 | 2,043, 546 | 2,043,546 |  |
| 6. Reserves for Federal income and profits taxes ${ }^{2}$ | 3, 403, 807 | 3,511, 601 | 2, 191, 650 | 200, 441 | 8,469 | 9,123 | 35,543 | 216, 048 | 362, 986 | 955,689 |  |  |
| 7. Capital stock and surplus. . | 187, 936, 457 | 199, 626, 313 | 200, 074, 181 | 188, 605, 409 | 175, 754, 183 | 170, 393, 694 | 167, 929, 024 | 168, 038, 963 | 168, 057, 341 | 169, 549, 607 | 136, 679, 201 |  |
| subsidiaries |  |  |  |  |  |  |  |  |  |  | 950 |  |
| 9. Long-term debt ${ }^{3}$-...... | 12,656,000 | 11, 328, 000 | 10, 852, 000 | 9, 929, 000 | 9, 693, 601 | 8,416, 232 | 7, 867, 865 | 6, 449,003 | 34, 012, 818 | 32, 259, 145 | 47, 956, 437 |  |
| 10. Total investment | 200, 592, 457 | 210, 954, 313 | 210, 926, 181 | 198, 534, 409 | 185, 447, 784 | 178, 809, 926 | 175, 796, 889 | 174, 487, 966 | 202, 070, 159 | 201, 808, 752 | 212, 584, 588 |  |
| 11. A verage of total investment .-....- | 196, 351, 946 | 205, 773, 385 | 210, 940, 247 | 204, 730, 295 | 191, 991, 097 | 182, 128, 855 | 177, 303, 408 | 175, 142, 428 | 188, 279, 063 | 201, 939, 456 | 207, 196, 670 | \$182, 959, 802 |
| 12. Average of stockholders' investment | 183, 532, 946 | 193, 781, 385 | 199, 850, 247 | 194, 339, 795 | 182, 179, 796 | 173, 073, 939 | 169, 161, 359 | 167, 983, 994 | 168, 048, 152 | 168, 803, 474 | 166, 614, 404 | 165, 448, 278 |
| 13. A verage of common stockholders' equity | 125, 009, 496 | 135, 066, 885 | 141, 136, 347 | 135, 625, 895 | 123, 465, 896 | 114, 360, 039 | 110, 447, 459 | 109, 270, 094 | 109, 334, 252 | 110, 089, 574 | 107, 900, 504 | 121, 516, 912 |
| Net income before deducting Federal income and profits taxes: | 125, 0 | 135, 06,8 | 141, | - | , |  | , | , |  | , | , |  |
| 14. Applicable to total in vestment;- | 18, 174, 378 | 23, 777, 575 | 10, 674, 721 | 41,728,693 | 1 7, 468, 951 | 4 4,075, 147 | 1 2, 376, 305 | 100, 933 | 5, 554, 157 | 7,007, 342 | 4 3, 713, 617 | 11,039, 140 |
| 15. Applicable to stockholders | 17, 532, 640 | $23,182,869$ | 10, 121, 706 | 1 2, 242,078 | 4 7, 920, 833 | 4 4, 471,048 | 1 2, 719, 620 | ${ }^{4} 181,950$ | 4, 464, 600 | 5, 613,799 | 4 5, 813, 616 | 10, 168, 753 |
| 16. Applicable to common stockholders' equity | 13, 428, 266 | 19, 072, 854 | 6, 011, 733 | 4 6, 352,051 | 412,030, 806 | 4 8, 581, 021 | 4 6, 829,593 | 4 4, 291, 923 | 354, 627 | 1, 503, 826 | 49, 881, 801 | 7, 212,944 |
| Rate of return on total investment (14 $\div 11$ ) .......................... percent.. | 9. 26 | 11.56 | 06 | 0.84 | 43.89 | 2. 24 | 1. 34 | 0.06 | . 95 | . 47 | 1.79 | 6.03 |
| Rate of return on stock holders' investment $(15 \div 12)$ <br> percent |  |  |  |  | 14.35 |  | 61 |  | 2.66 | 33 | 3.49 |  |
| Rate of return on common stock holders |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 10. |  | 4. 26 |  | +9.74 | - 7.50 |  |  | . 32 | 1.3 |  | 5.79 |

${ }^{1}$ In 1922 the company's name was changed from Jones \& Laughlin Steel Co. to Jones \& Laughlin Steel Corporation. ${ }^{3}$ Less unamortized debt discount and expense.
Appendix Table 14a.-Summary of income, expenses, and surplus for Jones \& Laughlin Steel Corporation ${ }^{1}$ and subsidiaries, $1917-88$

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$129, 810, 539 | \$128, 923,400 | \$103, 243, 608 | \$148, 615, 441 | \$39,930, 625 | \$72, 309, 755 | \$108, 482, 551 | \$95, 197, 184 | \$109, 261, 241 | \$115, 182, 341 | \$104, 617, 400 |
| Cos | 74, 410, 113 | 99, 506, 048 | 72, 770, 347 | 109, 896, 112 | 38, 901, 251 | 59, 454, 842 | 86,624, 851 | 76,601, 240 | 88, 248, 138 | 86, 727, 065 | 81, 500, 576 |
| Distribution and administrative expenses. | 2,897, 812 | 4,069,690 | 4, 387, 868 | 4,780,029 | 4, 574, 043 | 5, 115, 443 | 6, 178, 181 | 5, 904, 891 | , 215, 579 | 7,744,961 | 7,630, 237 |
| Provision for depreciation and depletion. | 5, 947,798 | 5, 888, 351 | 4, 668, 926 | 5, 161, 155 | 2, 448, 678 | 4,026, 469 | 4, 746, 868 | 4, 238, 449 | 4, 792, 050 | 5, 210,631 | 4, 572, 359 |
| Total operating ex | 83, 255, 723 | 109, 464,089 | 81, 827, 141 | 119, 837, 296 | 45, 923, 972 | 68, 596, 754 | 97, 549,900 | 86, 744,580 | 99, 255, 767 | 99,682,657 | 93, 703, 172 |
| Net income from o Other income (net) | $\begin{array}{r} 46,554,816 \\ 1,121,097 \end{array}$ | $\begin{array}{r} 19,459,311 \\ 2,114,677 \end{array}$ | $\begin{array}{r} 21,416,467 \\ 2,204,881 \end{array}$ | $\begin{array}{r} 28,778,145 \\ 3,033,870 \end{array}$ | $\begin{array}{r} \mathbf{r}, 993,347 \\ 3,441,588 \end{array}$ | $\begin{array}{r} 3,713,001 \\ 2,939,45 \end{array}$ | $\begin{array}{r} 10,932,651 \\ 2,539,924 \end{array}$ | $\begin{aligned} & 8,452,604 \\ & 2,351,112 \end{aligned}$ | $\begin{array}{r} 10,005,474 \\ 2,236,921 \end{array}$ | $\begin{array}{r} 15,499,684 \\ 2,578,511 \end{array}$ | $\begin{gathered} 10,914,228 \\ 2,639,615 \end{gathered}$ |
| Net income applicable to total investment. | 47, 675, 913 | 21, 573, 988 | 23, 621, 348 | 31, 812, 015 | ${ }^{2}$ 2, 551, 759 | 6,652, 455 | 13, 472, 575 | 10, 803, 716 | 12, 242, 395 | 18, 078, 195 | 13, 553, 843 |
| Less: <br> Income applicable to minority interest ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |
| Interest on long-term deb | 1,087, 120 | 1,061, 381 | 1,030,140 | 941, 418 | 938, 267 | 1, 140, 612 | 1,066, 430 | 999, 675 | 925,037 | 850, 48 | 748, 021 |
| Net income applicable to stockbolders' investment | 46, 588, 793 | 20, 512,607 | 22, 591, 208 | 30, 870, | ${ }^{2} 3,490$, | 5,511, 843 | 12, 406, 145 | 9, 804, 041 | 11, 317, 358 | 17, 227, 714 | 12, 805, 822 |
| Provision for Federal income and profits taxes. | 19, 966, 760 | 13, 218, 076 | 5, 470, 971 | 8,259,512 | 120,011 | 77,708 | 1, 492, 267 |  | 1, 362, 864 | 2, 078, 620 | 1,566, 883 |
| Net income for the plus beginning of the $y$ | $\begin{aligned} & 26,622,033 \\ & 68,703,271 \end{aligned}$ | $\begin{array}{r} 7,294,531 \\ 89,514,554 \end{array}$ | $\begin{aligned} & 17,120,237 \\ & 90,933,960 \end{aligned}$ | $\begin{array}{r} 22,611,085 \\ 102,206,197 \end{array}$ | $\begin{gathered} 23,610,037 \\ 118,950,657 \end{gathered}$ | $\begin{array}{r} 5,434,135 \\ 110,914,871 \end{array}$ | $\begin{array}{r} 10,913,878 \\ 115,049,256 \end{array}$ | $\begin{array}{r} 8,626,229 \\ 30,808,275 \end{array}$ | $\begin{array}{r} 9,954,494 \\ 35,080,722 \end{array}$ | $\begin{aligned} & 15,149,094 \\ & 40,941,835 \end{aligned}$ | $\begin{aligned} & 11,238,939 \\ & 49,270,070 \end{aligned}$ |
| Tot | $95,325,304$ | 96, 809, 085 | 108, 054, 197 | 124, 817, 282 | 115, 340, 620 | 116, 349, 006 | 125, 963, 134 | 39, 434, 504 | 45, 035, 216 | 56, 090, 829 | 60, 509, 009 |
| Less dividends paid in cash on: Common stock | 5,810,750 | 5,875, 125 | 5, 848, 000 | 5, 866,625 | 4, 425,749 | 2,919,750 |  |  |  | 2, 579, 940 | 2, 866, 600 |
| Preferred stock |  |  |  |  |  |  | 3, 879, 873 | 3, 921, 937 | 3, 993, 381 | 3, 990, 819 | 4, 079, 337 |
| Tota | 5, 810, 750 | 5, 875, 125 | 5, 848, 000 | 5, 866, 625 | 4, 425, 749 | 2, 919,750 | 3,879,873 | 3,921, 937 | 3, 993, 381 | 6, 570, 859 | 6,945,937 |

Appendix Table 14a.—Summary of income, expenses, and surplus for Jones \& Laughlin. Steel Corporation and subsidiaries, 1917-38-


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| et | \$111, 343,885 | \$126, 748, 956 | \$90,412, 500 | \$54, 877,021 | \$28, 060, 697 | \$44, 631, 257 | \$47, 982, 341 | \$63, 553, 840 | \$94, 409, 455 | \$117, 475, | \$75, 410, 90 | \$2,010, 480, 461 |
| Cost of goods sold. <br> Distribution and administrative Provision for depreciation and depletion | $\begin{array}{r} 82,174,461 \\ 7,944,067 \\ 5,449,528 \end{array}$ | $\begin{array}{r} 90,084,972 \\ 9,751,208 \\ 6,196,315 \end{array}$ | $\begin{array}{\|c\|c\|} \hline & 69,132,623 \\ 8, ~ & 7,75,198 \\ 5,367,457 \end{array}$ | 46, 464, 051 <br> 6, 833, 520 <br> $5,119,866$ | 26,491, 622 <br> 5, 590, 094 <br> 4,628, 169 |  |  |  | $\begin{array}{r} \hline 75,670,491 \\ 7,758,748 \\ 6,391,759 \end{array}$ | $93,825,379$ $10,402,546$ $7,319,998$ | $\begin{array}{r} 63,705,221 \\ 10,362,750 \\ 5,971,879 \\ \hline \end{array}$ | $\begin{array}{r} 1,555,193,202 \\ 143,020,200 \\ 113,574,994 \end{array}$ |
| Total operating expens | 95, 568, 056 | 106, 032, 495 | 82, 255, 278 | 58, 417, 437 | 36,709, 885 | 49, 734, 502 | 51, 373, 645 | 64, 447, 276 | 89, 820, 998 | 111, 547, 923 | 80, 039, 850 | 1,811,788, 396 |
| Net income from operations.... Other income (net) | $\begin{array}{r} 15,775,829 \\ 2,398,549 \end{array}$ | $\begin{array}{r} 20,716,461 \\ 3,061,114 \end{array}$ | $\begin{aligned} & 8,157,222 \\ & 2,517,499 \end{aligned}$ | $\begin{array}{r} 2 \\ 3,540,416 \\ 1,811,723 \\ \hline \end{array}$ | $\begin{array}{r} 8,649,188 \\ 1,180,237 \\ \hline \end{array}$ | $\begin{array}{\|} 2 \\ \begin{array}{r} 5,103,245 \\ 1,028,098 \end{array} \end{array}$ | $\begin{array}{\|l\|l\|} \hline \begin{array}{l} 3,391,304 \\ 1,014,999 \\ \hline \end{array} \\ \hline \end{array}$ | $\begin{array}{r} 2893,436 \\ 994,369 \\ \hline \end{array}$ | $\begin{array}{r} 4,588,457 \\ 965,700 \end{array}$ | $\begin{aligned} & 5,927,600 \\ & 1,079,742 \end{aligned}$ | $\left\lvert\, \begin{gathered} 2,628,949 \\ 915,332 \end{gathered}\right.$ | $198,692,065$ $44,169,012$ |
| Net income applicable to total investment | 18, 174, 378 | 23,777, 575 | 10,674,721 | 21,728,693 | ${ }^{2} 7$ 7, 468, 951 | 2 4, 075, 147 | ${ }^{2} 2,376,305$ | 100, 933 | 5, 554, 157 | 7,007, 342 | 3,71 | 242, 861, 077 |
|  interest ${ }^{2}$....................... | 641,738 | 594, 706 | 553,015 | 513, 385 | 451, 882 | 395, 901 | 343, 315 | 282, 883 | 1,089, 557 | 1,393, 543 | $\begin{array}{r} 41,788 \\ 2,058,211 \end{array}$ | $\begin{array}{r} 41,788 \\ 19,106,718 \end{array}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |



| Provision for Federal income and profits taxes. | 1,963,953 | 2, 334, 121 | 1, 028, 419 | 41,381 | 10,685 |  | 31,753 | 216, 766 | 335, 000 | 825, 000 | 66,342 | 61,623,534 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net income for the year <br> Surplus beginning of the year. | $\begin{aligned} & 15,568,687 \\ & 53,413,072 \end{aligned}$ | $\begin{aligned} & 20,848,748 \\ & 61,219,465 \end{aligned}$ | $\begin{array}{r} 9,093,287 \\ 72,897,638 \end{array}$ | $\begin{array}{r} 22,283,459 \\ 74,749,352 \end{array}$ | $\begin{array}{r} 27,910,148 \\ 67,291,440 \end{array}$ | $\begin{aligned} & 24,471,048 \\ & 56,399,814 \end{aligned}$ | $\begin{array}{\|c\|} \hline 22,751,373 \\ 51,038,671 \end{array}$ | $\begin{array}{r} 8398,716 \\ 48,547,581 \end{array}$ | $\begin{array}{r} 4,129,600 \\ 48,477, \mathrm{C} .5 \end{array}$ | $\begin{array}{r} 4,788,799 \\ 49,304,909 \end{array}$ | $\begin{aligned} & 25,879,958 \\ & 50,204,472 \end{aligned}$ | 162, 089,037 |
|  | 68,981,759 | 82, 068, 213 | 81, 990, 925 | 72, 465, 893 | 59, 381, 292 | 51, 928,766 | 48, 287, 298 | 48, 148, 865 | 52, 606, 615 | 54, 093, 708 | 44, 324, 514 |  |
| Less dividends paid in cash on: Common stock | 457, 920 | 4, 610,560 | 2, 881,600 | 864, 480 |  |  |  |  |  |  |  | 8,007,099 |
| Preferred stock. | 4, 104, 374 | 4, 110, 015 | 4, 109, 973 | 4, 109, 973 | 2, 495, 341 | 440, 354 |  |  | 2, 201, 771 | 3,082, 480 |  | 44, 519, 728 |
| T | 7, 562, 294 | 8, 720, 575 | 6, 991, 573 | 4, 974, 453 | 2, 495, 341 | 440, 354 |  |  | 2, 201, 771 | 3,082, 480 |  | 92, 526, 827 |
| Capital stock, Jones \& Laughton Steel Corporation, issued in exchange for capital stock of Jones \& Laughton Steel Co. (predecessor) on basis of 2 shares of preferred stock and 2 shares of common stock for 1 share of company. $\qquad$ commoni stock of predecessor |  |  |  |  |  |  |  |  |  |  |  | 4 120,000,000 |
| Capital stock of Jones \& Laughlin Steel Co., retired |  | 0 | 00 | 00 | 486, 137 | 99, 741 | , 283 | 328,150 | ,099, 935 | 1806,756 | 965, 241 | $\begin{array}{r} 30,000,000 \\ 42,975,726 \end{array}$ |
| Surplus end of the year | 61, 219, 465 | 72, 897, 638 | 74, 749, 352 | 67, 291, 440 | 56, 399, 814 | 51, 038, 671 | 48, 547, 581 | 48, 477, 015 | 49, 304, 909 | 50, 204, 472 | 45, 289, 755 |  |

[^75]Appendix Table 15.-Summary of investments, profits, and rates of return for National Steel Corporation, 1930-38

${ }^{1}$ Less unamortized debt discount and expenses.

|  | 1930 | 1931 | 1932 | 1933 | 1934 | ¢935 | 1936 | 1937 | 1938 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$64, 513, 154 | \$62, 547, 474 | \$13, 603, 761 | \$60, 821, 508 | \$76, 328, 569 | \$103, 176, 629 | \$123, 074, 149 | \$145, 933, 348 | \$89, 503, 232 | \$769, 501, 824 |
| Cost of goods sol | 49, | 49, 368, 791 | 34, 328, 525 | 49, 967, 676 |  |  |  | 110, 313, 669 |  |  |
| Distributionandadministrative expenses. | $\begin{aligned} & 2,630,530 \\ & 2,604,308 \end{aligned}$ | $3,179,724$ $3,117,402$ | 2, $3,089,913$ | $3,037,296$ $3,091,680$ | $3,703,611$ $3,653,743$ | $4,277,309$ $3,929,384$ | $4,984,907$ $4,844,158$ | $5,741,725$ $5,272,117$ | 5, $5,487,985$ | 35 $35,090,690$ |
| Total operating expenses | 55, 054, 584 | 55, 665, 917 | 40, 000, 643 | 56, 096, 652 | 67,642, 819 | 88, 874, 147 | 106, 195, 215 | 121, 327, 511 | 79, 048, 325 | 669, 905, 813 |
| Nct income from operations. Other income (net) | $\begin{array}{r} 9,458,570 \\ 808,403 \end{array}$ | $\begin{array}{r} 6,881,557 \\ 302,078 \end{array}$ | $\begin{array}{r} 3,603,118 \\ 337,994 \end{array}$ | $\begin{array}{r} 4,724,856 \\ 575,673 \end{array}$ | $\begin{array}{r} 8,685,750 \\ 541,199 \end{array}$ | $\begin{array}{r} 14,302,482 \\ 1,006,070 \end{array}$ | $\begin{array}{r} 16,878,934 \\ 1,260,358 \end{array}$ | $\begin{array}{r} 24,605,837 \\ 1,418,309 \end{array}$ | $\begin{array}{r} 10,454,907 \\ 257,266 \end{array}$ | $\begin{array}{r} 99,596,011 \\ 6,507,350 \end{array}$ |
| Net income applicable to total investment. | 10, 266, 973 | 7,183,635 | 3,911, 112 | 5,300,529 | 9, 226, 949 | 15, 308, 552 | 18, 139, 292 | 26,024, 146 | 10, 712, 173 | 106, 103, 361 |
| Income applicable to minority stock- <br> holders' equity <br> Interest on long-term debt. | $\begin{array}{r} 2,776 \\ 803,840 \end{array}$ | 2, 224, 194 | 2,128,015 | 2, 005, 459 | 1, 970, 071 | 2, 256,767 | 2, 282, 988 | 2, 398, 133 | 2, 414, 925 | $\begin{array}{r} 2,776 \\ 18,484,392 \end{array}$ |
| Net income applicable to stockbolders' investment | 9, 460, 357 | 4,959,441 | 1,813,097 | 3, 295, 070 | 7, 256, 878 | 13, 051, 785 | 15, 856, 304 | 23, 626, 013 | 8, 297, 248 | 87,616, 193 |
| Provision for Federal income and profits taxes. | 1,044, 535 |  | 150, 178 | 482, 663 | 1, 206, 156 | 1, 915, 334 | 3, 314, 462 | 5,824, 120 | 1,635, 596 | 16,089, 162 |
|  | $\begin{array}{r} 8,415,822 \\ 43,580,271 \end{array}$ | $\begin{array}{r} 4,443,323 \\ 50,660,268 \end{array}$ | $\begin{array}{r} 1,662,919 \\ 50,531,738 \end{array}$ | $\begin{array}{r} 2,812,407 \\ 48,347,617 \end{array}$ | $\begin{array}{r} 6,050,722 \\ 48,819,453 \end{array}$ | $\begin{aligned} & 11,136,451 \\ & 52,714,398 \end{aligned}$ | $\begin{aligned} & 12,541,842 \\ & 58,284,298 \end{aligned}$ | $\begin{aligned} & 17,801,893 \\ & 56,131,836 \end{aligned}$ | $\begin{array}{r} 6,661,652 \\ 66,433,209 \end{array}$ | 71, 527, 031 |
| Tot | 51, 996, 093 | 55, 103, 591 | 52, 194, 657 | 51, 160, 024 | 54, 870, 175 | 63, 850, 849 | 70, 826, 140 | 73, 933, 729 | 73, 094, 861 |  |
| Less dividends paid on common stock in cash. | 4, 255, 320 | 4,311, 554 | 1,616,832 | 1, 347, 361 | 2, 155, 777 | 3, 233,740 | 6, 749,503 | 7, 584, 520 | 2, 168, 532 | 33, 423, 139 |
| Other net additions or deductions: Revaluation of real estate, plant, mineral, and manufacturing properties and equipment |  |  | ${ }^{1} 147,598$ | 1993,210 |  | $\begin{array}{r} 583,350 \\ 18,000 \end{array}$ | $\begin{array}{r} 18,029,471 \\ 79,500 \end{array}$ | 84, 000 | 463, 351 | $\begin{array}{r} 19,753,629 \\ 3,280,994 \end{array}$ |
| Premiums on stock issues <br> Write-off on premium, discount, and expense | 2, 922, 112 | 177,382 1365,747 171934 | 1 2, 0¢2, 610 |  |  | 1 1, 873, 747 <br> 106, 286 | 7,500 $-\quad-\quad 5,170$ |  |  | $\begin{array}{r} 4,322,104 \\ 500,256 \end{array}$ |
| Other additions to surplus | 12,617 |  |  |  |  |  |  |  |  |  |
| Surplus end of the year | 50, 660, 268 | 50, 531, 738 | 48, 347, 617 | 48, 819, 453 | 52, 714, 398 | 58, 284, 298 | 56, 131, 836 | 66, 433, 209 | 71,389,680 |  |

Table 16.-Summary of investments, profits, and rates of return for Youngstown Sheet \& Tube Co. and subsidiaries, 1917-38

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: | \$9, 974, 400 | \$9, 934, 300 | \$9, 934, 300 | \$9, 934, 300 | \$9, 934, 300 | \$9, 934, 300 | \$9, 974, 400 | \$14, 241, 100 | \$14, 241, 100 | \$14, 241, 100 | \$14, 241, 100 | \$14, 241, 100 |
| 2. Commo | 18, 242,945 | 18, 327, 806 | 18, 379, 017 | 18, 408, 980 | 19, 940, 607 | 19, 990, 750 | 20,000, 000 | 75,000, 000 | 75, 000, 000 | 75, 090, 000 | 75,000,000 | 75, 000,000 |
| 3. Total | 28, 217, 345 | 28, 262, 106 | 28, 313, 317 | 28, 343, 280 | 29, 874, 907 | 29, 925, 050 | 29, 974, 400 | 89, 441, 100 | $89,241,100$ $25,417,934$ | $89,241,100$ $33,382,446$ | $89,241,100$ $42,637,506$ | $\begin{aligned} & 89,241,100 \\ & 37,197,611 \end{aligned}$ |
| 4. Surplus-earned and capital | 24, 187, 132 | 44, 190, 668 | 46, 290, 873 | 50, 170, 811 | 51, 654, 395 | 48, 848, 698 | 65 | 23, 127, 519 | 25, $2,691,202$ | 2, 0 , ${ }^{\text {a }}$ | 1,849,587 | 1,540, 773 |
| 5. Contingency reserves <br> 6. Reserves for Federal income and <br>  |  | 15, 591, 573 | 10, 140, 723 | 862, 399 | 1,057, 928 |  | 410,000 | 1,500, 000 | 989,690 | 1,700, 966 | 2, 436, 173 | 465, 257 |
| 7. Capital stock and surpl | 52, 404, 477 | 88, 044, 347 | 84, 744, 913 | 79, 376, 490 | 82, 587, 230 | 81, 787, 350 | 80, 048, 665 | 117, 452, 866 | 118, 339, 926 | 126, 328, 292 | 136, 164, 366 | 128, 444, 741 |
| Less: Goodwill, appreciation, snd other intangibles. | 42, 225 | 578, 094 | 682, 898 | 668, 108 | 661, 293 | 658, 103 | 651, 503 | 23,128 | 1, 088, 420 | 942, 628 | 95, 032 | 595, 032 |
| 9. Stockholders' investment | 52, 362, 252 | 87, 466, 253 | 84,062,015 | 78, 708, 382 | 81, 925, 937 | 81, 129, 247 | 79,397, 162 | 117, 429, 738 | 117, 251, 506 | 125, 385, 664 | 135, 569, 334 | 127, 849, 709 |
| 10. Minority stockholders equity in subsidiaries | 1,460 | 2, 182 | 2, 741 | 5,998 | 5, 195 | 5,166 | $\begin{array}{r} 4,448 \\ 36,223 \end{array}$ | $\begin{array}{r} 121,021 \\ 69,299,926 \end{array}$ | $\begin{array}{r} 55,270 \\ 67,431,081 \end{array}$ | $\begin{array}{r} 37,592 \\ 64,784,496 \end{array}$ | $\begin{array}{r} 30,217 \\ 64,241,492 \end{array}$ | $\begin{array}{r} 45,847 \\ 72,719,598 \end{array}$ |
| 11. Long-term debt |  | 235, 223 | 19, 223 | 3 |  |  |  |  |  |  |  |  |
| 12. Total investme | 52, 363, 712 | 87, 703, 658 | 84, 283, 979 | 78, 877,603 | 82,649, 355 | 81, 662, 636 | 79, 737, 833 | 186, 850, 685 | 184, 737, 857 | 190, 207, 752 | 199, 841, 043 | 200,615, 154 |
| 13. Average of total investment |  | 70, 033, 685 | 85, 993, 818 | 81, 580, 791 | 80, 763, 479 | 82, 155, 995 | 80, 700, 235 | 133, 294, 259 | $185,794,271$ | $187,472,804$ $121,318,585$ | $195,024,397$ $130,477,499$ | $\begin{aligned} & 200,228,098 \\ & 131,709,522 \end{aligned}$ |
| 14. Average of stockholders' investment |  | 69,914, 252 | 85, 764, 134 | 81, 385, 198 | 80, 317, 159 | 81, 527, 592 | 80, 263, 204 | 98, 413,450 | 117, 340, 622 | 121, 318, 585 | 130, 477, 499 |  |
| 15. Average of common stockholders' equity |  | 59, 959, 902 | 75, 829, 834 | 71, 450, 898 | $70,382,859$ | 71, 593, 292 | 70,308, 854 | 86, 305, 700 | 103, 099, 522 | 107, 077, 485 | 116, 236, 399 | 117, 468, 422 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  | 15, 003, 068 | 12, 691, 016 | 19, 185, 928 | 21,511, 592 | 11,002, 081 |
| 16. Applicable to total investment <br> Applicable to stockholders' in- |  | 38, 950, 501 | 15, 559, 158 | 7,667,608 | 8,286, 817 | ${ }^{2} 138,787$ | 4, 138, 207 | 15, 003, 068 | 12, 091,016 | 19, 185, 928 | 21,511, 592 | 11,002,081 |
| 17. Applicahle to stockholders in- <br> vestment |  | 38, 936, 547 | 15, 547, 042 | 7,657, 330 | 8, 246, 153 | ${ }^{2} 167,372$ | 4, 119, 288 | 12, 834, 535 | 8,291, 824 | 14, 927, 721 | 17, 318, 876 | 7,023, 334 |
| 18. Applicable to common stockholders' equity |  | 38, 241, 146 | 14, 851, 641 | 6,961,929 | 7, 550, 752 | ${ }^{2} 862,773$ | 3,423,887 | 11, 912, 325 | 7,294,947 | 13, 930, 844 | 16, 321, 999 | 6,026,457 |
| Rate of return on total investment <br> $(16 \div 13)$ <br> percent |  | 55. 62 | 18.09 | 9.40 | 10.26 | ${ }^{3} 0.17$ | 5.13 | 11. 26 | 6.83 | 10.23 | 11.03 | 5. 49 |
| Rate of return on stockholders' investment $(17 \div 14)$ $\qquad$ percent |  | 55. 69 | 18. 13 | 9.41 | 10.27 | ${ }^{2} .21$ | 5.13 | 13.04 | 7.07 | 12.30 | 13.27 | 5. 33 |
| Rate of return on common stockholders' equity $(18 \div 15)$ $\qquad$ percent. |  | 63.78 | 19.59 | 9.74 | 10. 73 | ${ }^{2} 1.21$ | 4.87 | 13.80 | 7.08 | 13.01 | 14.04 | 5. 13 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | $\underset{\text { average }}{\text { Annual }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: | \$15,000,000 | \$15, 000,000 | \$15, 000,000 | \$15, 000, 000 | \$15, 000, 000 | ,00, | 000, 000 | \$15, 000,000 | 000, | 5,000,000 | $000,000$ |  |
| Common | 75, 199, 715 | 75, 342, 683 | 75, 451, 091 | 75, 167, 520 | 75, 187, 203 | 74, 870, 749 | 74, 870, 749 | 74, 870, 749 | 86, 494, 819 | 104, 808, 461 |  |  |
| Tot | 90, 199, 715 | 90, | 90, 41, 091 | 90, 167, 520 | $90,187,203$ | 89, 870, 749 | $89,870,749$ | $89,870,749$ 18,404 1 | $\begin{array}{r}101,494,819 \\ 19 \\ \hline 175 \\ \hline 175\end{array}$ | 119, 808, 461 20, 993, 897 | $119,902,661$ |  |
| Surplus-arned and capita Contingency reserves... | -1, 277, 423 | 2, 226, 072 | 2, 141, 524 | 89, 269 |  |  |  | 175,000 | 175,000 |  |  |  |
| 6. Reserves for Federal income | 1,132, 417 | 2, 210,000 | 000 | 842 |  |  | 34, 100 | 119,585 | 517, 940 | 2,200, 057 | 349,000 |  |
| Capital stock and surpl | 133, 174, 052 | 146, 508, 640 | 145, 131, 205 | 130, 539, 132 | 115, 967, 280 | 107, 456, 529 | 104, 829,099 | 108, 571, 063 | 121, 563, 3 | 143, 002, 415 | 141, 070,413 |  |
| Less: Goodwill, appreciation, and other intangibles | 595,032 |  | 67, 27 | 76,418 | 65,397 | 182, 269 | 263, 863 | 407, 479 | 546, 482 | 536, 391 |  |  |
| 9. Stockholders' investment | 9,020 | 146, 508, 640 | 145, 063, 926 | 30, 462, 714 | 115, 901, 883 | 107, 274, 260 | 104, 565, 236 | 108, 163, 5 | 121, 016, 824 | , 466,024 | 1, 070, 4 |  |
|  | $\begin{array}{r} 35,496 \\ 73,078,000 \end{array}$ | $\begin{array}{\|} 31,124 \\ 71,908,000 \end{array}$ | $\begin{array}{r} 27,917 \\ 70,468,000 \end{array}$ | $\begin{array}{r} 23,803 \\ 92,055,000 \end{array}$ | $\begin{array}{r} 19,199 \\ 89,967,000 \end{array}$ | $\begin{array}{r} 27,516 \\ 88,500,000 \end{array}$ | $\begin{array}{r} 23,228 \\ 86,148,000 \end{array}$ | $\begin{array}{r} 20,943 \\ 85,337,000 \\ \hline \end{array}$ | $\begin{array}{r} 23,250 \\ 78,253,000 \end{array}$ | $\begin{array}{r} 33,655 \\ 58,500,000 \end{array}$ | $\begin{array}{r} 32,807 \\ 83,866,766 \end{array}$ |  |
| Total investment | 205,692 | 218,4 | 215, 55 | 222, 541, 517 | 205, 888, 082 | 195, 801, 776 | 190, 736,464 | 192, 123,5297 | 199, 1933,074 | ${ }_{200,146,376}^{200, ~}$ | ${ }_{212}^{24,9894,9898}$ | 165, 650, 756 |
| 13. Average of total investment.....- | 203, 153,835 | 212, 070, 140 | 217,003,803 |  |  |  |  |  |  |  |  |  |
| Averate of common s | 130, 24, 364 | 139, 543, 830 | 786 | 763, 32 | 123, 182, 298 | 111, 588, 071 | 105, | 106, |  |  | 141,76, 218 | 12, 131, |
|  | 115, 593, 814 | 124, 543, 830 | 130, 786, 283 | 122, 763, 320 | 108, 182, 298 | 96, 588, 071 | 90, 919, 748 | 91, 364, 410 | 99, 590, 204 | , 741,4 | 6,768, 2 | 98,797, 945 |
| Net income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |  |
| 16. Applicable to total lnvestment, <br> 17. Applicable to stockholders; | 15,617, 863 | 27, 394, 899 | 11, 252, 728 | 22,675,976 | 28,720,963 | ${ }^{2} 3,881,196$ | 1,738, 363 | 5,997, 113 | 14, 729,441 | 16,985,948 | 2,841, 364 | 10, 688,035 |
| investment | 11, 871, 336 | 23, 774, 174 | 9, 133 | , 899 | 72, 783 | 8, 342, 901 | 2, 631,019 | 1,717, 231 | 11,079, 406 | 14, 390, 648 | 18,905 | , 4 |
| Applicable to common stock- <br> holders' equity | 10,960, 398 | 22,949, 1 | 6, 834, | ${ }^{2} 7,865,899$ | 2 14,097, 783 | 29, 167, 901 | ${ }^{2} 3,456,019$ | 892, 231 | 10, 254, 406 | 13,565,648 | 1843,905 | 7,076, 256 |
| Rate of return on total investment | 7.69 | 12.92 | 5. 19 | ${ }^{21.22}$ | 4.07 | 21.93 | 0.90 | 3.12 | 7.50 | - | 1.33 | 6.45 |
| $\theta$ of return on stockholders' ' lnvest- |  |  |  | .11 | 0.77 | 7.48 | ${ }^{2} 2.48$ | 1 | 7 | 2 | 01 | 7.05 |
| eo returnoo common stockho |  |  |  | 1 | ${ }^{2} 13.03$ |  | 3.80 | 98 | 10. 30 | 11.62 |  | 7.16 |
| aity (18*15) .............-percent |  |  |  |  |  |  |  |  |  |  |  |  |

${ }^{1}$ Less unamortized debt discount and expenses.
Table 16a.-Summary of income, expenses, and surplus for Youngstown Sheet \& Tube Co., and subsidiaries, 1917-38


${ }^{1}$ Denotes deduction.

| 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$9, 999, 100 | \$24, | \$25, 019, 500 | \$25, 019, 500 | \$25, 175, 175 | \$25, 331, 475 | \$25, 356, 475 | $\begin{array}{r} \$ 10,000,000 \\ 35,000,000 \end{array}$ | $\begin{array}{r} \$ 10,000,000 \\ 35,000,000 \end{array}$ | $\begin{array}{r} \$ 10,000,000 \\ 35,000,000 \end{array}$ | $\left.\begin{array}{\|} \$ 10,000,000 \\ 35,000,000 \end{array} \right\rvert\,$ | $\begin{array}{r} \$ 10,000,000 \\ 35,000,000 \end{array}$ |
| 9, 999,$16,664,799$ | $\begin{array}{r} 24,997,000 \\ 9,538,103 \\ 1,366,934 \\ 9,419,175 \end{array}$ | $\begin{array}{r} 25,019,500 \\ 13,720,406 \\ 638,098 \\ 8,293,306 \end{array}$ | $\begin{array}{r} 25,019,500 \\ 14,318,724 \\ 64,680 \\ 4,693,268 \end{array}$ | 16, 2596,177 | 15, 251,565 | 25, 356,475$14,086,224$ | 13, 221,596 | 45, 000, 000 | 45, 000, 000 | 17, 533,114 | $45,000,000$$19,740,163$ |
|  |  |  |  |  |  |  |  | $\begin{array}{r} 14,541,495 \\ 51.512 \end{array}$ | $15,698,033$ |  |  |
|  |  |  |  | 2, 750, 384 | 2, 223, 476 | 2, 268, 260 | 2,696, 856 | 2, 736, 805 | 2, 765, 128 | 2, 941, 081 | 3, 121, 211 |
| $28,663,899$$5,878,048$ | $\begin{array}{r} 45,321,212 \\ 5,748,386 \end{array}$ | $\begin{array}{r} 47,671,310 \\ 5,469,724 \end{array}$ | $\begin{array}{r} 44,096,172 \\ 5,233,062 \end{array}$ | 44, 921, 736 | 42, 806, 516 | 41,710,959 | 60, 918, 452 | 62, 329, 812 | 63, 496, 050 | 65, 474, 195 | 67, 861, 374 |
|  |  |  |  | 5, 338, 399 | 5, 016, 737 | 4, 749, 075 | 663,380 | 518, 5 | 12,001, 462 | 11, 889, 667 | 11, 574, 246 |
| 32, 541, 947 | 51, 069, 598 <br> 41, 805, 773 <br> 35, 992, 556 $35,992,556$ | 53, 141, 034 52, 105, 316 46, 496, 261$46,496,261$ | $\begin{aligned} & 49,329,234 \\ & 51,235,134 \\ & 45,883,741 \\ & 45,883,741 \end{aligned}$ | $\begin{aligned} & 50,260,135 \\ & 49,794,685 \\ & 44,508,954 \\ & 44,508,954 \end{aligned}$ | $\begin{aligned} & 47,823,253 \\ & 49,041,694 \\ & 43,864,126 \\ & 43,864,126 \end{aligned}$ | $\begin{aligned} & 46,460,034 \\ & 47,141,044 \\ & 42,258,738 \\ & 42,258,738 \end{aligned}$ | $\begin{aligned} & 61,581,832 \\ & 54,020,933 \\ & 51,314,706 \\ & 46,314,706 \end{aligned}$ | $\begin{aligned} & 62,848,397 \\ & 62,215,115 \\ & 61,624,132 \\ & 51,624,132 \end{aligned}$ | $\begin{aligned} & 75,497,512 \\ & 69,172,955 \\ & 62,912,931 \\ & 52,912,931 \end{aligned}$ | $\begin{aligned} & 77,363,862 \\ & 76,430,687 \\ & 64,485,123 \\ & 54,485,123 \end{aligned}$ | $\begin{aligned} & 79,435,620 \\ & 78,399,741 \\ & 66,667,785 \\ & 56,667,785 \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

Table 16a.—Summary of income, expenses, and surplus for Youngstown Sheet \& Tube Co. and subsidiaries, 1917-38—Continued

|  | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Other net additions or deductions: |  |  |  |  |  |  |  |  |  |  |  |
| Revaluation of real estate, plant, mineral, and manufacturing properties | 2 \$498, 141 |  |  |  |  |  |  |  |  | 2 \$1, 027, 387 | ${ }^{2}$ \$930, 498 |
| Sales of real estate, plant, mineral, and manufacturing properties | ${ }^{2} 3,626,887$ |  |  |  | 2 \$804, 000 | 2 \$1, 027, 420 | 2 \$84, 492 | ${ }^{2}$ \$269, 536 | 2 \$2, 716, 394 | ${ }^{2} 291,029$ | ${ }^{2} 10,013,829$ |
| Conversion, repurchase, or sale of own securitics |  |  | 2 \$500, 000 |  | 527, 373 | 366, 334 | 43,642 | ${ }^{2} 7,086,335$ | 2, 865 |  | ${ }^{2} 11,932,646$ |
| Acquisition of assets and securities of other companies |  |  | 41, 382 |  |  | ${ }^{3} 46,442$ |  |  |  |  | $26,235,404$ |
| Transfers to capital stock accounts .-...-...-- |  |  |  |  |  |  |  | 17,130 $1,000,000$ | ${ }^{2} 17,130$ |  | $\begin{array}{r} 55,000,000 \\ 92,667 \end{array}$ |
| Appropriations to or from reserves Premiums or discounts on stock issues.- | $21,000,000$ |  | 2 1, 535, 000 | 2\$1, 022, 391 | 150,000 | 769, 000 | 2,131, 058 |  |  | 19,338 | 2 ${ }^{\text {871, }} \mathbf{9 8 1}$ |
| All other charges or credits....-----...-- | 1,051, 242 |  |  |  | 275, 231 | ${ }^{2} 57,883$ |  | 1987, 192 | ${ }^{2} 368,885$ | 2, 345, 514 | ${ }^{2} 1,584,499$ |
| Surplus end of the year | 51, 729, 885 | \$51, 912, 590 | 40, 281, 501 | 25, 780, 077 | 17,585, 780 | 14, 924,250 | 18, 405, 729 | 19, 375, 547 | 20, 993, 897 | 20, 818, 752 |  |

Appendix Tanle 17.-Summary of investments, profits, and rates of return for the Inland Steel Co. and subsidiaries, $1917-38$

| Capital stock: |  |
| :---: | :---: |
|  | Preferred. |
| 2. | Common |
| 3. Total |  |
| 4. Surplus-earned and cap |  |
| 5. Contingency reserves |  |
| 6. Reserves for Federal income and profits taxes. |  |
|  |  |
|  |  |
| 10. Average of total investment.-- |  |
|  |  |
| 11. Average of stockholders' investment, |  |
|  |  |
| 12. A verage of common stockho |  |


|  |  | $\begin{array}{\|r\|} 22,071,288 \\ 21,614,400 \\ 21,61,400 \\ 52.79 \\ 60.05 \\ 60.05 \end{array}$ |  | $\begin{array}{r} 5,334,987 \\ 4,980,305 \\ 4,980,305 \\ 10.41 \\ 10.85 \\ 10.85 \\ 10 \end{array}$ | $\begin{array}{r} 5,907,967 \\ 5,552,862 \\ 5,552,862 \\ 11.86 \\ 12.48 \\ 12.48 \\ 12 . \end{array}$ | $\begin{gathered} 2465,098 \\ { }^{2} 805,648 \\ { }^{2} 805,648 \\ 20.95 \\ 2 \\ 21.84 \\ { }^{2} 1.84 \\ { }^{1.84} \end{gathered}$ | $\begin{array}{r} 208,111 \\ 2_{115,105} \\ { }_{2}^{115,} 105 \\ 0.44 \\ 2.27 \\ 2.27 \\ 3 \end{array}$ | 5, 914, 888 <br> 5, 736, 026 <br> 5, 211, 026 <br> 10.95 <br> 11.18 <br> 11.25 | $\begin{array}{r} 6,018,350 \\ 5,930,726 \\ 5,230,726 \\ 9.67 \\ 9.62 \\ 10.13 \end{array}$ | $\begin{array}{\|r\|} \hline 5,832,495 \\ 5,00,501 \\ 5,005,501 \\ 8.43 \\ 99.07 \\ 9.46 \\ \hline 9.46 \\ \hline \end{array}$ | $\begin{array}{r} 7,951,989 \\ 7,203,419 \\ 6,553,419 \\ 10.40 \\ 11.17 \\ 11.94 \end{array}$ | 7, 809, 862 <br> 7, 075, 37 <br> $6,375,37$ 9.96 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1928 | 1929 | 1930 | 1931 | 1932 | ${ }^{1933}$ | ${ }^{1934}$ | 1935 | 1936 | 1937 | 1938 | ${ }_{\substack{\text { Annual } \\ \text { average }}}$ |
| $\begin{aligned} & \text { Capital stock: } \\ & \begin{array}{l} \text { 1. } \\ \text { 2. } \\ \text { Prefrreded. } \\ \text { Common. } \end{array} \end{aligned}$ | 835, | 5,000,000 | 835,000,000 | 835, 0000000 | 35,000, 000 | 835,000,000 | 835,000,000 | 847, 000,000 | 850, 566, 352 | 857,311, 55 | 57, 464, 601 |  |
| 3. Total.................... <br> 5. Contingency reserves |  | 35,000,000 | 35, 317,373 | 351,000000 $21,861,918$ |  |  |  |  |  |  |  |  |
| 6. Reserves for Federal income and profits taxes. | 3,404, 879 | 3, 801,992 | 8,038 | 2,803,620 | 1,337, 207 | 885 | 733,058 | 49 | 2,769,313 | 3, 550, 269 | 1,121, 620 |  |
| 7. Longeterm Scold 1 | - $\begin{aligned} & \text { 55,94, } 94,001 \\ & 27,50,803\end{aligned}$ | ${ }^{63,01,47,465}$ |  |  | 54,266887 $38,48,531$ |  |  |  | $83,944,535$ $43,66,974$ | 96, <br> $52,48,988$ <br> 87 |  |  |
| 9. Total investm |  |  | 88 | 98, 617, 221 | $\frac{92,725,428}{925}$ | $\xrightarrow{91.899,165}$ | 93, 30, 927 <br> 98.645 <br> 16 | 109, $0.06,881$ | ${ }_{\text {127, }}^{1278}$ | 148,559, | ${ }^{1464,428,955}$ |  |
| 10. Average or total investrment | $81,45,212$ <br> $61,902,688$ <br> 10 |  | \%9, 8931,9 |  |  | ${ }^{54,221,21,691}$ | ${ }_{55,331,639}^{92,69046}$ | 65, 757,036 | 12, | 89,991 | 14, |  |
| Net income before deducting Fed- | 56,902,688 | 59, | 244,938 | 61, 570, 473 | 56,956, | $54,221,691$ | 55 |  | 79,480,902 | 89 | 95, 55, 064 | 57, 250 |
| A income and profts | 11, 305, 556 | 14, 431, 415 | 8, 029,067 | 31, 685 | 11,328,632 | , 214 | 6, 238,288 | 12,975,970 | 10, 800, 028 |  | 7,913,560 |  |
| Applicabie to to stockh vestment. | 10,097, 543 | 13,057,855 | 6,669,959 | 1,291,688 | 23,338, 630 | 0,439 | 4,306,709 | 11,023, 444 |  |  |  |  |
| 15. Appicable to commen stock ${ }^{\text {polders }}$ equity | 9,922, 543 | 13, 557,855 | 6,669,959 | 291,688 | 630 | (39 | 4.306, | 11,023, 444 | 14,986, | 10,226, | 8,036, 727 | 6, |
| $\underset{\substack{\text { Rate of } \\(13+10) \\ \text { return }}}{ }$ |  |  |  |  |  | 2. 40 |  |  |  |  | 5.37 |  |
| Rate or return on stockholders |  |  |  |  |  | , |  |  |  |  | ${ }_{6.32}$ |  |
| Rate of return on common stockholders <br> equity ( $15 \div 12$ ). <br> percent | 17.44 |  |  |  | 7.86 | 4 |  |  |  |  | 32 |  |

Appendix Table 17a.-Summary of income, expenses, and surplus for the Inland Steel Co. and subsidiaries, $1917-38$

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sale | \$50, 602, 981 | \$59, 981, 105 | \$33, 416, 772 | \$52, 329, 592 | \$20, 203, 870 | \$30, 983, 377 | \$49, 879, 753 | \$52, 312, 874 | \$56, 827, 601 | \$61, 759, 165 | \$58, 503, 627 | \$63, 876,007 |
| Cost of goods sold | 26, 222, 086 | 43, 612,606 | 25, 850, 488 | 43, 447, 304 | 18, 115, 471 | 27, 701, 571 | 41, 702, 203 | 43, 498, 951 | 47, 730, 803 | 49, 409, 390 | 45, 953, 525 | 48, 081, 124 |
| Distribution and administrative expe | 824, 663 | $1,215,274$ $1,841,862$ | 1, 168, ${ }_{2}$ 2274 | 1, 149, 417 | 2, 802, 281 | 887,084 $2,201,799$ | $1,039,625$ $1,700,586$ | $1,317,290$ $1,944,989$ | $1,469,258$ $2,010,564$ | 1, 611, 858 | $1,802,947$ $3,490,650$ | $1,899,149$ $3,307,299$ |
| Total operating expens | 28,615, 683 | 46, 669, 742 | 29, 242, 625 | 46, 552, 208 | 20, 979, 805 | 30, 790, 454 | 44, 442, 414 | 46, 761, 230 | 51, 210,625 | 54, 185, 802 | 51, 247, 122 | 53, 287, 572 |
| Net income from op Other income (net) | $\begin{array}{r} \hline 21,987,298 \\ 83,990 \end{array}$ | $\begin{array}{r} 13,311,363 \\ 262,775 \end{array}$ | $\begin{aligned} & 4,174,147 \\ & 1,160,850 \end{aligned}$ | $\begin{array}{r} 5,777,384 \\ 130,583 \end{array}$ | $\begin{array}{r} 1775,935 \\ 310,837 \end{array}$ | $\begin{array}{r} 192,923 \\ 13,188 \end{array}$ | $\begin{array}{r} 5,437,339 \\ 477,549 \end{array}$ | $\begin{array}{r} 5,551,644 \\ 466,706 \end{array}$ | $\begin{array}{r} 5,616,976 \\ 215,519 \end{array}$ | $\begin{array}{r} 7,573,363 \\ 378,626 \end{array}$ | $\begin{array}{r} 7,256,505 \\ 553,357 \end{array}$ | $\begin{array}{r} 10,588,435 \\ 717,121 \end{array}$ |
| Net income applicable to total investment. <br>  | $\begin{array}{r} 22,071,228 \\ 456,888 \end{array}$ | $\begin{array}{r} 13,574,138 \\ 368,786 \end{array}$ | $\begin{array}{r} 5,334,997 \\ 354,692 \end{array}$ | $\begin{array}{r} 5,907,967 \\ 355,105 \end{array}$ | $\begin{array}{r} 1465,098 \\ 340,550 \end{array}$ | $\begin{aligned} & 206,111 \\ & 321,216 \end{aligned}$ | $\begin{array}{r} 5,914,888 \\ 178,862 \end{array}$ | $\begin{array}{r} 6,018,350 \\ 87,624 \end{array}$ | $\begin{array}{r} 5,832,495 \\ 126,994 \end{array}$ | $\begin{array}{r} 7,951,989 \\ 748,570 \end{array}$ | $\begin{array}{r} 7,809,862 \\ 734,488 \end{array}$ | $\begin{array}{r} 11,305,556 \\ 1,208,013 \end{array}$ |
| Net income applicable to stock. holders' in vestment | 21,614, 400 | 13, 205 | 4,980, | 5, 552, | 1805,648 | ${ }^{1} 115,105$ | 5, 736, | 5, 930, 726 | 5, 705, 501 | 7, 203, 419 | 7, 075, 374 | 10, 097, 543 |
| Provision for Federal income and profits taxes |  |  | 686, 182 | 972, 731 |  |  | 488, 020 | 672, 024 | 697, 675 | 829,691 | 865, 120 | 1, 078, 979 |
| Total | 28, 860, 024 | 16,611,151 | 18, 014, 529 | 18, 898,855 | 16, 190, 529 | 15, 136, 460 | 19, 334, 230 | 18, 480, 298 | 19, 549, 321 | 22, 071, 761 | 23, 743, 368 | 28,758,727 |
| Less dividends paid Common stock Preferred stock. | 1, 999, 820 | 2,001, 060 | 2,001,560 | 2, 763, 906 | 1,013,964 | 1,014,009 | $\begin{array}{r} 2,471,313 \\ 525,000 \end{array}$ | $\begin{array}{r} 2,956,997 \\ 700,000 \end{array}$ | $\begin{array}{r} 2,956,997 \\ -\quad 700,000 \end{array}$ | $\begin{array}{r} 2,956,997 \\ 700,000 \end{array}$ | $\begin{array}{r} 2,956,997 \\ 700,000 \end{array}$ | $\begin{array}{r} 8,250,000 \\ 175,000 \\ \hline \end{array}$ |
| Total | 1,999, 820 | 2, 001, 060 | 2, 001, 560 | 2, 763, 906 | 1, 013, 964 | 1, 014, 009 | 2, 996,313 | 3, 656,997 | 3,656,997 | 3, 656, 997 | 3, 656, 897 | 8, 425,000 |
| Other net additions or deductions: Loss or gain from disposal of capital assets. | 654, 351 | 617,689 | ${ }^{2} 56,828$ | 284, 247 |  |  |  |  | : 61, 709 | 524, 650 | ${ }^{\text {² }} 11,792$ | ' 78,568 |
| Surplus transferred to capital stock account |  |  |  |  |  |  | 2,643, 525 |  |  |  |  |  |
| Appropriations to or from reserves Unamortized bond discount and expense | 1,000,000 | ${ }^{2} 731,631$ | ${ }^{2} 259,542$ |  |  |  | 209, 897 |  |  |  |  | 977, 506 |
| Amortization of war facilities <br> Premiums on stock issued and retired | 667, 750 | 1,003,627 | 1, 853, 847 | 2835,688 ${ }^{2} 154,945$ | 290,000 | ${ }^{2} 17,101$ | ${ }^{2} 2,101$ |  |  |  |  | 1,500, 00 |
| Provision for employees savings and profit sharing fund <br> Miscellaneous |  |  | 156, 768 | $\begin{array}{r} 218,527 \\ 24,875 \end{array}$ | 15, 000 | 53, 328 | 265, 000 | 281, 806 | 256, 000 | 357, 000 | 358, 000 | 440,000 |
| Surplus end | 9, 538, 103 | 13, 720, 406 | 14, 318, 724 | 16, 996, 177 | 15,251, 565 | 14, 086, 224 | 13, 221, 596 | 14, 541, 495 | 15, 698, 033 | 17, 533, 114 | 19, 740, 163 | 17, 494, 697 |


|  | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sale | \$68, 290, 016 | \$51, 522, 698 | \$31, 460, 429 | \$14, 622, 434 | \$26, 631, 531 | \$40, 404, 309 | \$62, 544, 872 | \$98, 903, 896 | \$110, 744, 037 | \$74, 058, 924 | \$1, 169, 859, 870 |
| Cost of goods sold | 49, 877, 053 | 38, 833, 149 | 24, 380, 330 | 12, 304, 349 | 20, 455, 66 | 29, 055, 971 | 43, 091, 540 | 70, 848, 735 | 79, 816, 875 | 54, 749, 319 | 884, 738, 611 |
| Distribution and administrative expenses. | 2, 086, 181 | 2, 087, 438 | 1, 748, 811 | 1, 406,624 | 1,584, 430 | 1,913,476 | 3, 087, 748 | 6, 321, 897 | 7,785, 837 | 6,739,350 | 12 |
| Provision for depreciation and depletion | 3, 169, 160 | 3, 524, 541 | 2, 746, 173 | 2, 534, 860 | 2, 659, 764 | 3,512,487 | 3,794, 993 | 5, 117, 882 | 5, 215, 036 | 4, 800, 470 | 64, 547, 906 |
| Total operating expe | 55, 132, 394 | 44, 445, 128 | 28, 875, 314 | 16, 245, 833 | 24, 699, 862 | 34, 481, 934 | 49, 974, 281 | 82, 288, 514 | 92, 817, 848 | 66, 289, 139 | 999, 235, 529 |
| Net income from operat Other income (net). | $\begin{array}{r} 13,157,622 \\ 1,273,793 \end{array}$ | $\begin{array}{r} 7,077,570 \\ -\quad 951,497 \end{array}$ | $\begin{array}{r} 2,585,115 \\ 646,570 \end{array}$ | $\begin{array}{r} 11,623,399 \\ 294,867 \end{array}$ | $\begin{array}{r} 1,931,669 \\ 283,545 \end{array}$ | $\begin{array}{r} 5,922,375 \\ 315,912 \end{array}$ | $\begin{array}{r} 12,570,591 \\ -405,379 \end{array}$ | $\begin{array}{r} 16,615,382 \\ 184,646 \end{array}$ | $\begin{array}{r} 17,926,189 \\ 234,774 \end{array}$ | $\begin{array}{r} 7,769,785 \\ 143,775 \end{array}$ | $\begin{array}{r} 70,624,341 \\ 9,505,859 \end{array}$ |
| Net income applicable to total investment | 14, 431, 415 | 8, 029, 067 | 3, 231, 685 | ${ }^{1} 1,328,532$ | 2, 215, 214 | 6, 238, 287 | 12,975, 970 | 16, 800, 028 | 18, 160,963 | 7, 913,560 | 80, 130, 200 |
| Less interest on long-term debt- | 1,373, 560 | 1, 359, 108 | 1, 939, 997 | 2, 010, 098 | 1, 974, 775 | 1, 931, 578 | 1,952, 526 | 1, 803, 433 | 1,884, 026 | 1, 876, 833 | 23, 387, 722 |
| Net income applicable holders ${ }^{\prime}$ investment........ | 13, 057, 855 | 6, 669, 959 | 1, 291, 6 | ${ }^{1} 3,338,630$ | 240, 439 | 4, 306,709 | 11, 023, 444 | 14,996, 595 | 16, 276, 9 | 6, 036, 727 | 156, 742 |
| Provision for Federal income and profits taxes.................................... | $1,248,857$ | 709, 992 | 8,568 | 925 | 4,347 | 659, 528 | 1, 812, 863 | 2, 195, 065 | 3,508, 449 | 1,120, 523 | 33, 111, 018 |
| Net income | 11, 808, 998 | 5, 959, 967 | 1, 283, 120 | 13, 339, 555 | 236, 092 | 3, 647, 181 | 9, 210,581 | 12, 801, 530 | 12, 768, 488 | 4, 916, 204 | 123,631,460 |
| us begin | 494 | 24, 212, 473 | 25, 117, 373 | 21,861,918 | 17, 611, 021 | 18, 398, 163 | 20, 506, 870 | 25, 100, 6 | 29, 282, 078 | 33, 151, 831 |  |
| Tota | 29, 303, 695 | 30, 172, 440 | 26, 400, 493 | 18, 522, 363 | 17, 847, 113 | 22, 045, 344 | 29, 717, 451 | 37, 902, 186 | 42,050,566 | 38,068,035 |  |
| Less dividends paid in cash on- Common stock | 4, 200, 000 | 4, 800, 000 | 3, 300, 000 | 300, 000 |  | 600, 000 | 2, 880, 000 | 6,657, 000 | 7, 682,375 | 3,940, 6 | 703, 688 |
| Preterred stock |  |  |  |  |  |  |  |  | 7, | , | 3, 500, 000 |
| Total | 4, 200, 000 | 4, 800, 000 | 3, 300, 000 | 300, 000 |  | 600, 000 | 2, 880, 000 | 6,657,000 | 7,682, 375 | 3, 940, 693 | 71, 203,688 |
| Other net additions or deductions: Revaluation of real estate, plan |  |  |  |  |  |  |  |  |  |  |  |
| properties and equipment, including goodwill and intangibles |  |  |  |  | 12, 788 | 707, 300 | 64, 930 |  | 345, 587 |  | 1, 130,578 |
| Loss or gain trom disposal of capital assets | 308, 222 |  | 79, | 43, 409 | 241, 010 |  | 199,8 | 488, 8 | 8,447 |  | 2, 223, |
| Surplus transferred to capital stock account |  |  |  |  |  |  | 374, 144 |  |  |  | 18,017,669 |
| Appropriations to or from reserves | 000 | 000 | 1, 151, 669 | 689, 031 | 222,592 | 88,758 | ${ }^{2} 13,786$ | 23,511 | 769, 602 |  | 2, 557, 504 |
| Unamortized bond discount and expense | ${ }^{2} 42,000$ | ${ }^{2} 101,933$ | ${ }^{2} 54,500$ | ${ }^{2} 121,098$ | ${ }^{2} 152,244$ | 28, 428 | 1,111, 651 | 2, 428, 417 | ${ }^{2} 2,000$ |  | , 24 |
| Premiums on stock issued an |  |  |  |  |  |  |  |  |  |  | , |
| tired.------ |  |  |  |  |  |  |  |  |  |  |  |
| Provision for employees' savings and profit sharing fund. | 600, 000 | 342, 000 | 62, 000 |  |  |  |  |  |  |  |  |
| Miscellaneous--------. |  | 312, |  |  |  |  |  |  | 94,724 | 29,233 | 119, 082 |
| Surplus end of year | 24, 212, 473 | 25, 117, 373 | 21,861,918 | 17,611, 021 | 18, 398, 163 | 20, 506, 870 | 25, 100, 656 | 29, 282, 078 | 33, 151, 831 | 34, 098, 109 |  |

Appendix Table 18.-Summary of investments, profits, and rates of return for the American Rolling Mill Co. and subsidiaries, 1917- 88


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Annual average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  | \$2,010,300 | \$1,984, 500 | \$1,974, 500 | \$1,943,000 |  |  |  |  |  |  |
| $2 . \quad$ Common | 30, 038, 501 | 35, 733, 380 | 42, 769, 409 | 41, 375, 402 | 41, 352, 211 | 42, 769, 409 | 42, 769, 409 | 46, 353, 759 |  | $\begin{aligned} & \$ 45,000,000 \\ & 71,79, ~ \end{aligned}$ | $\begin{array}{r} \$ 45,000,000 \\ 71,739,009 \end{array}$ |  |
| 4. ${ }^{\text {4. }}$ Sutal T-..........- | $35,060,501$ $23,755,643$ | $35,755,380$ $31,572,644$ | 44, 779, 709 <br> $24,780,431$ | $43,359,902$ | $43,326,711$ $16,779,809$ | $44,712,409$ $14,439,517$ | $44,712,409$ | $48,286,159$ $15,828,049$ | 72,028, 409 | 116, 739, 009 | 116, 739, 009 |  |
| 4. Surplus earned and capit | 23, 755, 643 | 31, 572, 644 | $24,780,431$ | $\|19,703,551\|$ | 16, 779, 809 | 14, 430, 517 | $14,634,742$ | 15, 828, 049 | 12, 660, 859 | 12, 623, 475 | 10, 192, 874 |  |
| 5. Congingency reserves. |  |  |  |  |  |  |  |  |  |  |  |  |
| 6. Reserves for Federal income and profits taxes. | 813, 729 | 618,339 | 158, 489 | 4,529 | 6, 438 | 106, 375 | 366. 795 | 748, 395 | 1, 396, 054 | 1, 533, 561 | 548, 483 |  |
| , | 59, 629, 873 | 67, 946, 363 | 69, 718, 629 | 63, 067, 982 | 60, 112, 958 | 59, 258, 301 | 59, 713, 946 | 64, 862, 603 | 86, 085, 322 | 130, 896, 045 | 127, 480, 366 |  |
|  | 13, 018, 769 | 12, 604, 871 | 11, 996, 810 | 11, 926, 497 | 11, 627, 103 | 11, 495, 276 | 11, 358, 560 | 11, 158, 226 | 9, 352, 499 | 8, 275, 367 | 48, 275, 367 |  |
| 9. Stockholders' investment | $\left\|\begin{array}{r} 46,611,104 \\ 52,020 \end{array}\right\|$ | 55, 341, 492 | $57,721,819$ 66,320 | $\begin{array}{r} 51,141,485 \\ 12,420 \end{array}$ | $48,485,855$ 9,920 | $47,763,025$ 6,920 | 48, 355, 386 | $\left.\begin{array}{r} 53,704,377 \\ 144,353 \end{array} \right\rvert\,$ | $\begin{array}{r} 76,732,823 \\ 18,390 \end{array}$ | $\begin{array}{r} 122,620,678 \\ 17,454 \end{array}$ | $\begin{array}{r} 119,204,999 \\ 8,417 \end{array}$ |  |
| 11. Long-term debt | 31,038, 681 | 24, 834, 343 | 42, 183, 926 | 40, 744, 014 | 40, 001, 560 | 35, 696, 276 | 38, 661, 081 | 43, 679, 506 | 24, 324, 868 | 3, 188, 718 | 1,980, 129 |  |
| 12. Total investment | 77, 701, 805 | 80,230, 555 | 99, 972, 065 | 91, 897, 919 | 88, 497, 335 | 83, 466, 221 | 87, 022, 621 | 97, 528, 236 | 101, 076, 081 | 125, 826, 850 | 121, 193, 545 |  |
| 13. Average of total investmen | 63, 880, 229 | 78,966, 180 | 90, 101, 310 | 95, 934, 992 | 90, 197, 627 | 85, 981, 778 | 85, 244, 421 | 92, 275, 428 | 99, 302, 158 | 113, 451, 466 | 123, 510, 197 | 661, 995, 249 |
| 14. A verage of stockholders' investment | 43, 967, 100 | 50, 976, 298 | 56, 531, 6555 | 54, 431, 652 | 49, 813, 670 | 48, 124, 440 | 48, 059,205 | 51, 029, 882 | 65, 218, 600 | 99, 676750 | 120, 912, 839 | 45, 121, 665 |
| 15. Average of common stock holders' equity Net income before deducting Federal income and profits taxes: | 33, 132, 450 | 48, 454, 298 | 55, 585, 505 | 52, 434, 252 | 47, 834, 170 | 46, 165, 690 | 46, 116, 205 | 49, 092, 182 | 63, 286, 450 | 76, 210, 800 | 75, 912,839 | 37, 170,674 |
| 16. Applicable to total investment | 8, 919, 400 | 8, 256, 854 | 2, 137, 322 | ${ }^{3} 776,842$ | 215, 295 | 1,531,322 | 3, 447, 003 | 7, 317, 146 | 9, 609, 119 | 10,632, 665 | ${ }^{3} 739,246$ | 4,045,371 |
| 17. Applicable to stockbolders' $n$ investment, | 7, 489, 290 | 6, 729, 205 | 251, 886 | $33,095,882$ | 32,025, 107 | ${ }^{3} 613,371$ | 1, 262, 797 | 4, 925, 345 | 7, 810, 303 | 9, 721, 598 | 3 847, 649 | $3,111,614$ |
| 18. Applicable to common stockhol | 7,288, 402 | 6,677, 885 | 190,917 | $33,215,138$ | 32, 143, 727 | ${ }^{8} 729,951$ | 1, 147, 251 | 4, 813, 029 | 7, 670,858 | 751,020 | 8 2, 871, 130 |  |
| Rate of return on total in vestment ( $16+13$ ) $\ldots$.-.-- | 13.96 | 10.46 | 2.37 | ${ }^{3} .81$ |  | 1.78 | 4.04 | 7.93 | 9.68 | 9.37 | ${ }^{8} .60$ | $6.53$ |
| Rate of return on stockholders' investment ( $17 \div 14$ ) | 17.03 | 13.20 |  |  |  | . 27 |  | 65 | 1.9 | 9.75 | 70 | . 90 |
| Rate of return on common stockholders' equity (18 $\div 15$ ) |  | 78 | 34 | 36. 13 | 48 | . 5 | 49 | 80 | . 12 | 11.48 |  | . 1 |

[^76]1 Less unamortized debt discount and expenses.
i Net profits and rates of return are for an $18-\mathrm{mon}$
Appendix Table 18A.-Summary of income, expenses, and surplus for the Americen Rolling Mill Co. and subsidiaries, 1917-98

|  | 19171 | 19181 | 1919 1 | 19201 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$21, 791, 796 | \$32, 427,058 | \$25, 958, 749 | \$44, 652, 818 | \$11, 740, 729 | \$20, 294, 205 | \$26, 691, 235 | \$28, 679, 8 | \$34, 257, 812 | \$34, 958, 64 | \$39, 087, 519 | \$61, 887, 914 |
| Cost of roods sold <br> Distribution and administrative expenses. <br> Provision for depreciation and depietion | 14, 425, 260 <br> 1,627,273 <br> 1,096,508 | 22, 206, 216 <br> 1,469, 394 767, 504 |  | $\begin{array}{r} 35,376,940 \\ 2,749,985 \\ 1,546,733 \end{array}$ | $\begin{array}{\|r} 12,404,179 \\ 1,397,954 \\ 459,787 \end{array}$ |  | $\begin{array}{r} \hline 20,417,266 \\ 1,820,111 \\ 1,066,375 \end{array}$ | $\begin{array}{r} \hline 23,454,474 \\ 2,026,966 \\ 1,073,614 \end{array}$ | $\begin{array}{r} 27,877,306 \\ 2.057,502 \\ 1,233,162 \end{array}$ |  | 30, 156, 225 <br> 3, 348, 915 <br> 1, 457, 378 | 49, 812, 578 <br> 4, 640, 385 <br> 2, 491, 870 |
| Total operatin | 17, 149,041 | 24, 443, 114 | 23, 014, 719 | 39,673.658 | 14, 261,930 | 17,876, 648 | 23, 303, 752 | 26,555,057 | 31, 217, 970 | 30, 624, 422 | 34,962, 518 | 56, 944, 833 |
| Net income from o Other income (net) | $\begin{array}{r} 4,642,755 \\ i 647,320 \end{array}$ | $\begin{array}{\|c\|} \hline 7,983,944 \\ i 364,076 \end{array}$ | $\begin{array}{r} 2,942,030 \\ 3,077 \\ \hline \end{array}$ | $\begin{array}{r} 4,979,160 \\ 332,598 \end{array}$ | $\begin{array}{\|r} 2 \\ \hline 2,521,191 \\ 112,218 \\ \hline \end{array}$ |  | $\begin{array}{r} 3,387,483 \\ 379,205 \end{array}$ | $\begin{aligned} & 2,124,761 \\ & 1,521,733 \end{aligned}$ | $\begin{array}{r} 3,039,842 \\ 813,220 \end{array}$ | $\begin{array}{r} 4,334,221 \\ 680,229 \end{array}$ | $\begin{array}{r} 4,125,001 \\ 495,549 \end{array}$ | $\begin{aligned} & 4,923,081 \\ & 3,996,319 \end{aligned}$ |
| Net income applicable to total investment | 3, 995, 43 | 7, 619, 868 | 2,945, 107 | 5,311,759 | 2 2, 408, 973 | 2, 308, 365 | 3,766, 688 | 3,646, 494 | 3, 633, 062 | 5,014, | 4,620, 550 | 8, 819,400 |
| Income applicable to minority interest. <br> Interest on long-term debt | 102, 773 | 70, 103 | 59,080 | 20, 272 |  |  | 7,05 | 72, | 437, 290 | 17,3 | 412, ${ }^{1,924}$ | 1,430, 110 |
| Net Income applicable to stockholders' investment -- and proft Provision for Federal income and profts taxes. | 3, 892, 662 | $\begin{aligned} & 7,549,765 \\ & 2,975,576 \end{aligned}$ | $\begin{array}{r} 2,886,027 \\ 694,389 \end{array}$ | $\begin{array}{r} 5,291,487 \\ 962,781 \end{array}$ | 22,408, 9 | 2,308,385 | $\begin{array}{r} 3,692,632 \\ \quad 219,734 \\ \hline \end{array}$ | $\begin{array}{r} 3,173,856 \\ 328,801 \end{array}$ | $\begin{array}{r} 3,215,772 \\ 329,460 \end{array}$ | $\begin{array}{r} 4,597,071 \\ 533,021 \end{array}$ | $\begin{array}{r} 4,206,235 \\ 459,664 \end{array}$ | $\begin{array}{r} 7,489,290 \\ 814,256 \\ \hline \end{array}$ |
| Net income for the Surplus beginning of the | $\begin{aligned} & 3,892,662 \\ & 4,415,234 \end{aligned}$ | $\begin{aligned} & 4,574,189 \\ & 5,924,586 \end{aligned}$ | $\begin{array}{r} 2,191,638 \\ 12,175,635 \end{array}$ | $\begin{array}{r} 4,329,706 \\ 12,710,961 \end{array}$ | $\begin{gathered} 22,408,973 \\ 10,690,530 \end{gathered}$ | $\begin{array}{r} 2,306,365 \\ 10,330,834 \end{array}$ | $\begin{array}{r} 3,472,898 \\ 12,156,644 \end{array}$ | $\begin{array}{r} 2,845,055 \\ 13,314,328 \end{array}$ | $\begin{array}{r} 2,886,312 \\ 12,810,516 \end{array}$ | $\begin{array}{r} 4,064,050 \\ 12,123,727 \end{array}$ | $3,746,571$ $12,432,391$ | $\begin{array}{r} 6,675,034 \\ 12,789,161 \end{array}$ |
| Total | 8, 307, 896 | 10, 498, 775 | 14,367, 273 | 17,039, 60 | 8, 281, 457 | 12,637, 199 | 15, 629, 542 | 16, 159, 383 | 15, 696, 828 | 16, 187, 777 | 16, 178, 962 | 19, 464, 19 |
| dividend |  |  |  |  |  |  |  |  |  |  |  |  |
| Common stock in stock | 1, 1 1, 2050,035 | $1,678,476$ 441,075 | $1,183,833$ 459,900 | cone2, 0588,352 <br> 3,683 | $1,404,997$ 781,900 | 1,428,204 | 1,514, 712 | $1,839,622$ $1,000,000$ | , $1,721,195$ | 1, 102, ${ }^{1,035}$ | ${ }_{1}^{1,165,068}$ | 1, 2 , 225,030 |
| Preferred stock in cash. | 48,000 | 78,000 | 78,000 | ${ }_{639,567}$ | 489, 301 | 485, 300 | 898, 591 | 888, 269 | 820, 721 | 826, 162 | 815,091 | 200, 888 |
| Total. | 2, 383, 310 | 2, 195, 551 | 1,721,733 | 6,381,419 | 2, 676, 198 | 1,913, 504 | , 30 | 3,487, 89 | 3, 591, 560 | 3, 735, 7 | 3, 891, 84 | 3, 968,303 |
| Total after deducting dividends.. | 5, 924, 586 | 8, 303, 224 | 12,645, 540 | 10, 658, 248 | 5, 605, 259 | 10, 723, 695 | 13, 216, 239 | 12,691,492 | 12, 105, 268 | 12, 452,035 | 12, 287, 121 | 15,495,832 |
| Other net additions or deductions: <br> Revaluation of roal estate, plant, mineral and manufacturing properties, etc. |  | 2, 692, 402 | ,748 | 120, 581 |  | 1,335,985 |  |  |  | ${ }^{3} 489,667$ |  | 2,236,418 |
| Sales of real estate, plant, mincral, |  |  | 84 |  |  |  | 166,700 |  | ${ }^{3} 46,663$ | 148, 667 | 3 82, 5 |  |


Appendix Table 18a.-Summary of income, expenses, and surplus for the American Rolling Mill Co. and subsidiaries, 1917-38-Continued

|  | 1920 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | $\begin{gathered} \text { Total (223/2} \\ \text { years) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Surplus beginning | \$23, 755, 643 | \$31, 572, 644 | \$24, 780, 431 | \$19, 703, 551 | \$16, 779, 809 | \$14, 439, 517 | \$14, 634, 742 | \$15, 828, 049 | \$12, 660, 859 | \$12, 623, 475 |  |
| Tota | 29, 866, 213 | 31, 686, 738 | 21,681,985 | 17,673, 949 | 16, 106, 720 | 15, 406, 083 | 18,944, 872 | 22, 269, 725 | 20, 892, 194 | 11, 315, 595 |  |
| Less dividends paid on: | 2, 787, 622 | 3, 241, 558 | 5,110 |  |  |  | 1, 068, 154 | 5, 604, 119 | 4, 015, 943 |  | \$36, 466, 814 |
| Common stock in stock | $1,689,229$ 51,320 | $2,035,954$ 60,969 | 119, 256 | 118, 620 |  |  | 348,500 | 144, 907 | 972, 351 | 1,012,523 | 9, 036,336 |
| Total | 4, 528, 171 | 5, 338, 481 | 124, 366 | 118, 620 |  |  | 1, 416, 654 | 5, 749, 026 | 4, 988, 294 | 1,012,523 | 61, 616, 550 |
| Total after deducting divid | 25, 338, 042 | 26,348, 257 | 21, 557, 619 | 17, 555, 329 | 16, 106, 720 | 15, 406, 083 | 17, 528, 218 | 16, 520, 699 | 15, 903,900 | 10, 303, 072 | 314, 676, 478 |
| Other net additions or deductions: <br> Revaluation of real estate, plant, mineral, and manufacturing properties, etc- | ${ }^{8} 238,476$ | ${ }^{3} 169,916$ | ${ }^{3} 19,943$ | ${ }^{3} 5,764$ | ${ }^{8} 151,224$ | ${ }^{3} 403,571$ | ${ }^{3} 461,399$ | ${ }^{3} 1,988,953$ | ${ }^{3} 978,257$ |  | $\begin{aligned} & 2,583,988 \\ & 281,801 \end{aligned}$ |
| Revaluation of securities <br> Sales of real estate, plant, mineral, and manufacturing iroperties, etc. |  |  |  |  | ${ }^{3} 63,928$ ${ }^{4} 410,038$ | ${ }^{3} \mathbf{2 5 5 , 1 1 3}$ | ${ }^{3} 221,736$ | ${ }^{3} 786,153$ | $\begin{array}{r} 3900,312 \\ 31,168,502 \end{array}$ |  | $\begin{array}{r} 34,279,455 \\ 13,315,887 \end{array}$ |
| Premiums or discounts on stock issues Conversion, repurchase, or sale of own securities | 8, 000, 124 | ${ }^{3} 2,815$ | ${ }^{3} 1,140,053$ | 7,800 | ${ }^{8} 423,027$ | 7,919 | ${ }^{8} 39,092$ | ${ }^{3} 716,169$ | $1,168,502$ 5,800 |  | 3 3 $2,296,822$ |
| Acquisition of assets and securities of other companies | ${ }^{3} 40,306$ | 839,538 |  | ${ }^{3} 69,522$ |  |  | 13,137 | ${ }^{3} 402,432$ | 846, 474 |  | 8,110,446 |
| Appropriations to provide for retirement of plant property, sundry deficiencies, charges, etc |  |  | ${ }^{3} 500,000$ | ${ }^{3} 1,265,000$ |  |  |  |  | ${ }^{3} 558,255$ | ${ }^{1} 104,419$ | $\begin{array}{r} \text { a } 1,869,419 \\ \therefore \quad 1,861,113 \end{array}$ |
| Premium and expense on bonds retired Unamortized discount and expense applicable to funded debt retired. | ${ }^{3} 250,000$ |  |  |  |  |  | ${ }^{3} 251,319$ |  | 3 529,965 |  | 8 8 81581,284 84743 |
| Depreciation charged to capital surplus Miscellaneous. | ${ }^{3} 168,743$ | $\begin{array}{r} 31,547,436 \\ 371,732 \end{array}$ | ${ }^{3} 194,072$ | 556, 966 | ${ }^{3} 618,986$ | ${ }^{3} 103,752$ | ${ }^{3} 237,182$ | 33, 867 | 2, 592 | 15,779 | $\begin{array}{r}8 \\ 3 \\ 3 \\ 1\end{array}, 9472,269$ |
| Total other net additions or deductions.- | 6,234,602 | ${ }^{3} 1,567,826$ | ${ }^{3} 1,854,068$ | ${ }^{3} 775,520$ | ${ }^{3} 1,667,203$ | ${ }^{3} 771,341$ | ${ }^{\text {a }} 1,700,169$ | ${ }^{3} 3,859,810$ | ${ }^{3} 3,280,425$ | ${ }^{1} 110,198$ | 9, 754, 329 |
| Surplus end of the year | 31, 572,644 | 24, 780, 431 | 19, 703, 551 | 16, 779, 809 | 14, 439, 517 | 14, 634, 742 | 15, 828,049 | 12, 660, 859 | 12, 623, 475 | 10, 192, 874 |  |

[^77]Appendix Tarle 19.-Summary of investments, profits, and rates of return for Wheeling Steel Corporátion ${ }^{1}$ and subsidiaries, $1917-38$

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. Comme | $\left\lvert\, \begin{array}{r} \$ 9,915,400 \\ 9,915,400 \end{array}\right.$ | $\begin{array}{r} \$ 9,915,400 \\ 9,915,400 \end{array}$ |  |  |  | $\$ 23,602,200$ $39,520,120$ |  | \$24, 217,033 | \$27, 519, 314 | \$27, 529, 699 | \$27, 529, 800 | \$27, 529, 800 |
| 3. Tot\& | 19, 830, 800 | 19, 830, 800 | 19, 830, 800 | 19, 830, 800 | 62, 962, 045 | 63, 122, 320 | 63, 223, 886 | 63, 585 , $¢ 35$ | 964, 291 | 67, 000, 293 |  |  |
| 4. Surplus. | 5, 656, 764 | 9, 520,612 | 10, 122,948 | 10, 791, 097 | 13, 425, 159 | 6, 881, 653 | 6,010, 902 | 9,645, 022 | 5, 772, 011 | 7, 789, 837 | 9, 863, 746 | 063 |
| taxes. |  | 5, 189,302 | 4, 430, 262 | 207, 853 | 3, 346, 747 |  |  |  | 60,000 | 563, 394 | 717, 078 | 535, 000 |
| 6. Capltal stock and surpius... | 25, 487, 564 | 34, 540, 714 | 34, 284, 010 | 30, 829, 750 | 79, 733, 951 | 70, 003, 973 | 69, 234, 788 | 73, 230, 657 | 72, 796, 302 | 75, 353, 524 | 77, 594, 324 | 78, 588,563 |
| intang | 8,886, 362 | 8, 225, 366 | 7, 381, 131 | 6, 919, 363 | 6,492, 598 | 6, 106, 394 | 5, 675, 689 | 5, 752, 613 | 5, 746, 682 | 5, 746, 681 | 5, 746, 682 | 5, 725, 737 |
| 8. Stockholders' investment <br> 9. Minority stockholders equity in sub. | 16, 601, 202 | 26, 315, 348 | 26, 902, 879 | 23, 910, 387 | 73, 241, 353 | 63, 897, 579 | 63, 559, 099 | 67, 478, 044 | 67, 049, 620 | 69, 606, 843 | 71, 847,642 | 72, 862, 826 |
| sidiary companies |  |  |  |  |  |  |  |  |  |  |  |  |
| 10. Long-term debt ${ }^{\text {a }}$ | 3, 242, 500 | 2, 553, 500 | 2, 477, 000 | 2, 421,000 | 7,502, 522 | 7,263, 831 | 15, 122, 393 | 22, 241, 964 | 27, 236,094 | 26, 196, 598 | 24, 371, 574 | 23, 319,001 |
| 11. Total investment. | 19, 843, 702 | 28, 868, 848 | 29, 379, 879 | 26, 331, 387 | 81, 528, 470 | 71, 642,110 | 78, 786, 992 | 89, 720, 008 | 94, 285, 714 | 95, 803, 441 | 96, 219, 216 |  |
| 12. Average of totai investment.....- |  | 24, 356, 275 | 29, 124, 363 | 27, 855, 633 | 53, 929,928 | 76, 585, 290 | 75, 214, 551 | 84, 253, 500 | 92, 002, 861 | 95, 044, 577 | 96,011, 328 | $96,200,521$ |
| 13. Average of stockholders' in vestment..... |  | 21, 458, 275 | 26, 609, 113 | 25, 406, 633 | 48, 575, 870 | 68, 569,466 | 63, 728, 339 | 65, 518,572 | 67, 263, 832 | $68,328,231$ | 70, 727, 242 | 72, 355,234 |
| 14. Average of common stockholders' equity. |  | 11, 542, 875 | 16, 693, 713 | 15, 491, 233 | 31, 873, 470 | 45, 023, 666 | 40, 016, 689 | 41, 499, 506 | 41, 395, 409 | 40, 803, 475 | 43, 197, 493 | 44, 825,434 |
| Net income before deducting Federal income and profts taxes: |  |  |  |  |  |  |  |  |  |  |  |  |
| 15. Applicable to total investment. |  | 13, 028, 122 | 7, 979, 810 |  |  |  |  |  |  |  |  |  |
| 16. Applicable to stockholders' invest- |  | 13, 028, 122 | 7,50,810 | 2, 585, 574 | 20,872, 574 |  | 1,001, 187 | 6,374,490 | 2, 479, 781 | 6, 297, 823 | 7,320, 237 | 6, 088, 902 |
| 17. Applicable to common stockholders |  | 12, 882, 468 | 7, 852, 858 | 2, 462, 466 | 20, 253, 862 | ${ }^{3} 2,816,739$ | 250, 901 | 5, 251, 374 | 925, 110 | 4, 600, 987 | 5, 723, 538 | 4,563,916 |
|  |  | 12, 089, 236 | 7,059, 226 | 1,669, 234 | 18, 713, 553 | 3 5, 138, 072 | 3 2,099, 352 | 2, 862, 823 | ${ }^{3} 3,813,012$ | 1, 948, 591 | 2,672,049 | 1, 711, 317 |
| Rate of return on total investment ( $15+12$ ) (percent) |  |  |  |  |  |  |  |  |  | 1,08, 51 |  |  |
| Rate of return on stockholders' investment <br> ( $16+13$ ) (percent) |  |  | . 51 |  | 38.70 41.70 |  |  |  | 2.70 1.38 | 6.63 6.73 | 7.6 | 6. 3 |
| Rate of return on common stockbolders' |  |  |  |  |  |  |  |  |  | 6.73 | 9 | 6. 31 |
| equity (17+14) (percher |  | 104.73 | 42.29 | 10.78 | 58.71 | ${ }^{3} 11.41$ | ${ }^{8} 5.25$ | 6. 90 | 29.21 | 4. 78 | 6. 19 | 3.82 |

[^78]

[^79]Appendix Table 19a.-Summary of income, expenses, and surplus for Wheeting Steel Corporation ${ }^{1}$ and subsidiaries, 1917-38

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$31, 656, 268 | \$31, 646, 211 | \$18, 705, 774 | \$99, 822, 887 | \$27, 909, 236 | \$47, 352, 152 | \$70, 781, 680 | \$63, 901, 819 | \$79, 477, 841 | \$82, 169, 414 | \$71, 527, 239 | \$76, 974, 535 |
| Cost of goods sol ? <br> Distribution and administrative expenses <br> Provision for depreciation and depletion | $\begin{array}{r} 17,488,603 \\ 1,170,282 \end{array}$ | $22,440,006$ $1,499,319$ | $15,272,948$ $1,267,21.5$ | $\left\{\begin{array}{r} 73,633,915 \\ 3,156,948 \\ 3,172,965 \end{array}\right.$ | $\begin{array}{r} 24,822,814 \\ 3,409,754 \\ 2,708,320 \end{array}$ | $\begin{array}{r} 40,606,641 \\ 3,554,235 \\ 2,990,602 \end{array}$ | $\begin{array}{r} 58,361,548 \\ 3,821,213 \\ 2,741,075 \end{array}$ | $\begin{array}{r} 54,707,267 \\ 4,341,722 \\ 2,962,342 \end{array}$ | $\begin{array}{r} 66,133,058 \\ 4.567,390 \\ 3,170,837 \end{array}$ | $\begin{array}{r} 67,766,429 \\ 4,532,646 \\ 3,291,884 \end{array}$ | $\begin{array}{r} 58,444,901 \\ 4,391,770 \\ 3,432,196 \end{array}$ | $\begin{array}{r} 60,036,199 \\ 5,067,020 \\ 4,065,252 \end{array}$ |
| Total operating o | 18, 658, 885 | 23, 939, 325 | 16,540, 163 | 79,963, 228 | 30, 940, 888 | 47, 061, 478 | 64, 923, 836 | 62,011, 331 | 73, 871, 285 | 75, 590, 959 | 66, 268, 867 | 69, 168, 471 |
| Net income from operations Other income (net) | $\begin{array}{r} 12,997,383 \\ 30,739 \end{array}$ | $\begin{array}{r} 7,706,886 \\ 272,924 \end{array}$ | $\begin{array}{r} 2,165,611 \\ 419,963 \end{array}$ | $\begin{array}{r} 19,859,659 \\ 1,012,915 \end{array}$ | $\begin{array}{r} 23,031,652 \\ 814,922 \end{array}$ | $\begin{aligned} & 290,674 \\ & 710,513 \end{aligned}$ | $\begin{array}{r} 5,857,844 \\ 516,646 \end{array}$ | $\begin{array}{r} 1,890,488 \\ 589,293 \end{array}$ | $\begin{array}{r} 5,606,556 \\ 691,267 \end{array}$ | $\begin{array}{r} 6,578,455 \\ 741,782 \\ \hline \end{array}$ | $\begin{array}{r} 5,258,372 \\ 830,530 \\ \hline \end{array}$ | $\begin{aligned} & 7,806,064 \\ & 1,033,679 \end{aligned}$ |
| investment .......................... | 13,028, 122 | 7, 979, 810 | 2, 585, 574 | 20,872, 574 | ${ }^{2} 2,216,730$ | 1,001, 187 | 6, 374,490 | 2, 479, 781 | 6,297, 823 | 7,320, 237 | 6,088, 002 | 8,839, 743 |
| Income applicable to minority interest <br> Interest on long-term debt | $145,654$ | $\begin{array}{r} 0 \\ 126,952 \end{array}$ | 123, 108 | $\begin{array}{r} 99,110 \\ 519,602 \end{array}$ | $\begin{array}{r} 21,886 \\ 578,123 \end{array}$ | $\begin{array}{r} 5,670 \\ 744,616 \end{array}$ | $\begin{array}{r} 56 \\ 1,123,060 \end{array}$ | 1,554,671 | 1,696, 836 | 1,596,699 | 1,524, 986 | 1,826.004 |
| Nct income applicable to stockholders' investment <br> Provision for Federal income and profits taxes | $\begin{array}{r} 12,882,468 \\ 5,189,302 \end{array}$ | $\begin{aligned} & 7,852,858 \\ & 4,330,262 \end{aligned}$ | $2,462,466$ 207,853 | $\begin{array}{r} 20,253,862 \\ 3,346,747 \end{array}$ | 2, 2, ${ }^{\text {2 }}$, 739 | 250.901 | 5, 251, 374 | $\begin{array}{r} 925,110 \\ 60,000 \end{array}$ | $\begin{array}{r} 4,600,987 \\ 563,394 \end{array}$ | $\begin{array}{r} 5,723,538 \\ 717,078 \end{array}$ | $\begin{array}{r} 4,563,916 \\ 535,000 \end{array}$ | $\begin{array}{r} 7,013,739 \\ 570,000 \end{array}$ |
| Net income for the year surplus beginning of the year | $\begin{aligned} & 7,693,166 \\ & 5,656,764 \end{aligned}$ | $\begin{aligned} & 3,522,596 \\ & 9,520,612 \end{aligned}$ | $\begin{array}{r} 2,254,613 \\ 10,122,748 \end{array}$ | $\begin{aligned} & 16,907,115 \\ & 10,791,097 \end{aligned}$ | $\left.\begin{array}{r} 2 \\ 2,816,739 \\ 13,425,159 \end{array} \right\rvert\,$ | $\begin{array}{r} 250,901 \\ 6,881,653 \end{array}$ | $\begin{aligned} & 5,251,374 \\ & 6,010,902 \end{aligned}$ | $\begin{array}{r} 865,110 \\ 9,645,022 \end{array}$ | $\begin{aligned} & 4,037,593 \\ & 5,772,011 \end{aligned}$ | $\begin{aligned} & 5,006,460 \\ & 7,789,837 \end{aligned}$ | $\begin{aligned} & 4,028,916 \\ & 9,863,746 \end{aligned}$ | $\begin{array}{r} 6,443,739 \\ 11,040,063 \end{array}$ |
| Total | 13.349, 930 | 13, 043, 208 | 12, 377, 561 | 27,698, 212 | 10, 608, 420 | 7, 132, 554 | 11, 262, 276 | 10, 510, 132 | 9, 809, 604 | 12, 796, 297 | 13, 892, 662 | 17, 483, 802 |
| Less dividends paid on: Common stock in cash. | 1. 189, 848 | 1,189.848 | 793, 232 | 1, 919, 297 | 388, 101 |  |  |  |  |  |  |  |
| l'referred stock in cash. | 793,232 | 793, 232 | 793. 232 | 1, $1,540,309$ | 2, 044, 237 | 1, 175, 196 | 1, 776,641 | 4, 738, 122 | 2,055, 469 | 3,051, 489 | 2, 852, 599 | 2, 653, 280 |
| Total | 1,983, 080 | 1,983,080 | 1, 586, 464 | 33, 126, 965 | 2, 432, 338 | 1, 175, 196 | 1,776, 641 | 4, 738, 122 | 2,055, 469 | 3,051, 489 | 2, 852, 599 | 2, 653, 280 |

Appendix Tamte 19a.-Summary of income, expenses, and surplus for Wheeling Steel Corporation and subsidiaries, 1917-38-Continued



[^80]Appendix Table 20.-Summary of investments, profits, and rates of return for Otis Steel Co. and subsidiaries, 1919-38

|  | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  | \$4, 830, 600 | \$8, 830, 600 | \$8, 830,600 | \$8, 830,600 | \$8,830, 600 | \$8,830, 600 | \$8,830, 600 | \$11, 741, 859 | \$11, 759, 283 | , 733,017 |
| 1. $2 . \quad$ Commo | $\begin{array}{r}\text { 42, } \\ 4 \\ \hline\end{array}$ | 2, 058, 340 | 2,058, 340 | 2, 058,340 | 3, 705, 010 | 3, 705, 010 | 3, 705, 010 | 3, 705, 010 | 3,709,010 | 3, 709, 010 | 4, 035,010 |
| Total | 7, 176, 300 | 6, 888, 910 | 10, 888, 940 | 10, 888, 940 | 12, 535, 610 | 12, 535, 610 | 12, 535, 610 | 12, 535, 610 | 5, 450, 869 | 15, 468, 293 | $15,769,027$ |
| 4. Surplus earned and capital | 3, 824, 399 | 7, 027, 308 | 7, 508, 322 | 7,184, 708 | 8,053,077 | 9,756, 394 | 8, 217, 135 | 9,556, 267 | 5, 956, |  | $9,639,442$ |
| 6. Reserves for Federal income and $p$ |  | 88, 178 | 71, 226 | 0 | 96,761 | 0 | 0 | 0 | 40,000 | 220,000 | 465, 000 |
| 8. Long-term debt ${ }^{1}$ <br> 7. Stockholders' invest | $\begin{array}{r} 11,000,699 \\ 165,500 \end{array}$ | 14, 004, 426 | 18, 468.788 | $\begin{array}{r} 18,073,648 \\ 4,562,596 \end{array}$ | $\begin{array}{r} 20,685,448 \\ 9,000,804 \end{array}$ | $\begin{array}{r} 22,292,004 \\ 8,578,356 \end{array}$ | $\begin{array}{r} 20,752,745 \\ 8,215,394 \end{array}$ | $\begin{array}{r} 22,091,877 \\ 7,995,025 \end{array}$ | $\begin{aligned} & 21,447,066 \\ & 11,073,295 \end{aligned}$ | $\begin{aligned} & 22,393,794 \\ & 11,138,709 \end{aligned}$ | $\begin{aligned} & 25,872,469 \\ & 10,796,516 \end{aligned}$ |
| 9. Total investment | 11, 166, 199 | $14,004,426$ $12,585,313$ | $\begin{aligned} & 18,468,788 \\ & 16,236,607 \end{aligned}$ | $\begin{aligned} & 22,636,244 \\ & 20,552,516 \end{aligned}$ | $29,686,252$ $26,161,248$ | $\begin{aligned} & 30,870,360 \\ & 30,278,306 \end{aligned}$ | $28,968,139$ <br> 29,919 | $30,086,902$ <br> $29,527,521$ | $32,520,361$ $31,303,631$ | $\begin{aligned} & 33,532,503 \\ & 33,026,432 \end{aligned}$ | $36,668,985$ <br> $35,100,744$ <br> 12 |
| 10. A verage of total investment......... |  | 12, 502, 5¢3 | 16, 236, 607 | 18, 271, 218 | 19, 379, 548 | 21, 488, 726 | 21, 522, 375 | 21, 422, 311 | 21, 769, 471 | 21, 920,430 | 24, 133, 132 |
| 12. Average of common stockholders' equit |  | 8, 900, 513 | 9, 406,007 | 9,440,618 | 10,548, 948 | 12, 658, 126 | 12, 691, 774 | 12, 591, 711 | 11, 483, 241 | 10, 169, 859 | 12, 386, 982 |
| Nct income before deducting Federal income and profits taxes: |  |  |  |  |  |  |  |  |  |  |  |
| 13. Applicable to total investment, |  | 1,091, 877 | 1, 212, 614 | $24,562,424$ $24,699,508$ | 25,315 2427,658 | $1,785,249$ $1,360,893$ | 2 2 $\mathbf{1}, 4796,099$ 47141 | $2,171,791$ $1,404,387$ | $2,713,436$ $1,947,315$ | 2, 388, 294 | $\begin{aligned} & 4,604,756 \\ & 3,835,982 \end{aligned}$ |
| 14. Applicable to stockholders' 15. Appestment.-.-, Aplicable to common stockholders' |  | 1,078, 644 | 1, 212, 614 | 24, 699, 508 | 2427,658 | 1,360, 893 | 2 1,479, 141 | 1, 404, 387 | 1,947,315 | 1,602, 880 | $\text { 3, 835, } 982$ |
| equity |  | 874, 899 | 681, 389 | ${ }^{2} 5,317,650$ | 2 1, 045, 800 | 742, 751 | 2 2, 097, 283 | 786, 245 | 1,227, 281 | 83, 297 | 3, 014,873 |
| Rate of return on total investment $(13 \div 10)$ |  | 8.68 | 7.47 | 22.20 | 0.02 | 5. 90 | 2. 43 | 7.36 | 7 | . 23 | 13.12 |
| Rate of return on stockholders' investment (14- <br> 11) $\qquad$ percent |  | 8.63 | 7.47 | ${ }^{2} 25.72$ | 2. 21 | 33 | 6.87 | . 56 |  | 7.31 | 15.90 |
| Rate of return on common stockholders' equity ( $15 \div 12$ ) $\qquad$ percent |  | 9.83 | 7.24 | 256.33 | 29.91 | 5.87 | ${ }^{2} 16.52$ | 6.24 | 10.69 | 7.70 | 24.34 |


|  | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Annual a verage: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { Capital stock: } \\ & \text { 1. Preferred } \\ & \text { 2. Common. } \end{aligned}$ | $\begin{array}{r} \$ 11,531,625 \\ 4,205,010 \end{array}$ | $\begin{array}{r} \$ 11,503,433 \\ 4,205,010 \end{array}$ | $\begin{array}{r} \$ 11,503,433 \\ 4,205,010 \end{array}$ | $\begin{array}{r} \$ 11,503,433 \\ 4,205,010 \end{array}$ | $\begin{array}{r} \$ 11,503,433 \\ 4,205,010 \end{array}$ | $\begin{array}{r} \$ 11,503,895 \\ 4,205,010 \end{array}$ | $\begin{array}{r} \$ 11,503,895 \\ 4,205,010 \end{array}$ | $\begin{array}{r} \$ 11,103,140 \\ 4,445,650 \end{array}$ | $\begin{array}{r} \$ 10,674,240 \\ 4,482,985 \end{array}$ | $\begin{array}{r} \$ 10,313,640 \\ 4,579,145 \end{array}$ |  |
| 3. Total <br> 4. Surplus earned and capital <br> 5. Contingency reserves | $15,736,635$ $11,664,495$ | $\begin{aligned} & 15,708,443 \\ & 10,154,216 \end{aligned}$ | $\begin{array}{r} 15,708,443 \\ 7,352,137 \end{array}$ | $\begin{array}{r} 15,708,443 \\ 2,935,298 \\ 162,479 \end{array}$ | $\begin{array}{r} 15,708,443 \\ 1,425,770 \\ 156,327 \end{array}$ | $\begin{array}{r} 15,708,905 \\ 1,986,199 \\ 214,762 \end{array}$ | $\begin{array}{r} 15,708,905 \\ 4,214,863 \\ 219,006 \end{array}$ | $\begin{array}{r} 15,558,790 \\ 5,816,053 \\ 157,227 \end{array}$ | $\begin{array}{r} 15,157,225 \\ 6,608,346 \\ 157,227 \end{array}$ | $\begin{array}{r} 14,892,785 \\ 5,245,272 \\ 157,227 \end{array}$ |  |
| profits taxes. | 465, 000 | 115,000 | 0 | 0 | 0 | 103,000 | 399, 015 | 832, 054 | 536, 476 | 24,112 |  |
| 7. Stockholders' inve 8. Long-term debt ${ }^{\text {I }}$ | $\begin{aligned} & 27,366,130 \\ & 10,574,538 \end{aligned}$ | $\begin{aligned} & 25,977,659 \\ & 10,366,452 \end{aligned}$ | $\begin{aligned} & 23,060,580 \\ & 10,227,867 \end{aligned}$ | $\begin{aligned} & 18,806,220 \\ & 10,293,281 \end{aligned}$ | $\begin{aligned} & 17,290,540 \\ & 10,358,696 \end{aligned}$ | $\begin{aligned} & 18,012,866 \\ & 10,421,110 \end{aligned}$ | $\begin{aligned} & 20,541,789 \\ & 10,489,525 \end{aligned}$ | $\begin{aligned} & 22,364,124 \\ & 10,554,939 \end{aligned}$ | $\begin{aligned} & 22,459,274 \\ & 13,477,005 \end{aligned}$ | $\begin{array}{r} 20,319,396 \\ 13,371,769 \end{array}$ |  |
| 9. Total investment | 38,440, | 36, 344 | 33, 288, 447 | 29,099, 501 | 27, 649, 236 | 28, 436, 976 | 31,031, 314 | 32, 919, 063 | 35, 836,279 | 33, 691, 165 |  |
| 10. Average of total invest ment.- | 37, 554, 827 | 37, 392, 390 | 34, 816, 279 | 31, 193, 974 | 28, 374, 368 | 28,043, 106 | 29, 734, 145 | 31, 075,188 | 34,427, 671 | 34, 813,722 | \$29, 650,862 |
| 11. Average of stockholders' investment- | 26, 869, 300 | 26, 921, 895 | 24, 519, 119 | 20, 933, 400 | 18,048, 380 | 17, 651, 703 | 19, 277, 327 | 21, 452, 956 | 22, 411, 699 | 21, 389, 335 | 20,906, 075 |
| equity. <br> Net income before deducting Federal income and profits taxes: | 15, 236, 979 | 15, 404, 366 | 13, 015,686 | 9, 429, 967 | 6,544,947 | 6, 148, 039 | 7,773, 432 | 10, 149, 439 | 11, 523, 009 | 10, 493, 910 | 10, 799, 879 |
| 13. Applicable to total investment | 4, 903, 952 | 1,722,025 | 2849,121 | 2 2, 110, 894 | 2790,831 | 1,380, 711 | 3, 342, 207 | 3,500,214 | 3,592,735 | 2557,787 | 1, 240,364 |
| 14. Applicable to stockholders' in- | 4, 152,689 | 983, 730 | ${ }^{2} 1,571,342$ | 22, 830, 155 | 2 1, 500, 528 | 663, 891 | 2, 623, 664 | 2, 785, 150 | 2,813, 275 | 2 1, 230, 297 | 635, 874 |
| 15. Applicable to common stock. holders' equity | 3,333, 976 | 179, 105 | 2 2, 376,580 | 2, 3, 635, 393 | ${ }^{2} 2,314,766$ | ${ }^{2} 141,344$ | 1,818, 391 | 1, 976, 838 | 1, 895, 780 | 22,005, 191 | 280,95 |
| Rate of return on total investment ( $13 \div$ 10) percent. | 13.06 | 4.61 | ${ }^{2} 2.44$ | 26.77 | 22.79 | 4.92 | 11:24 | 10.95 | 10.44 | ${ }^{2} 1.60$ | 4.18 |
| Rate of return on stockholders' investment $(14+11)$ $\qquad$ (percent) | 15.46 | 3.65 | 26.41 | ${ }^{2} 13.52$ | 28.36 | 3.76 | 13.61 | 12.98 | 12.55 | 25.75 | . 04 |
| Rate of return on common stockholders' equity ( $15 \div 12$ ).................. (percent) | 21.88 | 1.16 | ${ }^{2} 18.26$ | 238.55 | ${ }^{2} 35.37$ | ${ }^{2} 2.30$ | 23.39 | 19.48 | 16.45 | 219.11 | 2. 7 |

[^81]Appendix Table 20a.-Summary of income, expenses, and surplus for Otis Steel Co. and subsidiaries, 1919-38

|  | 1919 , | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$16, 285, 329 | \$32,984, 987 | \$6, 166, 654 | \$12, 271, 014 | \$25, 567, 900 | \$23, 385, 449 | \$28, 897, 687 | \$28, 091, 689 | \$26, 287, 475 | \$33, 451, 128 | \$32, 435, 420 |
| Cost of goods sold | 13, 983, 810 | 28, 680, 031 | 6, 716, 894 | 11, 699,897 | 22, 780, 280 | 22, 569, 985 | 25, 481, 016 | 24, 068, 908 | $22,559,996$ |  |  |
| Distribution and administrative expenses | 541,392 610,758 | $1,146,398$ 765,337 | 738,155 765,832 | $\begin{array}{r} 486,852 \\ 2,208 \end{array}$ | $\begin{aligned} & 674,362 \\ & 352,502 \end{aligned}$ | $\begin{array}{r} 663,991 \\ 763,355 \end{array}$ | $\begin{aligned} & 532,552 \\ & 720,000 \end{aligned}$ | $\begin{aligned} & 627,004 \\ & 720,000 \end{aligned}$ | $\begin{aligned} & 665,979 \\ & 720,000 \end{aligned}$ | $\begin{aligned} & 668,893 \\ & 868,650 \end{aligned}$ | $\begin{aligned} & 723,447 \\ & 864,780 \end{aligned}$ |
| Total operating expenses | 15, 135, 960 | 30, 591, 766 | 8,220, 881 | 12, 188, 957 | 23, 807, 144 | 23, 997, 331 | 26, 733, 568 | $25,415,912$ | 23, 945, 975 | 28, 702, 189 | 27, 380, 220 |
| Net income from operations Other income (net) | $1,149,369$ 157,492 | $2,393,221$ $11,180,607$ | $12,054,227$ <br> $12,508,197$ | $\begin{array}{r} 82,057 \\ 187,372 \end{array}$ | $\begin{array}{r} 1,760,756 \\ 24,493 \end{array}$ | $\begin{aligned} & 1611,882 \\ & 1114,217 \end{aligned}$ | $\begin{array}{r} 2,164,119 \\ 7,672 \end{array}$ | $\begin{array}{r} 2,675,777 \\ 37,659 \end{array}$ | $\begin{array}{r} 2,341,500 \\ 46,794 \end{array}$ | $\begin{array}{r} 4,748,939 \\ 1144,182 \end{array}$ | $\begin{array}{r} 5,055,200 \\ 1 \\ 151,248 \end{array}$ |
| Net income applicable to total investment | $\begin{array}{r} 1,091,877 \\ 13,233 \end{array}$ | 1,212, 614 | $\begin{array}{r} 14,562,424 \\ 137,084 \end{array}$ | $\begin{array}{r} 15,315 \\ 422,343 \end{array}$ | $\begin{array}{r} 1,785,249 \\ 424,356 \end{array}$ | $\begin{array}{r} 1726,099 \\ 753,042 \end{array}$ | $\begin{array}{r} 2,171,791 \\ 767,404 \end{array}$ | $\begin{array}{r} 2,713,436 \\ 766,121 \end{array}$ | $\begin{array}{r} 2,388,294 \\ 785,414 \end{array}$ | $\begin{array}{r} 4,604,757 \\ 768,775 \end{array}$ | $\begin{array}{r} 4,903,952 \\ 751,263 \end{array}$ |
| Net income applicable to stockholders' investment | 1, 078, 644 | 1,212, 614 | 14,699, 508 | 1427,658 | 1,360,893 | 11, 479, 141 | 1, 404, 387 | 1,947, 315 | 1,602, 880 | 3, 835,982 | 4, 152, 689 |
| Provision for Federal income and profits taxes. | 88,178 | 71, 526 | 0 | 0 | 0 | 0 | 0 | 40,000 | 220,000 | 465,000 | 465, 00 |
| Net | 990, 466 | 1, 141, 088 | $14,699,508$ | 1427,658 | 1,360, 893 | 1 1, 479, 141 | + 1, 404, 387 | 1, 907, 315 | 1, 382, 880 | 3, 370, 982 | 3,687, 689 |
| Surplus, beginning of the yea | 3, 824, 399 | 7, 027, 308 | 7, 508, 322 | 7, 184, 708 | 8, 053, 077 | 9,756, 394 | 8, 217, 135 | 9,556, 267 | 5, 956, 197 | 6, 705, 501 | 9,639,442 |
| Tota | 4, 814, 865 | 8, 168, 396 | 2, 808, 814 | 6, 757, 050 | 9, 413, 970 | 8,277, 253 | 9,621, 522 | -11, 463, 582 | 7, 339, 077 | 10, 076, 483 | $13,327,131$ |
| Less dividends paid in cash on- <br> Common stock <br> Preferred stock | 203, 745 | 531, 225 | 309, 071 | 0 0 | 0 | 0 | 0 | 398, 431 | 819, 583 | 821, 109 | $\begin{array}{r} 1,051,261 \\ 818,713 \end{array}$ |
| Total | 203, 745 | 531, 225 | 309, 071 | 0 | 0 | 0 | 0 | 398, 431 | 819, 583 | 821, 109 | 1,869, 974 |
| Conversion, repurchase, or sale of own securities.. | 2, 399, 124 | 7,617 |  | 1, 317, 336 |  |  |  | 2 4,680,615 | ${ }^{2} 20,410$ | 381,657 | 207, 338 |
| Acquisition of assets and securitles of other companies. | 3, 325, 855 |  |  |  |  |  |  |  |  |  |  |
| Restorations of or appropriations for reserves..- | ${ }_{2} 3103,234$ |  | 4, 684, 965 | 230,492 3251,801 | 2 396 396 |  |  | $\begin{array}{r}2 \\ 2 \\ 2 \\ 2800,000 \\ \hline\end{array}$ | 200,000 6,417 |  |  |
| All other charges or credits. | ${ }^{2} 3,448,420$ | ${ }^{2} 136,466$ |  | ${ }^{2}$ 251,801 | 396, 114 | ${ }^{2} 60,118$ | ${ }^{2} 65,255$ | 228,339 | 6,417 | 2,411 |  |
| Surplus, end of the year | 7,027, 308 | 7, 508, 322 | 7, 184, 708 | 8,053, 077 | 9, 756, 394 | 8,217, 135 | 9, 556, 267 | 5,956, 197 | 6, 705, 501 | 9, 639, 442 | 11,664, 495 |


|  | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$20, 042,267 | +\$13, 567, 175 | \$6,798, 450 | \$13, 2ə7, 255 | \$10, 779, 945 | \$22, 747, 570 | \$28, 875, 577 | \$31, 989, 204 | \$13, 718, 500 | \$434, 241, 375 |
| Cost of goods sold | 17, 495, 673 | 12, 753, 059 | 7, 354, 458 | 12, 520, 915 | 13, 748, 583 | 17, 614, 829 | $23,508,013$ | 26, 327, 353 | 12, 459, 207 | 375, 279, 546 |
| Distribution and administrative expenses | 618, 295 | 549, 746 | 482, 309 | 471,553. | 600,107 | 726, 441 | 885, 846 | ,984,157 | ,681,332 | $13,468,811$ |
| Provlsion for depreciation and depletion. | 865, 109 | 865, 828 | 864, 986 | 864,950 | 866, 424 | 865,316 | $1,018,394$ | 1,041,867 | 1,080,557 | $15,486,853$ |
| Total operating expense | 18, 979, 077 | 44, 168, 633 | 8,701.753 | 13, 857, 418 | 15, 215, 114 | 19, 206, 586 | 25, 412, 253 | 28,353, 377 | 14, 221, 096 | 404, 235, 210 |
| Net income from operations Other income (net) | $\begin{array}{r} 1,663,190 \\ 58,835 \end{array}$ | $\begin{aligned} & 1601,458 \\ & 1247,663 \end{aligned}$ | $\begin{array}{\|r\|} \hline 1 \\ 1,903,303 \\ 1207,591 \end{array}$ | $\begin{aligned} & 1559,463 \\ & 1 \\ & 1 \\ & 231,468 \end{aligned}$ | $\begin{array}{r} 1,564,831 \\ 1 \\ 184,120 \end{array}$ | $\begin{array}{r} 3,540,984 \\ 1198,777 \end{array}$ | $\begin{array}{r} 3,463,324 \\ 36,890 \end{array}$ | $\begin{array}{r} 3,635,827 \\ 143,092 \end{array}$ | $\begin{array}{r} 1502,596 \\ \\ \\ \\ 155,191 \end{array}$ | $\begin{array}{r} 30,006,165 \\ 5,198,874 \end{array}$ |
| Net income spplicable to total investmen | $1.722,025$ 738,295 | $\begin{array}{r} 1849,121 \\ 722,221 \end{array}$ | $\left\|\begin{array}{r} 1 \\ 2,110,894 \\ 719,261 \end{array}\right\|$ | $\begin{array}{r} 1790,931 \\ 718,597 \end{array}$ | $\begin{array}{r} 1,380,711 \\ 716,820 \end{array}$ | $\begin{array}{r} 3,342,207 \\ 718,543 \end{array}$ | $\begin{array}{r} 3,500,214 \\ 715,064 \end{array}$ | $\begin{array}{r} 3,592,735 \\ 779,460 \end{array}$ | $\begin{array}{r} 1557,787 \\ 672,510 \end{array}$ | $\begin{aligned} & 24,807,291 \\ & 12,089,806 \end{aligned}$ |
| Net income applicable to stockholders' investment Provislon for Federal income and profits taxes.................. | $\begin{aligned} & 983,730 \\ & 115,000 \end{aligned}$ | 1 1, 571, 342 | 12,830, 155 | ${ }^{1} 1,509,528$ | $\begin{aligned} & 663.891 \\ & 103,000 \end{aligned}$ | $\begin{array}{r} 2,623,664 \\ 395,000 \end{array}$ | $\begin{array}{r} 2,785,150 \\ 805,000 \end{array}$ | $\begin{array}{r} 2,813,275 \\ 493,244 \end{array}$ | 11,230, 297 | $\begin{array}{r} 12,717,485 \\ 3,260,948 \end{array}$ |
| Net income for the year Surpius, beginning of the year | $\begin{array}{r} 868,730 \\ 11,664,495 \end{array}$ | $\begin{gathered} 1 \\ 1,571,342 \\ 10,154,216 \end{gathered}$ | $\left.\begin{array}{r} 1 \\ 2,830,155 \\ 7,352,137 \end{array} \right\rvert\,$ | $11,509,528$ $2,835,298$ | $\begin{array}{r} 560,891 \\ 1,425,770 \end{array}$ | $\begin{aligned} & 2,228,664 \\ & 1,988,199 \end{aligned}$ | $\begin{aligned} & 1,980,150 \\ & 4,214,863 \end{aligned}$ | $\begin{aligned} & 2,320,031 \\ & 5,816,053 \end{aligned}$ | $\left.\begin{array}{r} 1 \\ 1 \\ 6,230,297 \\ 6 \end{array} \right\rvert\,$ | 9, 456, 537 |
| Total | 12, 533, 225 | 8, 582, 874 | 4, 521, 982 | 1. 425,770 | 1,986, 661 | 4, 214, 863 | 6, 195, 013 | 8, 136, 084 | 5, 378, 049 |  |
| Less dividends pald in cash onCommon stock. Preferred stock | $1,576,894$ 804,625 | 402, 495 | 0 | 0 0 | 0 | 0 0 | 539,352 | 917, 495 | 397, 218 | $\begin{aligned} & 2,628,155 \\ & 6,953,062 \end{aligned}$ |
| Total | 2,381, 519 | 402, 495 | 0 | 0 | 0 | 0 | 529, 352 | 917, 495 | 397, 218 | 9, 581, 217 |
| Conversion, repurchase, or sale of own securities............. | 2,510 |  |  |  | 2462 |  | 150, 392 | ${ }^{1} 507,684$ |  | ${ }^{2} 743,197$ |
| Acquisitions of assets and securit'es of other companies |  |  |  |  |  |  |  |  |  | 3, 325, 855 |
| All other charges or credits . . .-.............. |  |  |  |  |  |  |  |  |  | $4,765,001$ |
| Loss from sales of real estate, plant, mineral, and manufacturing properties |  | ${ }^{2} 828,242$ | ${ }^{2} 1,586,684$ |  |  |  |  | ${ }^{2} 102,559$ | 264, 441 |  |
| Surplus, end of the year | -10,154, 216 | 7,352, 137 | 2, 935, 298 | 1, 425, 770 | 1, 986, 199 | 4, 214, 863 | 5, 816, 053 | 6, 608, 346 | 5, 245, 272 |  |

[^82]Tarle 21-Summary of investments, profits, and rates of return for Pittsburgh Steel Co. and subsidiaries, 1917-38

|  | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Canital stock: Preferred | \$10, 500, 000 | \$10, 500, 000 | \$10, 500,000 | \$10,500,000 | \$10, 500,000 | \$10,500, 000 | \$10, 500, 000 | \$10, 500, 000 | \$10,500,000 | \$10, 500,000 | \$10, 475, 000 | \$10, 475, 000 |
| 2. Common | 7,000, 000 | 7,000, 000 | 7,000, 000 | 7,000,000 | 7,000, 000 | 14,000,000 | 14, 000, 000 | 14, 000, 000 | 17,500, 000 | 17,500,000 | 25, 350, 000 | 25, 350, 000 |
| 3. Total | 17,500, 000 | 17,500, 000 | 17, 500, 000 | 17,500, 000 | 17,500,000 | 24,500, 000 | 24,500,000 | 24,500, 000 | 28,000, 000 | 28,000, 000 | 35, 825,000 | 35, 825,000 |
| 4. Surpius earned and capital <br> 5. Coritingency reserves. | $5,380,473$ <br> 138, 123 | $10,496,917$ 351,643 | 12, 358,360 | $\begin{array}{r} 13,484,906 \\ 505,834 \end{array}$ | $\begin{array}{r} 14,151,365 \\ 580,309 \end{array}$ | $\begin{array}{r} 7,298,892 \\ 119,063 \end{array}$ | $\begin{array}{r} 6,865,775 \\ 75,325 \end{array}$ | $7,593,248$ 170,077 | $\begin{array}{r} 8,529,135 \\ 325,726 \end{array}$ | $\begin{array}{r} 8,146,890 \\ 364,882 \end{array}$ | 8,901,583 | 9,588, 625 |
| $B$. Paserves for Federal income and profte taxes |  |  |  |  |  |  |  |  |  |  | 302, 244 | 424, 078 |
| 7. | 23,018, 596 | 28, 348.560 | 30, 352, 252 | 31, 490, 740 | 32, 231,674 | 31, 917, 955 | 31, 441, 100 | 32, 263, 325 | 36, 584, 861 | 36, 511, 772 | 45, 028, 827 | 45, 837, 703 |
| R. Reser intangibies .-.......-........ | 785, 043 | 765, 043 | 765, 043 | 765, 043 | 765,043 | 765, 043 | 765, 043 | 5, 007, 662 | 5,007,662 | 5,007,662 | 5, 007, 622 | 5, 007, 662 |
| ockholders | 22,253, 5.53 | 27, 583, 517 | 29, 587, 209 | 30, 725, 697 | 31, 466, 631 | 31, 152, 912 | 30, 676, 057 | 27, 255, 663 | 31, 847, 199 | 31, 504, 110 | 40,021, 615 | 40, 830,041 |
| :3. Minority sto |  |  |  |  |  |  |  |  |  |  |  |  |
| 11. Long-term debt | 2, 384,000 |  |  | 3,250,000 | 2, 200,000 | 1,650,000 | 1,463,016 | 742, 277 | 194, 423 | 95, 820 | 5, 389, 442 | 4, 916,954 |
| 12. Tetal investment | 24 6.37, 553 | 27. 583,517 | 29,587, 209 | 33, 975, 697 | 33, 666, 631 | 32, 802, 912 | 32, 139, 073 | 27, 997, 940 | 32, 041, 622 | 31, 599, 930 | 45, 410, 607 | 45, 746, 995 |
| 13. A rerage of total investment - .-. . . . |  | 26. 110, 53.5 | 28, 585, 363 | 31, 781, 453 | 33, 821, 164 | 33, 234, 771 | 32, 470, 992 | $30,068,506$ | $30,019,781$ | 31, 820,776 | 38, 505, 268 | 45, 578.801 |
| 14. A rarage of strekholders' investment, |  | 2S, 918,535 | 28, 585, 363 | 30, 156, 453 | 31, 096. 164 | 31, 309, 771 | 30, 914, 484 | 28, 965, 860 | 29, 551, 431 | 31, 675, 654 | 35, 762, 637 | 40, 425, 603 |
| 15. Average of common stnckholders' equits. |  | 14, 418, 535 | 18, 085, 363 | 19, 656, 453 | 20, 596, 164 | 20, 809, 771 | 20, 414, 484 | 18, 465, 860 | 19, 051, 431 | 21, 175, 654 | 25, 275, 637 | 29, 950, 60.3 |
| Net income before deduating Federal in $\circ$ me and profits taxes: |  | 14, 18, 335 | 18,085, 363 | 1, 650,45 | 20,50, 1 | 2, 30,771 | 20,412, | 18, |  |  |  |  |
| 15. ${ }^{\text {a }}$ prilicable to total investment.- |  | 9, 634, 992 | 7, 286, 564 | 3,015, 598 | 2, 700, 604 | 1,968, 833 | 667, 081 | 2, 293, 643 | 1,824, 704 | 1, 161, 729 | 3, 290, 507 | 2, 579, 033 |
| 17. Applicable to stockholders' in- |  | 9, 634,992 | 7, 286, 5 | 3, 015, 5 | 2, 566, 149 | 1,865,708 | 591, 456 | 2, 245, 518 | 1, 804, 079 | 1,161,729 | 2,966, 015 | 2, 243, 557 |
| 18. Applicable to common stock- |  | 8, 899, 992 | 6, 551, 56 | 2,280, 5 | 1,831, 149 | 1,130,708 | 2 143,544 | ,510,518 | 1,069, 079 | 426, 629 | 2,232,756 | 1,510,307 |
| Rate of return ou total investment $(16 \div 13)$ |  |  |  |  | 7.9 | 5.92 | 2. 05 | 7.63 | 6. 08 | 3.65 | 55 | 5. 66 |
| Rate of roturn on stockholders' Inve |  |  |  |  |  |  |  |  |  | 3.67 |  | 5. 55 |
| Rale of future on common stockholders ${ }^{\text {r }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| equity ( $18 \div 15$ ) .-...---. .- -perce |  | 61.73 | 36. 23 | 11.60, | 8.89 | 5. 43 | '. 70 | 8. 18 | 5. 16 | 2.02 | 8.83 | 5.04 |


|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. ${ }_{\text {1. }}$ Preferr | $\begin{array}{r} \$ 10,475,000 \\ 25,350,000 \end{array}$ | \$10, 475, 000 | $\$ 10,475,000$ $25,350,000$ | $\begin{array}{r} \$ 10,475,000 \\ 25,350,000 \end{array}$ | $\begin{array}{\|} \$ 10,475,000 \\ 25,350,000 \end{array}$ | $\begin{aligned} & \$ 10,475,000 \\ & 25,350,000 \end{aligned}$ | $\begin{array}{r} \$ 10,475,000 \\ 25,350,000 \end{array}$ | $\begin{aligned} & \$ 10,475,000 \\ & 25,350,000 \end{aligned}$ | $\begin{array}{r} \$ 10,475,000 \\ 25,350,000 \end{array}$ | $\left\|\begin{array}{r} \$ 10,475,000 \\ 3,549,000 \end{array}\right\|$ | $\begin{array}{r} \$ 12,656,720 \\ 3,691,630 \end{array}$ |  |
| Total | 35, 825,000 | 35, 825,000 | 35, 825,000 | 35, 825,000 | 35, 825, 000 | 35, 825,000 | 35, 823, 000 | 35, 825,000 | $35,825,000$ | 14, 024, 000 | 16, 348, 350 |  |
| 4. Surplus-earned and <br> 5. Contingency reserves | 9, 927, 569 | 12, 829, 781 | 12, 258, 461 | 9, 522, 636 | 7,064, 731 | 4,961,600 | 3, 618, 785 | 1, 912, 759 | 688, 479 | 17, 620, 137 | $\begin{array}{r} 15,422,807 \\ 96,500 \end{array}$ |  |
| 6. Reserves for Federal income and profits taxes | 487, 960 | 553,627 | 268, 756 | 317,395 | 258, 308 | 257, 808 | 124, 412 | 150,000 | 150, 000 | 150, 000 |  |  |
| 7. Less: Capital stock and surplus..... Goodwill, appreciation, and other intangibles. | $\begin{array}{r} 46,240,529 \\ 5,007,662 \end{array}$ | $\begin{array}{r} 49,208,408 \\ 5,007,662 \end{array}$ | $\begin{array}{r} \hline 48,350,217 \\ 5,007,662 \end{array}$ | $\begin{array}{r} 45,665,031 \\ 5,007,662 \end{array}$ | $\begin{array}{r} 43,148,039 \\ 5,007,662 \end{array}$ | $\begin{array}{r} 41,044,408 \\ 5,007,662 \end{array}$ | $\begin{array}{r} 39,568,197 \\ 5,007,662 \end{array}$ | $\begin{array}{r} 37,887,759 \\ 5,007,662 \end{array}$ | $\begin{array}{r} 36,673,479 \\ 117,000 \end{array}$ | $\begin{array}{r} 31,794,137 \\ 117,000 \end{array}$ | $31,867,657$ 117,000 |  |
| 10. Minority stockholders' Inverstment_..... subsidiaries | 41, 232, 367 | 44, 200, 746 | 43, 342, 555 | 40, 657, 369 | 38, 140, 377 | 36,036, 746 | $34,560,535$ 4,450 | $32,880,097$ 3,288 | 36, 556, 479 | 31, 677, 137 | 31, 750, 657 |  |
| 11. Long term deb | 10, 437, 171 | 9, 724, 446 | 9, 464, 010 | 8, 977, 308 | 8,545, 870 | 8, 116.938 | 7,629, 938 | 6, 956, 119 | 6, 235, 480 | 5, 786, 314 | 5, 303, 818 |  |
| 12. Total investment_ | 51, 670, 038 | 53, 925, 192 | $52,806,565$ |  |  | 44, 153,684 |  |  |  |  | $37,054,475$ |  |
| 13. A verage of total investment.-- | 48,708, 516 | 52, 797, 615 | $53,305,878$ | $51,220,616$ | $48,160,462$ | 45, 419,965 | $43,174,304$ | $41,017,213$ | $\begin{aligned} & 41,316,034 \\ & 34,718,288 \end{aligned}$ | $\begin{aligned} & 40,128,008 \\ & 34 \end{aligned}$ | $37,258,963$ | $\begin{array}{ll} 39,298,408 \\ 34 \end{array}$ |
| 15. Average of common stockholders' equity | ,41, 031, 454 | 42, 716, 806 | 43, 771,650 | 41, 999, 062 | 39, 398, 873 | 37, 088, 561 | 35, 298, 641 | 33, 720, 316 | 34, 718, 288 | 34, 116, 808 | $31,713,897$ | $34,497,146$ |
| Net income before deducting Federal income and profits taxes: | $30,556,454$ | 32, 241, 806 | $33,296,650$ |  |  | 26, 613, 561 | 24, 823, 641 | $73,245,316$ | 24 | 23, 641, 808 |  |  |
| 16. Applicable to total investment...- | 1,886, 895 | 5, 770, 713 | 2, 616, 044 | 2 1,069, 855 | 2 1, 860, 163 | ${ }^{2} 1,768,708$ | ${ }^{2} 793,063$ | ${ }^{\text {2 } 1,167, ~} 255$ | 205, 547 | 2, 077, 930 | 211, 229 | 1,933, 327 |
| vestment .......................- | 1,510, 057 | 5, 173, 284 | 1,930, 219 | 2 1, 713, 726 | ${ }^{2} 2,501,081$ | ${ }^{2} 2,339,401$ | 2 1,330,390 | 2 $1,675,353$ | ${ }^{2} 265,360$ | 1,629,965 | ${ }^{2} 183,988$ | 1,618,890 |
| 18. Applicable to common stockholders' equity | 776, 807 | 4, 440, 034 | 1; 106, 269 | 2 2, 446, 976 | 2 3, 234, 331 | : 3, 072, 651 | 2 2, 063, 640 | ${ }^{1} 2,408,603$ | 2 9988610 | 896, 715 | 2928, 147 | 884, 429 |
| Rate of return on total investment $(16 \div 13)$ $\qquad$ percent | . 87 | 10,93 | 4.90 | 2, | 23.86 | ,072, | , |  | 0. 50 | 5.18 | 0.57 | 4.92 |
| Rate of return on stockholders' investment ( $17 \div 14$ ) $\qquad$ percent | 3.68 | 12. | 4. | 0 | 6.35 | 6.3 | 3. 77 | 2 | . 7 | 4.73 | . 58 | 4.6 |
| Rate of return on common stockholders' equity (18 $\div 15$ ).........................ercent. | 2. | $13.7$ | 3.59 | $6$ | :11.18 | 211.55 | 28.31 | : 10.36 | 12 | 3. 79 | 39 | 3.68 |

Less unsmortized debt discount and expense.
Denotes loss.
Table 21a.-Summary of income, expenses, and surplus for Pittsburgh Steel Co. and subsidiaries, 1917-38

|  | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| st sale | \$33, 066,083 | \$37, 930, 842 | \$31, 265, 012 | \$27,483, 107 | \$22,978,788 | \$15, 656,960 | \$28, 833, 133 | \$23, 641,998 | \$22, 936,965 | \$33,899, 524 | \$31,085, 326 | \$28, 316, 882 |
| Cost of goods sold <br> Distribution and administrative ex penses <br> Provision for depreciation and depletion |  | $\begin{array}{r} 28,394,591 \\ 974,087 \\ 1,365,134 \\ \hline \end{array}$ | $25,980,340$ <br> 1, 054, 464 <br> 1, 275, 434 | 22, 780, 463 771,999 1,126,306 | $\left\lvert\, \begin{array}{r} 19,137,749 \\ 1,243,154 \\ 985,889 \end{array}\right.$ | $\begin{array}{r} 13,535,267 \\ 1,253,406 \\ 866,330 \end{array}$ | $\left\{\begin{array}{r} 24,121,326 \\ 1,301,569 \\ 1,427,092 \end{array}\right.$ |  | $\begin{array}{r} 19,196,607 \\ 1,781,772 \\ 887,693 \\ \hline \end{array}$ | $\begin{array}{\|r\|} \hline 27,070,484 \\ 2,283,018 \\ 1,406,899 \\ \hline \end{array}$ | $\begin{array}{r\|r} 24,358,363 \\ 2,594,440 \\ 1,586,728 \\ \hline \end{array}$ | 21, 900, 905 <br> 2;766;029 <br> 1,611,159 |
| Total operating expenses | 23,452, 145 | 30, 733, 812 | 28, 310, 238 | 24,678,768 | 21, 366, 792 | 15,655,003 | 26.849, 987 | 22, 219, 877 | 21,866, 072 | 30.760, 40, | 78, 539, 531 | 26,368,093 |
| Net income from operations. Other income (net) | $\begin{gathered} 9,613,938 \\ 21,054 \end{gathered}$ | $\begin{array}{r} 7.197,030 \\ 89,534 \end{array}$ | $\begin{array}{r} 2,954,774 \\ 60,824 \end{array}$ | $\begin{array}{\|l\|} \hline, 804,339 \\ 103,735 \\ \hline \end{array}$ | $\begin{array}{r} 1,611,996 \\ 356,837 \\ \hline \end{array}$ | $\begin{array}{r} 1,957 \\ 665,124 \\ \hline \end{array}$ | $\begin{array}{r} 1,983.146 \\ 310,497 \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 1,422,121 \\ 402,583 \\ \hline \end{array}$ | $\begin{array}{r} 1,070,893 \\ 90,836 \\ \hline \end{array}$ | $\begin{array}{r} 3,139,123 \\ 151,384 \\ \hline \end{array}$ | $\begin{array}{r} 2,545,795 \\ 33,238 \\ \hline \end{array}$ | $\begin{aligned} & 1,948,789 \\ & 1.61 .894 \\ & \hline \end{aligned}$ |
| Net income applicable to total investment Less interest on long-term debt... | 9,634, 992 | 7,286,564 | 3,015, 598 | $\begin{array}{r} 2,700,604 \\ \\ 134,455 \end{array}$ | $\begin{array}{r} 1,968,833 \\ \\ 103,125 \end{array}$ | $\begin{array}{r} 667,081 \\ 75,625 \end{array}$ | $\begin{array}{r} 2,293,643 \\ 48,125 \end{array}$ | $\begin{aligned} & 1,824,704 \\ & 20,625 \end{aligned}$ | 1,161, 729 | $\begin{array}{r} 3,290,507 \\ 324,492 \end{array}$ | $\begin{array}{r} 2,579,033 \\ 335,476 \end{array}$ | $\begin{array}{r} 1,886,895 \\ 376,838 \end{array}$ |
| Net income applicable to stock holders' investment <br> Provision for Federal income and profits and taxes. | $\begin{aligned} & 9,634,992 \\ & 1,823,548 \end{aligned}$ | $\begin{aligned} & 7,236,564 \\ & 2,730,121 \end{aligned}$ | $\begin{array}{r} 3,015,598 \\ 244,052 \end{array}$ | $\begin{array}{r} 2,566,149 \\ 604,690 \end{array}$ | $\begin{array}{r} 1,865,708 \\ 143,181 \end{array}$ | $\begin{array}{r} 591,456 \\ 1270,427 \end{array}$ | $\begin{array}{r} 2,245,518 \\ 223,045 \end{array}$ | $\begin{array}{r} 1,804,079 \\ 245,399 \end{array}$ | $\begin{array}{r} 1,161,729 \\ 108,974 \end{array}$ | $\begin{array}{r} 2,966,015 \\ 432,437 \end{array}$ | $\begin{array}{r} 2,243,557 \\ 291,599 \end{array}$ | $\begin{array}{r} 1,510,057 \\ 167,916 \end{array}$ |
| Net income for the yea Surpius beginning of the year | $\begin{aligned} & 7,811,444 \\ & 5.330,473 \end{aligned}$ | $\begin{array}{r} 4,556,443 \\ 10,496,917 \end{array}$ | $\begin{array}{r} 2,771,546 \\ 12,358,360 \end{array}$ | $\begin{array}{r} 1,961,459 \\ 13,484,906 \end{array}$ | $\begin{array}{r} 1,722,527 \\ 14,151,365 \\ \hline \end{array}$ | $\begin{array}{r} 861,883 \\ 7,298,892 \end{array}$ | $\begin{aligned} & 2,022,473 \\ & 6,865,775 \end{aligned}$ | $\begin{aligned} & 1,558,680 \\ & 7,593,248 \end{aligned}$ | $\begin{aligned} & 1,052,755 \\ & 8,529,135 \end{aligned}$ | $\begin{aligned} & 2,533,578 \\ & 8,146,890 \end{aligned}$ | $\begin{aligned} & 1,951,958 \\ & 8,901,583 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1,342,141 \\ & 9,588,625 \end{aligned}$ |
| Total.-................ | 13.191, 917 | 15, 053, 360 | 15.129,90 | 15, 446, 365 | 15,873, 892 | 8, 160,77 | 8, 888, 2 | 9, 151,928 | 9, 58, ,890 | 10,680,468 | 10,853.541 | 10,930, 766 |
| Less dividends paid onCommon stock in cash Preferred stock in cas Common stock in stock | $\begin{array}{r}1,960,000 \\ \hline 735,000\end{array}$ | $\begin{array}{r}1,960,000 \\ \hline 735,000\end{array}$ | 910,000 735000 | 560,000 7350000 | $\begin{array}{r} 840,000 \\ 7,000,000 \\ 735.000 \end{array}$ |  |  | 804,994 $3,500,000$ 735,000 | 700,000 735000 | 935,48 $7 \times 33,2$ |  |  |
|  | 2,695,000 | 2,695,000 | 1,645, 000 | 1,295,000 | 8, 575,000 | 1, 295, 000 | 1,295, 000 | 5, 039,994 | 1,435,000 | 1,668,741 | 1, 240 | 33, 250 |
| Other net additions or deductions: Revaluation of real estate, plant. mineral and manufacturing properties and equipment |  |  |  |  |  |  |  | 4, 417, 201 |  |  | ${ }^{2} 24,666$ | 299.253 |
| Acquisition of assets and securitios of other companies. |  |  |  |  |  |  |  |  |  | ${ }^{2} 195,740$ |  |  |
| Conversion, repurchase, or sale of own securities |  |  |  |  |  |  |  |  |  |  |  | ${ }^{2} 170,694$ |
| Other net additions or deductions.. |  |  |  |  |  |  |  |  |  | 85, 596 |  |  |
| Surplus end of the year | 10.496, 917 | 12, 358, 860 | 13, 484, 906 | 14, 151, 365 | 7, 298, 892 | 6,865,775 | 7, 593, 248 | 8, 529, 135 | 8. 146,800 | 8, 001, 583 | 9, 588,625 | 9,927, 569 |


|  | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales. | \$39, 783, 398 | \$35, 482, 316 | \$21, 126, 185 | \$10, 661, 628 | \$8, 406, 645 | \$15, 361, 766 | \$12, 895, 937 | \$21, 352, 326 | \$35, 359, 261 | \$23,677, 318 | \$561, 201, 400 |
| Cost of goods sold | 29,771, 970 | 28,561, 449 | 18, 769, 334 | 9, 592, 874 | 7,640, 065 | 13, 567, 483 | 11, 443, 947 | 18, 322, 253 | 29, 879, 997 | 20, 032, 761 | 454, 187, 107 |
| Distribution and administrative expen | 2, 619, 133 | 2, 870, 275 | 2, 355, 605 | 1,999, 899 | 1, 484, 740 | 1, 541, 071 | 1, 515, 733 | 1, 738, 730 | 2, 241, 303 | 2, 203, 525 | 39, 385, 797 |
| Provision for depreciation and depletion | 1,791, 750 | 1, 786, 464 | 1,318, 134 | 1,167, 093 | 1, 222, 510 | 1, 178, 882 | 1,235, 267 | 1,272, 187 | 1,313, 308 | 1,414, 808 | 29,083, 355 |
| Total operating exp | 34, 182, 853 | 33, 221, 188 | 22, 443, 073 | 12,759, 866 | 10, 347, 315 | 16, 287, 436 | 14,194,947 | 21, 333, 160 | 33, 434, 608 | 23,651, 094 | 522, 656, 259 |
| Net income from operatio | 5,600,545 | 2, 261, 128 | 1 1, 316, 888 | 1 2, 098, 238 | 1 1, 940,670 | 1925,670 | 11,299, 010 | 19, 166 | 1,924, 653 | 26,224 | 38, 545, 141 |
| Other income (net) | 170,168 | 355, 516 | 247, 033 | .238, 075 | 171,962 | 132,607 | 131, 755 | 186, 381 | 153, 277 | 185, 005 | 3,988, 061 |
| Net income applicable to total investmen | 5, 770, 713 | 2, 616, 644 | $11,069,855$ | ${ }^{1} 1,860,163$ | 1 1,768, 708 | 1793,063 | 1 1, 167, 255 | 205,547 | 2, 077,930 | 211, 229 | 42, 533, 202 |
| Less intcrest on long-term debt | 597, 429 | 636, 425 | 643, 871 | 640,918 | 570,693 | 537, 327 | 508, 098 | 470,907 | 447, 965 | 395, 217 | 6,917,611 |
| Net income applicable to stockholders' investment | 5, 173,284 | 1,930, 219 | 1 1, 713, 726 | 12, 301, 081 | 12,339, 401 | 1 1, 330, 390 | 1 1, 675, 353 | ${ }^{1} 256,360$ | 1, 629, 965 | 1813,988 | 35,615, 591 |
| Net income for | 4, 535, 437 | 1,689, 692 | 11, 713, 726 | $12,501,081$ | 339, 401 | 330, 390 | 675,353 | 1265,360 | 391, 665 |  |  |
| Surplus beginning of the year | 9, 927, 569 | 12, 829, 781 | 12, 258, 461 | 9,522, 636 | 7,064, 731 | 4,961, 600 | 3, 618, 785 | 1,912,.759 | 698, 479 | 17, 620, 137 |  |
| Tota | 14, 463, 006 | 14, 519, 473 | 10, 544, 735 | 7,021, 555 | 4, 725, 330 | 3,631, 210 | 1,943, 432 | 1,647, 399 | 2,090, 144 | 17, 436, 149 |  |
| Less Dividend paid on- | 760 | 1,014,000 |  |  |  |  |  | - |  |  |  |
| Common stock in stock |  | 1,014,000 |  |  |  |  |  |  |  |  | 10,500,000 |
| Preferred stock in cash | 733, 250 | 733, 250 | 733, 250 |  |  |  |  |  |  |  | 11, 014, 500 |
| Total | 1, 493, 750 | 1, 747, 250 | 860,000 |  |  |  |  |  |  |  | 33, 713, 235 |
| Other net additions or deductions: |  |  |  |  |  |  |  | - |  |  |  |
| Revaluation of real estatc, plant, mineral and manufacturing properties and equipment | ${ }^{2} 93,430$ | ${ }^{2}$ 489,531 | ${ }^{2} \mathbf{1 5 5 , 5 5 6}$ | 85, 517 | ${ }^{2} 13,957$ | ${ }^{2} 61,178$ |  | ${ }^{2} 936,110$ | ${ }^{2} 7,226,423$ |  | ${ }^{2} 4,597,386$ |
| Acquisition of assets and sccurities of other companics |  |  |  |  |  |  |  |  |  |  | ${ }^{2} 195,740$ |
| Conversion, repurchase or sale of own securities. | 246,045 | 2 24, 231 | 2 6,543 | 109, 278 | 140,640 | 58,966 |  | 2 8,342 | 219,200 | 2 2,356, 522 | ${ }^{2} 2,322,693$ |
| Provision for additional tax liability for prior years |  |  |  |  |  | ${ }^{2} 111,146$ | ${ }^{2} 30,673$ |  |  |  | ${ }^{2} 141,819$ |
| Reductions of capital stock. |  |  |  |  |  |  |  |  | $22,815,000$ |  | 22, 815, 000 |
| Other net additions or deductio |  |  |  | ${ }^{1} 151,619$ | 109, 587 | 100, 933 |  | ${ }^{2} 4,468$ | ${ }^{\text {3 }} 39,384$ | 343, 180 | 443,825 |
| Surplus end of the year | 12, 829, 781 | 12, 258, 461 | 9, 522, 636 | 7,064, 731 | 4,961, 600 | 3, 618,785 | 1,912, 759 | 698, 479 | 17,620, 137 | 15, 422, 807 |  |

[^83]
## Part IV

INVESTMENTS, PROFITS, AND RATES OF RETURN FOR MANUFACTURERS OF FARM IMPLE-

MENTS AND MACHINES

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## INVESTMENTS, PROFITS, AND RATES OF RETURN FOR MANUFACTURERS OF FARM IMPLEMENTS AND MACHINES

## Introduction

This report deals with the financial aspects of manufacturers of farm implements and machincs. Information concerning investments, profits, and rates of return are presented for important companies in the industry for the years 1913 to 1937. inclusive. The information is presented with regard to the source of the material and extent of the industry represented, and summaries and comparisons of investments, profits, and rates of return are made for individual companies and groups of companies. Rates of return are presented for the entire period for all companies combined for whicn the information was available, and comparisons are made of the returns for the full-line or long-line companies individually and as a group, and for short-line companies as a group. Comparisons are also made of the investments, sales, and operating results of individual companies, and the degree of concentration of the business in the hands of a relatively few companies is indicated. Information concerning salaries and other compensation paid to officers of the principal corporations in the industry is presented for the years 1927 to 1936, inclusive. The development and operations of each of the long-line companies is discussed separately.

The ifull- or long-line companies are those who manufacture a variety of types and sizes of farm tillage implements, sceding and planting machines, cultivators, harvesting machines, farm hauling equipment, and farm power-developing machines. The short-line manufacturers are those who manufacture implements of one or more of these lines but not a complete line. The long-line companies include International Harvester Co., Deere \& Co., J. I. Case Co., Allis-Chalmers Manufacturing Co., Oliver Farm Equipment Co., Minneapolis-Moline Power Implement Cc., Massey-Harris Co., Inc., and B. F. Avery \& Sons Co. These companies do the bulk of the farm-machinery business in this country. Of these, International Harvester Co. is by far the most important. From the standpoint of capital invested and volume of sales, it dominates the industry. The operations of this company and its closest competitor, Deere \& Co., have been highly profitable and their rates of return on investment were generally much higher than for other companies.

Reference is made to the report of the Federal Trade Commission on the agricultural implement and machinery industry in which statements ${ }^{1}$ are made to the effect that International Harvester Co. and Deere \& Co. have established the price levels for the great majority of agricultural implements and machinery; and that the exchange of price lists among farm-machinery manufacturers, evidence of dealer coercion, and the continued dominant position of International Harvester Co. since its organization in 1902 together with the typical monopoistic behavior of its business operations during the depression when there was only a relatively slight percentage of decline in its farm-machinery prices but a sharp percentage decline in its volume of production and employment as contrasted with the behavior of industries known to be competitive where the percentage in the decline of prices was greatest and the declines in the volume of production and employment, were less in the opinion of the Commission, and the raising of its farmmachinery prices in 1938 over those of 1937 in the face of profitable earnings in the latter year, indicate the existence of a scrious monopolistic condition in the farm-machinery industry.

## Source of Information

The financial data, which are the basis for the discussion of investments, profits, and rates of return, were obtained for the more important farm-machinery manufacturers from various sources. Such information was obtained for the most important companies for each of the years 1913 to 1937, inclusive, and for a varying number of years during this period for the other companies.

[^84]The source of the information from 1913 to 1918, inclusive, was a report of the Federal Tradc Commission on the causes of high prices of farm implements, while the source of data from 1927 to 1936; inclusive, was another report of the Federal Trade Commission on the agricultural implement and machinery industry. For the intervening period from 1919 to 1926, inclusive, and for the year 1937 the information was assembled from reports submitted by the companies 11 answer to a questionnaire, or from published reports. For the reason that the financial data were obtained from several sources, there are varying numbers of manufacturers represented in the combined statistics. For instance, during the earlier period, there were 26 companies for which data were assembled, and during the period from 1919 to 1926 the number varied from 16 to 20 companies, while for the period from 1927 to 1936, inclusive, the number varied from 59 to 72 companies. During the year 1937 data were obtained for only 17 companies.

While it may appear that the number of companies for which data are assembled is small nevertheless the proportion of the industry covered is very large because the most important companies are included in the combined statistics. Census reports issued as early as 1849 showed that 1,333 establishments manufactured agricultural implements. The total number of establishments decreased steadily, reaching a low of 170 ini1933.

While-there are considerably pore companies listed by the census as farmmachinery manufacturers than are included in this report, the total volume of business of those companies not included was relatively small. The farmmachinery manufacturers for which information is presented herein represent a substantial proportion of the industry. This is indicated by the fact that during 1914 the companies covered accounted for 93 percent of the total value of farm machinery produced. In 1936 the sales of the companies covered represented over 95 percent of the total domestic and export sales of farm machinery as reported to the Census.

## Rates of Return for all Companies Combined

The investments and profits of the farm-machinery manufacturers are correlated and expressed in rates of return based upon the actual investment after deducting all appreciation, goodwill, and other intangibles insofar as could be determined.

Table 1 which follows, summarizes the investments, profits, and rates of return for each of the years 1913 to 1927, inclusive, for all companies combined for wbich the information was available. Rates of return have been computed on the basis of the stockholder's investment and the total investment.

The stockholder's investment consists of the capital stocks outstanding, surplus, surplus reserves, and reserves for Federal income and profits taxes. The total investment includes the stockholder's investment plus borrowed funds. The investments were averaged at the beginning and end of each year, except for borrowed funds, other than long-torm debt, which generally were averaged monthly.

The profits used in computing rates of return on the stockholder's.investment represent the net income from all sources after deducting all costs and expense of doing business, but before deducting provisions for Federal income and profits taxes. The net income, before deducting interest on borrowed funds and provisions for Federal income and profits taxes, was used in computing rates of return on the total investment.

Table 1.-Summary of investments, profits, and rates of return on the stockholders' investment and the total investment for all farm-machinery manufacturers for which the information was available, 1913-97

| Year | Numberof companies | A verage investment ${ }^{\text {a }}$ |  | Net profts ${ }_{\text {to }}$ applicable |  | $\begin{aligned} & \text { Rates of return } \\ & \text { on- } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock- | Total | Stockholders' invest ment | Total investmen | Stock- holders bolders ment | Total ment |
| 1913 | 262626262626221616181819191919205963677979 |  | \$367, 546, | \$28.8120 | \$34,700, 776 | Percent | ${ }_{\text {Percent }}^{\text {9.44 }}$ |
| 1914 |  |  | 402, 529,421 | 18, 349, 227 | 24, 799, 691 | 6.01 |  |
| 1915 |  |  | 408, 319,226 | 22,050, 849 | 28, 849, 980 | 7.12 |  |
| 1916. |  |  | 392, 817,068 | 56, 027,757 | 58,790, 787 | 16. 47 | 9. 9.67 |
| 1918 |  |  | 407, 6777, 335 | 68, 101,587 | 71, 625,663 | 18.47 | 17.57 |
| 1919 |  |  | 372, 777, 929 | 39, 449, 053 | 39, 962, 117 | 10.75 | 10.72 |
| 1920 |  |  | $380,082,840$ $378,262,881$ | - $40,885.449$ | $41,350,001$ 3 38888 | 10.92 | 10. 88 |
| 1922 |  |  | 359, 465,699 | ${ }_{3} 2,680,772$ | ${ }^{3} 1$ 1,408, 985 | ${ }_{3} .78$ | 3. 39 |
| 1923 |  |  | 348, 945 , 831 | 16, 977,361 | 18, 301,787 | 5. 09 | 5. 24 |
| 1924 |  |  | 347, 887, 932 | 21, 146, 343 | 22, 283, 874 | 6. 34 | 6. 41 |
| ${ }_{1926}^{1925}$ |  |  | - $\begin{aligned} & 354,667,518 \\ & 373,618,801\end{aligned}$ | 43,058,000 | 43,430, 311 $56,864,965$ | 12.48 | ${ }_{15}^{12.25}$ |
| 1927 |  |  | 530, 254, 755 | 74, 500, 659 | 76. 235, 383 | 14.94 | 14.38 |
| 1928 |  |  | ${ }_{732}^{579,687}{ }^{28,078}$ |  | 98,490, 343 | 17.82 | 16.99 |
| 1930 |  |  | 732, 80788,183 783 | -63,681, 402 | 68, 445 , 232 | 8.94 | 8. 52 |
| 1931 |  |  | 766, 975, 973 | ${ }^{3} 4,4,268,155$ | ${ }^{3}$ 3134, 894 | ${ }^{3} .62$ | ${ }^{3} .02$ |
| 1832 |  |  | 703, 469, 977 | 335, 387, 302 | 31, 821, 610 | 3.5. 57 | 4. 52 |
| 1933 |  |  | 647, 705, 672 | 314, 346,551 | 11, 655, 712 | 2.42 | 80 |
| 1935 |  |  | -622, ${ }^{629}$,72, 166 | 87, 297 , 098 | 68, 896, 288 | 31.30 | 10.77 |
| 1936 |  |  | 691, 367, 317 | 496, 692, 480 | ${ }_{\text {4 }}^{4} 498,143,887$ | :114.98 | 114.20 |
|  |  |  | 620, 352, 685 | ${ }^{892}$, 957, 763 | 893, 870, 038 | ${ }^{6} 15.77$ | ${ }^{6} 15.13$ |

[^85]The table shows that the number of companies whose financial data were combined to obtain the rates of return for the years 1913 to 1937, inclusive, varied from 16 to 72. However, it should be noted that the more important companies were included for the full period, or for each of the years for which they were in operation. For instance, International Harvester Co. and Deere \& Co. were in operation for the entire period, and the data for these companies are included for each year. Some of the companies for which information was obtained for the earlier years discontinued operations or were consolidated or merged with other companies whose data are presented for the later pericd. Also, other companies began operations during the period, and data are presented for those companies for the period for which they were available.

The table shows that the rates of return on both bases of investment fluctuated widely throughout the 25 -year period. For example, the rate of return on the total investment for all companies combined was 9.44 percent in 1913. It was less in 1914 and 1915, and during the years 1916-18, increased to 17.57 percent, the highest rate of return for any year throughout the period. The years 1921 and 1922 and the years 1931, 1932, and 1933 were unprofitable. Profits ranging from 12.25 percent to 16.99 percent were earned during the years $1925-28$, and during the years 1935, 1936, and 1937 rates of return of 10.77 percent, 14.20 percent, and 15.13 percent, respectively, were earned on the total investment.

It will be noted that the rates of return on the stockholder's investment were only slightly higher for most years than the years of return on the total investment. This is accounted for by the fact that the differences between the amounts of stockholders' investment and total investment were relatively small in each year. Most of the capital of the farm-machinery manufacturers was obtained from the issuance of stock and from the reinvestment of earnings. For example, it was found that during the years 1927 to 1936, inclusive, borrowed funds accounted for only from 5.55 percent to 10.98 percent of the total investment.

## Comparison of Rates of Return for Long-Line Companies and ShortLine Companies

Daring the period under review, the bulk of the farm-machinery business has been in the hands of a few companies. In terms of capital invested and volume of sales these companies have dominated the industry. This concentration has come about and continues to increase largely as the result of consolidations of competing concerns to form larger units such as International Harvester Co., Minneapolis-Moline Power Implement Co. and Oliver Farm Equipment Co.; and of the acquisition of independents by International Harvester Co., Deere \& Co., Allis-Chalmers Manufacturing Co., and J. I. Case Co. These companies, together with B. F. Avery \& Sons Co. and the Massey-Harris Co., comprise the long-line manufacturers of farm implements and machines.

The full-line or long-line manufacturers are those who manufacture farm tillage implements, seeding and planting machines, farm hauling equipment, and farm power developing machines of various types and sizes. The short-line companies are those who manufacture implements of one or more of these lines, but not a complete line.

The influence of the long-line companies in the summary of investments, profits, and rates of return in the preceding table for all companies combined is indicated by the fact that during the years 1913-18 their combined investments, or those of their predecessor companies, averaged 85.13 percent of the total for all companies; for the years 1919-26 their investments averaged 98.29 percent of the total; or the years 1927-36 their investments averaged 87.02 percent of the total; and for the year 1937 their combined investments averaged 98.15 percent of the total. If the investment of one large company, namely, Caterpillar Tractor Co., is eliminated from the comparison for the years 1927-36 for the reason that much of its investment is devoted to the manufacture of products other than those for agricultural purpuses, the combined investments of the long-line companies would average 92.09 percent of the total for all companies, excluding this company.

The following table 2 compares the annual rates of return for the principal longline companies combined and for the short-tine companies combined for the years 1913 to 1937 , inclusive.

Table 2.-Comparison of rates of return on total investment for the principal longline farm-machinery manufacturers, and for all other ${ }^{1}$ short-line farm-machinery manufacturers, 1919-s7


1 All other short-line farm-machincry manufacturers included all companies for which data were available other than those companies included as long-line manufacturers and other than Caterpillar Tractor Co., 1927-36, Inclusive, which is included in the total but is not included either as a short-line or long-line manufacturer for the reason that its size and type of products manufactured-distortcd the figures for the individual classes of farm-machinery manufacturers.

2 The principal long-line manufacturers included are, as follows International Hlarvester Co., 1913-37; Theere \& Co., 1913-37, Emerson-Brantingham Co., 1913-26; Moline Pıw Co., 191318; Allis-C'halmers Manufacturing Co., 1913-37; J. 1. Case Co., 1919-37; Oliver Farm Equipment Co., 1929-37; MinneapolisMoline Power Implement Co., 1929-37; the Massey-Harris Co., 192i-36; and B. F. A very \& Sons Co., 1913-36.

3 Loss.

- For 1 company, namely, International Harvester Co., the profits were based on 11-months operations.
- For 2 companies, J. I. Case Co. and Oliver Farm Equipment Co., the profits were from $10-\mathrm{month}$ operations.
- lncludes Ncw Idea. Inc., which har a rate of rcturn of 30.49 percent whlle all other short-line companies exmept New Idea, lac., had a rate of return of 11.15 percent.

Table 2 shows that for the entire period from 1913 to 1937, inclusive, the annual average rate of return on the total investment for the long-line manufacturers combined was 7.69 percent as compared with 4.57 percent for the short-line manufacturers combined. For the years 1913-18, the rates of return averaged 11.18 percent for the long-line companies as compared with 8.17 percent for the shortline companies. For the years 1919-26, the snnual returns were less, averaging 7.77 percent for the long-line companies and 4.61 percent for the short-line companies. For the years $1927-36$, the returns averaged 7.40 percent for the long-line companies and 1.78 percent for the short-line companies. For the year 1937 the returns averaged 15.10 percent for the long-line companies and 16.73 percent for the short-line companies. The rate of return for the short-line manufacturers is materially influenced during this year by the profits of one company, namely, New Idea, Inc., which had investments of $\$ 3,304,053$ and profits of $\$ 1,007,269$, resulting in a rate of return of 30.49 percent for the year 1937. Thus, excluding New Idea, the other 10 short-line manufacturers combined, with investments of $\$ 8,144,673$ and profits of $\$ 908,502$ and a rate of return of only 11.15 percent, which was less than the average rate of return for the long-line companies.

It will be noted that the average rates of return for all companies combined were higher for the entire period and for the years 1927-36 than the average returns for either of the groups of long-line or short-line companies. This is accounted for by the inclusion in the combined figures for all companies of the investments and profits of Caterpillar Tractor Co. which were not used in computing the rates of return tor each group separately. Much of this company's business is devoted to the manufacture and sale of road machinery and industrial tractors. Therefore, to have included the data for this company with either group would have distorted the comparisons. This company's operations were highly profitable, averagmg 18 percent on an average total investment of \$37,538,882 for the years 1927-36.

For \& number of these companies, including Caterpillar Tractor Co., AllisChalmers Manufacturing Co. and others, the manufacturing business other than the farm-machinery business could not be segregated as to investments and profits for the purpose of showing rates of return on the farm-machinery business only. However, for a number of companies the investments, profits, and rates of return applicable to the farm-machinery business are available. The following tabulation shows a comparison of rates of return on the total investment in the farm-machinery business for long-line and short-line manufacturers for the years 1927 to 1936 , inclusive. It will be noted that the rates of return for all companies were slightly higher on the farm-machinery business than on the total investment.

Comparison of rates of return on the investment in the farm-machinery business for long-line and short-line companies with the returns for both classes of companies combined 1927-36

| Year | Long-line companies |  | Short-line companies |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of companies | Rate of return | Number of companies | Rate of return | Number of companies | Rate of return |
| 1927 | 5 | Percent 16.12 | 47 | Percent 3.58 | 52 | Percent 14.98 |
| 1928. | 5 | 20.03 | 50 | 7.41 | 55 | 18. 90 |
| 1929 | 7 | 18. 41 | 52 | 5. 35 | 59 | 17.52 |
| 1930. | 7 | 9.14 | 54 | 1.37 | 61 | 8.52 |
| 1931 | 7 | . 40 | 55 | 16.28 | 62 | 1.09 |
| 1932 | 7 | 15.71 | 56 | 110.68 | 63 | 16.07 |
| 1933 | 7 | 13.06 | 56 | 14.18 | 63 | 13.14 |
| 1934 | 7 | 3.43 | 57 | 1.79 | 64 | 3.31 |
| -1835 | 7 | 12. 31 | 56 | 6.01 | 63 | 11. 90 |
| 1936. | 7 | 15.62 | 55 | 8.57 | 62 | 15.25 |
| A verage. |  | 8.50 |  | . 91 |  | 7.98 |

[^86]This comparison of rates of returns for long-line and short-line companies indicates that from the farm-machinery business only, the long-line companies were much more profitable than the short-line companies. For the 10 -year period the rates of return on the farm-machinery business for the long-line companies averaged annually 8.5 percent as compared with less than 1 percent for the shortline companies.

## Comparison of Rates of Return of Principal Long-Line Companies

It has been explained that the investments of the long-line companies as a group averaged 85.13 percent of the total for all companies during the years 1913-18, 93.29 percent of the total for the years 1919-26, 92.09 percent for the years 192736, excluding Caterpillar Tractor Co., and 98.15 percent for the ycar 1937. The following tabulation indicates the relative importance of each of the long-line companies from the standpoint of size of investments.

Comparison of ratios of total investments for the principal long-line manufacturers to the combined total investments ${ }^{1}$ for various periods from 1913 to 1937, inclusive

${ }^{1}$ For all companies for which the information was available, except Caterpillar Tractor Co.
2 Moline Plow Co., 1913-18.
It has been shown that the long-line manufacturers as a group generally had higher rates of return than the short-line manufacturers. It is significant that of the long-line manufacturers, the two most important companies, namely, International Harvester Co. and Deere \& Co., whose operations extended throughout the period from 1913 to 1937, inclusive, had higher rates of return than any of the other long-line manufacturers. For instance, the rate of return on the total investment for International Harvester Co. averaged 9.62 percent and for Deere \& Co., 11.10 percent. These rates of return compare with 6.22 percent for Allis-Chalmers Manufacturing Co., 6.59 percent for J. I. Case Co., 2.63 percent for MinneapolisMoline Power Implement Co., and 4.26 percent for B. F. Avery \& Sons Co. For Oliver Farm Equipment Co. and the Massey-Harris Co., the losses exceeded the profits for the periods covered so that the average annual rates of loss on the total investment were 0.55 percent for Oliver Farm Equipment Co. and 5.54 percent for the Massey-Harris Co. Comparisons of the annual rates of return based on the total investment for each of the principal long-line farm-machinery manufacturers from 1913 to 1937, inclusive, are presented in the following table 3.
Table 3.-Comparison of rates of return on total investment for each of the principal long-line farm-machinery manufacturers, 1918-37

| Year | International Harvester Co. | $\begin{aligned} & \text { Deere \& } \\ & \text { Co. } \end{aligned}$ | AllisChalmers Manufacturing Co. | Co. <br> J. I. Case | Emerson-Brantingham Cor: poration ${ }^{1}$ | Ollver Farm Equipment Co. | Minneap-olis-Moline Power Implement Co. ${ }^{2}$ | The Mas-sey-Harris Co. | B. F. Avery \& Sons Co. | Long-line farm-mschinery manufacturers combined |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent | Percent |
| 1913 | 10.95 |  |  |  | 6.14 |  | 7.31 |  | 7.06 | 10.09 |
| 1915 | 8.8 | 7.41 |  |  | 1.27 |  | 3. 33 |  | 1.11 | 6. 62 |
| 1916 | 11.48 | 10.61 |  |  | 1.82 |  | 5.48 |  | 7.66 | 10.32 |
| 1917. | 17.15 | 15.94 |  |  | 5.07 |  | 9.42 |  | 13.98 | 15.72 |
| 1918. | 17.86 | 17.76 | - |  | 9.03 | ......... | 10.21 |  | 25.46 | 16.92 |
| Annual average | 12.34 | 10.89 |  |  | 3.73 |  | 6.65 |  | 11.30 | 11.18 |
| 1919. | 8.32 | 19. 25 |  | 12.64 | 6.77 |  |  |  | 21.55 | 10.43 |
| 1920. | 11.13 | 12. 21 |  | 13.29 | 4.95. |  |  |  | 18.67 | 11.14 |
| 1922. | 1.74 | ${ }^{1} 3.14$ |  | ${ }^{8} 2.07$ | 38.42 |  |  |  | - 3.24 | ${ }_{3} .61$ |
| 1923 | 6.85 | 4.79 |  | 2.42 | 89. 25 |  |  |  | ${ }^{12.65}$ | 5. 12 |
| 1924 | 8.62 | 4.99 |  | . 57 | 38.04 |  |  |  | 5.96 | 6. 47 |
| 1925 | 14.03 | 10.89 |  | 13.09 | ${ }^{3} 4.10$ |  |  |  | 4.14 | 12.56 |
| 1926 | 15.85 | 18.56 |  | 17.10 | ${ }^{3} 1.29$ |  |  |  | 6.40 | 15.61 |
| Annual average. | 8.74 | 7.70 |  | 7.43 | ${ }^{3} 1.83$ |  | --------.-- |  | 4.89 | 7.77 |
| 1927 | 14.41 | 21.80 | 8.63 | 17.16 |  |  |  | 0.71 | 6.26 | 14.55 |
| 1928. | 17.03 | - 25.80 | 9.39 | 17.46 |  |  |  | ${ }^{3} 2.05$ | 11.09 | 17.02 |
| 1929. | 17.20 | 28.93 | 12.12 | 9.20 |  | 7.25 | 8.93 | . 61 | 4.38 | 16. 23 |
| 1930 | 8.62 | 15.95 | 9.34 | 6.73 |  | 1.32 | 2.33 | ${ }^{8} 5.44$ | ${ }^{3} 11.70$ | 8. 26 |
| 1932 | . 05 | . 74 | 3.98 | 17 |  | 04 | ${ }^{8} 6.51$ | ${ }^{3} 5.20$ | ${ }^{8} 19.23$ | . 01 |
| 1933. | 2. 31 | J.07 | ${ }^{3} 3.97$ | ${ }^{2} 4.88$ |  | ${ }^{3} 7.04$ | ${ }^{3} 11.19$ | ${ }^{3} 10.70$ | ${ }^{\text {b }}$ 5. 28 | ${ }^{3} 4.28$ |
| 1934. | 6.01 | 1.72 | 8.46 | 3.52 |  | 38.68 | 37.59 | 811.96 | 7.14 | 3. 11 |
| 1935 | 12.40 | 14.68 | 6.06 | 7.02 |  | 32.50 | 3.14 | 811.56 | 8.17 | 10. 54 |
| 1936 | 113.34 | 22.66 | 11.01 | 9.35 |  | 5.81 | 5.12 | ${ }^{3} 2.75$ | 14.79 | 13.56 |
| Annual average. | 8.76 | 11.51 | 5.05 | 5.40 |  | 1.54 | ${ }^{3} 2.00$ | ${ }^{3} 5.54$ | 1.11 | 7.40 |
| 1937 | 13.18 | 24.91 | 13.88 | ${ }^{8} 14.68$ |  | 14.62 | ${ }^{8} 16.98$ | -------.-- |  | 15.10 |
| Annual average. | 9.62 | 11.10 | 6.22 | 6.59 | . 65 | ${ }^{3} .55$ | 2.63 | 35.54 | 4.26 | 7.69 |

${ }^{1}$ Rates of return for J. I. Case Threshing Machinß Co., a predecessor company, 1919 to 1928, inclusive, and for Emerson-Brantingham Corporation consolidated with J. I . Case 2 2 Rates of return for Moline Plow Co., a predecessor company, 1913 to 1918, inciusive
3 Loss.
1 Based on net profit for 11 months. Based on net profit for 10 months.

## Comparisons of Sales and Operating Results

The concentration of the business in the hands of a few farm machinery manufacturers is further indicated by the volume of sales of the group of long-line companies as compared with the combined sales of all other companies for which the information is available. During the years 1913-18, the combined sales of all companies averaged $\$ 232,910,470$ per annum, and ranged from $\$ 184,150,089$ in 1915 to $\$ 326,636,666$ in 1918. During the years 1919-26, the annual average sales for all companies amounted to $\$ 255,535,094$. The sales decreased from $\$ 341,271,658$ in 1920 to $\$ 169,710,816$ in 1921, and increased thereafter to $\$ 33,301,-$ 277 in 1926. For the years $1927-36$, the total sales averaged $\$ 387,237,715$ annually. The greatest volume of sales during this period was for the year 1929 in the amount of $\$ 634,400,846$, decreasing thereafter to a low of $\$ 145,353,371$ in 1932 and increasing thereafter to $\$ 521,070,464$ in 1936. For the year 1937 the sales for all companies included in the sample amounted to $\$ 610,425,375$. During these periods information was available on the volume of sales for a maximum of 26 companies during 1913-18, 16 companies during 1919-26, 72 companies during 1927-36, and 17 companies during 1937.

During the years 1913-18, the sales of International Harvester Co. alone averaged 58.68 percent of the total sales for all companies for which the information was available. During the years 1919-26, this company's sales averaged 69.29 percent of the total, and for the years 1927-36, its total net sales averaged 57.86 percent of the total, excluding the sales of Caterpillar Tractor Co. for the reasons already given. In 1937 International's net sales amounted to 55.94 percent of the total sales for all companies included in the sample for that year.

However, it should be borne in mind that the net sales of International Harvester Co. included domestic and foreign sales of products manufactured in this country and abroad and large amounts for motortrucks which are used primarily for industrial purposes. The comparisons also include the net sales of products other than farm implements and machines for Allis-Chalmers Manufacturing Co. and for some of the larger short-line companies. The comparisons of sales, therefore, are not strictly confined to the farm-machinery business of the companies. Because of the multiplicity of operations in some of the companies, it was not possible to segregate definitely the farm-machinery operations from other operations for all years. However, a study was made of the sales of 63 companies for the year 1936 in order to determine as accurately as possible the sales applicable to the farm-machinery business only. The relative importance of the farmmachinery sales for each of the long-line companies is indicated in the following tabulation, which compares the sales of the long-line companies individually and as a group, and of the short-line companies as a group for the year 1936.

| Company | Net sales of farm machinery, 1936 | Percentage of sales of longline companies | Percentage of sales of long. line and shortline companies combined |
| :---: | :---: | :---: | :---: |
| Internationad Harvester Co. | \$124, 832, 407 | Percent ${ }_{44 .} 66$ | Percent $41.26$ |
| Deere \& $\mathrm{Co}^{\text {a }}$ | 64, 985, 395 | 23.25 | 21. 48 |
| J. I. Case Co | 21,905, 648 | 7.84 | 7.24 |
| Oliver Farm Equipment Co | 18, 171, 169 | 6. 50 | 6.01 |
| Allis-Chalmers Manufacturing Co. | 31, 440, 290 | 11. 25 | 10.39 |
| Minneapolis-Moline Power Impleme | 10, 419, 474 | 3. 73 | 3.44 |
| Massey-Harris Co. | 4, 955, 029 | 1.77 | 1.64 |
| B. F. Avery \& Sons Co. | 2, 797, 918 | 1.00 | . 92 |
| Total long-line companies | 279, 507, 330 |  | 92.38 |
| Total short-line companies | 23, 064, 579 |  | 7.62 |
| Total | 302, 571, 909 | 100.00 | 100.00 |

The figures for International Harvester Co. do not include its sales of motortrucks and binder twine, although these products are used on the farm; a considerable portion of its sales are for industriat use primarily. Since this company is the only one for which the figures are submitted who manufactures these products, its sales of motortrucks and binder twine were not included in order to afford a better comparison of the farm-machinery sales of all companies. If the sales of these products were included, International's sales would represent 56.43 percent of the total for the long-line companies and 52.99 percent of the total for all companies, instead of 44.66 and 41.26 percent, respectively, as shown in the tabulation. However, on either of the bases of comparison it is evident that International Harvester Co.'s sales predominate.

A further indication of the relative importance of International Harvester Co. and Deere \& Co. in the farm-machinery business is the proportion of various types of implements sold by each of these companies compared with the total sales for all companies for which the information is available. The following tabulation shows the percentages of sales of the more important farm implements and machines by International and Deere and all other companies for the years 1921 and 1936.

Percentages of the total number of representative farm implements and machines sold for use in the United States by International Harvester Co. and Deere \& Co. as compared with other manufacturers during 1921 and 1936

| Farm implement or machine | International Harvester Co. |  | Deere \& Co. |  | Other companies |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1921 | 1936 | 1921 | 1936 | 1921 | 1936 |
| Grain and rice binders | 73.2 | 56.5 | 13.5 | 31.7 | 13.3 | 11.8 |
| Combines (all widths) | 84.1 | 11.8 |  | 15.8 | 14.9 | 72.4 |
| Grain threshers (all sizes) | 4.6 | 20.4 |  | 10. 0 | 95. 4 | 69.6 |
| Mowers. | 62.4 | 53.4. | 14.3 | 21.8 | 23.3 | 24.8 |
| Rakes, sulky dump. | 51.2 | 50. 6 | 14.7 | 19.1 | 34.1 | 30.3 |
| Rakes, side delivery | 53.3 | 36.9 | 25.7 | 27. 4 | 21.0 | 35. 7 |
| Hay loaders | 43.9 | 38. 6 | 26.3 | 25.4 | 29.8 | 36.0 |
| Corn binders. | 70.1 | 64.6 | 17.3 | 24.5 | 12.6 | 10.9 |
| Corn pickers. | 97.5 | 24.3 |  | 21.1 | 2.5 | 54.6 |
| Corn huskers and shredders | 48,4 | 22.1 |  |  | 51.6 | 77.9 |
|  | 21.0 | 22.3 |  | . 6 | 79.0 | 77.1 |
| Walking plows, moldboard, 2 -horse and larger | 8.4 | 17.5 | 10.4 | 12.2 | 81.2 | 70.3 |
| Sulky plows, horse-drawn: | 13.0 | 22.3 | 12. 2 | 14.3 | 74.8 | 63.4 |
| Tractor plows, moldboar | 15.8 | 35.8 | 5. 3 | 25. 6 | 78.9 | 38.6 |
| Disk harrows. | 32.2 | 37.5 | 17.9 | 22.0 | 49.9 | 40.5 |
| Spike tooth harrows | 31.5 | 26.8 | 21.6 | 19.7 | 46.9 | 53.5 |
| Spring tooth harrows | 27.1 | 32.9 | 19.4 | 19.9 | 53.5 | 47.2 |
| Corn planters | 32.3 | 33.4 | 25.0 | 43.3 | 42.7 | 23.3 |
| Cultivators, rlding, 1-row, 2 -horse | 34.8 | 40.5 | 18.7 | 22.9 | 46.5 | 36.6 |
| Cultivators, riding, 2-row-horse-drawn | 23.1 | 22.5 | 27.1 | 12.8 | 49.8 | 64.7 |

The foregoing tabulation shows that International Harvester Co. and Deere \& Co. accounted for a greater proportion of the total sales of many of the lines of farm implements and machines. International Harvester Co. increased its proportion of the total units in 1936 over 1921 in the case of 9 implements or machines and for 11 implements and machines its proportion of the total decreased. Deere \& Co. had increases in its proportion of the sales in the case of 16 implements out of a total of 20 . All the other companies combined gained on only 8 implements and machines and lost ground on 12 out of the total of 20 . This is significant when it is remembered that one important company, namely, Allis-Chalmers Manufacturing Co. entered the farm-machinery field within this period and gained a considerable proportion of the business, especially in the tractor and powerdrawn implement lines. The other companies which usually had the next largest proportions of the sales generally followed in the order of J. I. Casc Co., Oliver Farm Equipment Co., Allis-Chalmers Manufacturing Co., Minneapolis-Moline Power Implement Co., the Massey-Harris Co., and B. F. Avery \& Sons Co. Obviously, the proportions of the total were not consistenly in this order for each kind of farm implement or machine. In regard to some implements and machines a few of the short-line manufacturers sold a substantial proportion of the total.

The national business conditions and the purchasing power of the farmer are important factors affecting the trends of sales, profits, and rates of return of the farm-1:thehinery manufacturers. Table 4 , which follows, shows for all companies
for which the information was available the total volume of net sales, including sales of products other than farm implements and machines, for each of the years 1927 to 1936, inclusive, and the income and expenses per dollar of net sales for each year. The ratios show the trend in costs and expenses in relation to sales and the effect of the variations on profits.

Table 4.-Costs, expenses, and profits or losses per dollar of net sales applicable to the entire business for all farm-machinery manufacturers for which the data are available, 1927-36

| Year | 1927 | 1928 | 1929 | 1930 | 1931 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of companies. <br> Net sales all companies combined....- | $\begin{array}{r} 59 \\ \$ 434,202,738 \end{array}$ | $\begin{array}{r} 63 \\ \$ 499,145,288 \end{array}$ | $\$ 634,400,846$ | $\begin{array}{r} 69 \\ \$ 532,425,137 \end{array}$ | $\begin{array}{r} 70 \\ \$ 302,802,595 \end{array}$ |
| Net sales. Cost of goods sold . | Cents 100.00 68.14 | Cents 100.00 65.25 | Cents 100.00 65.62 | $\begin{aligned} & \text { Cents } \\ & 10 \mathrm{~J} .00 \\ & 68.89 \end{aligned}$ | Cents 100.00 74.97 |
| Gross profit on sales Distribution and administrative ex- | 31.86 | 34.75 | 34.38 | 31. 11 | 25.03 |
| penses | 16.45 | 17.15 | 18.01 | 21.05 | 29. 25 |
| Net profit on sales <br> Other income (net) <br> Net income from outside investments. | $\begin{array}{r} 15.41 \\ 1.96 \\ .19 \end{array}$ | $\begin{array}{r} 17.60 \\ 1.95 \\ .18 \end{array}$ | $\begin{array}{r} 16.37 \\ 2.46 \\ .16 \end{array}$ | $\begin{array}{r} 10.06 \\ 2.67 \\ .12 \end{array}$ | $\begin{array}{r} 13.20 \\ 3.01 \\ .15 \end{array}$ |
| Net profit applicable to total investment. <br> Less interest on borrowed funds | 17.56 .40 | 19.73 .45 | 18.99 .57 | 12.85 .89 | $\begin{aligned} & 1.04 \\ & 1.37 \end{aligned}$ |
| Net profit applicable to stockhol lers ' investment <br> Less Federal income tax .................... | 17.16 2.73 | 19.28 2.80 | 18.42 2.44 | 11.96 1.59 | $\begin{array}{r}11.41 \\ \\ \hline\end{array}$ |
| Net profit after Federal income tax. | 14.43 | 16. 48 | 15.98 | 10.37 | ${ }^{1} 1.73$ |
| Year | 1932 | 1933 | 1934 | 1935 | 1936 |
| Number of companics Net sales all companies combined..... | $\begin{array}{r} 71 \\ \$ 145.353,371 \end{array}$ | $\begin{array}{r} 71 \\ \$ 154,547,894 \end{array}$ | $\begin{array}{r} 72 \\ \$ 244,104,192 \end{array}$ | $\begin{array}{r} 71 \\ \$ 404,324,631 \end{array}$ | $\begin{array}{r} 70 \\ \$ 521,070,464 \end{array}$ |
| Net sales Cost of goods sold | Cents 100.00 85. 68 | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 79.53 \end{aligned}$ | Cents 100.00 71.34 | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 69 . \mathrm{I1} \end{aligned}$ | Cents 100. C0 68. 11 |
| Gross proft on sales Distribution and administrative ex- | 14.32 | 20.47 | 28. 66 | 30.89 | 31.89 |
| penses | 41. 10 | 33.15 | 24.36 | 17.84 | 15.72 |
| Net profit on sales <br> Other income (net) <br> Net income ffom outside lnvestments. | $\begin{array}{r} 26.78 \\ 4.78 \\ \quad .30 \end{array}$ | $\begin{array}{r} 12.68 \\ \\ 4.74 \\ .40 \end{array}$ | 4.30 4.45 .38 | 13.05 3.67 .32 | 16.17 2.49 .17 |
| Net profit applicable to total investment. <br> Less interest on borrowed funds...... | $\begin{array}{r} 121.90 \\ 2.45 \end{array}$ | $\begin{array}{r} 17.54 \\ 1.74 \end{array}$ | 9.13 .81 | 17.04 .40 | 18. 83 |
| Net profit applicable to stockholders' investment <br> Less Federal income tax .... | $\begin{array}{r} 124.35 \\ .12 \end{array}$ | $\begin{array}{r} 19.28 \\ .06 \end{array}$ | $\begin{aligned} & \text { 8. } 32 \\ & \text { 2. } 43 \end{aligned}$ | $\begin{array}{r} 16.64 \\ 2.41 \end{array}$ | $\begin{array}{r} 18.56 \\ 3.26 \end{array}$ |
| Net profit after Federal income tax. | ${ }^{1} 24.47$ | 19.34 | 5.89 | 14. 23 | 15. 30 |

## I Denotes loss.

There were important differences in the ratios of costs, expenses, and profits to net sales as between the long-line companies as a group and the short-line companies as a group. In order to make a comparison that is indicative of the farmmachinery business, it was necessray to limit the information to those companies for which a segregation could be made of the farm-machinery business from the total business insofar as possible. The information, however, ineludes the motortruck and binder-twine businesses of International Harvester Co. which could not be segregated without an undue amount of work. Therefore, while the ratios in the preceding table are based on the total business of the companies, the comparisons in the following table are limited to the domestic farm-machinery business,
subject to the above qualification. Table 5, which follows, shows for each of the years 1927 to 1936, inclusive, the net sales and income and expenses per dollar of net sales applicable only to the farm-n achinery business of all companies combined for which the information was availaine, and the segregation of the information according to long-line companies as a group and to short-line companies as a group.

Table 5.-Costs, expenses, and profits or losses per dollas of net sales, applicable to the farm-machinery business ${ }^{1}$ of long-line and short-line farm-machinery manufacturers for which the information was available, 1927-36


[^87]: Denotes loss.

Table 5.-Costs, expenses, and profits or losses per dollar of net sales, applicable to the furm-machinery business of long-line and short-line farm-machinery manufacturers for which the information was available, 1927-36-Continued

| Year | 1932 | 1933 | 1934 | 1935 | 1938 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Number of companies, long-line manufacturers combined <br> Net sales, total amount | \$78, 945, 748 | \$85, 399, $141^{7}$ | \$146, 664, 523 | \$261, 774, 439 | \$324, 863, 322 |
| Net sales. Cost of goods sold | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 86.50 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 81.72 \end{aligned}$ | Cents 100.00 71.68 | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 69.63 \end{aligned}$ | Cents 100.00 67.96 |
| Gross profit on sales <br> Distribution and administrative expenses | $\begin{aligned} & 13.50 \\ & 47.15 \end{aligned}$ | $\begin{aligned} & \text { 18. } 28 \\ & 37.34 \end{aligned}$ | $\begin{aligned} & 28.32 \\ & 25.56 \end{aligned}$ | $\begin{aligned} & 30.37 \\ & 17.50 \end{aligned}$ | $\begin{aligned} & 32.04 \\ & 15.39 \end{aligned}$ |
| Net profit on sales Other income (net) from the business | $\begin{array}{r} 233.65 \\ 5.19 \end{array}$ | $\begin{array}{r} 219.06 \\ 6.45 \end{array}$ | 2.78 | $\begin{array}{r} 12.87 \\ 4.26 \end{array}$ | 16.65 3.04 |
| Net profit applicable to farm-machinery business : <br> Number of companies, short line manufacturers combined. <br> Net sales, total amount | $\begin{array}{r} 228.46 \\ 56 \\ \$ 8,324,749 \end{array}$ | $\begin{array}{r} 212.61 \\ 56 \\ \$ 8,621,250 \end{array}$ | $\begin{array}{r} 7.98 \\ \$ 12,986,893 \end{array}$ | $\begin{array}{r} 17.13 \\ 56 \\ \$ 17,847,348 \end{array}$ | $\begin{array}{r} 19.69 \\ \$ 23,064,579 \end{array}$ |
| Net sales.-.-.-.-.- Cost of goods sold | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 103.37 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 86.52 \end{aligned}$ | Cents 100.00 74.66 | Cents <br> 100.00 <br> 73.06 | Cents 100.00 72.77 |
| Gross profit on sales <br> Distribution and administrative expenses | $\begin{array}{r} 23.37 \\ 39.55 \end{array}$ | $\begin{aligned} & 13.48 \\ & 30.06 \end{aligned}$ | $\begin{aligned} & 25.34 \\ & 23.67 \end{aligned}$ | $\begin{aligned} & 26.94 \\ & 19.92 \end{aligned}$ | 27.23 18.54 |
| Net profit on sales Other income (net) from the business | $\begin{array}{r} 242.92 \\ 3.17 \end{array}$ | $\begin{array}{r} 16.58 \\ 3.54 \end{array}$ | $\begin{aligned} & 1.67 \\ & 1.93 \end{aligned}$ | $\begin{aligned} & 7.02 \\ & 1.42 \end{aligned}$ | 8. 69 |
| Net profit applicable to farm-machinery business. | ${ }^{2} 39.75$ | ${ }^{2} 13.04$ | -6. 60 | 8.44 | 9.-? |

${ }^{1}$ Includes the motortruck and binder-twine business of Internatlonal Harrester Co.
${ }^{2}$ Denotes $\vdots$ Jss.
The largest proportion of the farm machinery manufactured in the Unitod States is sold in the United States. During 5 years between 1928 and 1936, inclusive, the smallest proportion of the total farm machinery and repair parts of domestic manufacture sold in the United States for any one of the long-line farm-machinery manufacturers was 66.35 percent, while the highest was 92.13 percent. Thus it can be seen that the maximum proportion sold in foreign countries for any one company was 33.65 percent. The proportions of the net sales of farm machinery and repair parts of domestic manufacture sold in the United States, Canada and other foreign countries, by the principal long-line manufacturers, are shown in the following tabulation:

| Company | Proportion of farm-machinery and repair parts sales in- |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | United States | Canada | Other foreign countries | Tutal |
| International Harvester Co | $\begin{aligned} & \text { Percent } \\ & 184.98 \end{aligned}$ | Percent 2. 73 | Percent 12. 29 | Percent 100 |
| Deere \& Co.. | 190.21 | 4. 33 | 5. 46 | 100 |
| Allis-Chalmers Manufacturing Co | $\begin{array}{r}2 \\ \\ \\ 1 \\ \hline\end{array}$ | 1.32 7.05 | 6.55 20.10 | 100 |
| Oliver Farm Equipment Co | 386.42 386 | 7. 26 | 20.10 | 100 |
| Minneapolls-Moline Power Impl | 184.42 | 6.09 | 9.49 | 100 |
| The Massey-Harris Co.......... | 166.35 | 17. 14 | 16.51 | 100 |
| B. F. Avery \& Sons Co. | ${ }^{3} 71.40$ | . 02 | 28. 58 | 100 |

[^88]The proportion of sales by International Harvester Co. in the United States, Canada, and other foreign countries is based on its sales of farm machinery and repaị parts of domestic manufacture only. As indicated previously, the company owns important foreign subsidiary companies that manufacture and distribute farm machinery in foreign countries, but the sales of these foreign companies were not included in arriving at the percentages shown in the tabulation.

A rather substantial proportion of the total sales of farm machinery and repair parts by all companies is accounted for by the sales of repair parts. For instance, during the years $1929,1932,1933,1935$, and 1936, the total sales in the United States of implements and tractors by International Harvester Co. amounted to $\$ 328,942,858$ while the sales in the United States only of implement and tractor repair parts for that period amounted to $\$ 74,460,441$. The net sales for Deere \& Co. in the United States for the same 5 years included $\$ 29,865,688$ of farm implements and $\$ 4,983,680$ of repair parts. The ratio of sales of repair parts to sales of new farm implements by these two companies was perhaps larger than for other farm-machinery manufacturers, for the reason that these two companies have been in business a longer time than most of the other companies and therefore have a larger proportion of implements and machines in use than the other companies, some of which have only recently begun to manufacture farm implements and machines. Also, the ratio of sales of repair parts to farm implements would vary for different companies for the reason that only some of the companies manufacture tractors which require more parts replacement. However, the sales of repair parts constituted an important part of the sales of farm-machinery manufacturers and were generally larger in relation to their farm-machinery sales during the depression years.

The profits on sales of repair parts were higher than on sales of new farm implements. For ir stance, the r.et profit on the $\$ 74,460,441$ of repair part sales by International Harvester Co. was equal to $\$ 16,521,972$, which represented 22.19 percent of the sales, while on the new implements and tractors the percentage of profit to net sales was only 6.73 percent. For Deere \& Co. the net profit on the sales of $\$ 4,983,680$ of repair parts was $\$ 1,058,316$, which equaled 21.24 percent o. the net sales of repair parts, while on the sales of new farm implements the net profit was equal to 18.13 percent of the net sales. It was also found that the gross margins of profit of retail farm-machinery dealers was higher on sales of repair parts than on sales of new farm implements and machines. The fact that the margins of profit on the repair parts were higher for both the farm-machinery manufacturers and the retail dealers perhaps accounts for the numerous complaints by farmers that the prices of repair parts for farm machines are particularly high

INTERNATIONAL HARVESTER CO.
Information concerning investments and earnings of the group of International Harvester companies is presented herein for the years 1913 to 1927, irclusive. Such information for International Harvester Co. of New Jersey and International Harvester Corporation, which were merged in 1918, has been combined for the years 1913 to 1918, in order to be comparable with the information for the subsequent years.

International Harvester Co. was organized in 1902 as a consolidation of McCormick Harvesting Machine Co., Deering Harvester Co., Plano Manufacturing Co., Warder, Bushnell \& Glessner Co., and Milwaukee Harvester Co. Combined operations of these companies accounted for about 90 percent of the grain binders and 80 percent of mowers built in the United States at the time of the consolidation. It appears that the primary purpose of the consolidation was to eliminate keen competition and obtain larger profits.

At the time of the consolidation, International Harvester Co. was strictly a short-line company, but from that time it has steadily lengthened its line so that it now manufactures many types and sizes of farm tillage implements, seeding and planting machines, cultivators, harvesting machines, farm hauling equipment and farm-power-developing machines. It also manufactures motor trucks and tractors of many types and sizes for both farm and industrial purposes. It developed as a full line company through the acquisition of additional competing and noncompeting companies, and the conversion of its own plants, or construction of new plants, to manufacture other lines. By these means the company strengthened its monopoly position with respect to harvesting machines and lengthened its line of other farm implements and machines.

From the standpoint of size, in terms of capital invested, and volume of sales, International Harvester Co. dominates the farm-machinery industry. In 1936, its farm machinery sales of domestic manufacture, including motor trucks and binder twine, were equivalent to approximately 53 percent of the combined farmmachinery sales for all companies included in this discussion. If the company's sales of motortrucks and binder twine are not included, since it is the only one of the reporting companies who manufacture these products, and since a considerable portion of the sales of motortrucks are for industrial use primarily, its sales for 1936 would still be equivalent to over 41 percent of the combined ferm machine sales of these companies.

The company's investments for the year 1936, devoted to the United States farm machinery, motortruck and twine business, exceeded 55 percent of the combined investments of all companies, including International, for which information is presented herein.

At present, International Harvester Co. has 15 manufacturing plants in the United States, 3 in Canada, 3 in France, 2 in Germany, 2 in Sweden, and in 1937 it announced that a plant was to be built in Australia. The company sells its products through its transfer houses and motortruck sales and service stations in 157 cities of the United States. In addition, the company owned or controlled 108 retail stores in various parts of the country in 1937.

Rates of return have been computed on the investment applicable to the entire operations, domestic and foreign, and on the investment applicable to only the United States farm-machinery, motortruck, and binder-twine business. Table 6 which follows, summarizes the investments, profits, and rates of return for the years 1913 to 1937, inclusive, on three bases, namely, the total investment, the investment of all classes of stockholders combined, and the investment of common stockholders only. The information concerning investments and profits for International Harvester Co. of New Jersey and International Harvester Corporation, which were merged in 1918, has been combined for the years 1913 to 1918, in order to be comparable with the information for the subsequent years.

As nearly as can be determined, the investments represent the actual amounts invested in assets. The assets were appreciated $\$ 17,958,873$ at the time of the company's formation in 1902, but it appears that this appreciation has since been written off.

The total investment consists of the capital stocks outstanding, surplus, surplus reserves, reserves for Federal income and profits taxes, and all borrowed funds except trade notes. The stockholders' investment consists of these same items, except borrowed funds. The common stockholders' investment, or common stock equity, consists of the common stock outstanding, surplus, surplus reserves, and reserves for Federal income and profits taxes.

The profits applicable to the total investment represent the net income from all sources before deducting interest on borrowed funds and provisions for Federal income and profits taxes. The profits applicable to the stockholders' investment represent the net income after deducting interest on borrowed funds, but before deducting provisions for Federal income and profits taxes. The profits applicable to the stockholders' investment, less the dividends accrued to the preferred stockholders, represent the profits used in computing the rates of return on the common stock equity.


| Year | Investments ${ }^{1}$ |  |  | Profits ${ }^{2}$ applicable to- |  |  | Rates of return |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Stockholders | Common-stock equity | Total investment | Stockholders' investment | Common-stock equity | Tutal investment |  | Commonstock equity |
|  |  |  |  |  |  |  | Percent ${ }^{10.95}$ | Percent 11.27 | Percent 13. 53 |
|  | \$209, 115, 243 | \$173, 559, 023 | \$113, 559, 023 | \$22, 896, 850 | \$19,563, 368 | \$15, 363, 368 |  | 8.12 | 13.53 8.67 |
|  | 238, 751, 958 | 183, 361, 177 | 123, 361,177 | 18, 483,928 | 14, 889,758 | 10,689, $13,248,928$ | 8. 28 8, | 9. 24 | 10. 28 |
|  | 240, 501, 698 | $188,845,005$ $198,302,043$ | 128, ${ }^{138,302,043}$ | $19,913,832$ $27,030,017$ | 25, 408, 381 | 21, 208, 381 | 11.48 | 12. 81 | 15. 34 |
|  | 240, 791, 286 | $215,108,965$ | 155, 108, 965 | 41, 293, 808 | 40, 190, 998 | 35, 990, 998 | 17.15 | 18. 68 | 23. 20 |
|  | 255, 353, 686 | 238, 029, 821 | 178, 029, 821 | 45, 609, 200 | 44, 503, 441 | 40, 303, 441 | 17.86 | 18. 70 | 22. 64 |
|  | 236, 313, 139 | 236, 313, 139 | 176, 313, 089 | 19, 655, 771 | 19, 655, 771 | 15, 465, 771 | 8.32 | 8.32 | 8.77 |
|  | 235, 196, 655 | $235,196,655$ | 175, 196, 655 | 25, 182, 955 | 26, 182, 955 | 21,942,955 | 11.13 | 11.13 | 12.52 |
|  | 231, 526, 578 | 231, 526, 578 | 172, 414, 628 | 5, 242, 099 | 5, 242, 099 | 1, 026, 426 | 2. 26 | 2. 26 | . 60 |
|  | 223, 986, 498 | 223, 956, 498 | 164, 762, 598 | 3, 898, 737 | 3, 898, 737 | ${ }^{3} 316,936$ | 1.74 | 1.74 | ${ }^{3} .19$ |
|  | 221, 529, 255 | 221, 529, 255 | 161, 305, 355 | 15, 177, 287 | $15,177,287$ | 10, 961, 614 | 6.85 | 6.85 | 6.80 |
|  | 224, 266, 616 | 224, 266, 616 | 163, 873, 266 | 19, 327, 580 | 19, 327, 580 | 15, 097, 016 | 8. 62 | 8.62 | 9.21 |
|  | 236, 119, 692 | 236, 119, 692 | 174, 499, 092 | 33, 132, 785 | 33, 132, 785 | 28, 769, 149 | 14.03 | 14.03 | 16.49 18.80 |
|  | 254, 195, 444 | 254, 195, 444 | $190,072,044$ | 40, 289, 214 | 40, 289, 214 | $35,730,875$ | 15.85 14.41 | 15.85 14.49 | 16. 87 |
|  | 308, 855, 582 | 306, 643, 082 | $239,228,091$ $368,646,359$ | $44,519,726$ $57,915,405$ | $44,423,999$ $57,915,405$ | $39,633,445$ $52,822,896$ | 14. 41 17.03 | 14. 49 17.03 | 16.57 14.33 |
|  | 340, 086, 198 | $340,086,198$ $377,093,138$ | $368,646,359$ $300,982,119$ | $57.915,405$ $65,797,144$ | 57, 915,405 $65,611,406$ | 62, $60,171,728$ | 17.20 | 17.40 | 19.99 |
|  | 412, 708, 651 | 396, 178, 651 | 316, 569, 193 | 35, 589, 422 | 34, 943, 442 | 29, 298, 870 | 8.62 | 8.82 | 9.26 |
|  | 383, 971, 145 | 383, 971, 145 | 302, 663, 092 | 175, 619 | 175, 619 | ${ }^{3} 5,555,284$ | . 05 | . 05 | ${ }^{3} 1.84$ |
|  | 357, 362,331 | 357, 362, 331 | 275, 322, 683 | ${ }^{3} 8,955,016$ | ${ }^{3} 88,955,016$ | ${ }^{3} 14,682,911$ | 32.51 | 32.51 | ${ }^{3} 5.33$ |
|  | 339, 086, 342 | 339, 086, 342 | 257, 214, 194 | 1,155, 320 | 1,155, 320 | ${ }^{3} 4,563,644$ | . 34 | . 34 | ${ }^{8} 1.77$ |
|  | 334, 452, 944 | 334, 452, 944 | 252, 770, 494 | 20, 084, 870 | 20, 084, 870 | 14, 367, 566 | 6.01 | 6. 01 | 5. 68 |
|  | 347, 110, 599 | 347, 110, 599 | - 265, 438, 199 | 43, 026, 366 | 43, 026, 366 | 37, 320, 850 | 12. 40 | 12. 40 | 14. 06 |
|  | 371, 866, 818 | 371, 866, 818 | 290, 194, 418 | - 49, 611, 685 | - 49,611, 685 | ${ }^{4} 45,323,884$ | ${ }^{4} 13.34$ | ${ }^{1} 13.34$ | +15.62 |
|  | 364, 509, 270 | 364, 509, 270 | 282, 836, 870 | 48, 051, 274 | 48, 051, 274 | 42, 334, 206 | 13. 18 | 13.18 | 14.97 |
| Annual average | 289, 022, 701 | 279, 148, 017 | 214, 700, 339 | 27,804,235 | 27, 238, 227 | 22, 478, 134 | 9.62 | 9.76 | 10.47 |

[^89]

The profits shown in table 6 differ materially from the"profits reported by the company in its published annual reports, being considerably larger in most years than the amounts reported by the company. This resulted from a reclassification of income and expenses by segregating and classifying as surplus certain items not directly related to the results of the yearly operations from the manufacture and sale of farm machinery and other products. These items included capital gains and losses, revaluations of securities and other assets, provisions for inventory and other reserves, and many other charges and credits. Also, as previously explained, the profits shown in the table were computed before the deduction for Federal income and profits taxes, since such taxes are not operating expenses but are contingent upon profits and represent a division of the earnings of the business.

The adjustments of profits referred to above were made for the years 1913-18 and for the years 1927-36 on the basis of field examinations of the comoany's books and records by examiners of the Federal Trade Commission in its studies of the farm machinery industry. ${ }^{2}$

The adjustments for the intervening years and for the year 1937 were based on information submitted by the company in answer to a questionnaire. The accounting techniques in this questionnaire were closely defined and prescribed in order to obtain comparability and uniformity of the data throughout. However, a field examination might have revealed the necessity for further adjustments, the probable effect of which would have been to increase the profits shown in the table for the years covered by the questionnaire.

The table shows that for the 25 -year period, 1913 to 1937, inclusive, the annual average rates of return were 9.62 percent on the total investment, 9.76 percent on the stockholders' investment, and 10.47 percent on the common-stock equity.

From 1913 to 1918, inclusive, the annual average rate of return on the total investment was 12.34 percent; for the years 1910-26 it was 8.74 percent; for the years $1927-36$ it was 8.76 percent; for 1937 it was 13.18 percent; and for all years it was 9.62 percent. It will be noted the average ratio of return for the years 1919-26 and 1927-36 were approwimately the same. However, if the operating results for three of the depression years, namely, 1931, 1932, and 1933 are eliminated from the comparisons, the average return for seven of the years 1927-36 would be 12.85 percent. It is significant that this return is slightly higher than the average return of 12.34 percent during the years 1913-18, and only slightly under the return of 13.18 percent for the year 1937.

Table 7, which follows, summarizes the investments, profits, and rates of return applicable to only the investment in the United States farm machinery, motortruck, and twine business. The details from which the table was prepared were obtained by the Federal Trade Commission's accountants from the company's records at its offices and are available for only the years 1927 to 1936, inclusive.

The investment in the United States farm machinery, motortruck, and twine business represents the total investment of the United States group of companies from which was deducted the investments in marketable securities, in foreign subsidiaries, in the steel and lumber operations, and all other investments not directly concerned with the manufacture and sale of farm machinery, motortruck, and binder twine. The profits used in computing the rates of return represent the net income to the company from its United States operations, excluding income from such outside investrients and before deducting interest on borrowings and provisions for Federal income and profits taxes.

[^90]Table 7.-Summary of investments, profits, and rates of return on the United States farm machinery, motortruck, and binder twine business of International Harvester Co., 1927-36

| Year | A verage investment (beginning and end of year) | Profits : | Rates of return | Year | A verage in. vestment (beginning and end of year) | Profits ${ }^{1}$ | Rates of return |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1927 | \$201, 253, 551 | \$30,243, 253 | Percent 15.03 | 1934. | \$190, 585, 911 | \$14, 538, 139 | $\begin{array}{r} \text { Percent } \\ 7.63 \end{array}$ |
| 1928 | 214, 969, 732 | 42, 432, 318 | 19.74 | 1935 | 211, 177, 831 | 32, 438, 555 | 15. 36 |
| 1929 | 247, 826, 393 | 51, 100, 456 | 20.62 | 1936 | $240,160,842$ | 3 41, 728, 564 | ${ }^{3} 15.93$ |
| 1930 | 269, 186, 426 | 28,318, 636 | 10.52 |  |  |  |  |
| 1931 | 230, 084, 071 | 4, 049, 812 | 1.76 | Annual aver- |  |  |  |
| 1932 | 202, 619, 093 | ${ }^{2} 7,958,234$ | ${ }^{2} 3.93$ | age | $219,539,572$ | 23, 640, 338 | 10.61 |
| 1933. | 187, 531, 877 | ${ }^{2} 487,124$ | ${ }^{2} .26$ |  |  |  |  |

${ }^{1}$ Before Federal income taxes. ${ }^{2}$ Denotes loss. ${ }^{3} 11$ months only due to change in fiscal year closings.
Table 7 shows that the investment in the United States farm machinery, motortruck, and twine business averaged $\$ 219,539,573$ for the 10 years $1927-36$. During the same period the annual average of the total investment applicable to the entire operations of the company, both domestic and foreign, was $\$ 357,805,583$. The average of the investment in the United States farm machinery, motortruck, and twine business was 61 percent of the total investment.

During the 10 -year period, an average rate of 10.61 percent was earned on the investment in the United States farm machinery, motortruck, and twine business, as compared with 8.76 percent on the total investment in the company's entire operations, domestic and foreign. From this comparison it is concluded that the company realized a larger profit on the investment in the United States farm machinery, motortruck, and twine business than on the investments in any of the other fields of the company's operations combined.

The following table 8 is presented as a further indication of the profitableness of the company's operations as a whole. The table summarizes for each of the ycars 1913 to 1937, inclusive, the total net sales, the net income from all operations after providing for all the costs and expenses of doing business, including Federal income and profits taxes and all other taxes, the dividends paid, and surplus at the end of each year.
Table 8.-Summary of net sales, net income, dividends paid, and surplus for International Harvester Co. and subsidiaries, 1913-37

| Year | Net sales | Net income | Dividends paid |  |  |  | Surplus end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\begin{aligned} & \text { Cash, pre- } \\ & \text { ferred } \end{aligned}$ | $\begin{aligned} & \text { Cash, com- } \\ & \text { mon } \end{aligned}$ | Stock. common | Total |  |
| 1912 |  |  |  |  |  |  | 831, 586, 544 |
| 1913 | \$124, 073, 201 | \$19,366, 020 | \$4, 200,000 | \$4,000,000 |  | \$8, 200,000 | 38,457. 323 |
| 1914 | 110, 923, 865 | 14, 812, 147 | 4, 200, 000 | $3,000,000$ |  | 7,200,000 | 42, 983, 149 |
| 1915 | 108, 991, 839 | 17, 150, 187 | 4,200,000 | 2, 000, 000 |  | 6, 200, 000 | 47, 459,585 |
| 1916 | 120, 951, 072 | 24, 610, 887 | 4, 200,000 | 2,000, 000 |  | 6,200, 000 | 54, 041, 745 |
| 1917 | 161, 455, 930 | 32, 715, 583. | 4,200,000 | 2,800,000 |  | 7.000,000 | 61, 051, 338 |
| 1918 | 193, 604, 388 | 27, 807, 431 | 4, 200, 000 | 3,800,000 |  | $8,000,000$ | 68, 036, 663 |
| 1919 | 206, 481, 295 | 12, 155, 771 | 4,200,000 | 4, 800,000 |  | 9,000,000 | 71, 641, 252 |
| 1920 | 216,649, 643 | 22, 682, 955 | 4,200, 000 | 5, 750, 000 | \$10090000 | 19,950, 000 | 68, 348, 793 |
| 1921 | 11.5, 965,079 | 5, 242, 099 | $4,215,673$ | 5, 112,786 | 3, 645, 414 | 12, 973,873 | 59, 526, 173 |
| 1922 | 126, 562, 618 | 3, 898, 737 | 4,215, 673 | 4,847,920 | 3, 802, 290 | 12, 865, 883 | 52, 201, 488 |
| 1923 | 151, 288, 1:3 | 13, 927, 287 | 4, 215, 673 | 4, 993, 835 | 1,9i8, 368 | 11, 167, 876 | 51,307, 627 |
| 1924 | 159, 140, 463 | 16,577, 580 | 4,230,564 | 4,903.835 |  | 9,224,399 | $55,120,042$ |
| 1925 | 202,963, 567 | 26, 132, 785 | 4, 363, 636 | 4,993,835 |  | 9,357, 471 | 64,933, 301 |
| 1926 | 237, 408, 162 | 33, 289, 214 | 4, 558, 339 | 5,992,602 |  | 10, 550, 941 | 77.040, 352 |
| 1927 | $254,163,917$ | 36, 841,663 | 4,792, 085 | 6, 294, 630 | 6,072,504 | 17,159, 219 | 83, 242, 886 |
| 1928 | 282, 286, 979 | 48, 787, 070 | 5, 099, 173 | ${ }^{7} 7,651,231$ | 4, 280,348 | 17, 030, 752 | 29, 759, 714 |
| 1929 | 322, 907, 292 | 56, 291, 179 | 5, 442, 615 | 11,023,014 |  | 16, 465, 629 | 50, 074,083 |
| 1930 | 268, 058, 488 | 29,999, 199 | 5, 646, 123 | 11,023, 044 |  | 16, 669, 167 | 59, 108, 107 |
| 1931 | 160, 215, 750 | 1 228, 896 | 5, 735, 947 | 11,022,963 |  | 16, 758. 910 | 54, 695, 735 |
| 1932 | 82, 778, 774 | $19,133,734$ | 5, 727, 895 | 6, 318, 983 |  | 12, 046, 878 | 45, 065, 978 |
| 1933 | 89, 460, 873 | 1,100, 062 | $5,718,964$ | 2, 523, 041 |  | 8, 242, CO5 | 4.4, 937, 715 |
| 1931 | 133, 953, 981 | 15,072, 169 | 5, 717, 304 | 2, 546, 736 |  | 8,264,040 | 40, 622, 312 |
| 1935 | 211, 448, 382 | 37,367, 225 | 5, 705, 516 | 3, 159,308 |  | 8, 864, 824 | 51, 375, 726 |
| 1936 | ${ }^{2}$ 247, 612, 099 | 240, 918, 276 | 4, 287, 801 | 11,992, 766 |  | 16, 280. 567 | 64, 903, 425 |
| 1937 | 341, 497, 226 | 36, 726, 763 | 5,717,068 | 16, 981,019 |  | 22.698.087 | 74, 783, 101 |
| Tota! | 4,630,842,896 | 56.4, 109, 509 | 118.990, 049 | 149,62],548 | 28,758, 824 | 295, 376, 521 |  |

Table 8 shows that the company's net sales of all products, both domestic and foreign, amounted to $\$ 4,630,842,896$ for the 25 years, 1913 to 1937, inclusive. The average annual sales for this period amount to $\$ 185,233,716$. It will be noted that the net sales of $\$ 341,497,226$ in 1937 were the largest of any year during the period.

The table shows that during the 25 -year period dividend payments aggregated $\$ 298,370,521$, of which $\$ 118,990,049$ was paid in cash on the preferred stock at the rate of 7 percent per annum, $\$ 149,621,548$ was paid in cash on the common ktock at varying rates, and $\$ 29,758,924$ in common stock was paid on the common stock.

After the payment of dividends there remained $\$ 265,739,078$ of net income. This increase in surplus, however, was offset by net charges during the period of $\$ 222,537,521$. Of this amount, $\$ 136,251,474$ was represented principally by large amounts appropriated from surplus from time to time for reserves to provide for possible shrinkage in inventory values, for maintenance and depreciation on plant and equipment in addition to the amounts provided for out of income, for doubtful accounts receivable, contingency reserves, etc. The remainder, \$38,286,047, is made up of two items, one for $\$ 22,148,277$ representing bonuses or additional compensation paid to the managerial group of employees during each of the years $1927-30$ and 1936 , and the other for $\$ 66,137,770$ representing the transfer in 1928 of that amount from surplus to the capital-stock account, when the compeny's outstanding common stock was changed from shares of the par vaiue of $\$ 100$ per share to shares without par value. In this exchange, four shares of nn-par-value common was issued for each old share.

It will be noted that the surplus at the end of 1912 was $\$ 31,586,544$, and $\$ 74,788,101$ at the end of 1937 . The increase of $\$ 43,201,557$, together with $\$ 29,758,924$ of stock dividends during the period, and $\$ 66,137,770$ of surplus transferred to capital stock as described above, account for at least \$139,098,251 of earnings reinvested in the business.

The difference between the net sales and net income for the years as shown in the preceding table is accounted for principally by the cost of goods manufactured and sold and the distribution and administrative expenses. The following table 9 shows the total net sales of all products by the company during the years 1927 to 1937, inclusive, and the per dollar of pet sales of income, expenses, and profits. The ratios show the trend during the period of costs and expenses and their relation to sales, and the effect of the variations on profits.

Table 9.-Summary of income and expenses per dollar of net sales for International Harvester Co. and subsidiaries, 1927-37


${ }^{2}$ Denotes loss.

Table 9.-Summary of income and expenses per dollar of net sales for International Harvester Co. and subsidiaries, 1927-37-Continued


111 months only due to change in fiscal-year basis.
The net sales shown in table 9 for the years 1927 to 1937, inclusive, aggregate $\$ 2,394,383,761$, and represent the domestie and foreign sales of all of the company's products. During the years 1927 to 1936, inclusive, the net sales applicable to the United States farm machinery, motortruck, and twine business aggregated $\$ 1,593,801,486$, an average of $\$ 159,380,149$ per annum. The domestie sales of farm implements, motortrucks, and binder twine represented 77.6 percent of the entire sales of the company, which averaged $\$ 205,288,654$ for the years 1927 to 1936, inclusive.

The following table 10 is presented to indicate the relative importance of each class of sales comprising the domestic farm machinery, motor truck, and bindertwine business, and their relative profitableness. The table shows the net sales and margins of profits for each of the years 1929, 1932, 1933, 1935, and 1936.

Table 10.-Net sales and margins of profits applicable to various classes of sales applicable to the United States farm machinery, motortruck and binder twine business of International Harvester Co. for the years 1929, 1992, 1933, 1995, and 1936

|  | Implements and tractors | Imple ment and tractor replacement parts | Motortrucks and parts | Twine | Collaters] products | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales: |  |  |  |  |  |  |
| 1929 | \$121, 138, 203 | \$16, 687, 452 | \$48, 620, 139 | \$9,901, 346 | \$4,482, 533 | \$200, 829, 673 |
| 1832 | 15, 652, 512 | 9, 594, 780 | 22, 463, 285 | 4,417, 598 | 1,226, 859 | 53, 355, 034 |
| 1933 | 16,836,521 | 10, 404, 691 | 20, 431, 528 | 2,907, 230 | 1,738, 776 | 52,318,746 |
| 1935 | 79, 965, 86I | 19, 183, 938 | 46, 961, 452 | 5, 118, 120 | 3, 559, 863 | 154, 789, 234 |
| 10361 | $95,349,761$ | 18,589, 580 | 59, 484, 879 | 3,615, 548 | 4,072,097 | 181, 111, 865 |
| Total. | 328, 942, 858 | 74, 460, 441 | 197, 961, 283 | 25, 959, 842 | 15, 080, 128 | 642,404, 5.52 |
| Percent gross profit to net sales: | Petcent | Percent | Percent | Percent | Percent | Pctcent |
| 1929. | 32.69 | 42.43 | 31.45 | 20.09 | 7.37 | 32.02 |
| 1932 | 212.04 | 36.56 | 30.68 | 34. 83 | ${ }^{2} 1.93$ | 18. 80 |
| 1933 | 4.04 | 32.89 | 30.61 | 34. 20 | 2. 19 | 21. 77 |
| 1935. | $\checkmark \quad 28.13$ | 41.84 | 26. 36 | 30.71 | . 06 | 28. 73 |
| 1836 | 29.06 | 40.32 | 28.34 | 23.62 | . 88 | 29.23 |
| A verage. | 26.94 | 39.66 | 29.13 | 26.76 | 2.54 | 28.51 |
| Net profit to net sales: $1929$ | 13.42 | 28.84 | 8.77 | 14. 55 | 7.37 | 13.49 |
| 1932. | 269.21 | 2.66 | ${ }^{2} 1.76$ | 25. 66 | ${ }^{2} 1.93$ | ${ }^{2} 19.08$ |
| 1933 | 240.82 | 4. 51 | 5.87 | 25.36 | 2. 19. | 28.47 |
| 1935. | 12.09 | 30.17 | 9.88 | 18.99 | . 06 | 13. 61 |
| 1936 | 14.59 | 29.68 | 14.79 | 14. 26 | . 88 | 15.89 |
| Average. | 6.73 | 22.19 | 9.35 | 18.49 | 2.54 | 9.70 |

[^91]Table 10 shows that gross margins of profit of 39.66 percent resulted form the sales of replacement parts for implements and tractors, 29.13 percent from the sales of motortrucks and parts, 26.94 percent from the sales of implements and tractors, 26.76 percent from the sale of twine, and 2.54 percent from the sale of collateral products. The net profit on sales followed a slightly different trend in that the average for the five years was 22.19 percent for implement and tractor replacement part sales, 18.49 percent for twine, 9.35 percent for motortrucks and parts, and 6.73 percent for implements and tractors. It will be observed that the sales of implements and tractors declined from approximately $\$ 121,000,000$ in 1929 to a low of $\$ 15,600,000$ in 1932. The decline was much more pronounced in implements and tractors than in any other line of products. In 1932 and 1933 the sales of motortrucks and parts exceeded the sale of farm implementsand tractors.

## Deere \& Co.

This company was founded in 1837 by John Deere at Grand Detour, Ill., who developed a plow that would successfully scour in the heavy Illinois prairie soil. Production of this plow was begun by a partnership of John Deere and Maj. Leonard Andrus under the name Grand Detour Plow Co. In 1847 John Deere withdrew from the partnership and started in business in Moline, Ill., under the name Deere \& Tate and later Deere, Tate \& Gould Co. The other partners withdrew from the business and John Deere continued the plow business alone, beginning in 1852 . The business expanded into the manufacture of tillage implements as well as plows and the business was incorporated as Deere \& Co. in 1868. Branch houses were established at strategic points for distributing the products which were manufactured by the company, and additional farm implements which were purchased. By 1893 it appears the number and types of implements manufactured were such that the company might be described as a long-line concern.

Through an expansion program which began in 1911 Deere \& Co. acquired, through exchanges of stock, a number of other companies and expanded its own plants until the company became the second largest manufacturer of farm implements and machines in the United States, which position it still holds. The principal companies acquired since that time were Syracuse Chilled Plow Co., Syracuse, N. Y., manufacturers of chilled plows, Van Brunt Manufacturing Co., Horicon, Wis., manufacturers oi grain drills, Dain Manufacturing Co., Ottumwer, Iowa, and Welland, Ontario, manufacturers of haying machinery, Waterloo Gasoline Engine Co., Waterloo, Iowa, manufacturers of tractors and gasoline engines, Killefer Manufacturing Co., Los Angeles, Calif., manufacturers of heavy tillage tools and road machinery, and the potato machinery business of Hoover Manufacturing Co., Avery, Ohio. Deere \& Co. is a combined manufacturing and holding company owning or controlling 10 factories in the United States and 1 in Canada. It has an extensive branch house distribution system with each branch house separately incorporated. In 1936 there were 54 branches of which 41 were located in the United States and 13 were located in Canada. The company also has over 100 company-owned retail stores.

The profitableness of this company's operations is indicated in table 11, which follows. This table summarizes the investments, profits, and rates of return for the company for each of the years 1913 to 1937, inclusive, on four bases of investment, namely, the total investment, the investment of all classes of stockholders combined, the investrnent of the common stockholders only, and the investment in the farm-machinery business.

The total investment consists of the capital stock outstanding, surplus, surplus reserves, reserves for Federal income and profits taxes, and borrowed funds. The investment of all stockholders consists of these same items, except borrowed funds. The common stockholders' investment for common stock equity consists of the common stock outstanding, surplus, surplus reserves, and reserves for Federal income and profits taxes. The investment in the farm-machinery business consists of the total investment, less investments in securities of other companies and property not used in the farm-machinery business.

The net profits applicable to each basis of investment are before deductions for provisions for Federal income and profits taxes. Subject to this qualification, the profits applicable to the total investment represent the net income from all sources before deducting interest on borrowed funds; the profits applicable to the stockholders' investment represent the net income after deducting interest on borrowed funds; the profits applicable to the common-stock equity represent the net income to all stockholders, less dividends accruing to the preferred stockholders; and the profits applicable to the investment in the farm-inachinery tousiness represent. the nef income, excluding income from outside investments, and before deducting inverest on borrowed funds.

At the time of the acquisition of other companies in 1910, appreciation of $\$ 17,904,400$ was recorded in the company's accounts as trade names, trade-marks, patents, and good will. This amount represented the excess in value assigned to common stock issued for properties in excess of their historical cost. The appreciation was written off against surplus in 1929. The amount of appreciation has been deducted from the investments in computing the rates of return shown in the following table.

Table 11.-Summary of investments, profits and rates of return for Deere \& Co. ard subsidiaries, 1913-37

| Year | Investments ${ }^{1}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Stockholders | $\begin{aligned} & \text { Common- } \\ & \text { stoek } \\ & \text { equity } \end{aligned}$ | $\begin{gathered} \text { Farm- } \\ \text { machinery } \\ \text { business } \end{gathered}$ |
| 1913 | \$52, 627, 597 | \$43, 006, 166 | \$5, 177, 666 | \$50, 279, 253 |
| 1914 | 57, 224, 278 | 44, 605, 182 | 6, 776, 682 | 54, 543,449 |
| 1915 | $59,634,379$ | 43, 955, 539 | 6, 127, 039 | 56, 960,394 |
| 1917 | 49, 760, 772 | $4 ¢, 015,537$ | 10, 0377,607 | 46, 989, 041 |
| 1918 | 49, 236, 833 | 48. 195,133 | 13, 195, 133 | 46, 319, 600 |
| 1919 | 53, 627, 525 | 53, 249, 275 | 18, 55i, 775 |  |
| 1920 | 56, 486, 185 | 56, 305, 435 | 22, 132, 485 |  |
| 1921 | 57, 696, 939 | 52, 925, 403 | 19, 362, 203 |  |
| 1922 | 56, 155. 750 | 46, 745, 393 | 13, 168, 943 |  |
| 1924. | 52,992. 308 | 43, 738.420 | 9, 992, 170 |  |
| 1925 | 48, 397, 286 | $43,249,298$ $44,806,786$ | 11, 909, 986 |  |
| 1926 | 49, 222, 396 | 49, 222, 396 | 16, 343, 146 |  |
| 1927 | 55, 094, 406 | 53, 761, 073 | 21, 626, 273 | 51, 314, 867 |
| 1928 | 60, 661, 542 | 58, 858, 209 | 27,460. 159 | 56, 894, 591 |
| 1929 | 76, 999, 777 | 69, 974, 777 | 38, 576, 677 | 73, 309, 751 |
| 1930 | 88,786, 366 | 80, 153, 033 | 48, 754, 983 | $85,325.094$ |
| 1931. | 89, 115, 473 | 81, 019, 640 | 49, 826, 640 | 85, 791, 794 |
| 1932 | 81, 481, 288 | 74, 789, 621 | 43, 825,045 | 78, 041,028 |
| 1933 | 69, 900, 857 | 68, 242, 524 | 37. 326, 151 | 66, 254, 048 |
| 1934 | 66, 652, 933 | $65,599,600$ | 34, 708, 006 | $62,643,503$ |
| 1935 | 73, 778, 788 | $69,015,455$ | 38, 111, 599 | $69,309,891$ |
| 1936 | 86, 720, 188 | 78, 490, 605 | 47, 574, 486 | 81, 946, 661 |
| 1937 | 87, 252, 291 | 83, 327, 291 | 52, 411, 172 |  |
| Annual average | 63, 464, 979 | 57, 759, 024 | 24, 388, 431 | 63, 674, 569 |


| Year | Profits ${ }^{2}$ applicable to- |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total investment | Stockholders' investment | $\begin{aligned} & \text { Common- } \\ & \text { stock } \\ & \text { equity } \end{aligned}$ | $\begin{gathered} \text { Farm- } \\ \text { machinery } \\ \text { business } \end{gathered}$ |
| 1913 | \$5, 080, 220 | \$4,244, 869 | \$1, 596, 874 | \$5, 328, 463 |
| 1914 | 3, 219,462 | 2, 155, 135 | 3 492, 860 | 3, 462.718 |
| 1915 | 4,441,225 | 3, 633, 397 | 985, 402 | 4, 747, 078 |
| 1916 | 5, 915. 103 | 5, 438, 063 | 2, 790, 068 | 6, 428, 115 |
| 1917 | 7, 933, 104 | 7, 582, 616 | $5,064,161$ | 8, 399, 285 |
| 1918 | 8,742, 057 | 8, 058, 425 | 5, C08, 425 | 9, 607, 008 |
| 1919 | 10, 324, 750 | 10, 311, 430 | 7. 861,430 |  |
| 1920 | 6, 895, 458 | 6, 887, 088 | 4, 437, 088 |  |
| 1921 | ${ }^{3} 2,159,078$ | ${ }^{3} 2,676,961$ | ${ }^{3} 5,126,961$ | - |
| 1822 | ${ }^{3} 1,770,779$ | ${ }^{3} 2,520,779$ | ${ }^{3} 4,871,130$ |  |
| 1923. | 2, 539, 209 | 1,789, 209 | ${ }^{3} 573,029$ | ---7- |
| 1924. | 2, 566,338 | 1,853, 838 | 3 482.992 |  |
| 1925 | 5, 270, 188 | 5, 270, 188 | 2, 967, 412 |  |
| 1926 | 9, 134, 916 | 9, 131, 916 | 6, 833, 368 |  |
| 1927 | 12,008, 427 | 11, 941, 023 | 9, 691,587 | 11, 873, 671 |
| 1828. | 15, 651, 710 | 15, 566, 173 | 13, 368, 309 | 15, 550, 816 |
| 1929 | 22, 273, 320 | 21, 835, 721 | 19, 637, 854 | 22, 147, 841 |
| 1930 | 14, 161, 170 | 13, 740, 906 | 11, 543, 041 | 14, 031, 933 |
| 1931 | 655, 541 | 347,097 | ${ }^{\text {² }} 1,838,863$ | 612, 107 |
| 1932 | ${ }^{3} 5,758,936$ | ${ }^{3} 6.055,904$ | ${ }^{3} 8,223,424$ | 3. $5,719,460$ |
| 1933 | ${ }^{3} 4,400,169$ | ${ }^{3} 4,460,402$ | ${ }^{3} 6,624,548$ | ${ }^{3} 4,442,200$ |
| 1934 | 1, 148, 295 | 1, 119, 437 | ${ }^{8} \mathrm{i}, 042,975$ | 983, 258 |
| 1935. | 10, 831, 438 | 10, 744, 679 | 8. 581, 409 | 10, 363, 957 |
| 1936 | 19, 650, 227 | 19,525, 391 | 17, 361, 263 | 19, 256, 428 |
| 1937. | 21, 730, 827 | 21, 504, 386 | 19, 340, 258 |  |
| Annual average | 7,042, 561 | 6, 678, 798 | 4. 335,647 | 7.664, 439 |

[^92]Table 11.-Summary of investments, profits and rates of return for Deere \& Co. and subsiduaries, 1913-37-Continued

| Year | Rates of return |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\text { Total invest- }}{\text { ment }}$ ment | Stockloolders' investment | Commonstock equity | $\underset{\substack{\text { Farm-chinery } \\ \text { musiness }}}{ }$ |
| 1913. | Percent 9. 65 | Percent 9.87 | Percent 30. 84 | Percent 10. 60 |
| 1914 | 5. 63 | 4.83 | 3 7. 27 | -6.35 |
| 1915. | 7.41 | 8.27 | 16. 018 | 8. 33 |
| 1916 | 10.61 | 12. 16 | 40. 46 | 12. 16 |
| 1917. | 15.94 | 16. 48 | 50.45 | 17.87 |
| 1918. | 17.76 | 16. 72 | 42. 50 | 20.74 |
| 1919 | 19. 25 | 19. 36 | 42.37 |  |
| 1920 | 12.21 | 12. 23 | 20.05 |  |
| 1921. | ${ }^{3} 3.74$ | 35.06 | ${ }^{3} 26.48$ |  |
| 1922 | ${ }^{3} 3.15$ | 35.39 | 3 36. 99 |  |
| 1924 | 4. 79 | 4.09 | 35.73 |  |
| 1925. | 10.89 | 11.76 | 41.82 |  |
| 1926 | 18.56 | 18. 56 | 41.81 |  |
| 1927. | 21.80 | 22.21 | 44.81 | 23.14 |
| 1928 | 25.80 | 26.46 | 48.68 | 27.33 |
| 1929. | 28. 93 | 31.21 | 50.91 | 30.2ı |
| 1930. | 15.95 | 17. 14 | 23. 68 | 16.45 |
| 1931 | . 74 | . 43 | ${ }^{3} 3.69$ | . 71 |
| 1932 | 37.07 | ${ }^{3} 8.10$ | ${ }^{3} 18.76$ | ${ }^{3} 7.33$ |
| 1933 | '6. 29 | ${ }^{3} 6.54$ | ${ }^{3} 17.75$ | ${ }^{3} 6.70$ |
| 1934 | 1.72 | 1.71 | 33.00 | 1.57 |
| 1935 | 14.68 | 15. 57 | 22. 52 | 14. 95 |
| 1936 | 22. 66 | 24.88 | 36. 49 | 23.50 |
| 1937. | 24.91 | 25.91 | 36.00 |  |
| Annual average. | 11.10 | 11.56 | 17.78 | 12.04 |

[^93]Table 11 shows that the annual average rates of return for the 25 years, 1913 to 1937 , inclusive, were 11.10 percent on the total investment, 11.56 percent on the stockholders' investment, 17.78 percent on the common stock equity, and 12.04 percent on the investment in the farm-machinery business.

From 1913 to 1918, inclusive, the annual average return on the total investment amounted to 10.89 percent; for the years 1919-26 it was 7.70 percent; for the years 1927-36 it was 11.51 percent; and for 1937 it was 24.9 percent. It will be noted that particularly high rates of return were earned during the years 1927 through 1929 and for the years 1936 and 1937, also that the annual average rate for the years 1927-36, despite the adverse results for the depression years, was higher than the annual average rate for the years 1913-18.

Table 12 which follows, summarizes for each of the years 1913 to 1937 , inclusive, the total net sales, the net income after providing for all of the costs and expenses of doing business, including Federal income and profits taxes and all other taxes, the dividends paid, and surplus at the end of each year.

Table 12 shows that the company's net sales aggregated $\$ 992,818,891$ for the 25 years, 1913-37. It will be noted that the net sales for 1937 were considerably larger than for any other year during the period. The sales consisted almost entirely of farm implements and machines and replacement parts since the com-s pany's operations were devoted almost entirely to the manufacture of these products.

Regular quarterly cash dividends were paid on the 7 percent preferred stock from 1913 to September 1, 1921; from December 1, 1921, to December 1, 1924, only 3 percent was paid annually; on March 2, 1925, a dividend of 1 percent was paid; during 1925, 1926, and 1927 the regular dividends and the dividends in arrears were also paid; from March 1, 1928, to March 1, 1932, regular dividends were paid on the preferred stock while irregular dividends were paid thereafter so that in 1935 the dividends were considerably in arrears, but during 1936 and 1937 the full dividends had been paid together with the arrears so that, in effect, for the entire period from 1913 to 1937, inclusive, dividends equivalent to the regular amounts were paid on the preferred stock.

Throughout the 25 -year period, dividends were paid on the common stock only during 5 years, namely, 1928 to 1931, inclusive, and during 1937. The total cash dividends paid on the common stock during these 5 years was $\$ 6,000,619$. This compares with a cash dividend on the preferred stock for the period aggregating $\$ 59,064,885$. During 1930, 1931, and 1937 the company recorded stock dividends on the common stock aggregating $\$ 11,139,267$. These stock dividends, of course, merely represent transfers to the capital stock account from the surplus account.

After the payment of dividends there remained a balance of net income amounting to $\$ 59,375,573$, of which amount $\$ 14,380,174$ represented a net increase in the surplus account during the period. The remainder, amounting to $\$ 44,995,399$, represented net charges to surplus for various purposes, including appreciation of $\$ 17,904,400$ which was written off in 1929 and substantial amounts appropriated from time to time for reserves to provide for doubtful accounts receivable, for possible shrinkage in inventory values, for depreciation on plant and equipment, in addition to the amounts provided for out of income and for other contingencies.

Tab́le 12.-Summary of net sales, net income, dividends, and surplus for Deere \& Co. and subsidiaries, 1918 to 1937 , inclusive


## ${ }^{1}$ Denotes loss.

The net increase in surplus during the period of $\$ 14,380,174$ together with $\$ 11,139,267$ of stock dividends account for at least $\$ 25,519,441$ of earnings reinvested in the business.

The difference between the net sales and the net income for each year shown in the preceding table is accounted for principally by the cost of goods manufactured and sold and the distribution and administrative expenses. In order to indicate the relative importance of costs and expenses in relation to sales, table 13 which follows, is presented. This table shows for each of the years 1927 to 1937, inclusive, th's total net sales and the income and expenses per dollar of net sales. The ratios show the trend during the period of costs and expenses in relation to sales and the effect of the variations on profits.

Table 13.-Summary of income and expenses per dollar of net sales for Deere \& Co. and subsidiaries, 1927 to 1937, inclusive


## ${ }^{1}$ Denotes loss.

It will be observed from the preceding table that the cost of goods sold ranged from 58.33 cents in 1928 to 100.88 cents per dollar of net sales in 1932. The distribution and administrative expenses, including provisions for bad debts, range from 14.30 cents in 1929 to 85.86 cents per dollar of net sales in 1932. The ranges in the annual net profit were from high figures of 25.77 in 1929 and 25.68 cents per dollar of net sales in 1936, to a low figure which was a loss occurring in 1932 of 78.33 cents per dollar of net sales.

All of the foregoing discussion relates to the company's entire business which includes for some years a comparatively small amount of manufacturing in Canada for the Canadian trade. Of the farm implements and repair parts manufacured in the United States, during the 5 years, $1929,1932,1933,1935$, and 1936 \& very large proportion were sold in the United States To be more specific, 89.98 percent were sold in the United States, 4.44 percent were sold in Canada and 5.58 percent were sold in other foreign countries. In general, the company exports even a smaller proportion of its farm implements and repair parts than is indicated because of large sales of tractors and farm implements to the Russian Govermment in 1929 which did not recur in other years.

Repair parts accounted for 14.26 percent of the total sales in the United States. It is of interest to note that the ratio of net profit to sales of repar parts averaged 21.24 percent while the net profit on new farm implements and machincs averaged 18.13 percent during the 5 years

## Allis-Chalmers Manufacturing Co.

Prior to 1927 Allis-Chalmers Manufacturing Co. was engaged principally in the manufacture of a diversified line of power, electrical, and industrial machinery. Beginning in 1927, or about that time, the company began to develop its business in the farm-implement and machinery field. This development was effected through the expansion of existing plants and by the purchase of properties of other farm-implement manufacturers.

The company was incorporated under the name of Allis-Chalmers Co. in 1901 as a consolidation of a number of companics manufacturing heavy industrial machinery. In 1913 it was reorganized under the name of Allis-Chalmers Manufacturing Co. The only products manufactured for farm use during the early years were gasoline engines, begun in 1903 , and farm tractors, which were first made in 1915. The need for other products to sell with its engines and tractors caused the company to begin expanding in the farm-implement and machinery line. The acquisition, early in 1928 , of Monarch Tractor Co. and La Crosse Plow Co. added horse-drawn as well as tractor-drawn plows and tillage implements to the company's line. In 1931, the company acquired the AdvanceRumely Co., makers of threshers and combines, and in 1932 it acquired the Birdsell Manufacturing Co., makers of clover hullers. It provided itself with a distributing organization for its growing line of farm machinery by continuing the operations of an extensive selling organization acquired as part of the AdvanceRumely Co. In 1932 it also purchased the distribution business and property owned by B. F. Avery \& Sons Co., Inc., in Argentina.

In 1927 the company's sales of farm implements and machines and allied products amounted to only 7.7 percent of its total sales, but by 1936 they amounted to over 58 percent of the total. For the 10 years, 1927-36, the company's farmmachinery sales averaged 34.75 percent of the total sales for those years.

The following table 14 summarizes the investments, profits, and rates of return for Allis-Chalmers Manufacturing Co. for each of the years 1927 to 1937 , inclusive. The company did not segregate its assets between those used for the farmmachinery business and those used for other manufactured products. For this reason, the Commission's examiners were unable to establish the amount of investment applicable to the farm-machinery business. The information submitted in the table is, therefore, limited to the total invesument and the stockholders' investment in the entire business.

The stockholders' investment consists of the outstanding capital stocks, surplus, surplus reserves, and reserve for Federal income and profits taxes. The total investment comprised the same items plus borrowed funds. The profits used to compute the rates of return on the total investment represent the net income to the company from all sources before deducting interest on borrowings and provision for Federal income and profits taxes. The profits used to compute rates of return on the stockholders' investment represent the net profits after deducting interest on borrowings and before deducting Federal income and profits taxes.

Intangible values for goodwill and patents were deducted from the investments in computing rates of return primarily because there was a lack of evidence that the book value represented a cash or equivalent cost, A value for goodwill and patents was first set up on the books in 1913. The original value was subsequently adjusted by certain deductions for sales of goodiwill and patents and certain additions for purchases. The annual expenditures incurred in taking out new patents were charged off to current operations. No provision was made for amortization of the remainder of the amount for goodwill and patents. The amounts deducted Ifrom cach basis of investment averaged $\$ 12,334,087$ for the 11 years, 1927 to 1937, inclusive.

Table 14.-Summary of investments, profits, and rates of return for Allis-Chalmers Manufacturing Co., 1927-37

|  | Total investment | Stockholders' investment |  | Total investment | Stoekholders' investment |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A verage investments: |  |  | Pronts-Continued |  |  |
|  | $\$ 18,374,805$ $44,254,485$ | $\$ 38,754,805$ $29,784,485$ | $\begin{aligned} & 1934 \\ & 1935 \end{aligned}$ | $\begin{array}{r} \$ 2,240,476 \\ 3,251,464 \end{array}$ | $\begin{array}{r} 2 \$ 1,002,906 \\ 2,477,176 \end{array}$ |
| 1029 | 46, 992, 322 | 32, 247, 045 | 1936 | 6, 399, 263 | 5, 879, 113 |
| 19:30. | 52, 554, 992 | 37, 892,075 | 1937. | 11, 043,748 | 10, 767, 768 |
| 1932 | 55, 839, 092 | 42, 175, 1092 | Annual average | 3, 396, 212 | 2,697, 706 |
| 1933 | 53, 102, 343 | 39, 439, 724 |  |  |  |
| 1934 | 51, 788, 973 | 38, 024, 030 | Rates of return: | Percent | Percent |
| 1435 | 53. 625, 215 | 39, 193.169 | 1927 | 8. 63 | 9. 53 |
| 1936. | $58,132,617$ | 45, 770,812 $59,406,567$ | 1928 | 9. 39 | 11.21 |
| 1937 | 79, 539, 03.4 | 59, 406, 567 | 1929 | 12.12 | 15.07 |
| Annual a cerag | 54, 634, 752 | 40, 459, 989 | 1931 | 3. 98 | 3. 37 |
|  |  |  | 1932 | ${ }^{2} 3.91$ | 27.01 |
| Profits: |  |  | 1933 | ${ }^{3} 3.97$ | 27.34 |
| 1927 1928 | 4, 175, 224 | 3, 693, 724 | 1934. | ${ }^{2} .46$ | ${ }^{2} 2.64$ |
| 1928 | (, 155, 910 | 3,339, 910 | 1935 | 6. 06 | 6. 32 |
| 19.3 | 5,694, 700 | 4, 860,888 | 1936 | 11. 13.8 | 12.84 |
| 1930 | 1, 906, 109 | 4, 079, 619 | 1937 | 13.83 | 18. 13 |
| 19323 | 2 <br> 2 <br> 2 <br> 2 <br> $2,1825,043$ | $\begin{aligned} & 1,720,701 \\ & 22.955,043 \\ & 32.893 .906 \end{aligned}$ | Annual average | 6. 22 | 6. 67 |

${ }^{1}$ A verage investments at beginning and and of year
${ }_{2}$ Denotes loss.
Table 14 shows that the annual average rates of return or the 11 ycars, 1927-37, were 6.22 percent on the total investment and 6.67 percent on the stockholders' investment. The trend in earnings was upward from 1927 through 1929 and downward thereafter until 1933. It will be noted nat there was marked improvement in the following years with the result that the rates of return for 1937 on each basis of investment were higher than in any previous year during the period under review.

The net income to the company after providing for all costs and expenses of doing business, including Federal income and all other taxes, aggregated $\$ 22,-$ 222,974 for the 11 years, 1927-37, inclusive. During this period, the company paid out a total of $\$ 20,680,488$ in dividends. The net increase in surplus was, therefore, $\$ 1,542,486$. However, net charges to surplus during this period of $\$ 4,342,409$ operated to reduce the company's surplus from $\$ 15,155,141$ at the beginning of 1927 to $\$ 12,355,218$ at the end of 1937. The charges to surplus other than dividends are accounted for principally to premirms of $\$ 1,650,000$ paid in connection with the retirement of preferred stock in 1927 and to the appropriation of $\$ 2,000,000$ for reserves for contingencies and receivables in 1932.

Table 15 which follows gives the amounts of net sales and the income and expenses per dollar of net sales for each of the years 1927-37, inclusive. The ratios show the trend during these years of costs and expenses in relation to sales and the effect of the variaticns on profits.

Table 15.-Summary of income and expenses per dollar of net sales for AllisChalmers Manufacturings Co., 1927-37.

|  | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales, total amounts. | \$30,593, 711 | \$33, 495, 732 | \$45, 274, 134 | \$41, 464, 656 | \$27, 323, 845 | \$14, 328, 776 |
| Net sales. | Cents $100.00$ | Cents 100.00 | Cents $100.00$ | Cents $100.00$ | Cents 100.00 | Cents 100.00 |
| Cost of goods sold.............-. -- | 77.68 | 76.97 | 77.51 | 75.93 | 79.48 | 87.68 |
| Gross profit on sales ...- | 22.32 | 23.03 | 22.49 | 24.07 | 20.52 | 12.32 |
| Distribution and administrațive expenses. | 12. 52 | 12.78 | 11.41 | 13.69 | 17.31 | 32.04 |
| Net profit on sales. | 9.80 | 10.25 | 11.08 | 10.38 | 3.21 | ${ }^{1} 19.72$ |
| Other income (net) <br> Total <br> Income from outside investments | 3.08 | 1.78 | 1.28 | 1.27 | 4.69 | 4.10 |
|  | 12.88 | 12.03 | 12.36 | 11.65 | 7.90 | ${ }^{1} 15.62$ |
|  |  | . 38 | . 22 | . 19 | . 36 | . 39 |
| Net profit applicable to total investment | 13.65 | 12.41 | 12. 58 | 11.84 | 8. 26 | 115.23 |
| Interest on borrowed money.- | 1.58 | 2. 44 | 1.84 | 1.99 | 3.04 | 5. 39 |
| Net profit applicable to stockholders' investment | 12.07 | 9.97 | 10.74 | 9.85 | 5. 22 | ${ }^{1} 20.62$ |
| Provision for Federal income and profls taxes | 1.53 | 1.21 | 1.17 | 1. 15 | . 63 |  |
| Net income | 10. 54 | 8.76 | 9.57 | 8. 70 | 4.89 | 120.62 |
|  |  | 1933 | . 1934 | 1935 | 1936 | 1937 |
| Net sales, total amounts...--.-.-...-.-.----- |  | \$13,016, 819 | \$19,749, 551 | \$38, 259, 894 | \$57, 993, 350 | \$87, 353, 016 |
| Net sales. <br> Cost of goods sold |  | $\begin{aligned} & \text { Cents } \\ & 100.00 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \end{aligned}$ | Cents $100.00$ | Cents 100.00 |
|  |  | 88.65 | 80.12 | 75.57 | 74.05 | 73.49 |
| Gross profit on sales Distribution and administrative expenses. |  | 11.35 | 19.88 | 24.43 | 25.95 | 26.51 |
|  |  | 32.50 | 24.61 | 17.57 | 16.28 | 14.98 |
| Net profit on sales <br> Other income (net) |  | 121.15 | 14.73 | 6.86 | 9.67 | 11.53 |
|  |  | 4.64 | 3.32 | 1. 57 | 1.37 | 1.12 |
| Total <br> Income from outside investments |  | ${ }^{1} 16.51$ | ${ }^{1} 1.41$ | 8.43 | 11.04 | 12.65 |
|  |  | -. 33 | . 19 | . 06 | 1.01 |  |
| Net profit applicable to total investment <br> terest on borrowed money |  | 116.18 | ${ }^{1} 1.22$ | 8.49 | 11.03 | 12.65 |
|  |  | 6.05 | 3.86 | 2.02 | . 90 | . 32 |
| Net proft applicable to stockholders' investment |  | 122.23 | ${ }^{1} 5.08$ | 6.47 | 10.13 | 12.33 |
| Provislon for Federal income and profits taxes. |  |  | . 18 | 1.29 | 3.21 | 3.44 |
|  |  | 122.23 | ${ }^{1} 5.26$ | 5.18 | 6.82 | 8.89 |

[^94]The company's sales aggregated $\$ 408,854,084$ for the 11 years $1927-37$. As previously indicated, the company's sales comprise two lines of products, namely, the farm-implement and tractor line, and the general line; the latter comprises electrical equipment, mining machinery, industrial equipment, and machinery and equipment not usable for agricultural purposes. Some indication has already been given of the proportion of farm-machinery sales to the total sales of the company. The following tabulation compares the results to the company from the farm implement and tractor business, and the results from all other manufacturing activities for the 10 -year period.

Percentages of total sales of the farm implement and tractor line, and of the general line, and margins of profit on each class of sales

| Year | Farm implement and tractor line |  |  | General line |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Percentage of total sales | Percentage of gross proft on sales | Percentage of net profit on sales | Pcreentage of total sales | Percentage of gross profit on sales | Percentage of net proflt on sales |
| 1927 | 7.70 | 21.28 | 3.76 | 92.30 | 22.41 | 10.31 |
| 1928 | 14.89 | 28.13 | 16. 51 | 85.11 | 22.13 | 9. 16 |
| 1929. | 23.60 | 16.51 | 5.14 | 76.40 | 24, 33 | 12. 91 |
| 1930 | 29.98 | 19.87 | 5.80 | 70.02 | 25.87 | 12.33 |
| 1931 | 22.75 | 21.62 | 14.15 | 77.25 | 20.20 | 5.39 |
| 1932. | 43.64 | 27.13 | ${ }^{1} 11.14$ | 56.36 | . 85 | ${ }^{1} 26.36$ |
| 1933 | 39.59 | 15.06 | ${ }^{1} 27.74$ | 60.41 | 8. 92 | ${ }^{1} 16.83$ |
| 1934 | 45.43 | 24.03 | 17.88 | 54.57 | 16.42 | ${ }^{1} 2.11$ |
| 1935 | 54.69 | 28.98 | 9.98 | 45.31 | 18. 94 | 3. 10 |
| 1936. | 58.16 | 28.10 | 11.04 | 41.84 | 22.96 | 7.76 |
| A verage | 34.75 | 24.76 | 4.39 | 65.25 | 21.08 | 6.41 |

## ${ }^{1}$ Denotes loss.

It will be noted that the sales comprising the farm implement and tractor line averaged 34.75 percent of total sales, for the 10 -year period, and the sales of all other manufactured products averaged 65.25 percent of the total. It will also be noted that a higher average gross profit was earned on the farm implement and tractor sales than was earned on the sales of other products during the period, but the reverse was true with regard to net profit. However, in 1935 and 1936, net profits of 9.98 and 11.04 percent, respectively, were earned on farm implement and tractor sales, as compared with 3.10 and 7.76 percent, respectively, from sales of all other manufactured products. Sales of the farm implement and tractor line comprised 54.69 and 58.16 percent, respectively, of the total sales in 1935 and 1936, and the sales of all other manufactured products amounted to 45.31 and 41.84 percent, respectively, in those years; yet, in 193579.53 and in 193666.44 percent of the total net profit on sales was realized from sales of the farm implement and tractor line.

The following table 16 shows the net sales and margins of profits applicable to the different classes of products applicable to the farm implement and tractor division for the years $1930,1932,1933,1935$, and 1936. The table shows that farm implements and machinery comprised the bulk of the company's sales in those years and that the gross profit and net profit on sales of replacement parts, which averaged 46.18 and 23.61 percent, respectively, exceeded the profit on any other class of product.

Table 16.-Net sales and margins of profits applicable to the farm implement and tractor division of Allis-Chalmers Manufacturing Co., for the years 1930, 1932, 1933, 1935, and 1936


${ }^{1}$ Denotes loss.

## J. I. Case Co.

The present J. I. Case Co. was founded in 1842 by Jerome I. Case, as the J. I. Case Threshing Machine Co., and was incorporated in 1880. The name of the latter company was changed to the present title on June 1, 1929. The company's business comprises the manufacture and sale of threshers, combines, tractors, grain binders, corn binders, corn pickers, tractor plows, manure spreaders, and many other implements used on the farm,

In 1919 ihe company acquired the Grand Detour Plow Co., and in 1928 purchased the implement plant and business of Emerson-Brantingham Corporation, of Rockford, IIJ., and the rights of J. I. Case Plow Works to the use of the name "Case" and "J. I. Case" on plows, harrows, and certain other tools. In February 1937 the company purchased the properties of Rock Island Plow Co.

Like International and Deere, this company early set up its own branch house distribution for domestic trade. In 1937 it sold its products through 53 directly owned branches, 42 of which were in the United States, 6 in Canada, and 5 in South America.

Table 17, which follows, summarizes the investments, profits, and rates of return for the company for each of the years 1927 to 1937, inclusive. Rates of return have been computed on three bases of investment, namely, the total investment, the stockholders' investment, and the investment in the farm-machinery business. Insofar as could be determined, the investinents on each of the three bases reflect the actual investment in assets. The profits used in computing the rates of return are before deduction of Federal income tax.

Table 17.-Summary of investments, profits, and rates of return for J.I. Case Co., 1927-37

|  | Total Investment | Stockholders investment | Investment in farmmachinery business |
| :---: | :---: | :---: | :---: |
| Average investments: ${ }^{1}$ |  |  |  |
| 1927. | \$32, 754, 521 | \$31, 821, 188 | \$32, 531, 344 |
| 1928. | 35, 561,467 | 34, 143, 364 | 35, 418, 13.5 |
| 1929. | 47, 845, 392 | 40, 535,434 | 47, 718, 176 |
| 1930 | 51, 291, 541 | 46, 100,708 | 51, 118, 087 |
| 1931 | 48,390, 254 | 44, 806,921 | 48, 159, 736 |
| 1932 | 43, 243, 602 | 41, 774, 852 | 43, 016, 520 |
| 1933. | 40,784, 544 | 40, 338, 711 | $40,562,264$ |
| 1934 | 40,032,988 | 40, 932, 988 | 39, 826, 368 |
| 1935 | 40. 932, 540 | 40, 932, 640 | 40, 742, 688 |
| 1936 | 42, 748,335 | 42, 743, 335 | 42, 564, 261 |
| 1937. | 39, 684, 556 | 39, 684, 556 |  |
| Annual average | 42, 115, 431 | 40.265. 418 | 42, 165, 826 |
| Proflts: |  |  |  |
| 1927 | 5, f,20, 211 | 5, 574, 622 | 5. 621,074 |
| 1928 | 6,210, 203 | 6, 141, 833 | 6, 211,444 |
| 1929 | 4. 404,034 | 3, 952, 528 | 4, 407,718 |
| 1930 | 3,451,421 | 3,239, 091 | 3,455,079 |
| 1931 | 80, 714 | - $5.5,618$ | 86,004 |
| 1932 | ${ }^{2} 2,111,719$ | 2 2, 174, 112 | ${ }^{2}$ 2, 100, 789 |
| 1933 | ${ }^{2} 1,447,929$ | 21, 463, 724 | 2 1, 439, 990 |
| 1934 | ${ }^{3}$ 208, 664 | 1 208,564 | ${ }^{2}$ 205, 366 |
| 1835 | 2, 872,618 | 2,872,518 | 2, 873,345 |
| 1936 | 3,996, 800 | 3, 995, 800 | 4, 102, 892 |
| 1937 | ${ }^{3} 5,825,574$ | ${ }^{8} 5.825,574$ |  |
| Annual average | 2, 408,479 | 2, 521, 177 | 2, 291, 141 |
| Rates of return: | Percent 17. 16 | Percent 17.52 | Percent 17. 28 |
| 1928 | 17.46 | 17. 74 | - 17.54 |
| 1929. | 9. 20 | 9.75 | 9. 24 |
| 1930. | 6. 73 | 7. 1.3 | 6. 75 |
| 1931. | . 17 | 2.05 | . 18 |
| 1932 | 2.188 | ? 5.20 | 24.88 |
| 1933 | 23.55 | - 3.63 | 23.55 |
| 1934 | 8. 52 | ${ }^{2} .52$ | 2. 52 |
| 1935 | 7.02 | 7.02 | 7.05 |
| 1936. | 9.35 | 9.35 | 9.40 |
| 1937 | ${ }^{3} 14$ f8 | ${ }^{3} 11.68$ |  |
| Annual average.. | 6. 19 | 6. 26 | 5. 43 |

A Average incestments at beginning and end of year except for borrowed money which was averaged monthly.
${ }^{2}$ Denotes loss.
${ }^{3} 10$ months only due to change from calcadar to fiseal year basis.
Table 17 shows that the annual average rates of return for the 11-year period were 6.19 percent on the total investment, 6.26 percent on the stockholders' investment, and 5.43 percent on the investment in the farm machmery business. Rates of return on each basis of investment were highest in 1927 and 1928 and lowest in 1932. The trend was downward between 1928 and 1932 and upward thereafter. Also, while losses were sustained in 1932, 1933, and 1934, they were progressively smaller, and marked recovery is indicated in the following 3 years when profits were again earned. Rates of return were higher in 1937 than in any year since 1928. The improvement in 1936 and 1937 is particularly significant in view of the loss of business sustained by the company because of the shutdown of the Racine plants during the latter part of October and during the months of November and December 1936, and January and part of February 1937, on account of a strike.

The following tabulation shows the investment, pronits and rates of return for J. I. Case Threshing Machine Co. for each of the years 1919 to 1926, inclusive, before the present company's business was further expanded as a long-line company by the acquisition of the business of Emerson-Brantingham Corporation and the development and introduction of a new line of improved tractors.

${ }^{1}$ A verage of investment at beginning and end of year.
${ }^{2}$ Loss.
As shown above, the rate of return on the total investment of the J. I. Case Threshing Machine Co. averaged 7.43 percent for the years 1919-26. It will be noted that this average return for this period was only slightly higher than the average return of 6.19 percent for the years $1927-37$.

The rate of return on the total investment for the years 1919 to 1937, inclusive, averaged 6.59 percent.

Table 18 which follows, summarizes the net sales, net income, dividends paid, and surplus for the years 1919 to 1937, inclusive.

Table 18.-Summary of net sales, net income, dividends paid, and surplus for J. I. Case Co. ${ }^{1}, 1919-37$

| Year | Net sales | Netincome | Dividends |  | Total | Surplus end of year |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 7 percent preferred | Common |  |  |
| 1918 |  |  |  |  |  | \$6, 260, 728 |
| 1919 | 32, 707, 838 | \$2,909,482 | \$880, 250 | \$581,000 | \$1, 461, 250 | 7, 558,960 |
| 1920 | 35, 148, 109 | 2, 926, 863 | 910,000 | ${ }^{2} 4,770,000$ | ${ }^{2} 680,000$ | 3, 815, 922 |
| 1921 | 17, 255, 198 | ${ }^{3} 583,431$ | 910,000. |  | 910,000 | 1,622, 481 |
| 1922 | 15, 720, 716 | 321, 270 | 910, 000 |  | 910, 000 | 1, 317, 373 |
| 1923 | 18,587,952 | 634, 633 | 910,000 |  | 910,000 | 1,042,007 |
| 1824 | 16,994, 159 | 147, 711 |  |  |  | 1,189, 718 |
| 1925. | 22,302, 155 | 2, 793, 673 | 804,909 |  | 804, 809 | 3,678, 482 |
| 1926 | 26, 356, 765 | 3,817, 429 | 4 1, 592, 318 |  | 1,592,318 | 4, 603, 593 |
| 1927 | 22, 130, 546 | 4, 574, 622 | 734,909 | 742, 227 | 1,477, 136 | 6, 429,100 |
| 1928 | 25, 542, 696 | 5, 091, 833 | 734, 954 | 752, 196 | 1, 487, 150 | 8,355, 615 |
| 1929 | 27, 646, 234 | 3, 252, 528 | 729, 444 | 859, 242 | 1, 588, 686 | 12, 717,996 |
| 1930 | 24, 786, 691 | 2, 639,091 | 712, 775 | 1,158, 128 | 1, 870,903 | 13, 015,451 |
| 1931 | 13, 017, 524 | ${ }^{3} 23,618$ | 712,775 | 577, 020 | 1,289, 795 | 10, 686, 181 |
| 1932 | 4, 455, 256 | ${ }^{8} 2,174,112$ | 712,775 |  | 712,775 | 7, 798, 821 |
| 1933 | 4, 611, 848 | ${ }^{3} 1,463,724$ | 407. 300 |  | 407, 300 | 6, 057, 570 |
| 1934 | 8, 586, 233 | 3 208, 664 | 407, 300 |  | 407. 300 | 5, 429, 588 |
| 1935 | 17, 036, 934 | 2,447,618 | 407, 300 |  | 407, 300 | 7, 439, 034 |
| 1936 | 21,905, 648 | 3, 296, 800 | ${ }^{5} 1,629,200$ | 766, 745 | 2, 395, 945 | 8, 338, 575 |
| 19376 | 30, 072, 945 | 4, 275, 574 | 534, 581 | $1,150,716$ | 1,685, 297 | 9, 928, 853 |
| Total 1919 | 384, 865,447 | 34, 685, 678 | 14,640,790 | 11,357, 274 | 25, 998, 064 |  |

[^95]Table 18 shows that the company's net salcs amounted to $\$ 384,865,447$ for the 19 years 1919 to 1937, inclusive. During this period, net income, after providing for all costs and expenses of doing business, including Federal income and profits taxes, aggregating $\$ 34,685,678$. During the same period, dividend payments amounted to $\$ 25,998,064$, so that there was a net increase in surplus of $\$ 8,687,614$. Surplus was further increased by an amount of $\$ 3,399,312$, representing the difference between the par value and proceeds from sale of common stock, and the difference between the par value and cost of preferred stock reacquired and canceled. The total increase in surplus was, therefore, $\$ 12,086,926$. During the period, charges to surplus of $\$ 8,418,801$, representing principally appropriations for reserves, accounted for a net increase in surplus between 1919 and 1937 of $\$ 3,668,125$.

Of the dividend payments of $\$ 25,998,064$, during the years 1919 to 1937, inclusive, $\$ 14,640,790$ represented cash dividends paid on preferred stock at the rate of 7 percent per annum, and $\$ 11,357,274$ represented dividends in cash and in stock on common stock. Of this latter amount, $\$ 3,900,000$ was distributed as a stock dividend on common stock in 1920. In 1919, dividends of 7 percent on common stock were paid in Liberty Loan bonds, amounts of less than $\$ 50$ being paic in cash. In addition to the stock dividend, paid in 1920, a cash dividend of 10 percent was paid on the common. No dividends ou the common were paid thereafter until 1927, when 6 percent in cash was paid. Cash dividends on the common stock were paid at this rate during each of the years 1928 to 1931, inclusive. No dividends on the common were paid thereafter until 1936, when 4 percent was paid. In 1937, the cash dividends on common stock were paid at the rate of 6 percent.

The difference between the net sales and net income for the year, as shown in the preceding table, is accounted for principally by the cost of goods manufactured and sold and the distribution and administrative expenses.

The following table 19 shows the ratio per dollar of net sales, of cost of goods sold, gross profit on the sales, distribution and administrative expenses, and net profits. These ratios are given for each of the years 1927 to 1937, inclusive, and show the trend during that period of costs and expenses in relation to sales, and their effect on profits.

Table 19.-Summary of income and expenses per dollar of net sales for J. 1 . Case Co, ${ }^{1}$ 1927-97

|  | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales-total amounts. | \$22, 130, 546 | \$25, 542, 696 | \$27, 646, 234 | \$24, 786, 691 | \$13, 017, 524 | \$4, 455, 256 |
| Net sales <br> Cost of goods sold | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 54.05 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 53.55 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 59.39 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 60.46 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 68.22 \end{aligned}$ | $\begin{aligned} & \text { Cents } \\ & 100.00 \\ & 85.81 \end{aligned}$ |
| Gross proft on sales --- | 45.95 | 46. 45 | 40.61 | 39.54 | 31.78 | 14. 19 |
| tive expenses...........-- | 23.65 | 25.36 | 27.71 | 28.84 | - 36.95 | 78.67 |
| Net profit on sales....-. -- | 22. 30 | 21.09 | 12.90 | 10.70 | ${ }^{3} 5.17$ | ${ }^{3} 64.48$ |
| Other income (net).....-...-....-- | 3. 10 | 3.23 | 3.04 | 3.24 | 5.83 | 17.33 |
| Net profit applicable to farm-machinery business. | 25. 40 | 24: 32 | 15. 94 | 13.94 | . 66 | ${ }^{3} 47.15$ |
| Income from outside investments. |  |  | ${ }^{8} .01$ | 3.01 | 3.04 | ${ }^{8} .25$ |
| Net profit applicable to total investment. Interest on borrowed money | 25.40 .21 | 24.32 .27 | 15.93 1.63 | $\begin{array}{r} 13.93 \\ .86 \end{array}$ | .62 .80 | $\begin{array}{r} 37.40 \\ 1.40 \end{array}$ |
| Net profit applicable to stockbolders' investment | 25.19 | 24.05 | 14.30 | 13.07 | 3.18 | ${ }^{3} 48.80$ |
| Provision for Federal income and profits taxes. | 4. 52 | 4.11 | 2. 53 | 2.42 |  |  |
|  | 20.67 | 19.94 | 11.77 | 10.65 | ${ }^{3} .18$ | ${ }^{3} 48.80$ |

[^96]Tablee 19.-Summary of income and expenses per dollar of net sales for J. $I$. Case Co., 1927-37-Continued

${ }^{3} 10$ months only due to change from calendar to fiscal year basis.
s Denotes loss.
The sales of farm implements and machines and sales of replacement parts constitute the two main classes of the company's sales. For certain years, namely $1929,1932,1933,1935$, and 1936 segregations were made of the sales, and it was founl that for these years sales of farm implements and machines averaged 85.16 percent of the total net salcs, and replacement parts averaged 14.80 percent of the total. The proportions of each class of sales to the total are as follows for each year:

Net sales

| Year | Farm implements and machines | Replacement parts | rotal net sales | Year | Firm :mploments and maclines | $\begin{gathered} \text { Replace- } \\ \text { ment } \\ \text { parts } \end{gathered}$ | Total net sales |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1929 | Percent 86.45 68.25 | Percent 13. 55 31.75 | Percent 100 100 | 1936. | $\begin{aligned} & \text { Precent } \\ & 89.31 \end{aligned}$ | Percent 10.69 | Percent 100) |
| 1933 | 69.78 | 30. 22 | 100 | Average | 85. 16 | 14.84 | 100 |
| 1935 | 86. 33 | 13.67 | 100 |  |  |  |  |

Of the total farm implements and machines sold during the 5 years, it was found that an average of 73.15 percent was sold in the United States, 6.63 percent in Canada, and 20.22 percent in other foreign countries. For the replacement parts an average of 71.14 percent was sold in this country, 9.45 percent in Canada, and 19.41 percent in other foreign countries.

Based upon total sales by all manufacturers in 1936, it is of interest to note that J. 1. Case Co. produced and sold nearly $5 \frac{1}{2}$ percent of the total sales of farm implements and machines in the United States, and manufactured and sold nearly 11 percent of the total sales in the export tield.

## Minneapolis-Moline Power Implement Co.

This company was organized under the laws of Delaware on March 30, 1929, for the purpose of acquiring the assets, subject to the liabilities, of Minneapolis Steel \& Machinery Co., organized in 1902; Minneapolis Threshing Machine Co., organized in 1887; and Moline Implement Co., organized in 1865.

Altholigh no one of the three acquired companies manufactured a complete line of farm implements and machines, their combined operations represented a
practically complets line. Prior to the merger, each of the companies manufactured in its respective plants a partial line, which upun morger, naturally presented a situation of duplications of operations to some extent. With the menging of the three companies, the three plants were contirued in operation, and through coordination, the duplication of operations was eliminated. Thus, operations of the Minneapulis plant, formerly belonging to Minneapolis Steel \& Machinery Co., were limited, in general, to production of tractors and power mowers, the fabrication of structural steel, and the performance of miscellaneous nechanical contract work. The Hopkins plant, formerly belonging to the Minneapolis Threshing Machine Co., assumed the heavy line of implements, such as harvesters, threshers, grain drills, hammer mills, headers, and combines. The Moline plant, formerly belonging to the Moline Implement Co., was devoted to the manufacture of the light line of implements.

In the merger, common and preferred stocks were issued for the net assets of the predecessor companies, to retire, or provide funds for the retirement of, the outstanding stocks and certain of the indebtedness of these companies. There appears to have been no appreciation in asset values as a result of the merger, the only change being an inerease of $\$ 162,544.82$ in cash, through sale of stocks. This is indicated by the following tabulation, which comprises the stockholders' equity before and after merger, and accounts for the increase.

$\$ 11,000,000$
No-par-value common stock, 700,000 shares, assigned value. -
$6,363,123$

| Total capital stock | 17, 363, 123 |
| :---: | :---: |
| Surplus | 3, 601, 339 |
| Stockholders' equity | 20, 964, 462 |

Before merger (predecessor companies):

| Preferred stock | 3, 439, 950 |
| :---: | :---: |
| Common stock. | 6, 458, 280 |



Stockholders' equity ................................................... $16,187,203$

Accounted for as follows:
Liquidation of current indebtedness of predecessors _-.....-.-- $\quad 2,073,714$
Retirement of other obligations of predecessors-.......--...-. $1,041,000$
Retirement of bonds of Minneapolis Steel \& Machinery Co_... 1,500, 000
Additional cash.
162,545

> Total
> 4, 777, 259

All of the preferred stock of the new company, and 20,000 shares of its common stock, together with 10,000 shares of common stock of Minneapolis Steel \& Machinery Co., were sold for $\$ 10,600,000$. Of these proceeds, $\$ 4,777,259.32$ were used as accounted for above, $\$ 3,439,950$ were used to retire preferred stocks of predecessors, $\$ 2,000,000$ were used in part payment for assets of Moline Implement Co., and $\$ 382,791$ were used in payment of acorued dividends and premiums in retirement of preferred stocks, and expenses of merger, etc.

In addition to the 20,000 shares common stock sold for cash, the new company issued 120,000 shares oommon stock to Moline Implement Co., 240,000 shares of common stock to Minneapolis Threshing Machine Co., and 320,000 shares of common stock to Minneapolis Steel Machinery Co., in part payment of assets acquired. This accounts for the issue of all of the 100,000 shares of preferred stock and 700,000 shares of common stock issued by the new company at organization.

The common stocks issued to the varlous predecessor companies, in turn, were distributed by them to their stockholders on the basis of 4 shares for each share of outstanding common stock in the case of Moline Implement Co., 12 shares for each share of outstanding common stock of Minneapolis Threshing Machine Co., and 2 shares for each share of outstanding common stock of Minneapolis

Steel \& Machinery Co. In addition, the $\$ 2,000,000$ in cash received by Moline Implement Co. in part payment of assets was distributed by that company to its stockholders on a pro rata basis in the form of a dividend.

The reduction of $\$ 2,687,634$ in surplus during the merger is accounted for as follows:
Difference between stated value of $\$ 11,000,000$ of prefeired stock of new company and proceeds from sale
$\$ 1,600,000$
Surplus capitalized by transfer to capital stock account of new company

1, 622, 920
Payment for dividends and premiums in retirement of preferred stocks of predecessor companies and expenses of merger, etc

382, 791
Total
$3,605,711$
Less amount realized in excess of par value in sale of 10,000 shares Minneapolis Steel \& Machinery Co. common stock

500, 000
Amount realized in excess of stated value in sale of 2,000 shares common stock of new company 418, 077

Total 918, 077

Decrease in surplus
2, 687, 634
The rates of return for Minneapolis-Moline Power Implement Co. have been computed on three bases of investments: namely, the total investment, the stockholders' investment, and the investment in the farm machinery business. The total investment consists of the capital stocks outstanding, borrowings, surplus and surplus reserves, and reserve for Federal income taxes. The same items comprise the stockholders' investment, except for borrowings; and the investment in the farm machinery business consists of the total investment, from which was deducted the investment in the company's structural steel business, abandoned properties, and securities of other companies.
The earnings used to compute the rates of return on the total investment represent the net income from all sources before deducting interest on borrowings, and before providing for Federal income taxes. To compute the rates of return on the stockholders' investment, the net income, after deducting interest, but before providing for Federal income taxes, was used. To obtain the rates of return on the investment in the farm machinery business, the net income, before including any income or losses from property not used in the business, and before deducting interest on borrowings and provisions for Federal income taxes, was uṡed.

The following table shows for each of the years 1929 to 1937, inclusive, the investments, profits, and rates of return applicable to the total investment, the stockholders' investment, and the investment in the farm machinery business. Insofar as could be determined, the investment on each of the three bases reflects the actual investment in assets.

Table 20.-Summary of investments, profits, and rates of return for MinneapolisMoline Power Implement Co., 1929-87

|  |
| :---: | ---: | ---: | ---: |

i Investments averaged at beginning and end of year, except for borrowed money which was averaged monthly.
${ }^{2}$ Not available for 1937.
3 Before provision for Federal income and profits taxes.
4 Denotes loss.
d 10 months only due to change from calendar to fiscal year basis.

Table 20 shuws that for the 9 years, 1929 to 1937, inclusive the losses exceeded the profits on each of the three bases of investment, resulting in an annual average loss of 0.3 percent on the total investment, 0.54 percent on the stockholders' investment, and 1.66 percent on the investment in the farm machinery business. The trend in earnings was steadily downward between 1929 and 1932, after which there was gradual improvement until 1936 when rates of return were higher than in any year during the period

The accumulated losses during the depression years accounted principally for the decline in the company's surplus from $\$ 2,378,508$, at the end of 1929 , to a deficit of $\$ 3,112,197$, at the end of 1937 . No dividends on the common stock were paid during this period, and full dividends on the preferred stock were paid only in the years 192y, 1930, and 1937. Partial dividends on the preferred stock were paid in 1931 and 1936, and no dividends were paid during the years 1932 to 1935, inclusive. Altogether, $\$ 2,313,038$ in dividends was paid on the preferred stock. At the end of 1937, the company was in arrears in dividends in the amount of $\$ 3,356,250$ on the preferred stock.

Both the common and preferred stocks have voting rights under certain conditions. Whenever four quarterly dividends become in arrears on the preferred stock, the entire voting power is vested in the preferred stock until such time as all dividends then in default shall thereafter be paid, after which the preferred stock shall be divested of such voting power, and it shall thereupon vest in the common stock as before.

The company's net sales of farm implements and machines aggregated $\$ 56,572,413$ from the time of its organization in 1929 to the end of 1936, as follows:

| Year: | Net Sales | Year-Continued. | Net Sales |
| :---: | :---: | :---: | :---: |
| 1929 | \$14, 631, 984 | 1934 | \$3, 571, 224 |
| 1930 | 11, 679, 347 | 1935 | 8, 048, 362 |
| 1931 | 4, 234, 829 | 1936 | 10, 419, 474 |
| 1932 | 2, 087, 567 |  |  |
| 1933 | 1, 899, 626 | Total | 56,572, 413 |

As indicated previously, Minneapolis-Moline Power Implement Co. was primarily engaged in the manufacture and sale of farm implements and machines, but was also engaged, to some extent, in fabricating and distributing structural steel, which sales are not included above. For certain years: Namely, 1930, 1932, 1933, 1935, and 1936, segregations were made of the sales, and it was found that the sales of farm implements and machines and repair parts were equal to 86.02 percent of the total sales for those years, while sales of structural steel were equal to 13.98 percent of the total sales.

Of the sales applicable to the farm machinery business, during the 5 years enumerated above, 84.81 percent represented sales of farm implements and machines, while 15.19 percent represented sales of repair parts for farm machinery. As the total volume of sales declined in 1932 and 1933, the proportion of sales of repair parts to the total was increased. The comparisons for each year are as follows:

## Net sales



The farm implements and machines and replacement parts were sold in the United States, Canada, and other foreign countries. During the 5 years referred to, the sales of farm implements in the United States averaged 84.75 percent of all of the company's sales of farm implements and machines, and the sales of repair parts for farm machinery in the United States represented 82.55 percent of the total sales of replacement parts.

## B. F. Avery \& Sons Co.

This company was incorporated in Kentucky in 1877, under the name of B. F. Avery \& Sons, Inc., as a manufacturer of plows and tillage implements. It was reorganized in 1932, at which time the present company, B. F. Avery \& Sons Co. was organized to take over the properties and continue the manufacturing business of B. F. Avery \& Sons, Inc. About 2 years later it took over the properties of B. F. Avery \& Sons Plow Co., a distribution subsidiary of B. F. Avery \& Sons, Inc.

From 1877 to 1918 the Avery interests continued to manufacture plowing and tillage implements mainly of the type used in the South. In 1918 it acquired the Champion lines of harvesting and haying machines from International Harvester Co. Since that date it has manufactured practically a full line of farm implements and machines except that it makes no tractors or manure spreaders. Its clistribution is carried on partly through 4 of its own sales branches and 12 domestic jobbers, and partly through an arrangement with the Allis-Chalmers Manufacturing Co. whereby certain implements are sold to the latter company for sale and use with Allis-Chalmers tractors in the United States and South America.

Rates of return on the investment of B. F. Avery \& Sons Co. for each of the years 1927 to 1936, inclusive, are presented in table 21 which follows. The rates of return have been computed on three bases of investment, namely, the total investment, the stockholders' investment, and the investment in the farmmachinery business. The total investment consists of the company's capital stock outstanding, surplus, surplus reserves, reserve for Federal income taxes and borrowed money. The stockholders' investment consists of the same items except borrowings. The investment in the farm-machinery business consists of the total investment less investments in real estate not used in the farm-machinery business, and some stock of another company.

The earnings used to compute the rates of return on the total investment consist of the net income from all sources before deductions for interest on borrowed money and provisions for Federal income taxes. The earnings used to compute the rates of return on the stockholders' investment consist of the net income after deductions for interest on borrowed money, but befure provisions for Federal income taxes. The earnings used to compute the rates of return on the investment in the farm-machinery business consist of the net income before income from outside investments and before deductions for interest on borrowed money and provisions for Federal income taxes.

The company's accounting records in recent years have been kept on the basis of the fiscal year ending June 30. For the purpose of presenting the information of investments, profits, and rates of return, such information for the fiscal year ending in each year was considered as of the previous calendar year. For example, information for the year ending June 30, 1937, was considered as applying to the year 1936, and so on, for each of the prior years in the series. This was done in order that the information might be comparable with similar information for other companies during those years.

Table 21.-Summary of investments, profits, and rates of return for B. F. Avery \& Sons Co., 1927-36

|  |  |
| :--- | :--- | ---: | ---: | ---: | ---: |

${ }^{1}$ Average investments beginning and end of year, except for borrowing which were averaged monthly.
${ }^{2}$ Before provision for Federal income and profits taxes.
3 Denotes loss.
Table 21 shows that the annual average rates of return for the 10 -year period were 1.11 pereent on the total investment and on the investment in the farmmachinery business, and a loss of 1.18 pereent on the stockholders' investment. Rates of return on each of the three bases of investment were highest in 1936 and lowest in 1931. The trend in rates of return on each of the three bases was generally the same, increasing in 1928 as compared with 1927 and decreasing in each year thereafter until 1931, when the trend was reversed. Although losses were sustained in 1932, they were considerably less than in 1931. Continued improvement is reflected in each of the following years, particularly for the year 1936.

Information concerning this eompany's operations is available as far baek as the year 1913. Such information reveals that on the whole ihis company's operations have been fairly profitable from 1913 through 193f. From 1913 to 1918, inclusive, the average rate of return on the total investment was 11.30 percent and from 1919 to 1926 , inclusive, it was 4.89 percent. The annual average return was 4.89 percent for the period 1913 to 1926 , inclusive, and for the years 1913 to 1936, inclusive, it was 4.26 percent. The investments, profits and rates of return for each of the years 1913 to 1926, inclusive, are as follows:

| Year | Total investmont : | Net profit applicable to total investment ${ }^{2}$ | Rates of retura |
| :---: | :---: | :---: | :---: |
| 1913 |  |  | Percent |
| 1915 | -3, $3,198,699$ | \$223, 049 | 7.06 |
| 1916. | 3, 519,853 | 291,604 39,916 | 9.12 |
| 1917. | 3, 411, 028 | 261, 179 | 7. 66 |
| 1918. | 3,450, 577 | 482, 310 | 13. 98 |
| Annual aver | 4, 190,573 | 1,067, 111 | 25.46 |
| 19 | 3, 488, 334 | 394, 028 | 11. 30 |
| 1920 | 4, 539, 027 | 978, 194 | 21.55 |
| 1921 | 6, 347, 522 | 1,185, 123 | 18.67 |
| 1922. | 7; 078,313 | ${ }^{3} 229,065$ | ${ }^{3} 3.24$ |
| 1924 | $5,889,894$ $5,560,368$ | ${ }^{3} 751,692$ | ${ }^{3} 12.76$ |
| 1925 | 5,933, 330 | 147, 194 | 2. 65 |
| 1926. | 6,266, 567 | 259, 406 | 5. 96 |
| Annual average, 1919-26 | 6,264, 892 | 400,654 | 4. 14 6.40 |
|  | 5,984, 989 | 292,920 | 4.89 |

${ }^{1}$ Average of investment at beginning and end of year.
${ }_{3}^{2}$ Before Federal income and profits taxes.
${ }^{3}$ Denotes loss.
At the beginning of 1927 the company's surplus amounted to $\$ 312,517$, and at the end of 1936 it amounted to $\$ 1,274,943$. The fact that there was an increase in surplus despite the heavy losses sustained during the depression years, is accounted for by a credit to surplus in 1932 of $\$ 4,675,435$ as a result of the reorganization previously referred to, whereby capital stock of the amount of $\$ 611,165$ of the reorganized company was issued in exchange for the outstanding common and preferred stocks of the predecessor company of the par value of $\$ 5,286,600$. The credit to surplus of the amount referred to wiped out the accumulated deficit at the time of reorganization. During this period the company paid no dividends on its common stock, but did pay dividends during the years when preferred stock was outstanding. A total of $\$ 650,650$ in dividends on preferred stock was paid during the 10 years.

During the 10 years, 1927 to 1936, inclusive, the company's net sales aggregated $\$ 30,765,132$ as follows:

Year:

|  | Net sales |
| :---: | :---: |
| 1927 | \$4, 952, 135 |
| 1928 | 6, 708, 314 |
| 1930 | 6, 180, 117 |
| 1931 | 1, 156,214 |
| 1932 | 1, 557,739 |

An analysis of sales for the years 1928, 1931, and 1934 to 1936 , inclusive, disclosed that domestic sales accounted for apprond 1934 to 1936, inclusive, disgross sales for the 5 years. The analysis also indicated that replacem the tal for farm machinery constituted an important part of the compeplacement parts ing the 5 years, sales of farm implements and part of the company's sales. "Dur60.17 percent of the total United States and machines in this country averaged 39.83 percent of the total. The following tales, while replacement parts averaged class of sales to the total sales for each of the 5 years:

Gross sales

| Year | Farm :mplements and machines | Replacement parts | Total United States sales |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1928 \\ & 1931 . \\ & 1934 \\ & 1935 \\ & 1936 \end{aligned}$ | Percent <br> 69.17 <br> 31. 49 <br> 52. 25 <br> 54.28 62.26 | $\begin{aligned} & \text { Percent } \\ & 30.83 \\ & 68.51 \\ & 47.75 \\ & 45.72 \\ & 37.74 \end{aligned}$ | Percent <br> 100 <br> 100 <br> 100 <br> 100 |
|  | 60.17 | 39.83 | 10. |

## Oliver Farm Equipment Co.

This company is the successor, by reorganization in 1929, to the Oliver Chilled Plow Works, the manufacturing activities of which were established in 1855 by James Oliver to manufacture chilled cast-iron plows. Prior to 1929 the manufacturing efforts of the Oliver Chilled Plow Works were confined to horse-drawn and tractor-drawn plows and tillage implements. The formation of the new company was part of a plan to expand and lengthen the Oliver line. In accordance with this plan, Oliver Farm Equipment Co. acquired the net assets of the following companies, in addition to those of the predecessor, Oliver Chilled Plow Works: Nichols-Shepard Co. (threshing machines); Hart-Parr Co. (makers of one of the oldest tractor lines); American Seeding Machine Co. (grain drills and seeders); and MacKenzie Manufacturing Co. (potato machinery).

Net assets amounting to $\$ 33,516,580$ were acquired by Oliver Farm Equipment Co. from the five predecessor companies for $\$ 9,775,055$ in cash, together with 480,762 shares of convertible participating stock and 346,170 shares of common stock, to which a value of $\$ 23,741,525$ was assigned.
In addition, an amount of $\$ 20,625,652$ in cash was realized from the sale to bankers of 200,000 shares of prior preferred stock, 31,028 shares of convertible participating stock and 15,014 shares of common stock, all of no par value. Of the amount realized, $\$ 9,775,055$ was used in part payment for the assets of predecessor companies and the remainder was used to liquidate liabilities of those companies which were assumed by the new company, and for other corporate purposes.
Table 22, which follows, summarizes the investments, profits, and rates of return for Oliver Farm Equipment Co. from the time of its organization in 1929 through 1937. The rates of return are computed on three bases, namely, the total investment, stockholders' investment, and investment in the farm-machinery business.

The investments include an undetermined amount of appreciation in the recorded value of the assets acquired by Oliver Farm Equipment Co. from HartParr Co., one of the predecessors. It appears that an appraisal was made of the properties of Hart-Parr Co. in 1927, as a result of which the property was appreciated in value $\$ 1,076,130$. It is understood that the original amount of appreciation has been depreciated each year since, but the details are not available, and therefore no adjustment is made to eliminate any appreciation from the investments. In any event the rates of return presented in the following table would not be materially affected by the deduction of all or any part of the original appreciation:
Table 22.-Summary of investments, profits, and rates of return for Oliver Farm Equipment Co., 1929-37

\begin{tabular}{|c|c|c|c|}
\hline \& \begin{tabular}{l}
Total \\
investment
\end{tabular} \& Stockholders'
investment investment \& Investment in farmmachinery business \\
\hline A verage investments: 1 \& \$37, 742,980 \& \$37, 108, 084 \& \$37, 631, 194 \\
\hline 1930 \& 46, 259, \& 33, 58 \& 45, 932, 854 \\
\hline 1931 \&  \& \({ }_{25,227,637}^{28,541}\) \& 36, 596, 237 \\
\hline 1932 \& 31, 320, 614 \& 21, 720, 198 \& 29, 774,594 \\
\hline 1934 \& - \({ }^{25,956,189}\) \& +17, \(\begin{aligned} \& 1721,2888 \\ \& 14\end{aligned}\) \& 21, 542, 567 \\
\hline \({ }_{1936}^{1935}\) \& 23, 29\%, 811 \& 14,484, 817 \& 22, 735, 385 \\
\hline \& 24, 134, 591 \& 17,534.591 \& --------- \\
\hline Annual averase \& 32, 441, 809 \& 23, 367, 895 \& 32,750; \(81 \times\) \\
\hline Profits: \({ }^{\text {? }}\) \& \& \& \\
\hline \& \({ }^{3} 2,735,737\) \& 32, 704, 138 \& 3, 742,794 \\
\hline 1930
1931 \& 15, 875 \& 889, 342 \& 63,422 \\
\hline 1932 \& \(4,571,644\)

4
456,601 \& 4, $4,309,548$ \& -3, 468,093 <br>
\hline 1934 \& - $2,252,68.5$ \& $42,679,471$ \& <br>
\hline 1935 \& - 554,263 \& + 939, 812 \& <br>
\hline 1936 \&  \& 2, 582,763 \& ${ }_{(5)}{ }^{\text {c }}$ <br>
\hline Annual average \& 4 128,438 \& 6 624,027 \& 4 454,710 <br>
\hline
\end{tabular}

See cootnotes at end of table.

Table 22.-Summary of investmente, profits, and rates of return for Oliver Farm Equipment Co., 1929-97-Continued

|  | Total <br> investment | Stockholders' investment | Investment in farmmachinery business |
| :---: | :---: | :---: | :---: |
| Rates of return: | Percent 7.25 | Percent 7. 29 | Percent |
| 1930 | 1. 32 | . 12 | 1. 35 |
| 1931 | . 04 | 43.12 | . 15 |
| 1932 | 4.9.54 | ${ }^{+17.08}$ | 49.48 |
| 1933 | 4. 7.84 | 413.88 | 17.87 |
| 1934 | 18.68 | 415.23 | 18. 57 |
| 1935 | 4. 2.50 | 46.47 | 4.2.44 |
| 1936 | 5. 81 | 6. 27 | (8) 6.12 |
| 1937 | 12. 28 | 14.62 | (8) |
| Annual av | 4. 40 | 4. 2.67 | '1.39 |

${ }^{1}$ Investments averaged at beginning and end of year, except for borrowed money which was averaged monthly.
${ }^{3}$ Before provision for Federal income and profits taxes.
${ }^{3}$ Includes earnings of predecessor companies from Jan. 1, 1929, to dates of acquisition.
4 Denotes loss.
s Not available for 1937.
Table 22 shows that for each of the three bases of investment, losses exceeded profits for the 9 years 1929-37, and the annual average rates of loss on the investment were 0.40 percent on the total investment, 2.67 percent on the stockholders' investment, and 1.39 percent on the investment in the farm-machinery business. The trend in earnings was downward between 1929 and 1932 and upward thereafter.

It will be noted that there was a considerable decline in investments during the period. Between 1930 and 1935, the average of the total investment declined from $\$ 46,259,415$ to $\$ 22,141,096$, a decrease of $\$ 24,118,319$. This decrease of more than 50 percent is accounted for principally by average decreases of \$9,177,498 in capital stocks outstanding, $\$ 5,054,770$ in borrowings and $\$ 9,761,051$ in surplus.

For the 9 years, 1929-37, all costs and expenses of doing business including Federal income and all other taxes exceeded income by $\$ 6,557,971$. This net loss, together with dividend payments of $\$ 3,751,864$ on preferred stock and other net charges to surplus of $\$ 9,096,941$, representing principally appropriations for reserves, account for total charges to surplus during the period of $\$ 19,406,776$. This ecndition led to a plan of recapitalization whereby the outstanding preferred and common stoeks were exchanged in 1935 for a new issue of no-par value com mon stock, resulting in a reduction in stated value of capital stock of $\$ 17,222,292$ which was credited to surplus. Thus the net charge to surplus during the period was $\$ 2,184,484$. This amount when deducted from the surplus of $\$ 8,116,832$ at the beginning of the period accounts for the surplus of $\$ 5,932,348$ at December 31, 1937, of which $\$ 3,077,951$ represented capital surplus and $\$ 2.854,397$ represented earned surplus at that date.

Sales during the 9 years aggregated $\$ 138,227,913$ and were as follows for each year:

| Year: | Net vales | Year: | Net sales |
| :---: | :---: | :---: | :---: |
| 1929 | \$27, 437, 973 | 1935 | \$11, 812, 927 |
| 1930 | 23, 705, 663 | 1936 | 18, 171, 169 |
| 1931. | 15, 100, 933 | 1937 | 26, 206. 911 |
| 1932 | 4, 349, 251 |  |  |
| 1933 | 4, 196, 275 |  | 138, 227, 913 |

The sales included only farm implements and repair parts, most of which had been manufactured in the company's plants, but part of them had been purehased from other manufaeturers for resale by the company. An analysis of sales for 1932, 1933, 1935, and 1936 developed that over 91 percent of the total sales for those years were of products of the company's own manufacturr.

## The Massey-Harris Co.

This company was incorporated on March 1, 1928, as a wholly owned subsidiary of Massey-Harris Co., Ltd., of Toronto, Canada. The latter company was organized in 1892 by consolidation of the separate businesses founded in 1840 , in Canada, by Daniel Massey and John Harris. After manufacturing a varied line of farm implements and machines in Canada for many years, the Canadian company began operations in the United States in 1910, by acquiring control of Johnston Harvester Co. From that time until 1928, a limited number of farm implements and machines was manufactured in the United States by that company and its successor, Massey-Harris Harvester Co. By the acquisition in 1928 of the J. I. Case Plow Works, makers of plow and tillage implements, and the addition of other impleme, 1 ts to its line, the American company became a longline company, distributing through six important wholesale branch houses and 14 subbranches selling to jobbers and dealers in the United States.

At the time of organization in 1928, the Massey-Harris Co. acquired the net assets of Jı I. Case Plow Works from the holding company, Massey-Harris Co., Ltd., for a total consideration of $\$ 2,957,806$, consisting of $\$ 1,262,500$ of its capital stock and the assumption of $\$ 1,695,306$ of liabilities of the J. I. Case Plow Works. The new company recorded the plant and equipment so acquired at an amount of $\$ 1,587,488$ in excess of cost, and credited the appreciation to capital surplus account.

As of May 31, 1928, the Massey-Harris Co. acquired from the holding company the net assets of Massey-Harris Harvester Co., under which the holding company's United States operations had been conducted prior to the formation of the MasseyHarris Co. The net assets acquired amounted to $\$ 8,193,938$, for which the new company issued its capital stock of the par value of $\$ 2,750,000$, and became obligated to Massey-Harris Co., Ltd., for $\$ 5,432,674$. The difference of $\$ 11,264$ between the value of the assets acquired and the consideration given was recorded as an addition to surplus by the Massey-Harris Co.

Table 23, which follows, summarizes the investments, profits or losses, and rates of profit or loss on investment for the Massey-Harris Co. for each of the years 1927 to 1936 , inclusive. The information for the year 1937 is not available. For the other years the information applies to the operations of the Massey-Harris Co., the domestic company, and not to operations of Massey-Harris Co., Ltd., the Canadian holding company.

The rates of return have been computed on the total investment and the stockholders' investment. The total investment consists of the capital stocks outstanding, surplus, surplus reserves, and borrowed funds. The borrowings were deducted from the sum of these items to obtain the stockholders' investment. The earnings used to compute the rates of return on the total investment represent the net income from all sources before deducting interest on borrowed funds. The earnings applicable to the stockholders' investment represent the net income from all sources after deducting interest on borrowed funds.

The appreciation of $\$ 1,587,487$ in plant and equipment was reduced from year to year thrcugh property retirements and accruals for depreciation. The net amount of appreciation in each year was deducted from the investments in computing rates of return.

Table 23.-Summary of investments, profits, and rates of return for the MasseyHarris Co., ${ }^{1}$ 1927-96

\begin{tabular}{|c|c|c|c|c|c|}
\hline \& Total invest ment \& Stockholders' investment \& \& Total investment \& Stockholders' investment <br>
\hline \multicolumn{6}{|l|}{} <br>
\hline \& \multirow[t]{3}{*}{$$
\begin{array}{r}
\$ 6,989,500 \\
8,886,783 \\
14.290,752
\end{array}
$$} \& \$2, 725, 824 \& 1933. \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 3971,426 \\
& 3837,900
\end{aligned}
$$} \& ${ }^{3} 1,085,123$ <br>
\hline 1928 \& \& 5, 159,917 \& 1934 \& \& ${ }^{3} 899,061$ <br>
\hline 1929 \& \& 8,601, 881 \& 1935 \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 8658,173 \\
& 3 \\
& 3 \\
& 150,319
\end{aligned}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
3 \\
\begin{array}{c}
307, \\
3 \\
3
\end{array} 197,192 \\
\hline
\end{array}
$$} <br>
\hline 1930 \& $14,290,752$
$14,774,586$ \& 8, 683, 986 \& 1936. \& \& <br>
\hline 1931. \& 12, 561, 719 \& \multirow[t]{2}{*}{5, 744,700} \& \multirow[t]{2}{*}{Annual average} \& \multirow[t]{2}{*}{${ }^{3} 527,724$} \& \multirow[t]{2}{*}{${ }^{3} 676,800$} <br>
\hline 1933 \& 10, 914, 224 \& \& \& \& <br>
\hline 1934 \& 7,008, 177 \& 4, ${ }^{4,1492.477}$ \& Rates of rcturn: \& Percent \& ercent <br>
\hline 1935. \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 5,693,015 \\
& 5,468,950
\end{aligned}
$$} \& \multirow[t]{2}{*}{$2,465,615$
$2,041,050$} \& \multirow[t]{2}{*}{1927-..-- --------} \& \multirow[t]{2}{*}{3 $\begin{array}{r}0.71 \\ \hline 2.05\end{array}$} \& ${ }^{3} 5.24$ <br>
\hline 1936 \& \& \& \& \& ${ }^{3} 5.57$ <br>
\hline Annual average \& 9, 529, 316 \& 5, 013, 031 \& \multirow[t]{2}{*}{1930} \& ${ }^{3} 5.614$ \& 3

3
3
12. 59 <br>
\hline \multicolumn{3}{|l|}{\multirow[b]{2}{*}{Profits or losses:}} \& \& ${ }^{3} 5.20$ \& ${ }^{3} 11.22$ <br>

\hline \& \& \& \multirow[t]{5}{*}{$$
\begin{aligned}
& 1932 \\
& 1933 \\
& 1934- \\
& 1935- \\
& 1236
\end{aligned}
$$} \& \multirow[t]{5}{*}{\[

$$
\begin{array}{r}
310.70 \\
311.16 \\
311.96 \\
311.56 \\
32.75
\end{array}
$$

\]} \& \multirow[t]{5}{*}{\[

$$
\begin{array}{r}
\begin{array}{r}
23.04 \\
3 \\
26.15 \\
327.90 \\
3 \\
27.95 \\
39.66
\end{array}
\end{array}
$$
\]} <br>

\hline 1927. \& \multirow[t]{5}{*}{$$
\begin{array}{r}
49,505 \\
181,834 \\
96,396 \\
3803,76 \\
3652,691 \\
31,167,010
\end{array}
$$} \& \multirow[t]{5}{*}{} \& \& \& <br>

\hline 1928. \& \& \& \& \& <br>
\hline 1929. \& \& \& \& \& <br>
\hline 1930. \& \& \& \& \& <br>
\hline 1932 \& \& \& Annual average \& ${ }^{3} 5.54$ \& ${ }^{3} 13.50$ <br>
\hline
\end{tabular}

[^97]Table 23 shows that losses were sustained on the stockholders' investment in every one of the 10 years, and in every year but 2 on the total investment. . The losses throughout the period resulted in annual average rates of losses on the total investment of 5.54 percent and 13.5 percent on the stockholders' investment. The accumulated losses throughout the 10 -year period resulted in a deficit for the company at the end of 1936 of $\$ 7,130,771$. The company paid no dividends during these years.

The company's sales aggregated $\$ 58,039,702$ for the 10 years, 1927 to 1936, inclusive. The net sales for each year were as follows:

| Year: | Net sales | Year-Continued. | Net sales |
| :---: | :---: | :---: | :---: |
| 1927 | \$4, 615, 687 | 1933 | \$1, 587, 592 |
| 1928 | 9, 393, 763 | 1934 | 2, 215, 882 |
| 1929 | 14.073, 883 | 1935. | 3, 093, 038 |
| 1930 | 11, 399, 130 | 1936 | 5, 197, 623 |
| 1931 | 5, 426, 361 |  |  |
| 1932 | 1, 036, 743 | Total, 1927- | 58, 039, 702 |

The company's sales included a small amount of malleable iron, in addition to its sales of farm implements and machines and replacement parts. An analysis of the sales for the years 1929, 1932, 1933, 1935, and 1936 disclosed that the sales of farm implements and machines for those years averaged 81.69 percent of the total net sales, while replacement parts averaged 15.41 percent of the total and the sales of other products, consisting largely of malleable iron, represented 2.9 percent of the total.

## Salaries and Other Compensation of Corporation Officers

Information concerning salaries and other compensation paid to officers of the principal farm machinery manufacturers was obtained from International Harvester Co., Deere \& Company, Allis-Chalmers Manufacturing Co., MinneapolisMoline Power Implement Co., Oliver Farm Equipment Co., the Massey-Harris Co., Caterpillar Tractor Co., J. I. Case Co., and B. F. Avery \& Sons Co. The information is available for only the years 1927 to 1936, inclusive.

The following table shows the total salaries and other compensation paid to officers of the principal manufacturers of farm implements and machines for each of the years 1927 to 1936 , inclusive:
Table 24.-Total salaries and other compensation paid to offcers of principal corporations engaged in manufacturing farm implements and machines, 1927 to 1936, inclusive


Table 24 shows that the total compensation paid to officers of the nine companies declined each year from $\$ 3,601,198$ in 1929 to $\$ 1,088,933$ in 1933, and then increased each year to $\$ 1,700,531$ in 1936. The decline in total compensation from 1929 to 1933 was due to declines in both total salaries and total other compensation, principally other compensation. While total compensation in 1933 was 30.24 percent of 1929 , total salaries and total other compensation were 66.45 percent and $2: 27$ percent, respectively, of 1929 . Other compensation accounted for $\$ 2,031,990$ of the total compensation of $\$ 3,601,198$ in 1929, and only $\$ 46,122$ of the total compensation of $\$ 1,088,933$ in 1933. The increase in total compensation from $\$ 1,088,933$ in 1933 to $\$ 1,700,531$ in 1936 was due to increases in both salaries and other compensation, principally salaries.

The following table shows the number of officers and the average total compensation paid to officers of principal corporations engaged in manufacturing farm implements and machines for each of the years 1927 to 1936, inclusir't, for which the information was available:

Table 25.-Number of officers and average total compensation paid to officers of principal corporations engaged in manufacturing farm implements and machines, 192 r to 1936, inclusive

NUMBER OF OFFICERS


AVERAGE TOTAL COMPENSATION PER OFFICER

| 1927 | \$142, 940 | \$31, 171 |  |  |  | \$13, 500 | \$18,259 | \$19,332 | \$11, 300 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1928. | 147, 524 | 55, 314 | \$21,435 |  |  | 13, 500 | 23, 021 | 27, 886 | 21, 437 |
| 1929 | 161, 193 | 75, 867 | 22,498 | \$17, 319 | \$19,714 | 13, 500 | 24, 394 | 24,952 | 14, 600 |
| 1930. | 124, 674 | 59, 83ヶ | 25,096 | 28,817 | 18, 551 | 13, 500 | 27, 083 | 17,994 | 10, 399 |
| 1931. | 35, 808 | 20, 787 | 21, 932 | 24, 812 | 36, 265 | 5, 556 | 26, 639 | 15,990 | 6,479 |
| 1932 | 28,952 | 15, 960 | 16,456 | 19, 986 | 35, 652 | 8,829 | 24, 341 | 13,928 | 5,955 |
| 1933 | 24, $84{ }^{\circ}$ | 14,232 | 14, 122 | 13, 832 | 27,947 | 8,283 | 21, 405 | 12, 489 | 6, 298 |
| 1934 | 26, 329 | 14, 635 | 13, 897 | 13, 729 | 25,918 | 7,972 | 19,895 | 12, 489 | 11,033 |
| 1935 | 24,307 | 16,529 | 16, 553 | 14, 139 | 16,572 | 4,573 | 23,692 | 12,062 | 13, 479 |
| 1936 | 37, 259 | 20,049 | 20,457 | 14. 649 | 16,574 | 5, 179 | 28, 364 | 16,525 | 28,938 |

[^98]Table 25 shows that International Harvester Co. paid the highest average total compensation per officer of all companies for which such data were available for the 10 -year period, except during 1931,1932 , and 1933 , when Oliver Farm Equipment Co. paid the highest average total compensation per officer. International Harvester Co. paid average total compensation per officer of $\$ 142,940$ in 1927, $\$ 147,524$ in 1928, $\$ 161,193$ in 1929 , $\$ 124,674$ in $1930, \$ 26,329$ in $1934, \$ 24,307$ in 1935, and $\$ 37,259$ in 1936. Oliver Farm Equipment Co. paid average total compensation per officer of $\$ 36,265$ in $1931, \$ 35,652$ in 1932 , and $\$ 27,947$ in 1933. Deere \& Co. paid substantial average total compensation per officer during the years 1927 to 1930 , inclusive. Such compensation was $\$ 31,171$ in $1927, \$ 55,314$ in $1928, \$ 75,867$ in 1929 , and $\$ 59,838$ in 1930.

The following tables show the salaries and other compensation paid to individual officers of International Harvester Co., Deere \& Co., Allis-Chalmers Manufacturing Co., Minneapolis-Moline Power Implement Co., Oliver Farm Fquipment Co., the Massey-Harris Co., Caterpillar Tractor Co., J. I. Case Co., and B. F. Avery \& Sons Co. for each of the years 1927 to 1936 , inclusive, for which the information was available.
Table 26.-Salaries and other compensation paid to officers of International Harvester Co., 1927 to 1936, inclusive

|  | 1027 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cyrus H. MoCormick, chalrman of board of directors: ${ }^{1}$ Salary. Other compensation | $\mathbf{\$ 1 0 , 0 0 0}$ 35,160 | $\$ 10,000$ 600 | $\$ 10,000$ 280 | $\$ 10,000$ 25,400 | $\$ 8,648$ 480 | $\$ 6,000$ 585 | $\begin{array}{r}\$ 5,144 \\ \hline 475\end{array}$ | $\$ 5,000$ 550 | $\begin{array}{r} \$ 3,750 \\ 450 \end{array}$ |  |
| Total | 45, 160 | 10,600 | 10,280 | 35,400 | 9,128 | 6,585 | 5,619 | 5, 550 | 4, 200 |  |
| Haroid F. McCormick, chairman of executive committee:? Salary Other compensation | $\begin{aligned} & 10,000 \\ & 25,160 \end{aligned}$ | 10,000 440 | 10,000 360 | $\begin{aligned} & 10,000 \\ & 25,360 \end{aligned}$ | $\begin{array}{r} 8,648 \\ 720 \end{array}$ | $\begin{array}{r} 7,568 \\ 600 \end{array}$ | $\begin{array}{r} 5,448 \\ 525 \end{array}$ | 5,000 825 | 5,000 500 | $\begin{array}{r} \$ 20,000 \\ 1,080 \end{array}$ |
| Total. | 35, 160 | 10,440 | 10,360 | 35,360 | 9,368 | 8,168 | 5, 873 | 5,825 | 5,590 | 21,080 |
| Alexander Legge, president:1 Salary <br> Other compensation............................... | $\begin{aligned} & 100,000 \\ & 253,386 \end{aligned}$ | $\begin{aligned} & 100,000 \\ & 305,909 \end{aligned}$ | $\begin{array}{r} 50,000 \\ 362,860 \end{array}$ |  | $\begin{array}{r} 63,673 \\ 480 \end{array}$ | $\begin{array}{r} 66,053 \\ 795 \end{array}$ | $\begin{array}{r} 50,384 \\ 625 \end{array}$ |  |  |  |
| Totsl. | 353, 386 | 405, 909 | 412,860 | -.---- | 64,153 | 66, 848 | 51,009 |  |  |  |
| Herbert F. Perkins, first vice president: Salary. Other compensation | $\begin{array}{r} 65,000 \\ 122,106 \end{array}$ | $\begin{array}{r} 65,000 \\ 144,091 \end{array}$ | $\begin{array}{r} 70,000 \\ 189,793 \end{array}$ | $\begin{array}{r} 75,000 \\ 177,460 \end{array}$ | $\begin{array}{r} 35,674 \\ 4,893 \end{array}$ | 315 |  |  |  |  |
| Tot | 187, 106 | 209, 091 | 259, 793 | 252, 460 | 40,567 | 315 | --- |  |  |  |
| Addis E. McKinstry, vice president: ${ }^{\prime}$ Salary. Other compensation | $\begin{array}{r} 50,000 \\ 116,885 \end{array}$ | $\begin{array}{r} 50,000 \\ 143,055 \end{array}$ | $\begin{array}{r} 50,000 \\ 186,665 \end{array}$ | $\begin{array}{r} 50,000 \\ 157,458 \end{array}$ | $\begin{array}{r} 46,388 \\ 3,904 \end{array}$ | $\begin{array}{r} 45,084 \\ 1,219 \end{array}$ | $\begin{array}{r} 48,323 \\ 662 \end{array}$ | $\begin{array}{r} 60,000 \\ 717 \end{array}$ | $\begin{array}{r} 20,000 \\ 727 \end{array}$ | $\begin{array}{r} 20,000 \\ 1,160 \end{array}$ |
| Total | 166, 885 | 193, 055 | 236,665 | 207, 458 | 50,293 | 46,303 | 42,985 | 60, 717 | 20,727 | 21, 160 |
| Henry B. Utiey, vice president: Salary Other compensation | $\begin{aligned} & 35,000 \\ & 76,433 \end{aligned}$ | $\begin{aligned} & 35,000 \\ & 77,659 \end{aligned}$ | $\begin{aligned} & 35,000 \\ & 85,496 \end{aligned}$ | $\begin{aligned} & 35,000 \\ & 45,180 \end{aligned}$ |  |  |  |  |  |  |
| Total. | 111, 433 | 112,659 | 120, 496 | 80, 180 |  |  |  |  |  |  |

[^99]Table 26.—Salaries and other compensation paid to officers of International Harvester Co., 1927 to 1936, inclusive-Continued

|  | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| George A. Ranney, vice president and treasurer: ${ }^{5}$ |  |  | \$60,000 | \$60,000 | \$55, 648 | \$49, 731 | \$14, 848 |  |  |  |
| Salary O (her compensation | 131, 295 | 152,711 | 197, 585 | 161, 440 | 2,877 | 1,201 | +14, 576 |  |  |  |
| Total | 178, 795 | 202,711 | 257, 585 | 221, 440 | 58, 525 | 50,932 | 15,424 |  |  |  |
| Cyrus McCormick, Jr., vice president: Salary | 39,500 121,168 | $\begin{array}{r} 45,000 \\ 142,340 \end{array}$ | $55,000$ | $\begin{array}{r} 55,000 \\ 154,180 \end{array}$ | $\begin{array}{r} 51,023 \\ 3,562 \end{array}$ | $4,141$ |  |  |  |  |
| Other compensation |  |  |  |  |  |  |  |  |  |  |
| Total | 160,668 | 187, 340 | 239, 833 | 209, 180 | 54, 585 | 4,828 | .-....- | - |  | ------- |
| William S. Eliott, general counsel : |  | 35, 000 | 45,000 | 45,000 | 41, 773 | 37, 359 | 31,182 | \$39, 319 | \$40, 000 | \$45,000 |
| Salary -............. | 80,735 | 101, 473 | 128,671 | 107,058 | 2, 510 | 616 |  | 537 |  | 17,730 |
|  | 113, 235 | 136, 473 | 173, 671 | 152,058 | 44, 283 | 37,975 | 31, 745 | 39,856 | 40,327 | 62, 730 |
| William M, Reay, comptroller: ${ }^{\text {a }}$ |  |  |  |  | 55, 648 | 49, 731 | 41, 457 | 42,318 | 7.053 |  |
| Other compensation. | 131,381 | 152,624 | 195, 252 | 133, 834 | 2.936 | ${ }_{57} 8$ | 32 | 16 |  |  |
|  | 178, 881 | 202, 624 | 255, 252 | 193, 834 | 58, 584 | 50,309 | 41,489 | 42,334 | 7.053 |  |
| W'm. M. Gale, secretary: Salary. | 16,000 | 16,000 | 16,000 | 16,000 | 14,948 | 13,431 | 11,303 | 12,420 | -....... |  |
| Other compensation | 25, 636 | 26,036 | 27,320 | 15, 260 | 1,090 | 188 | 104 | 10 |  |  |
|  | 41,636 | 42,036 | 43, 320 | 31.260 | 16. 038 | 13,619 | 11,407 | 12, 430 | -..--.... | - . .-. |
| William P. Kelley, comptroller: ${ }^{9}$ Salary |  |  |  | 22, 500 | 20,960 | 20.335 | 17,322 | 24,390 | 26,333 | 6,750 |
| Salary <br> Other compensation |  | 36,095 | 47.490 | 44, 560 | 1,667 | 313 | 26 | 10 |  |  |
| Total... |  | 57,348 | 69,990 | 67.060 | 22, 627 | 20,648 | 17.348 | 24, 400 | 26,333 | 6,750 |
| Sydney $\mathrm{G}, \mathrm{Mc}$ Allister, vice president: 9 |  |  |  |  |  |  |  |  | 53, 333 |  |
| Other compensation |  |  |  |  | 1,324 | 230 | 130 | 541 | 700 | 28, 175 |
| Total.. |  |  | ---- |  | 28,722 | 25. 815 | 28,091 | 38,874 | 54,033 | $\underline{9+, 812}$ |


|  |  | $\begin{aligned} & \text { ©o } \\ & \text { nos } \end{aligned}$ |  |  | $\begin{aligned} & \text { 简 } \\ & \text { nib } \end{aligned}$ | $\begin{aligned} & 8.8 \% \\ & \text { Kin } \end{aligned}$ | $\begin{aligned} & \text { M్} \\ & \text { ঞ్ర \|\| } \end{aligned}$ | $\begin{aligned} & \text { C } \\ & = \\ & = \end{aligned}$ | $\begin{aligned} & \text { 合\| } \\ & =- \end{aligned}$ |  | $\left\|\begin{array}{c} 0 \\ \infty \\ 0 \\ 0 \\ 0 \end{array}\right\|$ |  |  | $\begin{aligned} & 0.0_{0}^{\circ} \\ & \text { ה- } \end{aligned}$ | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { ஜ~~ } \\ & \underset{\AA}{\circ} \end{aligned}$ |  |  |  |  | $\begin{array}{\|c\|\|} \hline \infty \\ \\ \stackrel{\circ}{e} \\ \hline \end{array}$ | ${ }_{8}{ }_{6}$ | $\begin{aligned} & \text { Be } \\ & \text { 5 } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { œ్ } \\ & \text { ๕్ } \end{aligned}$ |  | $\begin{aligned} & \text { r } \\ & \% \\ & \text { क्ष } \end{aligned}$ | $\begin{aligned} & \stackrel{\rightharpoonup}{6} \\ & \stackrel{y}{2} \end{aligned}$ | $\begin{aligned} & \text { ్ㅜㅇN } \\ & \text { o్ㅁ } \end{aligned}$ |  | $\begin{aligned} & \text { O} \\ & \stackrel{0}{9} \end{aligned}$ | \％ |
| $$ | $\begin{gathered} 2 \\ 0 \\ 0 \\ -1 \\ \hline \end{gathered}$ | $\begin{aligned} & \check{\circ} \\ & \stackrel{\circ}{4} \\ & \text { הi } \end{aligned}$ | $\begin{aligned} & \mathscr{O} \\ & \stackrel{y}{-} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { N } \end{aligned}$ |  |  |  | $\begin{aligned} & \text { ल్స్ } \\ & \text { สij } \end{aligned}$ | $\begin{aligned} & \text { त्} \\ & \text { ́ } \\ & \text { ㅅ } \end{aligned}$ | ： |  |  |  |  |  |
| $\underset{\sim}{2}$ |  | $\begin{aligned} & \text { 管 } \\ & \stackrel{2}{2} \end{aligned}$ | $\left.\begin{array}{\|c} \text { m } \\ 0 \\ -2 \\ -1 \end{array} \right\rvert\,$ | を <br> ＝ | $\begin{aligned} & \frac{7}{8} \\ & = \\ & = \end{aligned}$ |  |  |  |  | ： |  |  | ： |  |  |
|  |  |  | 点 |  |  |  |  |  |  | ： |  |  |  |  |  |
|  |  | ＇ |  | ： |  | ： | 1 |  |  | ！ |  | ： |  | ： |  |
|  |  | $\begin{array}{c:c} \\ \vdots \\ \\ & \\ \\ \end{array}$ | II |  |  | ！ |  |  |  |  | （11 |  |  |  |  |
|  |  |  |  |  |  |  |  |  | ！ | ： | （111 |  |  |  |  |
|  |  |  |  |  |  | $\vdots$ $\vdots$ $\vdots$ $\vdots$ | ： |  | ， |  | － |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | － |  |  |

Cassius F Biggert，vice president：
Other conpensation．
Total
Arnold B．Keller，treasurer：
Salary
Other compensation．
Total．
Maurice F．Holahan，vice president：${ }^{10}$ Oher compensation．

Total
Edward A．Johnston，vice president：
Other compensation．
Total．
Alhert A．Jones，vice president：${ }^{11}$
Other compensation．
Total．
Fowler MeCormick，second vice president
Other compensation．
Total
Charles $R$ ．Morrison，vice president：
Salary．．．．．．．．．．．．．．
Other compensation．
Total．
John Morrow，Jr．，vice president：${ }^{12}$
Total．

$$
\begin{aligned}
& \text { In Alorrow, Jr., vice president: } \\
& \text { Salary } \\
& \text { Other compensation........................... }
\end{aligned}
$$

Table 26.-Salaries and other compensation paid to officers of International Harvester Co., 1927 to 1936, inclusive-Continued

|  | 1927 | 1828 | 1929 | 1830 | 1931 | 1932 | 1833 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sanford B. White, secretary: |  |  |  |  |  |  |  |  | \$11,967 | \$15, 833 |
| Salary ...........tio....-- |  |  |  |  |  |  |  |  |  | 6,700 |
|  |  |  |  | --..----- |  |  | ---- | ------- | 11,967 | $\xrightarrow{22,533}$ |
| Charles R. McDonald, vice president: ${ }^{13}$ |  |  |  |  |  |  |  |  |  | 11,527 |
| Salary .........--7io...........- |  |  |  |  |  |  |  |  |  | 7,620 |
|  |  |  | .-..-...... |  | -.-......- | .-.....-- | ....... | .-....-- | ------- | $\underline{19,147}$ |
|  |  |  |  |  |  |  |  |  |  | 15,850 8,565 |
| Other compensation... |  |  |  |  |  |  |  |  |  | 8,565 |
| Total. |  |  | -.-------- |  |  | .-.....- | , | -...-..-- |  | 24,415 |
| John P. Wllson, consulting counsel: Salary |  | \$600 | $\$ 5,000$ 400 | $\$ 10,000$ 400 | $\$ 10,000$ 720 | $\$ 10,000$ 670 | $\$ 10,000$ 450 | $\$ 10,000$ 750 | 10,000 575 | 10,000 1,080 |
| Total |  | 600 | 5,400 | 10,400 | 10,720 | 10, 870 | 10,450 | 10,750 | 10,575 | 11,080 |
| Total salaries......... | $\begin{array}{r} \$ 453,000 \\ 119,345 \end{array}$ | $\begin{array}{r} 487,250 \\ 1,283,636 \end{array}$ | $\begin{array}{r} 488,500 \\ 1,607,005 \end{array}$ | $\begin{array}{r} 448,500 \\ 1,047 ; 590 \end{array}$ | $\begin{array}{r} 438,430 \\ 27,163 \end{array}$ | $\begin{array}{r} 373,137 \\ 8,383 \end{array}$ | $\begin{array}{r} 298,837 \\ 4,317 \end{array}$ | $\begin{array}{r} 364,322 \\ 4,281 \end{array}$ | $\begin{array}{r} 382,902 \\ 3,746 \end{array}$ | $\begin{array}{r} 437,377 \\ 157,280 \end{array}$ |
| Total | ,572, 345 | 1,770,886 | 2,095,505 | 1,496,090 | 465, 593 | 381,520 | 303, 154 | 368, 603 | 386, 648 | 594, 657 |

${ }^{13}$ Elected vice president, June 1, 1938.
Table 27.-Salaries and other compensation paid to officers of Deere \& Co., 1927 to 1936, inclusive

|  | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| William Butterworth, chairman: Salary. Other compensation | $\begin{gathered} \$ 36,000 \\ 20,000 \end{gathered}$ | $\$ 36,000$ $50,000$ | $\begin{array}{r} \$ 36,000 \\ 75,000 \end{array}$ | $\begin{array}{r} \$ 36,000.00 \\ 50,040.00 \end{array}$ | $\begin{array}{r} \$ 32,850.00 \\ 60.00 \end{array}$ | \$25, 920.00 | \$23,040 | \$23, 040.00 | \$25, 920 | \$19, 800.00 |
| Total | 56,000 | 86, 000 | 111,000 | 86,040.00 | 32, 910.00 | 25, 920.00 | 23,040 | 23, 040.00 | 25,920 | 19,800.00 |
| C. D. Wiman, president: Salary Other compensation | $\begin{gathered} 20,000 \\ 20,000 \end{gathered}$ | $\begin{aligned} & 20,000 \\ & 50,000 \end{aligned}$ | $\begin{aligned} & 20,000 \\ & 75,000 \end{aligned}$ | $\begin{aligned} & 25,000.00 \\ & 50,080.00 \end{aligned}$ | $\begin{array}{r} 22,812.54 \\ 80.00 \end{array}$ | 17, 999, 92 | 16,000 | 15,999.84 | 18,000 | 24, 166. 72 |
| Total | 40,000 | 70,000 | 95,000 | 75,080.00 | 22,892. 54 | 17,999.92 | 16,000 | 15, 999.84 | 18,000 | 24, 166. 72 |
| Burton F. Peek, vice president: Salary Other compensation | $\begin{aligned} & 10,000 \\ & 10,000 \end{aligned}$ | $\begin{aligned} & 10,000 \\ & 25,875 \end{aligned}$ | $\begin{aligned} & 10,000 \\ & 24,500 \end{aligned}$ | $\begin{aligned} & 10,000.00 \\ & 16,185.00 \end{aligned}$ | $\begin{aligned} & 9,124.92 \\ & 100.00 \end{aligned}$ | 7,199.88 | 6,400 | 12,799.87 | 14,400 | 19,333. 28 |
| Total | 20,000 | 35,875 | 34,500 | 26.185.00 | 9, 224.92 | 7,199.88 | 6,400 | 12,799.87 | 14,400 | 19,333. 28 |
| Frank Silloway, vice president: Salary. Other compensation | $\begin{aligned} & 25,000 \\ & 20,000 \end{aligned}$ | $\begin{array}{r} 25,000 \\ 0,875 \end{array}$ | $\begin{aligned} & 25,000 \\ & 79,500 \end{aligned}$ | $\begin{array}{r} 30,000.00 \\ 52,330.00 \end{array}$ | $\begin{array}{r} 27,375.00 \\ 80.00 \end{array}$ | 21,600. 02 | 19, 200 | 19,200. 00 | 21,600 | 29,000. 00 |
| Total | 45,000 | 85, 875 | 104, 500 | 82, 330.00 | 27,455. 00 | 21,600. 02 | 19,200 | 19,200.00 | 21,600 | 29,000.00 |
| Floyd R. Todd, viee president Salary Other compensation | $\begin{aligned} & 5,000 \\ & 5,000 \end{aligned}$ | $\begin{array}{r} 5,000 \\ 12,500 \end{array}$ |  |  |  |  |  |  |  |  |
| Total | 10,000 | 17,500 | ----- |  |  |  |  |  | --- |  |
| T. F. Wharton, seeretary and comp Salary Other compensation | $\begin{aligned} & 20,000 \\ & 17.500 \end{aligned}$ | $\begin{aligned} & 20,000 \\ & 59.750 \end{aligned}$ | $\begin{aligned} & 20,000 \\ & 78,000 \end{aligned}$ | $\begin{aligned} & 25,000.00 \\ & 53,113.60 \end{aligned}$ | $\begin{array}{r} 22,812,54 \\ 2,487.70 \end{array}$ | 17, 999. 88 | 16,000 | 15, 999.84 | 18,000 | 24, 166.72 |
| Total | 37,500 | 79,750 | 98,000 | 78, 113. 60 | 25, 300. 24 | 17,999. 88 | 16,000 | 15, 999.84 | 18,000 | 24, 166.72 |
| C. W. Crampton, treasurer: Salary <br> Other compensation | $\begin{aligned} & 7,200 \\ & 2,500 \end{aligned}$ | $\begin{aligned} & 7,200 \\ & 5,000 \end{aligned}$ | $\begin{aligned} & 7,200 \\ & 5,000 \end{aligned}$ | $\begin{aligned} & 7,200.00 \\ & 4,080.00 \end{aligned}$ | $\begin{array}{r} 6,840.00 \\ 100.00 \end{array}$ | 5,040.00 | 4,752 | 4,608.00 | 5,184 | 6, 960.00 |
| Total | 9, 700 | 12, 200 | 12. 200 | 11, 280.00 | 6,940.00 | 5,040.00 | 4,752 | 4,608.00 | 5,184 | 6,960.00 |
| C N. Stone, vice president, salary |  |  |  |  |  |  | , | 10,800. 04 | 12,600 | 16, 916. 72 |
| Total salaries <br> Total other compensation | $\begin{array}{r} 123,200 \\ 95,000 \\ \hline \end{array}$ | $\begin{aligned} & 123,200 \\ & 264,000 \end{aligned}$ | $\begin{aligned} & 1118,200 \\ & 337,000 \end{aligned}$ | $\begin{aligned} & 133,200.00 \\ & 225,828.60 \\ & \hline \end{aligned}$ | $\begin{array}{r} 121,815.00 \\ 2,907.70 \\ \hline \end{array}$ | 95, 759.70 | 85, 392 | 102, 447. 59 | 115,704 | 140, 343.44 |
| Total | 218,200 | 387, 200 | 455, 200 | 359, 028.60 | 124,722.70 | 95, 759.70 | 85, 392 | 102, 447. 59 | 115, 704 | 140,343. 44 |

Table 28.-Salaries and other compensation paid to officers of Allis-Chalmers Manufacturing Co., 1928-36, inclusive

|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Otto H. Falk, president: Salary Other compensation | $\$ 50,000$ 1,040 | $\begin{array}{r} \$ 50,000 \\ 1,060 \end{array}$ | $\begin{array}{r} \$ 49,583 \\ 3,650 \end{array}$ | $\begin{array}{r} \$ 45,000 \\ 2,400 \end{array}$ | $\begin{array}{r} \$ 40,833 \\ 775 \end{array}$ | $\begin{array}{r} \$ 36,145.83 \\ 425.00 \end{array}$ | $\begin{array}{r} \$ 35,937.50 \\ 550.00 \end{array}$ | $\begin{array}{r} \$ 38,958.31 \\ 850.00 \end{array}$ | $\begin{array}{r} \$ 44,583.31 \\ 750.00 \end{array}$ |
| Total | 51,040 | 51, 060 | 53, 233 | 47,400 | 41,608 | 36,570. 83 | 36,487. 50 | 39,808. 31 | 45,333. 31 |
| Max W. Babb, vice president:? Salary Other compensation | $\begin{array}{r} 24,000 \\ 6,675 \end{array}$ | 24,000 7,376 | $\begin{aligned} & 25,783 \\ & 11,360 \end{aligned}$ | $\begin{array}{r} 23,400 \\ 8,440 \end{array}$ | $\begin{array}{r}21,233 \\ 3,081 \\ \hline\end{array}$ | $\begin{array}{r} 20,270.83 \\ 400.00 \end{array}$ | $\begin{array}{r} 23,018.78 \\ 575.00 \end{array}$ | $\begin{array}{r} 28,008.31 \\ 725.00 \end{array}$ | $\begin{array}{r} 35,879.18 \\ 675.00 \end{array}$ |
| Total | 30,675 | 31, 376 | 37, 143 | 31,840 | 24,314 | 20,670. 83 | 23, 593.78 | 28, 733. 31 | 36, 554. 18 |
| W. A. Thompson, eomptroller and seeretary Salary <br> Other compensation | $\begin{array}{r} 15,000 \\ 5,900 \end{array}$ | $\begin{array}{r} 15, \mathbf{\prime}, 000 \\ 6,726 \end{array}$ | $\begin{array}{r} 6,858 \\ 8,260 \end{array}$ | $\begin{array}{r} 15,300 \\ 6,490 \end{array}$ | $\begin{array}{r} 13,883 \\ 2,581 \end{array}$ | 13, 764. 63 | 12, 218.80 | 13, 983.31 | 19,829. 15 |
| Total. | 20, 900 | 21, 726 | 25, 118 | 21,790 | 16,464 | 13, 764.63 | 12, 218.80 | 13,983. 31 | 19,829.15 |
|  | $\begin{array}{r} 11,000 \\ 4,125 \end{array}$ | 12,000 4,983 | $\begin{array}{r} 12,891 \\ 7,350 \end{array}$ | $\begin{array}{r} 11,700 \\ 6,490 \end{array}$ | $\begin{array}{r} 10,616 \\ 2,581 \end{array}$ | 10,872.97 | 9, 831. 30 | 12, 425.00 | 4, 908. 34 |
| Total | 15, 125 | 16,983 | 20, 241 | 18, 190 | 13, 197 | 10,872.97 | 9, 831.30 | 12, 425. 00 | 6 4, 908. 34 |
| Keogh, assistant secretary: ${ }^{6}$ -alary Other eompensation | 7.500 1,837 | 7,800 2,212 | 8,726 2,917 | 7,920 $-2,420$ | $\begin{aligned} & 7,186 \\ & 1,101 \end{aligned}$ | 8,255.41 | 7,918. 76 | 10, 866.69 | 16, 262.50 |
| T ital | 9,337 | 10,012 | 11,643 | 10,340 | 8,287 | 8,255.41 | 7,918. 76 | 10, 866. 69 | 16,262. 50 |
| D! A. suewart, assistant treasurer: ? Salary Other compensation | $\begin{aligned} & 7,200 \\ & 1,800 \end{aligned}$ | $\begin{aligned} & 7,200 \\ & 2,052 \end{aligned}$ | $\begin{aligned} & 7,140 \\ & 2,520 \end{aligned}$ | $\begin{aligned} & 6,480 \\ & 1,980 \end{aligned}$ | $\begin{array}{r} 5,880 \\ 787 \end{array}$ |  |  |  |  |
| Total | 9,000 | 9,252 | 9,660 | 8,460 | 6,667 | ----------- | ----------- |  | - |
| William Watson, general works manager: ${ }^{8}$ Salary Other eompensation | $\begin{array}{r} 17,000 \\ 5,900 \end{array}$ | $\begin{array}{r} 20,000 \\ 6,726 \end{array}$ | $\begin{array}{r} 19,833 \\ 8,260 \end{array}$ | $\begin{array}{r} 18,000 \\ 6,490 \end{array}$ | $\begin{array}{r} 16,333 \\ 2,581 \end{array}$ | 15, 933.33 | 14,375. 00 | 16,320. 81 | 22, 504.15 |
| Total. | 22.900 | 26, 726 | 28,093 | 24,490 | 18, 914 | 15, 933. 33 | 14, 375.00 | 16, 320.81 | 22, 504. 15 |

A. F. Rolf, assistant secretary .

| A. F. Rolf, assistant secretary. Salary. Other compensation | $\begin{array}{r} 10,000 \\ 2,500 \end{array}$ | $\begin{array}{r} 10,000 \\ 2 ; 850 \end{array}$ | $\begin{array}{r} 10,908 \\ 4,727 \end{array}$ | $\begin{aligned} & 9,900 \\ & 3,043 \end{aligned}$ | $\begin{aligned} & 8,983 \\ & 1,203 \end{aligned}$ | 8, 639. 65 | 7,906. 30 | 8,863. 86 | 11, 085.39 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 12,500 | 12,850 | 15,635 | 12,943 | 10, 186 | 8, 639.65 | 7,906.30 | 8, 863. 86 | -11, 985. 39 |
| H. W. Story, general attorney: ${ }^{~}$ Salary. <br> Other compensation. |  |  |  |  | 7,350 1,120 | 8, 268. 74 | 8,643. 78 | 12,425.00 | 18,045. 84 |
| Total |  | , |  |  | 8,470 | 8,268.74 | 8,643. 78 | 12, 425.00 | 18,045. 84 |
| J. F. Ryan, assistant secretary and assis <br> $\dot{H}$. $\dot{\text { C. Merritt, vice president, salary .. }}$ <br> L. W. Grothaus, vice president, salary |  | ------- |  |  |  | 4,120.65 | 4,098. 90 | 5,553.75 | $8,988.33$ $16,872.12$ |
| H. E. Hawkinson, treesurer, salary - |  |  |  |  |  |  |  |  | $\begin{array}{r} 14,817.69 \\ 108,916.67 \end{array}$ |
| Total salary Total other Total other compensation | $\begin{array}{r} 141,700 \\ 29,777 \end{array}$ | $\begin{array}{r} 146,000 \\ 33,985 \\ \hline \end{array}$ | $\begin{array}{r} 151,722 \\ 49,044 \end{array}$ | $\begin{array}{r} 137,700 \\ 37,753 \end{array}$ | $\begin{array}{r} 132,297 \\ 15,810 \end{array}$ | $\begin{array}{r} 126,272.04 \\ 825.00 \end{array}$ | $\begin{array}{r} 123,947.12 \\ 1,125.00 \end{array}$ | $\begin{array}{r} 147,405.04 \\ 1,575.00 \end{array}$ | $\begin{array}{r} 223,598.67 \\ 1,425.00 \end{array}$ |
| Total. | 171,477 | -179, 985 | 200, 766 | 175, 453 | 148, 107 | 127, 097.24 | 125, 072.12 | 148, 980. 04 | 225, 023.67 |

[^100]Table 29.-Salaries paid to officers of Minneapolis-Mcline Power Implement Co., 1929 to 1936, inclusive

|  | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A. J. Bisbee ${ }^{1}$ | \$11, 979. 09 |  |  |  |  |  |  |  |
| Alvin Brown ${ }^{\text {a }}$-.-.....-.-... | $6,416.62$ $16,866.59$ | \$17, 599. 92 | \$15, 781. 30 | \$12, 672 | \$12, 428.28 | \$13, 518 | \$13, 800 | \$11,500 |
| I. B. Dinneen, vice president | 12, 700.00 | 16,800.00 | 16, 350.00 | 12,960 | 12, 710.76 | 14,040 | 14,585 | 17,000 |
| J. A. Hosp ${ }^{\text {3 }}$ - - ${ }^{\text {d }}$ - | 6,299. 99 |  |  |  |  |  |  |  |
| F. A. Kenaston ${ }^{\text {d }}$ | 10, 268.62 |  |  |  |  |  |  |  |
| R. W. Lea ${ }^{\text {b }}$, | 82, 179.47 | 99,999.97 | 89,666. 66 | 72,000 | 35, 994. 10 | 30,000 | 30, 000 | 30.000 |
| W. C. MacFarlane, president | 12, 374.96 | 4, 576.92 |  |  |  |  |  |  |
| W. S. Reddie, treasurer | 10,766. 66 | 13, 500.00 | 13,450.00 | 10,800 | 10,592. 48 | 12,650 4,596 | 14,050 4,596 | 4, 4.006 |
| J. S. Record, chairman of boar | $\begin{array}{r}18,000.00 \\ 8,337 \\ \hline\end{array}$ | $16,000.00$ $9,000.00$ | 8, 8 , 172.00 |  | 6,755. 52 | 7,572 | 7,800 | 4,596 7,800 |
| W. C. Rich, secretary | 23,958. 30 | 2, 083.33 |  |  |  |  |  |  |
| Total salaries pai | 225, 145. 80 | 179, 560. 14 | 148, 868.96 | 119, 916 | 82, 988. 56 | S2, 376 | 84, 831 | 87,896 |

[^101]Table 30.-Salaries and other compensation paid to officers of the Oliver Farm Equipment Co., 1929 to 1936, inclusive

|  | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M. W. Ellis, president, salary | $1 \$ 20,000.00$ | \$33, 550. 00 |  |  |  |  |  |  |
| W. A. Weed, vice president, salary | ${ }^{1} 13,333.44$ | 10, 416.72 |  |  |  |  |  |  |
| R . C. Rolfing, works manager,3 salar | 1 1 $12,000.00$ | 21,700.00 | 1 $\$ 12,600.00$ |  |  |  |  |  |
| W. D. Fowler, treasurer, salary | ${ }^{8} 3,750.00$ | 14, 812. 50 | $63,375.00$ |  |  |  |  |  |
| T. A. Freeman, secretary, salary | 10,000.09 | 14,812. 50 | 13, 145. 66 | \$10, 758.00 | \$10,260.00 | \$10, 260.00 | \$11,986. 61 | \$15, 232.50 |
| A. H. Witt, comptroller, salary | $110,000.00$ | 14.812. 50 | $19,000.00$ |  |  |  |  |  |
| C. R. Messinger, president. ${ }^{9}$ |  |  |  |  |  |  |  |  |
| Salary .............. |  |  | 73, 031.25 | 57.990. 00 | 40, 290. 00 | 27, 011.52 | 25, 139.84 | 24,847. 36 |
| Other compensation |  |  | 75, 000.00 | 57,990.00 | 40, 980.00 |  |  |  |
| Total. | ..........- | ------.---..- | 148, 031.25 | 115, 980.00 | 81, 270.00 | 76, 151. 52 | 25, 139.84 | 24,847.36 |
| M. E. Fitmer, vice president, salar |  |  | 29, 055. 00 | $28,038.00$ | $\bigcirc{ }^{\circ} 2,022.00$ |  |  |  |
| B. Hanger, comptroller, salary .-. |  |  | 15, 022.91 | $16,910.00$ $6,572.93$ | $15,260.00$ $4,999.92$ | $15,260.00$ $4,999.92$ | $15,260.00$ $5,354.03$ | 15, 069.18 |
| Cal Sirright, executive vice president |  |  |  |  |  |  |  | $7,710.00$ $20,009.93$ |
| M. H. Pettitt, president, salary. |  |  |  |  |  | 22,916. 52 | 25,119.84 |  |
| Total salaries. | 77.416.80 | 110, 104.22 | 155, 229. 82 | 120,268. 93 | 72, 831.92 | 80, 447. 96 | 82, 860. 32 | 82,868. 97 |
| Total other compensation |  |  | 75,000.00 | 57,990.00 | 40,980. 00 | 49, 140.00 |  |  |
| Total | 77,416. 80 | 110, 104. 22 | 230, 229.82 | 178, 258.93 | 113, 811.02 | 129,587.96 | 82, 860. 32 | 82,868. 97 |

- Vice president, 1930 and 1931.
${ }^{6}$ Resigned Feb. 26, 1931, covers salary from Jan. I to Mar. 31, 1931.
\& President, 1931, 1932, 1933, and 1936; chairman of board 1933 to 1936
Table 31.-Salaries paid to officers of the Massey-Harris Co., 1927 to 1936, inclusive


[^102]Table 32.-Salaries paid to officers of the Caterpillar Tractor Co., 1927 to 1936, inclusive

| Officers | 1927 | 1925 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C. L. Best, chairman of board | \$40, 000. 00 | \$40,000. 00 | \$40, 000. 00 | \$10, 000. 00 | \$39, 333. 30 | \$36,000 | \$30,000 | \$32, 066. 62 | \$12, 200 | \$50, 000.00 |
| R. C. Force, president 1. | 50,000.00 | $50,000.00$ 30 | $50,000.00$ 30 | 50.000 .00 $34,999.98$ | $49,166.60$ 39 3 | 45,000 36,000 | 37,500 30,000 | ${ }^{25}, 000.00$ | 25, 000 | $25,000.00$ $50,000.00$ |
| B. C. Heacock, vice president ${ }^{\text {a }}$ - ${ }^{\text {a }}$ ( Parker Holt, executive vice president | 15,000.00 | 15,000.00 | 15, 00000 | 15,000.00 | 14, 750.00 | 15, 750 | 18, 750 | 20, 100.00 | 23, 300 | 35,000.00 |
| o. L. Stan, vice president | 25,000. 00 | 25,000.00 | 25,000. 00 | 27, 499. 98 | 29,500.00 | 27,000 | 22,500 | 24, 050.00 | 32,900 | 40,000.00 |
| C. O. Wold, vice president |  | ${ }^{3}$ 1, 666.66 | 20, 000.00 | 20,000. 00 | 19,666. 60 | 18,000 | 15, 000 | 16, 150.00 | 19,500 | 21,600.00 |
| A. T. Brown, vice president |  |  |  |  |  |  |  |  |  | 20,500.00 |
| T. J. Connor, vice president |  |  |  |  |  |  |  | 19, 166.62 | 16, 200 | ${ }_{25,000}^{23,00}$ |
| J. P. P. Mee, treasurer ${ }^{6}-$ | 15,000.00 | $15,000.00$ $15,000.00$ | 18, 1833.28 | 19, 2000.00 | 19, 66660 | 18,000 | 15,000 | 16,150.10 | -19,500 | ${ }_{21} 25,60000$ |
|  | 15,000. 00 | 15,000.00 | 18, 333.28 |  | ${ }^{7} 14,750.00$ | 13, 500 | 11, 250 | 12, 025.00 | 13, 950 | 15, 000.00 |
| D. G. Sherwin, vice president |  |  |  |  |  |  |  | ${ }_{10}{ }^{\circ} \mathrm{S}, 0000.00$ | 12,000 | 13, 666. 60 |
| H. M. Hale, treasurer |  |  |  |  |  |  | 12 18, 750 | 108,675.00 | 10,050 |  |
| A. S. Joaver, vice president | 15,000.00 | 15, 000.00 | ${ }^{15} 15,000.00$ |  |  |  |  |  |  |  |
| M. M. Baker, vice president | 20,000.00 | ${ }^{16} 14,999.94$ |  |  |  |  |  |  |  |  |
| P. F. Holt, vice president | 7,500.00 | ${ }^{16} 7,500.00$ |  |  |  |  |  |  |  |  |
| E. N. Pearson, secretary-treasurer | ${ }^{13} 2,865.50$ | 6,600.00 |  |  |  |  |  |  |  |  |
| K. B. Harlan, secretary | 13 4,025. 00 |  |  |  |  |  |  |  |  |  |
| R: E. Mann, treasurer | ${ }^{13} 5,000.00$ |  |  |  |  |  |  |  |  |  |
| Total $\sim^{3}$ | 273, 890. 50 | 275, 766. 60 | 268, 333. 28 | 270, 833.18 | 290, 082. 90 | 267, 750 | 214, 050 | 223, 849. 86 | 284, 300 | 340, 366. 60 |
| 1 Chairman of executive committee, 1930-36. | ${ }^{9}$ Appointed Oct: 23, 1934. <br> ${ }^{10}$ Appointed Dec. 31, 1933. |  |  |  |  |  |  |  |  |  |
| ${ }^{2}$ President, 1930-36. |  |  |  |  |  |  |  |  |  |  |
| ${ }^{3}$ Appointed Nov. 20, 1928. | 10 Appointed Dec. 31, 1933.11 Vice president, 1931-33. |  |  |  |  |  |  |  |  |  |
| ${ }^{1}$ Appointed Mar. 31, 1936. | ${ }_{12}{ }^{2}$ Resigned Dec. $31,1933$. |  |  |  |  |  |  |  |  |  |
| ${ }^{5}$ Appointed Dec. 7, 1934. | ${ }_{13}^{13}$ Western Harvester Co. |  |  |  |  |  |  |  |  |  |
| ${ }^{6}$ Vice president, 1933-36. | ${ }^{15}$ Resigned Oct. 15, 1931. |  |  |  |  |  |  |  |  |  |
| ${ }^{7}$ Appointed Feb. 3, 1931. <br> 8 Treasurer, 1930. | ${ }_{16}$ Resigned Oct. 9, 1928. |  |  |  |  |  |  |  |  |  |

Table 33.-Salaries and other compensation paid to officers of J. I. Case Co., 1927 to 1936, inclusive

|  | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L. R. Clausen, president: Salary. Other compensation. | \$50, 000 | $\begin{array}{r} \$ 50,000 \\ 25,000 \end{array}$ | $\begin{array}{r} \$ 50,000.00 \\ 25,000.00 \end{array}$ | \$49, 166. 60 | \$42, 916.67 | \$36, 333. 28 | \$30, 000. 00 | \$30,000. 00 | \$30, 000. 00 | \$30,000.00 |
| Total | 50,000 | 75,000 | 75,000.00 | 49, 166. 60 | 42, 916. 67 | 36, 333. 28 | 30,000.00 | 30,000.00 | 30,000.00 | 30,000.00 |
| D. P. Davies, vice president: Salary Other compensation | 15,000 1,500 | 15,000 5,000 | $15,000.00$ $2,500.00$ | 14, 750.00 | 12,875.00 | 11, 166. 64 | 9,999. 84 | 10,000. 00 | 10,000.00 | $\begin{aligned} & 9,999.84 \\ & 3,500.00 \end{aligned}$ |
| Total | 16,500 | 20, 000 | 17, 500.00 | 14, 750.00 | 12, 875. 00 | 11, 166. 64 | 9, 899. 84 | 10,000.00 | 10,000.00 | 13, 499.84 |
| E. J. Gittins, vice president: Salary Other compensation. | 25,000 5,000 | $\begin{aligned} & 25,000 \\ & 10,000 \end{aligned}$ | $\begin{aligned} & 25,000.00 \\ & 10,000.00 \end{aligned}$ | 24, 583.20 | 21,458. 33 | 18, 333.30 | 15,000. 00 | 15,000.00 | 10.325.00 |  |
| Total | 30,000 | 35,000 | 35,000.00 | 24, 583.20 | 21, 458.33 | 18, 333. 30 | 15,000, 00 | 15,000.00 | 10.325.00 | ----------- |
| W. B. Brinton, vice president: Salary. | 1,200 | 1,200 | 1,200. 00 | 1,200. 00 | 1,000. 00 | 600.00 | 600.00 | 600.00 | 600.00 | 650.00 |
| Total | 1,200 | 1,200 | 1,200. 00 | 1,200.00 | 1,000. 00 | 600.00 | -600.00 | 600.00 | 600.00 | 650.00 |
| E. E. Russell, vice president: Salary Other compensation. | $\begin{array}{r} 10,000 \\ 1,000 \end{array}$ | 10,000 1,500 | $\begin{array}{r} 10,000.00 \\ 1,000.00 \end{array}$ | 10,000.00 | 10,000. 00 | 9,008. 20 | 7,800.00 | 7,800. 00 | 7,800.00 | $\begin{array}{r} 7,800.00 \\ 586.50 \end{array}$ |
| Total | 11,000 | 11,500 | 11,000.00 | 10,000.00 | 10,000.00 | 9, 008. 20 | 7,800.00 | 7,800.00 | 7,800.00 | 8,386. 50 |
| W. L. Clark, vice president: Salary Other compensation |  |  |  |  |  |  | 15, 999.84 | 15,999.90 | 16,000. 00 | $\begin{array}{r} 15,999.84 \\ 9,500.00 \end{array}$ |
| Total. |  |  |  |  |  |  | 15, 999.84 | 15,999.90 | 16,000.00 | 25, 499.84 |
| H. H. Biggert, vice president: Salary Other compensation | 11, 250 | $\begin{aligned} & 20,000 \\ & 10.000 \end{aligned}$ | $\begin{array}{r} 20,000.00 \\ 5,000.00 \end{array}$ | 19, 666. 60 | 17.166. 60 | 14, 833. 24 | 12,999. 84 | 13,000.00 | 13,833. 24 | $\begin{array}{r} 15,000.00 \\ 4,500.00 \end{array}$ |
| Total. | 11, 250 | 30, 000 | 25,000.00 | 19,666. 60 | 17, 166. 60 | 14, 833. 24 | 12, 899.84 | 13,000.00 | 13.833. 24 | 19,500. 00 |


| r'heodore Johnson, secretary: Salary. <br> Other compensation | 12,375 3,000 | 15,000 7,500 | $15,000.00$ $7,500.00$ | 14,750.00 | 13, 500. 00 | 12,687. 50 | 12,000.00 | 12,000.00 | 12,000. 00 | 14, 500. 00 7,000. 00 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 15,375 | 22,500 | 22, 500.00 | 14, 750. 00 | 13, 500. 00 | 12, 687. 50 | 12,000.00 | 12,000. 00 | 12,000. 00 | 21,500.00 |
| H. P. Howell, treasurer: Salary Other compensation |  |  | $\begin{aligned} & 9,412.57 \\ & 3,000.00 \end{aligned}$ | 9, 833. 20 | 9,000.00 | 8,458. 32 | 7,999. 92 | 8,000.00 | 8,000.00 | $\begin{aligned} & 9,666.52 \\ & 3,500.00 \end{aligned}$ |
| Tota |  |  | 12,412. 57 | 9, 833. 20 | 9,000.00 | 8, 458. 32 | 7,999. 92 | 8,000.00 | 8, 000.00 | 13, 166. 52 |
| Total salaries Total other comp | $\begin{array}{r} 124,825 \\ 10,500 \end{array}$ | $\begin{array}{r} 136,200 \\ 59,000 \end{array}$ | $\begin{array}{r} 145,612.57 \\ 54,000.00 \end{array}$ | 143, 949. 60 | 127,916. 60 | 111, 420.48 | 112, 399. 44 | 112, 399.90 | 108, 558.24 | $\begin{array}{r} 103,616.20 \\ 28,586.50 \end{array}$ |
| Total | 135, 325 | 195, 200 | 199, 612.57 | 143, 949. 60 | 127, 916. 60 | 111, 420.48 | 112, 399. 44 | 112, 399.90 | 108, 558. 24 | 132, 202.70 |

## Part V

INVESTMENTS, PROFITS, AND RATES OF RETURN For CEMENT COMPANIES

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## INVESTMENTS, PROFITS, AND RATES OF RETURN FOR CEMENT COMPANIES

This report deals with the operating results of a representative group of 18 cement companies which had 59 percent of the country's total cement producing capacity in 1938. It is estimated that altogether there are about 90 companies in the cement-producing industry. However, seven of the larger companies account for 45 percent of the total capacity. This concentration has come about through consolidations, mergers, and acquisitions of competing companies. The 7 largest companies, as well as several of the smallest companies and a number of mediumsized companies, are included in the 18 companies. The larger companies operate chains of plants of varying productive capacity in various sections of the country. The plants of the other companies are likewise scattered throughout the country so that all 18 companies operate in practically every State. The 18 companies are as follows:

> Aetna Portland Cement Co.
> Alpha Portland Cement Co.
> Great Lakes Pertland Cement Co.
> Huron Portland Cement Co.
> Ideal Portland Cement Co.
> Lawrence Portland Cement Co.
> Lehigh Portland Cement Co.
> Lone Star Cement Corporation.
> Marquette Cement Manufacturing Co.
> Medusa Portland Cement Co.
> Missouri Portland Cement Co.
> Nazareth Cement Co.
> North American Cement Co.
> Oregon Portland Cement Co.
> Pennsylvania-Dixie Cement Corporation.
> Riverside Cement Co.
> Superior Portland Cement, Inc.
> Universal-Atlas Cement Co.

All of these companies or their subsidiaries, and other members of the Cement Institute, were charged with certain monopolistic practices by the Federal Trade Commission in a complaint served July 2, 1937. The charges of the Commission in that complaint are summarized in the following sentence quoted from the complaint:
"For more than 8 years last past, respondents have maintained and now have in effect a combination among themselves to hinder, lessen, restrict, and restrain competition in price, among producing respondents in the course of their aforesaid commerce among the States."

In the past, certain trade practices in the industry have also been the subject of investigation by the Federal Trade Commission, which are set forth in two reports, viz., Prise Bases Inquiry, The Basing-Point Formula and Cement Prices 1932, and Cement Industry, 1933. These reports deal largely with cement prices, including miformity and inflexibility of delivered prices and pricing policies.

The present study deals only with the financial aspects of the industry as reflected by the operations of the 18 companies, or their predecessors, covering a 20 -year period from 1917 to 1936, inclusive. Except for one company, the financial information for all companies or their predecessors is available throughout the 20-year period. Such information, which is the basis for this report, was obtained from the files of the Income Tax Unit of the Bureau of Internal Revenue except in some instances when published reports were used largely because of the inability to obtain information on a consolidated basis from tax returns for some companies and their subsidiaries in the later years. Under the provisions of the Revenue Act of 1934, such holding companies and their subsidiaries could no longer file consolidated returns as a basis for tax payment but were required to file separate tax returns.

Since the information was obtained primarily from the tax returns of the individual companies, the data are presented in such a manner as to avoid disclosure with respect to any company in view of the regulations of the Treasury Department governing the publicity of returns.

Rates of return on invested capital have been computed on two bases, namely the stockholders' investment and common stockholders' equity, after deducting appreciation. The stockholders' investment consists of common and preferred stocks and surplus and the common stockholders ${ }^{\circ}$ equity consists of common stock and surplus. On each basis, the investments were averaged as of the beginning and end of each year, after eliminating appreciation.

The profits used in computing rates of returu on investments represent the taxable net income, as finally determined by the Bureau of Internal Revenue, in all cases where tax returns were used. In those instances where the basic information was obtained from puiblished reports, the net income as reported by the companies in such reports, before provisions for Federal taxes, was used.

Table 1, which follows, summarizes the investments, profits, and rates of return for all companies under review as a group for the years 1917-36 on the basis of the stockholders' investment and on the basiss of the common stockholders' equity. The companies for which the information is presented range in number from 28 in 1917 down to 18 in 1936. The larger number of companies in the earlier years includes those companies acquired by merger or consolidation during the 1920's by a number of the 18 companies.

Table 1.-Investments, profits, and rates of return on stockholders' investment and common stockholders' equity for cement companies, 1917-86

| Year | Number of companies | Investments 1 |  | Net profits ${ }^{2}$ applicable to- |  | Rate of return on- |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stockholders' investment | Common stockholders' equity | Stockholders' investment | Common stockholders' equity | Stock. holders' investment | Common stockholders' equity |
| 1917 | 28 | \$104, 608, 687 | \$90, 438, 587 | \$15, 013, 684 | \$14, 249, 920 | Percent 14.35 | Percent 15. 76 |
| 1918 | 28 | 108, 546, 048 | 94, 506, 778 | 10, 279, 946 | -9,448, 382 | 9.47 | 10. 00 |
| 1919 | 28 | 118, 538, 175 | 104, 503, 885 | 15, 010, 091 | 14, 125, 639 | 12.66 | 13. 52 |
| 1920 | 24 | 133, 952, 013 | 121, 062,964 | 17, 227, 511 | 16, 234, 137 | 12. 86 | 13.41 |
| 1921 | 24 | 144, 319, 698 | 132, 917, 239 | 11,060, 256 | 10, 288, 699 | 7.66 | 7.74 |
| 1922 | 24 | 151, 186, 438 | 137, 064, 569 | 21, 492, 879 | 20, 721, 265 | 14. 22 | 15. 12 |
| 1923 | 25 | 171, 443, 899 | 154, 914, 890 | 42, 933, 117 | 41, 949, 457 | 25.04 | 27.08 |
| 1924 | 25 | 196, 669, 943 | 179, 879, 656 | 42, 923, 059 | 41, 767, 760 | 21.82 | 23. 22 |
| 1925 | 26 | 222, 983, 545 | 196, 489, 686 | 45, 433, 391 | 43, 425, 694 | 20.38 | 22.10 |
| 1926 | 21 | 248, 953, 612 | 207, 341, 427 | 41, 479, 149 | 38, 859; 499 | 16. 66 | 18. 74 |
| 1927 | 22 | 263, 607, 594 | 216, 823, 100 | 34, 647, 571 | 31, 495, 740 | 13.14 | 14. 53 |
| 1928 | 22 | 267, 353, 813 | 214, 036, 162 | 31, 923,017 | 27, 674, 905 | 11.94 | 12.93 |
| 1929 | 19 | 269, 996, 548 | 210, 559, 647 | 27,659, 265 | 24, 049, 403 | 10.24 | 11.42 |
| 1930 | 18 | 249, 216, 143 | 191, 903, 642 | 22, 537, 526 | 19, 803, 268 | 9.04 | 10.32 |
| 1931 | 18 | 214, 735, 815 | 158, 704, 913 | ${ }^{3} 5,067,678$ | 3 7, 379. 649 | ${ }^{3} 2.36$ | 34.65 |
| 19.32 | 18 | 194, 234, 472 | 141, 130, 621 | ${ }^{3} 15,621,990$ | ${ }^{3} 17,552,536$ | ${ }^{3} 8.04$ | ${ }^{3} 12.44$ |
| 1933 | 18 | 179,677, 026 | 132, 210, 668 | ${ }^{8} 5,932,999$ | ${ }^{3} 7,199,751$ | 83.30 | 35.45 |
| 1934 | 18 | 184, 314, 651 | 140, 697, 192 | 4,658, 830 | 3,110, 296 | 2.53 | 2. 21 |
| 1935 | 18 | 173, 330, 985 | 134. 191, 443 | 123, 451 | ${ }^{3} 884,255$ | . 07 | 3. 70 |
| 1936 | 18 | 170, 471, 267 | 134, 879, 005 | 18, 835, 349 | 17, 521, 470 | 11.05 | 12.99 |
| Age..- |  | 188, 407, 014 | 154, 712, 804 | 18, 830, 771 | 17,085, 467 | 9.99 | 11.04 |

[^103]'The table shows that during the 20 -year period the average annual rate of return for the companies as a group was approximately 10 percent on the stockholders' investment and 11 percent on the common stockholders' equity. Except for the depression years when losses were sustained which reduced the averages for the period, high returns were earned in most years.

During the first 6 years, 1917-22, the highest return was 14.35 percent in 1917 and the lowest was 7.66 percent in 1921, on the basis of the stockholders' investment. During these years, returns approaching those of 1917 were earned in 1919, 1920, and 1922.

During the next 8 years, $1923-30$, the highest return was earned in 1923 and the lowest in 1930 on the same basis of investment. In 1923, the return was slightly over 25 percent and in 1930 it was slightly over 9 percent. During these years, returns excceding 20 percent were earned in 1924 and 1925 , and in the next 4 years they ranged from over 10 percent to more than 16 percent.

During the next 3 years, 1931-33, losses equivalent to 2.36 percent, 8.04 percent, and 3.30 percent, respectively, were sustained on the stockholders' investment. On this basis of investment, profits were again earned in the following years equivalent to 2.53 percent in $1934,0.07$ percent in 1935 , and 11.05 percent in 1936. The return for 1936 , it will be noted, compares favorably with the returns for the predepression years.

Prior to 1931 , the first year in which losses were sustained, the average return on the stockholders' investment during the years under review was 14.32 percent as compared with a loss of 0.27 percent for the later years. Likewise, during the years 1917-30, the average return on the common stockholders' equity was 15.72 percent as compared with a loss of 1.47 percent for the years 1931-36. Throughout, the trend in rates of return on the common stockholders' equity followed closely those applicable to the stockholders' equity, except that during profitable years the returns were higher and during unprofitable years the losses were greater. The slightly higher average return on the common stockholders' equity than the for stockholders' investment is accounted for by the fact that the margin of capital represented by preferred stock produced earnings in excess of the dividends paid or accrued thereon.

Because of the inability to segregate interest on long-term debt from the total charges for all interest payments reported on tax returns, it was not practicable to compute rates of return on the total investment including long-term debt. However, it appears that the proportion of long-term debt to the total capitalization was not large so that the average return on the total investment would not be materially lower than the average return on the stockholders' investment.

As previously stated, the amounts for stockholders' investment and common stockholders' equity used in computing rates of return excluded appreciation. Most of the appreciation was recorded during the years 1925-29 as the result of reorganizations, mergers, and consolidations of some of the companies under review. The aggregate amount of appreciation which was deducted from the investments under review ranged from $\$ 12,734,344$ in 1917 to $\$ 16,793,766$ in 1924 , to $\$ 48,952,389$ in 1926 to $\$ 52,401,690$ in 1929 and to $\$ 49,989,789$ in 1936. Since the appreciation was generally recorded in the plant and property accounts, some of it may have been removed as property was retired from service. This could not be determined in the absence of an examination of the books and records of the respective companies. To whatever extent appreciation may have been written off, is reflected in understatement of the investment bases with slightly overstated rates of return. However, the failure to adjust for any appreciation which may have been eliminated through retirements does not materially affect the rates of return. This is evident from the fact thiat if returns had been computed on investment, including all appreciation, the average return on the stockholders' investment for the 20 -year period would only be 1.6 percent lower than the average computed return of 10 percent: and the common stockholders' cquity would only be 2.08 percent lower than the computed return of 11 percent.

Tables 2 and 3, which follow, show the rates of return for individual companies and their predecessors for each of the years 1917-36 on the basis of the stockholders' investment and on the basis of the common stockholders' equity. The names of the companies are omitted to avoid disclosure of identity.

It has been explained that the companies for which rates of return were computed range in number from 28 in 1917 down to 18 in 1936 and that the larger number of companies in the earlier years includes companies acquired by merger or consolidation during the 1920 's by a number of the 18 companies. In the succeeding tables, all such predecessor companies have been grouped according to their present affiliation in order to show comparative returns for each company and its predecessors during each of the years 1917 to 1936 , inclusive.

Table 2.--Rates of return on stockholders' invested capital for 18 cement companies and their predecessors, 1917-36

| Company number | $\begin{aligned} & 1917 \\ & \text { per- } \\ & \text { cent } \end{aligned}$ | $\begin{aligned} & 1918 \\ & \text { per- } \\ & \text { cent } \end{aligned}$ | $\begin{aligned} & 1919 \\ & \text { per- } \\ & \text { cent } \end{aligned}$ | $\begin{aligned} & 1920 \\ & \text { per- } \\ & \text { cent } \end{aligned}$ | $\begin{aligned} & 1921 \\ & \text { per- } \\ & \text { cent } \end{aligned}$ | $\begin{array}{l\|l} 1922 & 19 \\ \text { per- } \\ \text { cent } & \text { pe } \\ \text { ce } \end{array}$ | $\begin{array}{l\|l} 1923 & 18 \\ \text { per- } \\ \text { cent } & \text { p } \\ \text { ce } \end{array}$ | $\begin{array}{l\|l} 1924 & 1 \\ \text { per- } \\ \text { cent } & p \\ \text { c } \end{array}$ | $\begin{array}{l\|l} 1925 & 19 \\ \text { per- } & 19 \\ \text { cent } & \text { p } \\ \text { co } \end{array}$ | $\begin{aligned} & 1926 \\ & \text { per- } \\ & \text { cent } \end{aligned}$ | $\begin{aligned} & 1927 \\ & \text { per- } \\ & \text { cent } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | 0. 56 | 0.92 | 16.39 | 17.77 | 31. 42 | 19.47 26 | 26.19 20 | 20.8428 | 28.991 | 14.77 | 15. 21 |
| 3. | 12.40 | 10.60 | 12.20 | 13.16 | 10.87 | 28.14 39 | 39.50 | 28.26 | 27.00 | 30.63 | 20.73 |
| 4 | 9. 64 | 7.25 | 10.75 | 6. 86 | 7.72 | 13.34 | 23.1318 | 19.18 20 | 20.3916 | 16.25 | 7.04 |
| 5 | 11. 54 | 6. 64 | 11. 14 | 6.78 | 2.43 | 3.0119 | 19.99 | 21.53 | 37.2430 | 30. 40 | 26. 19 |
| 6 | 19.28 | 12.37 | 21.14 | 17.35 | 12.63 | 23.85 | 39.79 38 | 38.65 | 39.22 | 40.02 | 30. 08 |
| 7 | .3. 11 | 6. 45 | 1. 50 | 25. 23 | 8.93 | 32. 86 | 43. 83 | 36.65 | 30.98 | 23. 50 | 46. 13 |
| 8 | 28.42 | 15.78 | 11.81 | 24.31 | 12. 64 | 20.1722 | 22.71 | 21.7629 | 29. 59 | 24.75 | 21.01 |
| 9 | 3. 49 | 3.49 | 10.85 | 4. 12 | 12.72 | . 30 | 20.12 | 18.56 20 | 20.60 | 22. 21 | 11.37 |
| 10 | 13. 64 | 9.80 | 11. 15 | 12.41 | 4. 06 | 8.87 | 21.75 | 19.79 | 16. 6012 | 12.94 | 9. 59 |
| 11 | 6. 76 | 8. 22 | 12. 23 | 17.66 | 3.32 | 7.48 | 21.05 | 24.89 15 | 15. 48 | 6.83 | 9. 65 |
| 12 | 16.13 | 11.78 | 1. 60 | 9.92 | 17.24 | 27.06 | 39.28 | 31.76 29 | 29.17 |  | 12. 43 |
| 13 | 13.69 | 12.91 | 17.68 | 28. 54 | 21.91 | 43.93 | 53.88 | 23. 68 12 | 19.15. | 17.27 | 20.96 |
| 14 | 16. 35 | 10.20 | 17.20 | 13.22 | 10.33 | 19.52 32 | 32.45 | 24.7620 | 20. 72 | 17, 50 | 12.60 |
| 15 | 11. 94 | 8.89 | 6. 94 | 5.39 | 6. 89 | 6. 8316 | 16.07 | 16.66 19 | 19.76 1 | 15.18 | 11.71 |
| 1 F | 10.07 | 8.41 | 12.95 | 11.34 | 5.10 | 11. 58 | 20. 95 | 19.62 | 18.60 | 13. 56 | 12.08 |
| 17 | 7.43 | 7.55 | 7.86 | 10. 50 | 7.33 | 7.52 13 | 13.15 | 17. 5711 | 16.73 | 14.24 | 10.51 |
| 18 | 27.27 | 11. 17 | 12. 72 | 17.74 | 9.00 | 15.49 15 | 15.62 | 16.41 14 | 14.891 | 14.97 | 16.32 |
| Averag | 14.35 | 9.47 | 12.66 | 12.86 | 7.66 | 14. 2225 | 25.04 | 21.8220 | 20.38 | 16.66 | 13.14 |
|  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 |  | nual |
| Company number | per- | per- | per- | per- | per- | per- | per- | per- | per- |  | rage |
|  | cent | cent | cent | cent | cent | cent |  | cent | cent |  |  |
| 1 | 7.84 | 9.84 | 9.68 | 4.06 | ${ }^{1} 12.22$ | 17.11 | 114.89 | 915.41 | 116.79 |  | 6.81 |
| 3. | 17.94 | 22.32 | 24.80 | 2.81 | ${ }^{1} 11.53$ | 6.40 | - 7.52 | 2.86 | 15.05 |  | 14.98 |
|  | 13.07 | 7.02 | 8.44 | 12.83 | 15.67 | 13.71 | $1{ }^{1} 17$ | 7 . 42 | 2.12 |  | 7.80 |
| 5 | ${ }^{1} 11.85$ | 32. 43 | 17. 20 | ${ }^{1} 55.37$ |  |  |  |  |  |  | 9.02 |
|  | 22.58 | 6.60 | 11. 59 | ${ }^{1} 8.35$ | 120.41 | 119.58 | 8 11.47 | 712.38 | 8. 9. 16 |  | 15.63 |
| $7$ | 48. 10 | 21. 20 | 10. 23 | 8. 00 | 15. 29 | 3.95 | 5 15. 31 | 9.88 | 8 24. 30 |  | 22.67 |
| 8 | 19.74 | 17.73 | 10.80 | 15. 29 | ${ }^{1} 7.94$ | ${ }^{\mathbf{1} 5.48}$ | $8{ }^{1} 11$ | $1{ }^{1} .29$ | 9. 7.67 |  | 10.82 |
| 9 | 9.65 | 6.30 | 9. 56 | ${ }^{1} 5.30$ | ${ }^{1} 13.23$ | 12.75 | 5 1.53 | ${ }^{1} 13.30$ | 4.99 |  | 4. 56 |
| 10 | 9.02 | 5.41 | 3. 92 | 1.45 | 14.67 | 11.63 | 2. 39 | 9 4.12 | $2{ }^{6.66}$ |  | 7.28 |
| 11 | 4.49 | 8.24 | 8. 66 | ${ }^{1} 2.21$ | 15.41 | 12.46 | $6{ }^{1} 52$ | $2{ }^{1} 6.14$ | 41.54 |  | 5. 88 |
| 12 | 8.89 | 15. 78 | 14. 82 | 16.89 | 2.83 | ${ }^{1} 1.16$ | 64.00 | 0 10.07 | 711.16 |  | 12.07 |
| 13 | 21.82 | 15. 14 | 4.46 | 1.57 | 74 |  | 6. 25 | ${ }^{5}$ 12.49 | 9810.02 |  | 15. 02 |
| 14 | 9. 19 | 12. 09 | 11.39 | 122.07 | 128.34 | 19.85 | 2.19 | ${ }^{-67}$ | 18.92 |  | 13. 23 |
| 15 | 15. 48 | 9.39 | 6.03 | ${ }^{1} 10.33$ | ${ }^{1} 10.93$ | ${ }^{1} 6.82$ | 2.29 | ${ }^{1} 12.23$ | 23.86 |  | 7.79 |
| 16. | 11.75 | 7.51 | 5.33 | 14.59 | ${ }^{1} 7.91$ | 13.63 | ${ }^{1}{ }^{1.82}$ | $7^{2} 2.45$ | .8.03 |  | 7.22 |
| 17 | 8. 73 | 9.39 | 10.87 | 12.76 | ${ }^{1} 1.02$ | ${ }^{1} 1.58$ | 3837 | 74.43 | 3 9.99 |  | 8.74 |
| 18 | 21.21 | 20.07 | 17.45 | 5. 52 | . 36 | 5.07 | 7 12.72 | 215.68 |  34.17 |  | 15.21 |
| A verage | 11. 94 | 10.24 | 9.04 | 12. 36 | 18.04 | 13.30 | 30 2.53 | 3 . 07 | 7 11.05 |  | 9.99 |

[^104]Table 3.-Rates of return on common stockholders' equity for 18 cement companies and their predecessors, 1917-96

| Company No. | 1917 | 1918 | 81919 | 91920 | 1921 | 1922 | 1923 | 1921 | 1925 | 1926 | 1927 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Percent 0.50 | Per cent 0.92 |  |  |  | $\begin{gathered} \text { Per } \\ \text { cont } \\ 19.47 \end{gathered}$ | $\left\|\begin{array}{c} \text { Per- } \\ \text { cent } \\ 26.19 \end{array}\right\|$ | Per- cent 20.84 | Fer- cent no |  | Peicent 1521 |
| 3 | 12.40 | 10.60 | 12.20 | 13.16 | 10.87 |  |  |  |  | 81.97 | 41.69 |
| 4 | 9. 64 | 7. 25 | 10.75 | 6.86 | - 7.72 | 13.34 | 23. 13 | 19.18 | 20.39 | 16.25 | 7.04 |
| 5 | 9.15 | 4.37 | 10.63 | S 4.83 | 1.47 | . 37 | 29.24 | 29.97 |  |  |  |
| 6 | 24.66 | 14. 29 | 26.67 | 21.93 | 14.86 | 30.41 | 50.07 | 45. 70 | 44.01 |  |  |
| 7 | 3.11 | 6.45 | 51.50 | 25. 23 | - 9.93 | 32. 86 | 43. 83 | 36. 65 | 30.98 | 23. 50 | 46. 13 |
| 8 | 41.06 | 20. 29 | 13.99 | \|31.22 | 14.58 | 24.15 | 26.51 | 24. 59 | 32.94 | 26. 81 | 22. 40 |
| 9 | 3. 49 | 3. 49 | 10.85 | - 4.12 | 12.72 | . 30 | 20. 12 | 18. 56 | 20. 60 | 22. 21 | 11.37 |
| 10 | 13.64 | 9.80 | -11.15 | 512.41 | 4.06 | 8. 97 | 21.75 | 19.79 | 16. 60 | 12.94 | 9.59 |
| 11 | 17. 15 | 16. 96 | - 23.95 | 5 31.71 | 4.38 | 12.42 | 31. 23 | 28.09 | 16.97 | 6.83 | 9.65 |
| 12 | ${ }^{1} 6.13$ | 11.78 | 8 1.c. 0 | - 9.92 | 17.24 | 27.0¢ | 39.28 | 31. 76 | 29. 17 |  | 12. 43 |
| 13 | 13.69 | 12.91 | 117.68 | 2S. 54 | 21. 91 | 43.93 | 53.88 | 23.68 | 19.15 | 17. 27 | 20.96 |
| 14 | 17.62 | 10.44 | 418.28 | 13.79 | 10.53 | 20. 40 | 34.01 | 25. 65 | 21. 32 | 17.91 | 12. 80 |
| 15 | 12.40 | 9.02 | -6.93 | - 5.30 | 6.88 | 6.82 | 16.49 | 17.05 | 20.22 | 15. 45 | 11. 96 |
| 16 | 11.34 | 8.98 | 15.14 | 1226 | 4.81 | 12. 23 | 22.69 | 21. 10 | 19.88 | 14.23 | 12. 57 |
| 17 | 16.99 | 13.67 | 10.50 | 10.37 | 7.59 | 7.59 | 13.94 | 19.46 | 21.03 | 17.79 | 12. 01 |
| 18 | 27.27 | 11.17 | 7 12. 72 | 17.74 | 9.00 | 15. 49 | 15.62 | 16.41 | 15. 30 | 28. 79 | 28.. 11 |
| A verage | 15. 76 | 10.00 | 13.52 | 13.41 | 7. 71 | 15. 12 | 27.05 | 23.22 | 22.10 | 18.74 | 14. 5.3 |
| Company No. |  | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | -1934 | 1935 | 1936 | An- <br> nual <br> aver- <br> a* |
| 1 |  | Pet cent 7.84 | Percent 9.84 | Percent 9. 68 | Percent 4. 06 | Per- cent 12.22 |  | Percent 14.89 | Percent <br> 15.41 | Percent 16.79 | Percent 6.81 |
| 3 |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  | 13. 07 | 7.02 | 8.44 | :2.83 | 15.67 | 13.71 | S. 1.17 | 1.94 .42 | 6.12 | 24. 7 |
| 5 |  |  |  |  |  |  |  |  |  |  |  |
| $7 .$ |  | 18.10 | 21. 20 | 10.23 | S.00 | 15.29 | 3.95 | 15.31 | 9.88 | 24.30 | 22.67 |
| 8 |  | 20. 88 | 18.60 | 11.09 | 16.28 | .19.28 | 16.7 ? | 1.88 1 | 11.09 | S. 07 | 11.35 |
| 9 |  | 9. 65 | 6.30 | 9.5f | 1530 | 113.23 | 12.75 | 1. 53 | 13.30 | 4.99 | 4.56 |
| 10 |  | 7. 70 | 4.38 | 1.90 | 15.31 | 111.46 | 14.62 | 1. 77 | 17.97 | 8.13 | 7.55 |
| 11 |  | 4. 66 | 8.45 | 8.89 | 13.54 | 16.79 | 12.86 | ${ }^{1} .60$ | 17.69 | 17.81 | 6. 55 |
| 12 |  | 8. 89 | 15.78 | 14.82 | 16.89 | 2. 83 | ${ }^{1} 1.16$ | 4.00 | 10. 07 | 11.16 | 12.07 |
| 13 |  | 44.55 |  |  |  |  |  |  |  |  | -31.03 |
| 14 |  | 9. 26 | 12. 33 | 11. 39 | 122.07 | 128.34 | 19.85 | 2. 19 | . 67 | 18.92 | 13.51 |
| 15 |  | 15. 75 | 9.43 | 6.14 | 110.93 | 11144 | 17.13 | 2. 16 | 12.55 | 11.05 | 7.87 |
| 16 |  | 12. 16 | 7.55 | 5. 19 | 15. 61 | 19.37 | 14.74 | 11.82 | 12.45 | 8.03 | 7.25 |
| 17 |  | 9.12 | 9.39 | 10.87 | 12. 76 | ${ }^{1} 1.02$ | ${ }^{1} 1.58$ | 3. 37 | 4.43 | 9.99 | 9.12 |
| 18 |  | 26. 39 | 20.07 | 17.45 | 5. 52 | . 36 | 5.07 | 12.72 | 15. 68 | 34. 17 | 15.98 |
| Average |  | 12.93 | 11.42 | 10.32 | 14.65 | ! 12.44 | ${ }^{1} 5.45$ | 2.21 | 1. 70 | 12.99 | 11. 04 |

[^105]Tables 2 and 3 show that on the average substantial returns were earned by each of the 17 companies and their predecessors, despite losses sustained during the depression years. On the basis of stockholders' investment, the lowest average return earned by any company during the 20 -year period was 4.56 percent and the highest return was 22.67 percent. In addition, 4 other companies each earned returns of approximately 15 percent per annum; 4 earned from 9 to over 13 percent; and 7 earned from nearly 6 percent to $8 \frac{3 / 4}{}$ percent. As a group all companies earned an average return of about 10 percent. On the basis of the common stockholdars' equity, the respective returns were higher, averaging just over 11 percent for all companies under review during the 20 -year period.

While there is substantial variation in the returns of the respective companies and their predecessors, the returns are quite comparable when the companies are grcuped according to size. On the basis of plant capacity, the 18 companies represented 59 percent of the plant capacity for the industry in 1938. ${ }^{1}$ Each of 3 of the 18 companies represented over 5 percent of the total capacity for the industry; 4 represented from 3 to 5 percent each; 6 represented from 1 to 3 percent each; and 5 represented under 1 percent each. According to this grouping, the two groups of medium-sized companies earned higher average returns than either of the other two groups, followed by the group of largest companies. The average returns earned by each group during the 20 -year period, 1917-36, are as follows:

Average annual rates of return, 1917-36

|  | On stock- holders' invest- ment | On common stock holders |
| :---: | :---: | :---: |
| Group 1. 3 companies each with over 5 percent of total plant capacity | Percent <br> 9.71 | $\text { Percent } 10 .$ |
| Group 2. 4 companies each with from 3 to 5 percent of total plant capacity-- | 10.65 | 12.57 |
| Group 3. 6 companies each with from 1 to 3 percent or total plant capacity-.. Group 4. 5 |  |  |
| All groups with 59 percent of total plant capacity in 1938. | 9. 99 | . 0 |

The annual rates of return on the stockholders' investment and the common stockholders' equity for each year from 1917 to 1936, inclusive, for each of the groups of companies classified by size of plant capacity are shown in table 4, which follows:

[^106]Table 4.-Rates of return on stockholders' investment and common stockholders' equity for 18 cement companies and their predecessors, grouped according to size of plant capacity, ${ }^{1}$ 1917-36

| Year | Rates of return on stockholders' investment |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Group of 3 companies each with over 5 percent of total capacity | Group of 4 companies each with from 3 to 5 percent of total capacity | Group of 6 companies each with from 1 to 3 percent of total capacity | Group of 5 companies each with less than 1 percent of total capacity | All groups with 59 percent of total capacity |
| 1917 | Percent 13.89 | Percent $18.47$ | $\begin{aligned} & \text { Percent } \\ & 12.30 \end{aligned}$ | $\begin{aligned} & \text { Percent } \\ & 3.23 \end{aligned}$ | Percent 14. 35 |
| 1918 | 9.66 | 10.21 | 8. 90 | 5.56 | 9.47 |
| 1919 | 13. 26 | 12. 72 | 12.03 | 8.23 | 12. 66 |
| 1920 | 12. 44 | 12.94 | 12.47 | 18.37 | 12. 86 |
| 1921 | 7.28 | 7.62 | 8.45 | 9. 44 | 7.66 |
| 1922 | 13. 37 | 13. 37 | 17.62 | 16.97 | 14.22 |
| 1923 | 25.31 | 20.74 | 30.47 | 29.07 | 25. 04 |
| 1924 | 21.75 | 20.89 | 22.08 | 28. 40 | 21.82 |
| 1925 | 18.44 | 21.31 | 24.47 | 23.11 | 20.38 |
| 1926 | 15.13 | 18. 48 | 21.91 | 8.91 | 16. 66 |
| 1927 | 11. 05 | 15. 55 | 15. 95 | 15. 06 | 13.14 |
| 1928. | - 9.04 | 16. 04 | 15. 66 | 11.85 | 11.94 |
| 1929 | - 9.12 | 9.97 | 13. 82 | 10. 26 | -10.24 |
| 1930. | 7.98 | 8.77 | 11. 92 | 8.77 | 9.04 |
| 1931 | ${ }^{2} 1.45$ | 14.00 | 22.90 | ${ }^{2} .39$ | - $\quad 32.36$ |
| 1932 | 27.67 | 28.23 | 29.38 | ${ }^{2} 5.61$ | ${ }^{2} 8.04$ |
| 1933. | ? 2.85 | ${ }^{2} 4.48$ | 23.01 | ${ }^{2} 2.68$ | 23.30 |
| 1934 | 2.73 | 2. 75 | 2.41 | . 93 | 2. 53 |
| 1935 | 2.21 | 2. 28 | ${ }^{2} 1.83$ | 2.30 | . 07 |
| 1836. | 9.64 | 16. 08 | 9.46 | 7.70 | 11.05 |
| Average. | 9.71 | 10.65 | 10.43 | 8.26 | $\because 9.99$ |


|  | Year | Rates of return on common stockholders' equity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  | Group of 3 companies each with over 5 percent of total capacity | Group of 4 companies each with from 3 to 5 percent of total capacity | Group of 6 companies each with from 1 to 3 percent of total capacity | Group of 5 companies each with less than 1 percent of total capacity | All groups with 59 percent of total capacity |
| 1917 |  | $\begin{aligned} & \text { Percent } \\ & 15.46 \end{aligned}$ | Percent $20.26$ | Percent 12.24 | Percent 4. 56 | Percent 15.76 |
| 1918 |  | 10.33 | 10.66 | 8.80 | 7.01 | 10.00 |
| 1919. |  | 14. 18 | 13. 51 | 12. 24 | 10.62 | 13. 52 |
| 1920 |  | 12.72 | 13.65 | 12. 70 | 24.08 | 13.41 |
| 1921 |  | 7.30 | 7.68 | 8.33 | 11.84 | 7.74 |
| 1922 |  | 13.68 | 13.99 | 20.87 | 21.97 | 15. 12 |
| 1923. |  | 26. 14 | 21.94 | 39.04 | 35.09 | 27.08 |
| 1924 |  | - 22.44 | 21. 98 | 26.53 | 30.05 | 23. 22 |
| 1925. |  | 19.37 | 23.10 | 30.30 | 24.12 | 22. 10 |
| 1928 |  | 15.92 | 24.52 | 27.31 | 8.91 | 18. 74 |
| 1927 |  | 11.41 | 21.21 | 19. 24 | 15. 06 | 14. 53 |
| 1928 |  | 8. 77 | 20.16 | 20.75 | 12.11 | 12. 93 |
| 1929 |  | 9.61 | 11. 54 | 19. 11 | 10. 44 | 11.42 |
| 1930 |  | 8.19 | 11.52 | 15.93 | 8.86 | 10.32 |
| 1831 |  | '3.80 | ${ }^{2} 5.98$ | 16.99 | $\bigcirc 0.79$ | 14.65 |
| 1932 |  | 111.49 | '12.28 | 118. 63 | 16.15 | ${ }^{2} 12.44$ |
| 1933. |  | 14.51 | 26.95 | 2 7.16 | ${ }^{2} 2.86$ | 15.45 |
| 1934. |  | 2. 56 | 3.45 | . 37 | . 99 | 2. 21 |
| 1935 |  | 2. 90 | 3. 14 | ${ }^{2} 5.12$ | ${ }^{2} .32$ | ${ }^{2} .70$ |
| 1936. |  | 10.59 | 22.88 | 10.73 | 6.84 | 12.99 |
|  |  | 10.19. | 12.57. | 12. 53 | 8.73 | 11.04 |

[^107]Part VI<br>INVESTMENTS, PROFITS, AND RATES OF RETURN FOR RAYON COMPANIES

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## INVESTMENTS, PROFITS, AND RATES OF RETURN FOR RAYON COMPANIES

## Introduction

This report contains a brief history of the rayon industry, including certain statistical data on the quantities of rayon produced and consumed, together with the price trends of rayon textile fiber and competitive fibers such as cotton, wool, and silk, and deals with the operating results of eight of the principal rayon yarn and rayon staple fiber producing companies. The operations of these eight companies are to some extent correlated to the general historical information pertaining to the entire industry. In connection with the financial information presented for these eight companies there are given the trends of investments, profits, rates of return, and other statistical data for all eight companies combined and for each of the eight companies, from 1915 to 1938, inclusive. The eight companies are as follows:

American Viscose Corporation.<br>E. I. du Pont de Nemours \& Co. (rayon department).<br>Celanese Corporation of America.<br>Industrial Rayon Corporation.<br>The American Enka Corporation.<br>North American Rayon Corporation.<br>Tubize-Chatillon Corporation.<br>American Bemberg Corporation.

American Viscose Corporation had a monopoly of the rayon business in this country prior to 1920 , through control of patents on maufacturing processes. After the expiration of these patents other companies entered the field so that in 1938 there were 29 rayon yarn and staple fiber producers. However, these 8 companies produced the bulk of the rayon in this country.
There was a remarkable growth in the production of rayon yarn and staple fiber. The last year that American Viscose Corporation was the sole producer was 1919 , when slightly over $8,000,000$ pounds were produced. Thereafter, the domestic production increased rather consistently to $342,000,000$ pounds in 1937 and decreased to about $288,000,000$ pounds in 1938. Although other companies entering the field have accounted for a substantial portion of the increase, American Viscose Corporation remained the principal producer. Its proportion of the total had decreased from time to time to 30 percent of the domestic production in 1938.

In 1938, the eight companies produced 91 percent of the total United States production of rayon yarn and staple fiber by the viscose, cuprammonium, and acetate processes. These three processes are the only ones used in the production of rayon. In that year, three of the eight companies produced 67 percent of the total production. Considering the rayon yarn separately from the staple fiber it appears that only four of the eight companies used the acetate process and those four accounted for 90 percent of the total rayon yarn produced by the acelate process. Seven of the eight companies produced rayon yarn either by the viscose or cuprammonium process and these seven companies accounted for 92 percent of the total production of rayon yarn by these processes. Only three of these eight companies produced rayon staple fiber but these three accounted for 88 percent of the total production of rayon stable fiber in 1938.

## History of Rayon

Rayon is a synthetic textile fiber that for many years was referred to as artificial silk, whose basic raw material is cellulose. The principal commercial sources of cellulose are spruce, western hemlock, and cotton linters, although it may be obtained from many other less economical sources. Rayon is produced by chemical and mechanical processes which make a fine filament that is spun into yarns suitable for weaving into many kinds of fabrics.

The history of experiments in the manufacture of textile fiber extends back to 1735, when a French scientist named Reamur developed a process whereby a solution, that was forced through a small orifice, coagulated to form a thread. His solution was made from gums and resins. It was not until 1855 that Audemars, a Swiss chemist, first used dissolved cellulose to produce fine threads. However, Count Hilaire de Chardonnet is acclaimed the original discoverer of rayon as he received a patent from the French Government November 11, 1884, after years of research, covering his process of producing artificial silk. He used a nitro cellulose solution that was produced from bleached cotton linters by the action of a mixture of nitric and sulfuric acids. The solution was forced through a small glass orifice into water which hardened the threadlike fiber. In 1890capitalists provided funds to build the first factory for commercial production of artificial silk. This process was known as the nitrocellulose process, but has now been entirely supplanted by other processes in this country, although it was used quite extensively prior to 1934 .

The cuprammonium process was being developed about the same time as the nitro cellulose process. The cuprammonium process involved the dissolving of cellulose in an alkaline copper reagent. 'In connection witl this process a spinnerette was used to stretch the filaments, thereby producing for the first time a thread finer than silk.

The most widely used process, accounting for about 85 to 90 percent of the world rayon production, but a lesser proportion of the United States production, in recent years is the viscose process which was patented in 1892 by Messrs. Cross and Bevan, of Great Britain. The cellulose compound that they produced was subjected to numerous operations in connection with treating and spinning it into filaments and yarn. The first successful spinning of this product was developed by Stearn in 1898 and improved by Topham in 1900, which later date marks the beginning of the manufacture of rayon by the viscose process.

The technical operations in making rayon yarn by the viscose process at the present time are generally as described here. The first step is to prepare the cellulose from cotton linters or from wood pulp by dissolving all noncellulose materials, leaving a fibrous mass that is then made into a board or sheet form by a process similar to that used by the paper manufacturing industry. The shects from various batches, after selection in order to obtain uniformity of production, are subjected to a caustic soda bath where they are allowed to soak. The sheets, thus treated, are run through a shredding machine which produces a white mass that is dumped into hoppers and stored for from 36 to 100 hours in a temperature of 17 to 24 degrees centigrade. This operation, called the ripening process, through control of the duration and temperature, develops a product of the proper viscosity. After ripening, the material is mixed with carbon disulfide forming a spongy substance that is further treated with a caustic soda solution to form the raw viscose of the consistency of honey. This is filtered and further ripened from 2 to 5 days before it is ready for spinning. The viscose material is forced by pressure pumps through a spinnerette, having numerous small orifices, into a coagulating bath containing a sulfuric acid solution. The filament emerging from the orifices hardens in this bath and is twisted into yarn. The number and size of filaments in the yarn are determined by the type of jets or openings in the spinnerette. Further treatment of the yarn removes the remaining acids and other chemicals and the yarn is then ready for marketing.

Another process, which was developed during the World War, is the celluloseacetate process. In recent years this process has been used to a greater extent than in the earlier years. This process involves the use primarily of acetic acid to convert cotton linters into a cellulose product. This is carried through a series of operations from which a spinning "dope" or solution is made. This solution is then forced through spinnerettes into an enclosure where the filament is dried by hot air and then spun into yarn. This method is termed "dry" spinning, which contrasts with "wet" spinning or viscose yarn.

In recent years a staple fiber has been produced by the viscose and acetate processes. This staple fiber can be used in woven and knit goods and to some extent has become a substitute for wool and cotton in heavier fabrics, whereas theretofore the rayon yarn had been considered primarily as a substitute for silk. Of course, rayon no longer is considered merely as a substitute for other textile fibers as it now has a distinct position in the textile field.

## Production Statistics

The domestic production of rayon yarn and staple fiber, cdmbined, increased from 363,000 pounds in 1911 to $287,749,000$ pounds in 1938. Production in 1936 and 1937 exceeded the production for the year 1938. The following tabulation gives the domestic production of rayon yarn and staple fiber, separately, for each of the years 1911-38. The table shows that the production of rayon yarn by the viscose, cuprammonium and nitrocellulose processes increased from 363,000 pounds in 1911 to 181,795,000 pounds in 1938. While the production of rayon yarn by the acetate process increased from 50,000 pounds in 1919 to $76,121,000$ pounds in 1938, the domestic production of rayon staple fiber increased from 165,000 pounds in 1928 to $29,383,000$ pounds in 1938.

United States production of rayon yarn and staple fiber, 1911-19381
[Units are thousands of pounds]

| Year | Viscose, cuprammonium and nitrocellulose yarn? | Acetate ysin | Total rayon yarn | Staple fiber | Total rayon yarn and staple fiber |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1911. | 363 |  | 363 |  | 363 |
| 1912 | 1,111 |  | 1,111 |  | 1,111 |
| 1913 | 1,816 |  | 1,816 |  | 1, 816 |
| 1914 | 2,422 |  | 2,422 | -- | 2,422 |
| 1915 | 3, 885 |  | 3,885 |  | 3,885 |
| 1916 | 5, 778 |  | 5,778 |  | 5,778 |
| 1917 | 6,544 |  | 6,544 |  | 6,544 |
| 1918. | 5,846 |  | 5, 844 |  | 5,816 |
| 1919 | 8, 228 | 50 | 8,278 |  | 8,278 |
| 1920 | 10,005 | 120 | 10, 125 |  | 10,125 |
| 1921 | 14, 866 | 120 | 14,986 |  | 14,986 |
| 1822 | 23,947 | 120 | 24, 067 |  | 24,067 |
| 1823 | 34, 839 | 120 | 34,959 |  | 34,959 |
| 1924 | 36,208 | 120 | 36, 328 |  | 36, 328 |
| 1925. | 49,4z̈ | 1,620 | 51,049 |  | 51,049 |
| 1926 | 60, 073 | 2, 620 | 62, 693 |  | 62,693 |
| 1927 | 70,408 | 5, 147 | 75, 555 |  | - 75,555 |
| 1929 | 91, 232 | 6,000 | 97, 232 | 165 | 97, 387 |
| 1929. | 112,954 | 8, 445 | 121, 399 | 500 | 121,899 |
| 1930 | 117, 543 | 9, 790 | 127, 333 | 350 | 127,683 |
| 1931 | 135, 249 | 15, 630 | 15, 879 | 880 | 151,759 |
| 1939 | 116, 379 | 18,291 | 134, 670 | 1,100 | 135, 770 |
| 1'333. | 172, 402 | 41,096 | 213, 498 | 2, 100 | 215, 598 |
| 1231 | 170, 307 | 38, 014 | 208, 321 | 2,200 | 210, 521 |
| 19.5 | 202,010 | 55, 547 | 257, 557 | 4,600 | 262,157 |
| 193 | 214,926 | 62, 712 | 277, 638 | 12, 300 | 289,938 |
| 193. | 239, 316 | 82, 38.5 | 321, 681 | 20, 244 | 341, 925 |
| 1938 | 181,795 | 76,121 | 257, 916 | 29,833 | 287, 749 |

1 Source: Trxtile
2 Production of n'ir mics B:urasu, Inc., Rayon Organon.
In 1938, acetate yarn accounted for 29.5 percent of the total domestic rayon yarn, but accounted for a lesser proportion of the world production. Rayon yarn produced by this process has accounted for a larger proportion of the total each year. The production of rayon staple fiber has not been as extensively developed in this country as in other countries, particularly Italy, Germany, and Japan. In 193!), the world production of rayon yarn amounted to $451,000,000$ pounds and the rayon staple fiber amounted to $6,000,000$ pounds, whereas in, 1937 the werli ravon yarn production was $1,205.000,000$ pounds as compared to $618,000,000$ pounds of rayon staple fiber. In $1930^{\circ}$, the world production of staple fiber prastically equaled the yarn production, as estimated figures give the world purit stion of rayon yarn as $975,000,000$ pounds and of rayon staple fiber as $925,000,000$ pounds. This compares with the domestic production of rayon yarn of $258,000,000$ pounds and of rayon staple fiber of $30,000,000$ pounds. Thus, it is evident that rayon stapie fiber, which to some extent is a substitute for cotton and wool, is used more widely in other countries than in the United

States. The domestic production of staple fiber does not equal the consumption although there has been a continuous increase in the domestic production. For instance, in 1938, the domestic production increased nearly 50 percent over 1937, whereas imports increased only about 15 percent. In 1938, the imports of rayon staple fiber amounted to about $24,000,000$ pounds as compared to $30,000,000$ pounds of domestic production.

In regard to the domestic production of rayon yard and staple fiber, it is significant to compare the production by the eight companies covered in this study to the total. In 1938, three of these companies accounted for 67 percent of the total and all eight accounted for 91 percent of the total domestic production of rayon yarn and staple fiber. As stated before, American Viscose Corporation accounted for 100 percent of the domestic production prior to 1920 ; therefore, the ratios accounted for by each of the three large companies and by the five small companies as a group, shown in the following tabulation, are for the period from 1920 to 1938, inclusive.

Proportion of the total United States production of rayon yarn and staple fiber by all processes accounted for by each of the 3 large companies and by 5 smaller companies combined, from 1920 to 1938, inclusive

| Year | Number of companies | American Viscose Corporation | $\begin{array}{\|c} \text { E.I. } \\ \text { du Pont } \\ \text { de } \\ \text { Nemours } \\ \& \text { Co. } \end{array}$ | Celanese Corporation of America | $\begin{aligned} & 5 \text { smaller } \\ & \text { com- } \\ & \text { panies } \\ & \text { com- } \\ & \text { bined 2 } \end{aligned}$ | Combined percentage of total United States production |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1920 | 1 | Perceint | Percent | Percent | Percent | Percent 99 |
| 1921. | 4 | 92 | 2 |  | 4 | 98 |
| 1922 | 5 | 82 | 6 |  | 12 | 100 |
| 1923 | 5 | 78 | 8 |  | 13 | 99 |
| 1924 | 5 | 73 | 10 |  | 17 | 100 |
| 1925 | 6 | 68 | 13 | 1 | 16 | 98 |
| 1926 | 6 | 59 | 17 | 1 | 16 | 93 |
| 1927 | 7 | 54 | 20 | 3 | 16 | 93 |
| 1928 | 7 | 56 | 19 | 3 | 14 | 92 |
| 1929. | 9 | 52 | 21 | 4 | 17 | 94 |
| 1930 | 8 | 42 | 17 | 5 | 26 | 90 |
| 1931 | 8 | 39 | 17 | 6 | 28 | 90 |
| 1932 | 8 | 34 | 16 | 7 | 29 | 86 |
| 1933 | 8 | 35 | 16 | 10 | 25 | 86 |
| 1934 | 8 | 34 | 20 | 11 | 27 | 92 |
| 1935 | 8 | 35 | 20 | 14 | 23 | 92 |
| 1936 | 8 | 33 | 21 | 14 | 23 | 91 |
| 1937 | 8 | 32 | 22 | 14 | 20 | 88 |
| 1938 | 8 | 30 | 22 | 15 | 24 | 91 |

${ }_{2}^{1}$ Prior to 1920, American Viscose Corporation produced 100 percent of the total domestic production. ${ }_{2}{ }^{5}$ companies combined include Industrial Rayon Corporation, 1922-38; the American Enka Corporation, 1929-38; North American Rayon Corporation, 1929-38; American Bemberg Corporation, 1927-38; and Tubize-Chatillon Corporation, 1930-38; together with the latter company's predecessors, namely, Tubize Artificial Silk Co. and American Chatillon Corporation from 1921 to 1929, inclusive.

The foregoing tabulation includes both rayon yarn and rayon staple fiber. The viscose, nitrocellulose, and cúprammonium processes are somewhat similar, and for the purpose of this study there was no segregation of production between these processes. Seven of the eight companies used one or more of these three processes in making rayon yarn. However, none used the nitrocellulose process after 1934. One company used the cuprammonium process. Only four of the eight companies used the acetate process. Celanese Corporation of America used the acetate process exclusively and apparently was the sole company using this process for a number of years after its organization in 1918 and continued to be the most important producer by the acetate process as it accounted for 57 percent of the total in 1938. The acetate process has become increasingly important so that in 1938 nearly 30 percent of all domestic rayon yarn was produced by this process. The following two tabulations show, first, the proportions of rayon yarn produced by seven companies using either the viscose, nitrocellulose or cuprammonium process and, secondly, the proportion produced by each company using the acetate process.

Proportion of the total United States production of rayon yarn by the viscose, nitrocellulose ${ }^{1}$ and cuprammonium processes, accounted for by $\gamma$ companies ${ }^{2}$ from1920 to 1938 , inclusive

| Year | Number of companies | American Viscose Corporation | E. I. duPont de Nemours \& Co. | 5 smaller compan${ }^{\text {ies com- }}$ bined ${ }^{3}$ | Com- <br> bined per- <br> centage <br> of total <br> United <br> States <br> produc- <br> tion? |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1920 | 1 | Percent | Percent | Percent | Percent 100 |
| 1921 | 4 | 93 | 2 | 5 | 100 |
| 1922 | 5 | 82 | 6 | 12 | 100 |
| 1923 | 5 | 79 | 8 | 13 | 100 |
| 1924 | 5 | 73 | 10 | 17 | 100 |
| 1925. | 5 | 70 | 14 | 16 | 100 |
| 1926 | 5 | 62 | 18 | 17 | 97 |
| 1927 | ${ }^{6}$ | 58 | 21 | 16 | 95 |
| 1928 | 6 | 59 | 20 | 15 | 94 |
| 1929. | 8 | 56 | 22 | 18 | 96 |
| 1930 | 7 | 46 | 17 | 28 | 91 |
| 1931 | 7 | 43 | 17 | 31 | 91 |
| 1932 | 7 | 39 | 17 | 34 | 90 |
| 1933 | 7 | 42 | 17 | 33 | 92 |
| 1934. | 7 | 40 | 20 | 33 | 93 |
| 1935. | 7 | 43 | 20 | 28 | 91 |
| 1935 | 7 | 40 | 22 | 32 | 94 |
| 1937. | 7 | 40 | 22 | 29 | 91 |
| 1935. | 7 | 33 | 22 | 37 | 92 |

${ }^{1}$ There has been no production in the Uniter States by the nitrocellulose process since 1934.
${ }^{2}$ Of the 8 companies covered. there was 1 which produced rayon yarn and staple fiber exclusively by the acetate process, thus only 7 of the 8 used either the viscose, nitrocellulose, or cuprammonium processes.
${ }^{3} 5$ companies combined includes Industrial Rayon Corporation, 1922-38, the American Enka Corporation, 1929-38, North American R\&yon Corporation, 1929-38, American Bemberg Corporation, 1927-38, and Tubize-Chatillon Corporation, 1930-38, together with the latter company's predecessors, namely, Tubize Artificial Silk Co. and American Chatillon Corporation, from 1921 to 1929 , inclusive.

Proportion of the United States production of rayon yarn accounted for by each company using the acctate process, 1929-98

| Year | $\begin{array}{\|c\|} \text { American } \\ \text { Viscose } \\ \text { Corpora- } \\ \text { tion } \end{array}$ | E. I. duPont de Nemours \& Co . | Celanese CorporaAmerica | TubizeChatillon Corporation | Com- <br> bined per- <br> centage <br> of total <br> United <br> States <br> production |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1929 \ldots$ $1930 \ldots$ 1931. 1932. 1933. 1934 1935. 1936 1937 1938 1 | Percent <br> $-\cdots$ <br> 2 <br> 2 <br> 6 <br> 6 <br> 8 <br> 10 <br> 12 <br> 11 <br> 12 | Percent <br> --9 <br> 9 <br> 9 <br> 7 <br> 10 <br> 15 <br> 15 <br> 15 <br> 18 | Percent 60 67 54 52 53 61 68 63 56 57 | Percent <br> 2 9 <br> 2 9 4 3 2 2 <br> (1) | Percent $\begin{aligned} & 62 \\ & 87 \\ & 69 \\ & 70 \\ & 68 \\ & 79 \\ & 93 \\ & 91 \\ & 84 \\ & 91 \end{aligned}$ |

${ }^{1}$ Less than one-balf of 1 percent.
It was previously pointed out that the use of rayon staple fiber in the United States has not progressed as rapidly as in other countries but that in recent years it has become increasingly important. Prior to 1935, the only domestic producer of staple fiber was E. I. du Pont de Nemours \& Co. Staple fiber was not produced prior to 1926 and even in 1934 the production was less than $3,000,000$ pounds and during the period from 1926 to 1934, inclusive, it was all produced by the one company. By 1938, the production had jumped to nearly $30,000,000$ pounds. Of the 8 companies covered in this study, there were 3 producing staple fiber in commercial quantities at the end of 1938 , and they accounted for 88 percent of
the total domestic production. This is illustrated in the following tabulation covering the years 1935 to 1938, inclusive:
Proportion of the United States production of rayon staple fiber accounted for by each company, 1935-38

| Year | American Viscose Corporation | E. I. du Pont de Nemours \& Co. | Industrial Rayon Cor poration | Combined percentage of total United States production |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1935 \\ & 1936 \\ & 1937 \\ & 1338 \end{aligned}$ | Percent $\begin{aligned} & 16 \\ & 30 \\ & 29 \\ & 54 \end{aligned}$ | Percent $\begin{aligned} & 70 \\ & 48 \end{aligned}$ $\begin{aligned} & 50 \\ & 32 \end{aligned}$ |  | Percent 86 78 79 88 |

1 Less than one-half of 1 percent.
The tremendous growth of the domestic use of rayon as compared to other textiles is illustrated heretofore in the production data and is also forcefully portrayed in the following chart, showing the quantities foonsumed of rayon yarn and competing yarns. In recent years, there have been relatively small amounts of rayon yarn exported or imported, except there have been some imports of staple fiber. Thus, the relative quantities of domestic production and consumption in the aggregate are not greatly different. However, sometimes there were rather large differences between the annual amounts produced and the amounts consumed for the reason that in certain years the anticipated demand did not materialize and part of the production was carried over to the next year. The following chart shows the pounds consumed domestically of cotton, wool, rayon, and silk, from 1920 to 1938, inclusive.

## Price Trends

The foregoing chart, showing the trends of consumption of rayon yarn, was prepared from data on pages 56 and 57 of Rayon and Staple Fiber Handbook, Third Edition. ${ }^{1}$ It is of interest to correlate the rayon production and consumption shown heretofore with the price of rayon as these price trends definitely reflect the influence of the earlier monopolistic position of American Viscose Corporation and the later competitive conditions in the industry.

The trend of the price of rayon yarn ranged upward from $\$ 1.85$ per pound in 1911 to $\$ 6$ in 1920 and down to 55 cents in 1932. From 1932 to 1938, inclusive, the price ranged from 49 to 65 cents. The prices per pound of 150 denier rayon yarn produced under the viscose process are quoted below from page 46 of Rayon and Staple Fiber Handbook, Third Edition. The dates represent the day on which the given list price went into effect and that price continued in effect until the next price announcement.

Nov. 11, 1911
Apr. 21, 1914
Nov. 16, 1915
Dec. 16, 1915
Oct. 1, 1916
Nov. 1, 1916
Dec. 1, 1916
May 1, 1917
Aug. 1, 1917
Oct. 1, 1917
June 1, 1918
Sept. 25, 1919
Feb. 1, 1920
May 7, 1920
Sept. 1, 1920
Oct. 1, 1920
Apr. 15, 1921
Sept. 1, 1921
Feb. 1, 1924
July 1, 1926
Dec. 1, 1926
Mar. 16, 1927
$\$ 1.85$
Feb. 25, 1929
\$1. 30
2. 00 June 18, 1929

1. 15
2. 50 July 22, 1930

95
3. 00 Jan. 9,1931 ------------------------------ 75
3. 30 May 26, 1932

65
3. 50 June 21, 1932--------------------------- .55
3. 55 Aug. 29, 1932
3. 80 Apr. 3, 1933

50



5. 50 May 24, 1934------------------- . 55



2. 55 Aug. 8, 1935--.-.-------------- . 57
2. 70 June 15, 1936------------------- 60
2. 80 Apr. 12, 1937------------------- . 63
2. 05 Jan. 14, 1938------------------ . 59

1. 65 Jan. 21, 1938------------------- . 54
2. 45 May 20, 1938------------------------ . 49
3. 50 July 29, 1938 ------------------- . . 51

It may be of interest to compare the wholesale prices of cotton, wool, silk, and rayon yarns. It will be noted from the following tabulation that the trends of prices of rayon and silk were quite comparable. The following tabulation is copied from page 26 of a Report on Development and Use of Rayon and Other Synthetic Fibers by Bureau of Agricultural Economics.
Prices and index nữíbers ${ }^{1}$ of cotton, wool, silk, and rayon yarns, United States, 1921 to 1937

| Calendar year | Cotton ${ }^{2}$ price index |  | Wool ${ }^{3}$ price index |  | Silk ${ }^{4}$ price index |  | Rayon ${ }^{8}$ price index |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dollars per pound | Percent | Dollars per pound | Percent | Dollars per pound | Percent | Dollars per pound | Percent |
| 1921. | 0.66 | 90 | 1.18 | 69 | 6.57 | 92 | 2. 67 |  |
| 1922 | . 72 | 99 | 1. 41 | 82 | 7.65 | 107 | 2.80 |  |
| 1923 | . 77 | 105 | 1.73 | 101 | 8.65 | 121 | 2. 80 | 12\% |
| 1924 | . 72 | 99 | 1. 69 | 99 | 6. 25 | 87 | 2.11 | 92 |
| 1925 | . 70 | 96 | 1. 72 | 100 | 6.57 | 92 | 2.00 | 87 |
| 1926 | . 58 | 79 | 1.44 | 84 | 6. 19 | 86 | 1.81 | 79 |
| 1927. | . 55 | 75 | 1. 37 | 80 | 5. 44 | 76 | 1. 49 | 65 |
| 1928 | . 54 | 74 | 1. 55 | 91 | 5.07 | 71 | 1. 50 | 65 |
| 1929. | . 54 | 74 | 1. 49 | 87 | 4.93 | 69 | 1.24 | 54 |
| 1930 | . 47 | 64 | 1. 24 | 72 | 3.42 | 48 | 1.05 | 46 |
| 1931 | . 37 | 51 | 1.00 | 58 | 2.40 | 34 | . 75 | 33 |
| 1932 | . 31 | 42 | . 84 | 49 | 1. 56 | 22 | . 64 | 28 |
| 1933 | . 41 | 56 | 1.08 | 63 | 1. 61 | 22 | . 61 | 26 |
| 1934 | . 46 | 63 | 1. 25 | 73 | 1.30 | 18 | . 59 | 26 |
| 1935 | . 45 | 62 | 1. 13 | 66 | 1. 63 | 23 | . 57 | 25 |
| 1936. | . 42 | 58 | 1. 31 | 77 | 1.77 | 25 | . 59 | 26 |
| 1937. | . 44 | 60 | 1. 38 | 81 | 1.86 | 26 | . 62 | 27 |

${ }^{1}$ Base is the average of the 3 years 1923, 1924, and 1925.
${ }^{2}$ A verage midmonth contract prices of 40 's single combed peeler yarn, New York.
${ }^{3}$ Worsted yarn, 32 's white, crossbred stock, factory.
4 Japanese silk yarn, 78 percent, crack, xx, $13 / 15$ denier, white, New York.
${ }^{8}$ A grade, 150 denier, continuous filament rayon, first quality. New York.
Bureau of Agricultural Economics. Prices are Bureau of Labor Statistcis wholesale prices except cotton yarn prices.

## GROWTH OF DOMESTIC CORPORATIONS MANUFACTURING RAYON

The carlier history of rayon companies centers around the patents on manufacturing processes but since the expiration of the basic viscose patents in 1919 the development of corporations has been on a more competitive basis..

Several companies were formed prior to 1910, but none of these was successful. The first company was formed in Boston just prior to 1900 to use the Cross and Bevan process. This company was the American Viscose Co., which was in no way connected with the present company of the same name. Another unsuccessful company was the Cellulose Products Co. organized in 1900. In the next year, 1901, General Artificial Silk Co. was formed, and, although it was refinanced several times and produced as much as several hundred pounds of rayon yarn per day, it nevertheless was an unsuccessful venture. It used the Cross and Bevan process through permission from Cellulose Products. Co. Silas W. Pettit, who was the largest stockholder of General Artificial Silk Co., acquired in 1904 from Cellulose Products Co. the rights to the use of the Cross and Bevan process and to use the spinning processcs. He operated under the name, Genasco Silk Works and produced as much as five or six hundred pounds of yarn per day but his operations were unprofitable. All the rights of Silas W. Pettit were purchased by Courtaulds, Ltd., a British rayon firm in 1910.

Courtaulds, Ltd., is controlled by the Courtaulds family, which successfully made rayon yarn in England as early as 1904. Large profits were made from the business and after acquiring the rights of Silas W. Pettit it formed the American Viscose Co., a predecessor of American Viscose Corporation. This company was successful from the very first and still is the largest producer of rayon in the United States. Throughout this period control of these companies was retained by the Courtaulds family. During the period from 1910 to 1919, American Viscose Corporation, or predecessors, through patents had a monopoly in the rayon business, and was the only domestic producer of rayon yarn. In 1920, other companies began to come into this industry and, in 1939, there were about 29 companies producing rayon yarn and staple fiber. The proportion of the total United States production of rayon yarn and staple fiber by American Viscose

Corporation has been decreasing each year and dropped from 100 percent in 1919 to about 30 percent in 1938. However, American Viscose Corporation and the other 7 companies covered in this report account for about 91 percent of the total production. Therefore, the other 21 companies in this industry have not obtained a very large share of the business. There is one rather important producer of rayon included among the companies not covered herein. That producer is Eastman Kodak Co. However, the cellulose products produced by that company are used for many things other than the manufacture of rayon yarn.

The history and organization of some of the more important rayon companies are briefly reviewed here.

## ORGANIZATION OF AMERICAN VISCOSE CORPORATION AND PREDECESSORS

A knowledge of the processes, formulas, etc., with the full and free right to use this knowledge was indispensable to the successful development of the artificial silk industry in America by the Viscose process. American Viscose Co., organized in 1909, was using on a royalty basis certain specified patents owned by Courtaulds, Ltd., under a contractual arrangement. This arrangement was terminated on May 20, 1915, and superseded by a new contract as of that date under which the patents were to be transferred outright to American Viscose Co. At this time, a new corporation, the Viscose Co., was organized and succeeded to all the property, patent rights, and processes of Amcrican Viscose Co. which then passed out of existence. The Viscose Co. was owned by American Viscose Corporation which in turn was controlled by Courtaulds, Ltd. Later, the Viscose Co. was dissolved and American Viscose Corporation operated the properties and business.

The Viscose Co. was incorporated in Pennsylvania on May 20, 1915, with an authorized capitalization of $\$ 10,000,000$. On that date, the new company purchased the assets of its predecessor, American Viscose Co. In consideration of the transfer of the assets of the predecessor corporation to it, the Viscose Co. issued to American Viscose Co. $\$ 9,999,500$ of its capital stock, paid $\$ 500$ cash and acquired all of the contracts and assumed all of the liabilities of the predecessor.

The tangible assets of American Viscose Co. were carried on its books at $\$ 3,731,559.58$ and the liabilities at $\$ 99,977.31$ indicating a net book value of tangible assets of $\$ 3,631,582.27$. 'The Viscose Co. recorded the same value upon its books and $\$ 500$ paid in cash, making the value of its net tangible assets $\$ 3,632,082.27$. The difference between this latter sum and the $\$ 10,000,000$ par value of the stock, amounting to $\$ 6,367,917.73$ was entered upon the books of the Viscose Co. as goodwill.

The transfer of all the assets of American Viscose Co. to the Viscose Co. and the consideration issued therefor was effected by an agreement dated May 20, 1915, between these two companies. This contract also provided, among other things, for the transfer to the new company of certain patents which the predecessor had been using under a royalty agreement with Courtaulds, Ltd., and which had been acquired outright by the predecessor under an agreement with Courtaulds, dated May 20, 1915, just prior to the transfer of the predecessor's net assets to the new company. The contract effecting the transfer of all the net assets, patents, and business by the predecessor, American Viscose Co., to the newly organized Viscose Co. also provided that on delivery of a proper assignment of the patents, the purchaser was to pay Courtaulds, Ltd., $\$ 5,000,000$ in installments of $\$ 500,000$ each on December 31 of each of the years 1915 to 1924, inclusive, together with interest, half yearly, at the rate of ${ }^{\circ} 6$ percent per annum from and including May 20, 1915. These payments are not represented in the above statement.

The American Viscose Corporation was organized by Courtaulds, Ltd., in 1922, as a holding company to acquire the capital stocks of the Viscose Co. and a newly formed company, Viscose Corporation of Virginia. In May 1937, these two subsidiary operating companies were merged with American Viscose Corporation.

American Viscose Corporation is engaged almost solely in the production of rayon yarns and staple fiber, while some of the other rayon companies also produce other cellulose products. American Viscose Corporation manufactures rayon yarn and staple fiber by the viscose and acetate processes. The quantities produced by this company and the relation to the total domestic production from 1920 to 1938, inclusive, were presented heretofore. Prior to 1920, this company was the only domestic producer of rayon yarn.

## HISTORY OF E. I. DU PONT DE NEMOURS \& COMPANY

This company was known primarily as a manufacturer of explosives prior to the World War but now is considered as a diversified chemical manufacturer. Its products include organic chemicals (such as dyestuffs and ethyl alcohol), fabrics and finishes (such as rubber-coated fabrics and paint and varnish), rayon, cellophane, cellulose film, inorganic heavy chemicals, explosives, electro chemicals, ammonia, pigments, plastics, and smokeless powder. This company holds an important position in the rayon industry and has recently completed a plant for the production of "Nylon" yarn, an extremely tough synthetic material, that has many uses for which ordinary rayon yarn is not adaptable.
E. I. du Pont de Nemours \& Co. was incorporated in 1915 to acquire the assets and business of E. I. du Pont de Nemours Powder Co.; which had been organized in 1903, but the business originally had been founded in 1802. Prior to 1915, the Powder Co. had acquired approximately 100 companies and since 1915 many important companies have been acquired. The acquisition of the rayon company is the only one specifically mentioned here. Du Pont Rayon Co., incorporated in 1920 as du Pont Fibersilk Co., was controlled 60 percent by Du Pont and 40 percent by French interests until 1929, when Du Pont acquired 100 percent control. In 1936, du Pont Rayon Co. was dissolved and the rayon business has since been conducted as a department of E. I. du Pont de Nemours \& Co. This company produces rayon yarn and staple fiber by the viscose and acetate processes. From 1926 to 1933, inclusive, this company was the only domestic producer of staple fiber.

## CELANESE CORPORATION OF AMERICA

This company was incorporated January 5, 1918, in Delaware, under the name, American Cellulose \& Chemical Manufacturing Co. Ltd., and the name was changed to the present title in 1927. This company has expanded with the growth of the rayon business and is considered the third largest rayon producer. This company is reported to have recently developed a new yarn 4 or 5 times as strong as rayon for use in hosiery and tire fabrics.

This corporation was formed to make cellulose acetate, under the Dreyfuss patents and processes. It has not confined its operations entirely to the production of rayon yarn and stable fiber, as it. also has weaving plants. It also controls Celluloid Corporation through ownership of 51 percent of the stock, which company manufactures plastic products.

## INDUSTRIAL RAYON CORPORATION

This company was organized in 1925 to acquire control of Industrial Fibre Corporation. In 1936, Industrial Rayon Corporation organized and continued to control, as a wholly owned subsidiary, Rayon Machinery Corporation, which is engaged in designing, developing, and partially manufacturing machines for producing rayon yarn and staple fibcr by a mechanized continuous process.

## TUBIZE-CHATILLON CORPORATION

This company was organized in 1930, and merged Tubize Artificial Silk Co. and American Chatilion Corporation. In 1333, it acquired Argus Knitting Mills, Inc., and Janome Raynn Corporation which were engaged in knitting and manufacturing underwear. Tubize-Chatillon Corporation or its predecessors produced rayon yarn by the mitrocellulose process from 1921 to 1934 , inclusive, and by both the viscose and acetate processes from 1929 to 1938 , inclusive.

NORTH AMERICAN PAYON CORPORATION, THE AMERICAN ENKA CORPORATION, AND: AMEIICAN HEMBERG CORPORATION

These three corporations are in some manner affiliated or associated with each other. For instance, the American Enka Corporation is controlled by Algemeene Kunstzijde Unie N. V. (A. K. U.) General Rayon Union, while North American Rayon Corporation is affiliated with Algemeene Kunstzijde Unie, N. V., and Vereinigte Glanzstoff-Fabriken, A. G. Also, North American Rayon Corporation and American Bemberg Corporation have identical officers and practically all of the directors of each are identical.

North American Rayon Corporation was organized in 1927 for the purpose of manufacturing viscose artificial silk, artificial straw, and artificial horsehair. The company has exclusive rights in the United States to use all patents and processes of Vereinigte Glanzstoff-Fabriken, A. G.

The American Enka Corporation, incorporated in 1928, operates under the licenses, technical and organizing assistance of the Dutch "Enka" in the production of viscose rayon yarns.

American Bemberg Corporation was organized in 1925 to manufacture rayon yarns by the cuprammonium process. This company acquired the sole rights within the United States to all the patents and processes of J. P. Bemberg, A. G., Germany.

## Investments, Profits, and Rates of Return

The profitableness of the rayon producers, expressed in rates of return on investments, is indicated for all eight companies, individually and as a group, from 1915 to 1938, inclusive, on two bases, namely total investment and stockholders' investment. The total investment consisted of long-term borrowings, stocks outstanding, surplus and surplus reserves. The stockholders' investment included all those items except long-term borrowings. Inasmuch as some of these rayon companies had only small bond issues or other long-term debt. the total investment is only slightly greater than the stockholders' investment and the rates of return are only slightly higher on the stockholders' investment.

The period covered by this study began with 1915 and ended with 1938. It has been previously explained that American Viscose Corporation was the only domestic rayon company operating from 1910 to 1919, inclusive, for the reason that that company held patents which gave it exclusive rights during that period Therefore, rates of return are available for only one company from 1915 to 1920, inclusive, two companies from 1921 to 1924, inclusive, and additional companies thereafter so that data are available for a maximum of eight companies in 1933 and for each year through 1938.

Table 1, which follows, shows the rates of return for a maximum of eight of the principal rayon companies as a group. The total investments and stockholders' investments, together with the net profit applicable thereto, before deductions of Federal income and profits taxes, also appear in this table.

Table 1.-Investments, profits, and rates of return on total investment and stockholders' investment of principal rayon companics, 1915-98

| lear | Number of companies | Investments ! |  | Net. profit ${ }^{2}$ applicable |  | Rate of return on |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total inrestment | Stockholders' investment | Total investment | Stockholders' investment | Tolal investment | St.ock holders' investment |
| 1915 |  |  |  |  |  | Percent 26.32 | Percent 26. 32 |
| 1916. | 1 | 8, 515, 125 | 8,515, 125 | 9, 297. 590 | 9, 297, 590 | 109. 19 | 109.19 |
| 1917 | 1 | 14, 115, 235 | 14, 11.5, 295 | 13, 544, 710 | 13, 544, 710 | 95.96 | 95. 96 |
| 1918 | 1 | 21, 493, 151 | 21, 493, 151 | 14,935,062 | 14, 935, 062 | 69.49 | 69.49 |
| 1919 | 1 | 30, 452, 940 | 30, 452,940 | 29, 543, 991 | 29, 513,991 | 97.02 | 97.02 |
| 1920 | 1 | 40, $718,557$. | 40, 718, 557 | 26, 143,901 | 26, 143, 901 | 64. 21 | 64.21 |
| 1921 | 2 | 51, 233, 438 | 51, 233, 438 | 21, 514, 935 | 21,514, 935 | 41.99 | 41.99 |
| 1922 | 2 | 65, 993, 964 | 65, 993, 964 | 33, 074, 712 | 33, 074, 742 | 50.12 | 50.12 |
| 1923 | 2 | 89, 088,674 | 87, 088,674 | 38, 442, 134 | 38, 442, 134 | 43.15 | 43.15 |
| 1924 | 2 | 110, 609, 981 | 110, 609, 981 | 29, 569, 118 | 29,569, 118 | 26. 73 | 26.73 |
| 1925 | 3 | 141, 686, 961 | 139, 626, 786 | 43, 363, 059 | 43, 285, 459 | 30. 60 | 31.00 |
| 1926 | 4 | 159, 274, 707 | 155, 515, 337 | 32, 076, 675 | 31, 819, 525 | 20.14 | 20.46 |
| 1927 | 4 | 166, 747, 563 | 164, 540, 948 | 42, 952, 358 | 42, 895, 093 | 25. 76 | 26.07 |
| 1928 | 5 | 199, 075, 705 | 198, 354, 567 | 48, 755, 802 | 48, 732, 505 | 24.49 | 24. 57 |
| , 1929 | 6 | 227, 972, 035 | 227, 474, 520 | 41, 139, 382 | 41, 104, 440 | 18. 05 | 18.07 |
| 1930 | 7 | 244, 580, 148 | 244, 129, 132 | 12,136, 617 | 12, 118, 707 | 4.96 | 4.96 |
| 1931 | 7 | 234, 468, 037 | 234, 184, 986 | 7, 864, 173 | 7, 849, 009 | 3.35 | 3.35 |
| 1932 | 7 | 223, 194, 878 | 222, 992, 562 | 3, 270, 88.4 | 3, 262, 728 | 1. 47 | 1. 46 |
| 1933 | 8 | 238, 337, 272 | 236, 310, 948 | 28, 979, 503 | 28,847, 518 | 12. 16 | 12. 21 |
| 1934 | 8 | 249, 887, 924 | 247, 263, 836 | 17, 204, 637 | 17, 080, 926 | 6. 88 | 6.91 |
| 1935 | 8 | 255, 413, 411 | 250, 509, 172 | 17, 223, 195 | 17,036, 317 | 6. 71 | 6. 80 |
| 1936 | 8 | 267, 014, 691 | 261, 190, 221 | 30,632, 027 | 30, 420, 669 | 11.47 | 11. 65 |
| 1937 | 8 | 281, 347, 564 | 275, 192, 838 | 34, 154, 084 | 33, 880, 661 | 12.14 | 12.31 |
| 1938 | 8 | 298, 603, 637 | 282, 568, 454 | 7,537, 214 | 6,884, 305 | 2.52 | 2. 44 |
| A verage |  | 206, 493, 948 | 202, 293, 883 | 28, 886, 293 | 28,688, 413 | 13.99 | 14.18 |

[^108]It will be observed from the foregoing table that the average annual rate of return during the 24 -year period, $1915-38$, for these rayon companies combined was 13.99 percent on the total investment and 14.18 percent on the stockholders' investment. Very high rates of return were made from 1916 to 1920 , inclusive ranging from 64.21 to 109.19 percent on the total investment and the same-on the stockholders' investment. During the period from 1921 to 1929, inclusive, they ranged from 18.05 to 50.12 percent on the total investment. The profits dropped to 4.96 percent in 1930, and continued to decline to 1.47 percent in 1932. They recovered sharply in 1933 when profits of 12.16 percent were made. During the next 2 years the profits were 6.88 percent and 6.74 percent while during 1936 and 1937 they were 11.47 percent and 12.14 percent, respectively. During 1938 the profits were much lower, amounting to 2.52 percent on the total investment and 2.44 percent on the stockholders' investment.

For the reason that new companies were added from time to time and the business of most of the respective companies increased necessitating enlargements of plants, the combined investments of these companies increaed each year, with the exception of 1930,1931 , and 1932, from $\$ 7,802,514$ in 1915 to $\$ 298,603,637$ in 1938. However, the trend of growth in the investments of all the individual companies was not as regular as the trend of the combined investments would indicate. For instance, the total investment of American Viscose Corporation increased from $\$ 7,802,514$ in 1915, to $\$ 125,343,834$ in 1926 , and decreased to $\$ 114,371,246$ in 1938 . However, the investment of this company was not solely confined to the rayon business. Its investment in the rayon business amounted to only $\$ 51,835,009$ in 1926 , and $\$ 72,292,865$ in 1938. The investments, profits, and rates of return of American Viscose Corporation on the total investment and the investment in the rayon business are discussed fully in another part of this report. The investment of the rayon department of E. I. du Pont de Nemours \& Co. increased from $\$ 2,873,357$ in 1921 , to $\$ 61,658,741$ in 1938, while for Celanese Corporation of America the increase was from $\$ 8,893,505$ in 1925, to $\$ 53,803,381$ in 1938. The investment of Industrial Rayon Corporation increased from $\$ 4,178,334$ in 1926 to $\$ 23,601,458$ in 1938. The foregoing pronounced increases contrast with the very small increases of from $\$ 15,753,987$ in 1930 , to $\$ 16,813,874$ in 1938 for the American Enka Corporation and from $\$ 10,315,022$ in 1929 to $\$ 12,201,734$ in 1938 for North American Rayon Corporation. For 2 companies there were decreases. The investment of Tubize-Chatillon Corporation decreased from $\$ 12,498,074$ in 1933 to $\$ 11,324,620$ in 1938 while for American Bemberg Corporation the decrease was from $\$ 8,214,378$ in 1928 to $\$ 4,828,583$ in 1938.

Table 2, which follows, shows the total investment averaged annually for each of the eight rayon companies for the period for which the data are available from 1915 to 1938, inclusive:
Table 2.-Total investment of principal rayon companies, 1915-38

| Year | Americsn Viscose Corporation | Rayon department of E. I. du Pont de Nemours \& Co. | Celanese Corporation of America | Industrial Rayon Corporation | The American Enka Corporation | North American Rayon Corporation | Tubize Chatillon Corporation | American Bemberg Corporation | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1915 | \$7, 802, 514 |  |  |  |  |  |  |  | \$7, 802, 514 |
| 1916 | 8, 515, 125 |  |  |  |  |  |  |  | $8,515,125$ $14,115,285$ |
| 1917 | 14, 115, 285 |  |  |  |  |  |  |  | $\begin{aligned} & 14,115,285 \\ & 21,493,151 \end{aligned}$ |
| 1918 | 21, 493, 151 |  |  |  |  |  |  |  | 30, 452, 940 |
| 1919 | 30, 452, 940 |  |  |  |  |  |  |  | $\begin{aligned} & 30,452,940 \\ & 40,718,557 \end{aligned}$ |
| 1920 | $40,718,557$ $48,360,081$ |  |  |  |  |  |  |  | 51, 233, 438 |
| 1921 | $48,360,081$ $61,975,409$ | $\$ 2,873,357$ $4,018,555$ |  |  |  |  |  |  | 65, 993, 964 |
| 1923 | 82, 789, 989 | 6, 298,685 |  | ----------- | ----------.-. |  |  |  | 89, 083, 674 |
| 1924 | 101, 664, 877 | 8, 945, 104 |  |  |  |  |  |  | 110, 609,981 |
| 1925 | 118, 753, 185 | 14, 040, 271 | \$8, 893, 505 |  |  |  |  |  | 141, 686, 961 |
| 1926 | 125, 343,834 | 20, 180, 049 | $9,572,490$ | \$4, 178, 334 |  |  |  |  | 159, 274,707 |
| 1927. | 121,869, 569 | 24, 361, 800 | 16, 293, 159 | 4, 223, 035 |  |  |  |  | $166,747,563$ |
| 1928 | 123, 976, 517 | 29, 645, 159 | 28,711, 517 | 8,528,134 |  |  |  | $\$ 8,214,378$ $7,810,501$ | $199,075,705$ |
| 1929 | 122, 875, 307 | 38, 412, 481 | $35,187,053$ $35,449,720$ | $13,371,671$ $13,163,439$ |  | \$10, 13, 3 |  | 7, 810, <br> 6,61 <br> 639, | $\begin{aligned} & 227,972,035 \\ & 244,580,148 \end{aligned}$ |
| 1930 | 119, 053,547 | $41,146,085$ $37,031,338$ | $35,449,720$ $33,292,666$ | $13,163,439$ $12,477,377$ | $\$ 15,753,987$ $15,280,600$ | $13,373,471$ $13,141,370$ |  | $6,639,899$ $5,603,767$ | $\begin{aligned} & 244,580,148 \\ & 234,468,037 \end{aligned}$ |
| 1931 | 117,640,919 | $37,031,338$ $33,530,013$ | $33,292,666$ $30,724,229$ | $12,477,377$ $12,443,593$ | $15,280,600$ $14,627,682$ | $13,141,370$ $12,884,875$ |  | $\begin{aligned} & 5,603,767 \\ & 4,894,983 \end{aligned}$ | $\begin{aligned} & 234,468,037 \\ & 223.194,878 \end{aligned}$ |
| 1932 | 114, 089, 503 | 33, 530,013 | 30, 724, 229 | $12,443,593$ $14,406,070$ | $14,627,682$ $14,605,114$ | 12, 884, 875 |  | $\begin{aligned} & 4,894,983 \\ & 4,945,983 \end{aligned}$ | $\begin{aligned} & 223,194,878 \\ & 238,337,272 \end{aligned}$ |
| 1933. | 115, 490, 027 | 32, 408, 389 | 31, 955, 805 | 14, 406, 070 | 14, 605, 114 | 12, 027, 810 | \$12, 498, 074 | $4,945,983$ | $238,337,272$ |
| 1934 | 116, 099, 729 | 38,691, 167 | 35, 152, 962 | 16, 708, 360 | 14, 996, 686 | 10,967, 102 | 12, 295, 7.89 | $4,976,129$ |  |
| 1935 | 111, 710, 302 | 46, 023, 551 | 39, 565, 268 | 16, 677, 902 | $15,140,990$ | 10,631, 687 | 11, 244, 038 | 4,419,673 | 255, 413, 411 |
| 1936 | 113, 524, 244 | $50,000,317$ | 45, 539, 484 | 16, 583, 536 | 15, 573, 707 | 11, 032, 715 | 10, 364, 699 | 4, 395, 989 | 267, 014, 691 |
| 1937 | 116, 097, 461 | 54, 630, 853 | 48, 634, 999 | 18, 256,139 | 16, 330, 599 | 11, 917, 440 | $10,713,218$ | 4, 766, 855 | $281,347,564$ |
| 1938 | 114, 371, 246 | 61, 658,741 | 53, 803, 381 | 23, 601, 458 | 16, 813, 874 | 12, 201, 734 | 11, 324, 620 | 4,828,583 | 298, 603, 637 |
| Average | 86, 199, 304 | 30,216, 439 | 32, 341, 160 | 13, 432, 234 | 15, 458, 138 | 11, 849, 322 | 11, 406, 739 | 5,590, 612 | 206, 493, 948 |

The proportion of the combined investment of the eight companies that is accounted for by cach, during 1938, is shown in the following tabulation in which the investment in the rayon business alone of American Viscose Corporation was used instead of the total investment.

|  | $\begin{gathered} \text { A verage } \\ \text { investment, } \\ 1938 \end{gathered}$ | Proportion of the combined investment of the 8 companies | Proportion of the production of rayon yarn and staple fiber, 1938 |
| :---: | :---: | :---: | :---: |
| American Viscose Corporation | \$72, 292, 865 | 28 | 33 |
| Rayon department of E. I. du Pont de Nemours \& Co.. | 61, 658, 741 | 24 | 24 |
| Celanese Corp. of America | 53, 803, 381 | 21 | 17 |
| Industrial Rayon Corporation | 23, 601, 458 | 9 |  |
| The American Enka Corporation- | 16, 813, 874 | 7 |  |
| North American Rayon Corporation | 12, 201, 734 | 5 | 26 |
| Tubize-Chatillon Corporation. | 11, 324, 620 | 4 |  |
| American Bemberg Corporation | 4,828,583 | 2 |  |
| Total | 256, 525, 256 | 100 | 100 |

The relative sizes of the larger rayon companies are more readily illustrated by the percentages in the foregoing tabulation. For instance, the three largest companies had 73 percent of the total investment of the eight companies in 1938. The three smallest companies accounted for only 11 percent of the total investment of the eight companies. These ratios of investments to the total of the eight companies quite closely correspond to the ratios of individual production of rayon yarn and staple fiber combined. For example, American Viscose Corporation accounted for about 33 percent of the production of rayon yarn and staple fiber in 1938 and had 28 percent of the investment of the eight companies. The rayon department of Du Pont accounted for about 24 percent of the production of the eight companies and had 24 percent of the investment of these eight companies. For the five smaller companies combined the investment amounted to 27 percent and the production was equal to 26 percent of the total of the eight companies. Thus, it is evident that in most instances the relative quantities of rayon produced by the respective companies correspond quite closely to the investment.

As contrasted to the rather steady annual increase in the combined investments of these eight rayon companies, their coml;ned net profits followed a very erratic tread. The combined net profits increased irom $\$ 2,053,688$ in 1915 to $\$ 29,543,991$ in 1919 and from 1919 to 1929 , inclusive, ranged from $\$ 21,514,935$ to $\$ 48,755,802$. During the period from 1930 to 1938 , inclusive, the combined net profits ranged from $\$ 3,270,884$ to $\$ 34,154,084$. The combined net profits were four and one-half times larger in 1937 than in 1938, when they aggregated only $\$ 7,537,214$. The trends of net profits of the respective rayon companies are equally as irregular as the trend of the combined net profits. This is illustrated in table 3, which follows:

Table 3.-Net profit, before deductions for Federal income tax, applicable to total inves:ment for each of the principal rayon companies, 1915-38

|  | Year | American Viscose Corporation | Rayon department of E. 1. du Pont de Nemours \& Co. | Celanese Corporation of America | Industrial Rayon Corporation | The American Enka Corporstion |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1915. |  | \$2, 053, 688 |  |  |  |  |
| 1916. |  | 9, 297, 590 |  |  |  |  |
| 1917. |  | 13, 544, 710 |  |  |  |  |
| 1918 |  | 14, 935, 062 |  |  |  |  |
| 1919 |  | 29, 543, 991 |  |  |  |  |
| 1920 |  | 26, 143, 901 |  |  |  |  |
| 1921 |  | 21, 576, 076 | 1 \$61, 141 |  |  |  |
| 1922. |  | 31, 704, 164 | 1,370,578 |  |  |  |
| 1923 |  | 35, 991, 171 | 2, 450, 963 |  |  |  |
| 1924. |  | 27, 075, 432 | 2, 493, 686 |  |  |  |
| 1925. |  | 38, 461, 087 | 4,800, 112 | \$101, 860 |  |  |
| 1926. |  | 27, 261,845 | 3, 074, 091 | 1. 205,813 | \$534, 926 |  |
| 1927. |  | 31, 913, 593 | 6, 580, 831 | 3, 381.716 | 1,076,218 |  |
| 1928. |  | 35. 688, 431 | 7, 893, 343 | 2, 609, 976 | 1,878,886 |  |
| 1929. |  | 28, 790, 009 | 7, 313, 180 | 3, 477, 322 | 1,660,974 |  |
| 1930. |  | 9,608, 080 | ${ }^{1}$ 1371,946 | 2, 121, 440 | 1,760, 945 | 1 \$674, 371 |
| 1931 |  | 5, 226, 515 | 1,648, 681 | 1,010, 094 | 802, 097 | 1236,853 |
| 1932 |  | 2, 685, 497 | 407,072 | 1,066, 866 | 261, 287 | ${ }^{1} 188,511$ |
| 1933 |  | 12, 181, 462 | 4, 098, 499 | 6, 509, 556 | 2,067, 792 | 1, 294, 083 |
| 1934. |  | 8, 095, 302 | 3, 320, 703 | 3, 836, 043 | 1,558, 121 | 275, 532 |
| 1935. |  | 7,290, 195 | 2, 425, 275 | 4, 798, 491 | 709, 312 | 762, 195 |
| 1936. |  | 10,978, 817 | 5, 500, 675 | 5, 453, 712 | 1,602, 060 | 2, 665, 666 |
| 1937 |  | 11, 791, 682 | 7, 154, 255 | 5, 331, 671 | 306, 210 | 3,460,956 |
| 1938 |  | ${ }^{1} 1,900,334$ | 2, 555, 931 | 3, 225, 764 | 394, 601 | 1, 423, 144 |
|  |  | 18, 330, 748 | $3,480,821$ | 3,152, 166 | 1,124,110 | 975, 780 |
|  | Year |  | North American Rayon Corporation | TubizeChatillon Corporstion | American Bemberg Corporation | Total |
| 1915. |  |  |  |  |  | \$2, 053, 688 |
| 1916 |  |  |  |  |  | 9, 297, 590 |
| 1917 |  |  |  |  |  | 13,544, 710 |
| 1918 |  |  |  |  |  | 14, 935, 062 |
| 1919. |  |  |  |  |  | 29, 543, 991 |
| 1920. |  |  |  |  |  | 26, 143, 901 |
| 1921 |  |  |  |  |  | 21, 514, 935 |
| 1922 |  |  |  |  |  | 33, 074, 742 |
| 1923 |  |  |  |  |  | 38, 442, 134 |
| 1924. |  |  |  |  |  | 29, 569, 118 |
| 1925 |  |  |  |  |  | 43, 363, 059 |
| 1926 |  |  |  |  |  | 32, 076, 675 |
| 1927 |  |  |  |  |  | 42, 952, 358 |
| 1928. |  |  |  |  | \$685, 166 | 48, 755, 802 |
| 1929. |  |  | 1 \$98, 672 |  | 13,431 | 41, 139, 382 |
| 1930 |  |  | 174, 056 |  | ${ }^{1} 481,587$ | 12,136, 617 |
| 1931 |  |  | ${ }^{1} 41,429$ |  | ${ }^{1} 544,932$ | 7, 864, 173 |
| 1932. |  |  | 1450,967 |  | ${ }^{1} 510,360$ | 3, 270,884 |
| 1933. |  |  | 1, 513, 104 | \$590, 801 | 724, 206 | 28, 979, 503 |
| 1934 |  |  | 644, 405 | ${ }^{1} 32,995$ | 1492,474 | 17, 204, 637 |
| 1935. |  |  | 1,068, 788 | 658, 557 | ${ }^{1} 490,618$ | 17, 223, 195 |
| 1936 |  |  | 2, 399, 719 | 1,272, 209 | 759, 169 | 30, 632, 027 |
| 1937 |  |  | 2, 927, 664 | 1, 777, 907 | 1, 403, 739 | 34, 154, 084 |
| 1938 |  |  | 546, 107 | 401, 603 | 890, 398 | 7,537, 214 |
|  |  |  | 868,377 | 778,013 | 176,298 | 28, 886, 293 |

1 Denotes loss.

The rates of return for the respective rayon companies fluctuated in a wide range. The average annual rate of return for the respective companies was highest for the larger companies and was less for the smaller companies, ranging from 21.27 percent for Ameriean Viscose Corporation to 3.14 pereent for American Bemberg Corporation. However, the rates of return for the later years do not correspond to these annual averages for the period as some of the smaller companies had higher returns. As a matter of fact, in 1938, the highest rate of return was recorded for American Bemberg Corporation, the smallest company. In that year, it earned 18.48 percent on its investment, while American Viscose Corporation, the largest company, had the lowest return, amounting to a loss of 1.66 percent, which was completely contradictory to the annual averages. Two factors may largely account for the loss sustained by American Viscose Corporation in 1938. In the first place the total production of rayon yarn and staple fiber by all companies declined from $342,000,000$ pounds in 1937 to $288,000,000$ pounds in 1928 , and, secondly, the proportion of the total accounted for by American Viseose Corporation was 32 percent in 1937, and was only 30 percent in 1938, indicating a sharp decrease in sales in 1938. Even in 1937, American Viscose Corporation had the second lowest rate of return, amounting to 10.16 percent, and American Bemberg Corporation had the highest return, amounting to 29.84 percent. An impelling factor causing the average rates of return to be higher for the largest companies is that longer periods of time are covered for the larger companies and thus there were included more of the very profitable years prior to 1929 in the averages of the four largest companies. The annual rates of return on the total investment and the stockholders' investment for each company, are shown in tables 4 and 5 which follow.

Table 4.-Annual rate of return on total investment for principal rayon companies, 1915-38

| Year | American V iscose Corporation | Rayon department of E. I. dı Pont de Nemours $\& \mathrm{Co}$. | Celanese Corporation of America | Industrial Rayon Corporation | The Ameriean Enka Corporation | North American Rayou Corporation | TubizeChatilion Corporation | $\begin{gathered} \text { American } \\ \text { Bemberg } \\ \text { Corpo- } \\ \text { ration } \end{gathered}$ | $\begin{aligned} & \text { A verage } \\ & \text { for } \\ & \text { group } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1915. | Percent 36. 32 | Percent | Percent | Percent | Percent | Percent | Perccut | Percent | Percent $26.32$ |
| 1916. | 109. 19 |  |  |  |  |  |  |  | 109.19 |
| 1917. | 95.96 |  |  |  |  |  |  |  | 95.96 |
| 1918 | 69.49 |  |  |  |  |  |  |  | 69.49 |
| 1919 | 97. 62 |  |  |  |  |  |  |  | 97.02 |
| 1920 | 6i. 21 | 12.13 |  |  |  |  |  |  | 64.21 |
| 1921 | 41. 62 | 12.13 |  |  |  |  |  |  | 41.99 |
| 1922 | 51. 16 | 34. 11 |  | $\cdots$ |  |  | . |  | 50. 12 |
| 1923 | 43. 17 | 38.91 |  |  |  |  | - |  | 43. 15 |
| 1924 | 26. 613 | 27.88 |  |  |  |  |  |  | 26. 73 |
| 1925. | 32.39 | 34. 19 | 1.15 |  |  | ... |  |  | 30. 60 |
| 1926 | 21. 75 | 15. 23 | 12. 60 | 12. 80 |  |  |  |  | 20. 14 |
| 1927. | 26. 19 | 27.01 | 20.76 | 25. 48 |  |  |  |  | 25.76 |
| 1928 | 28. 79 | 2 26. 63 | 9.09 | 22. 03 |  |  |  | 8.34 | 24. 49 |
| 1929. | 23.43 | 19.04 | 9.88 | 12. 42 |  | ${ }^{1} 0.96$ |  | 1.04 | 18. 05 |
| 1930 | 8.07 | 1. 90 | 5. 98 | 13. 38 | 14.28 | 1. 30 |  | 17.25 | 4. 96 |
| 1931 | 4.44 | 4.45 | 3. 03 | 6. 43 | 1. 55 | 1. 32 |  | 19.72 | 3.35 |
| 1932 | 2. 35 | 1. 21 | 3. 47 | 2. 10 | 1. 29 | 1 3. 50 |  | :10. 43 | 1. 47 |
| 1933 | 10. 55 | 12. 65 | 20.37 | 14. 35 | 8. 96 | 12. 58 | 4. 73 | 14. 64 | 12. 16 |
| 1934. | 6.97 | 8. 58 | 10.91 | 9.33 | 1. 84 | 5.88 | 1. 27 | 19.90 | 6. 88 |
| 1935. | 6. 53 | 5. 27 | 12.13 | 4. 25 | 5. 03 | 10.06 | 5. 86 | ${ }^{1} 11.10$ | 6. 74 |
| 1936. | 9.67 | 11. 00 | 11.98 | 9. 16 | 17. 12 | 21. 75 | 12. 27 | 17. 27 | 11.47 |
| 1937. | 10. 16 | 13. 10 | 10.96 | 1. 68 | 21. 19 | 24.75 | 16. 60 | 29. 45 | 12. 14 |
| 19.38 | ${ }^{1} 1.66$ | 4.15 | 6. 00 | 1.67 | 8. 46 | 4.48 | 3. 55 | 18. 44 | 2. 52 |
| A verage. | 21.27 | 11. 52 | 9.75 | 8.37 | 6.31 | 7.33 | 6.82 | 3.15 | 13.99 |

[^109]Table 5.-Annual rate of return on stockholders' investment for principal rayon companies, 1915-98

: Denotes loss.

The rates of return for American Viscose Corporation are much higher when calculated solely on the investment in the rayon business instead of the total business. The company was very profitable and followed the practice of reinvesting its earnings in Government securities or securities of other companies from which the rate of profit was at a much lower rate than on the investment in the rayon business. Comparisons are given below of the yearly rates of return for American Viscose Corporation on the total investment and the investment in the rayon business alone, which excludes the outside investments in securities.

Rates of return

| Year | On total investment | On investment in the rayon business | Year | On total investment | On investment in the rayon business |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1915 | Percent 26.32 | Percent 26. 32 | 1928 | Percent 28.79 | Percent 59.36 |
| 1916 | 109.19 | 109.19 | 1929. | 23.43 | 44.55 |
| 1917. | 95.96 | 95.96 | 1930 | 8.07 | 10.95 |
| 1918. | 69.49 | 100.56 | 1931. | 4.44 | 4.83 |
| 1919 | 97.02 | 268.96 | 1932 | 2.35 | 1. 32 |
| 1920. | 64.21 | 156.83 | 1933. | 10.55 | 17.01 |
| 1921 | 44.62 | 87. 16 | 1934. | 6.97 | 10.12 |
| 1922 | 51.16 | 97.00 | 1935. | 6. 53 | 9.22 |
| 1923. | 43.47 | 88.13 | 1936. | 9.67 . | 14.78 |
| 1924. | 26. 63 | 54.18 | 1937 | 10.16 ${ }^{\text {a }}$ | 15.36 |
| 1925 | 32. 39 | 72.64 | 1938. | ${ }^{2} 1.66$ | ${ }^{2} 4.34$ |
| 1927. | 21.75 26.19 | 52. 82 | A verage | 21.27 | 37. 52 |

${ }^{1}$ Total investment and stockholders' investment are identical.
${ }^{2}$ Denotes loss.
During the earlier period when American Viscose Corporation had a monopoly on the rayon business its profits were very high. During the period from 1921 to 1929 , inclusive, while the annual rates of return generally were decreasing the company nevertheless had high rates of return. It was during this period that other companies were coming into this field and even after 1929 more new companies started up in the rayon business. American Viscose Corporation did not make as high profits from 1930 to 1938, inclusive, as before, but it averaged 6.35 percent on its total investment and 8.51 percent on its investment in the rayon business. This is illustrated in the following tabulation.

| American Viscose Corporation | Total business | Rayon busl ness |
| :---: | :---: | :---: |
| Average annual investments: |  |  |
| 1915 to 1920. | \$20, 516, 262 | \$11, 88f, 090 |
| 1921 to 1929 | 100, 845, 419 | 45, 580, 834 |
| 1930 to 1938 | 115, 341, 886 | 65, 057, 559 |
| 1915 to 1938 | 86, 189, 305 | 44, 460, 920 |
| Average annual net profit: |  |  |
| 1915 to 1921 to 1929. | 15, 919, 824 | 15, 479, 808 |
| 1921 to 1929 | $30,940,201$ $7,328,680$ | $\begin{array}{r} 28,633,845 \\ 5,534,835 \end{array}$ |
| 1915 to 1938. | 18, 330, 749 | 16,683, 207 |
| Average annual rate of return: |  |  |
| 1915 to 1920........ | 77.60 | 130.23 |
| 1921 to 1929 | 30.68 | 62.82 |
| 1930 to 1938 | 6.35 | 8.51 |
| 1915 to 1938 | 21. 27 | 37.52 |

The reduction in net sales after 1929 and the decrease in the net operating profits and the net profits per pound of rayon yarn and staple fiber further indicate the effect of competition in this industry after American Viscose Corporation's monopolistic position was discontinued. The following tabulation Ilustrates the trend of sales, the ratio of net profit to sales, net profit per pound of rayon yarn and staple tiber, and the rate of return on the investment solely in the rayon business of American Viscose Corporation.

| Year | Net sales <br> American Viscose. Corporation | Net operating profit per dollar of net sales | Net operating profit per pound of rayon yarn and staple fiber produced ${ }^{1}$ | Rate of return on the investment in the rayon business |
| :---: | :---: | :---: | :---: | :---: |
| 1915 | \$5, 118, 953 | \$0. 42 | \$0.55 | Percent 26.32 |
| 1916 | 14, 057, 304 | . 67 | 1. 63 | 109. 19 |
| 1917 | 19, 706, 678 | . 70 | 2. 10 | \$5.96 |
| 1918 | 22, 006, 264 | 67 | 2. 52 | 100. 56 |
| 1919. | 38, 278, 052 | . 76 | 3. 53 | 268.96 |
| 1920. | 33, 525, 953 | . 75 | 2. 51 | 156.83 |
| 1921 | 36, 033, 419 | . 57 | 1. 51 | 87.16 |
| 1922 | 47, 436, 725 | . 65 | 1. 58 | 97.00 |
| 1923 | 54. 778, 834 | . 63 | 1. 26 | 88. 13 |
| 1924. | 52, 596, 583 | . 47 | . 94 | 54. 18 |
| 1925. | 69, 062, 071 | . 52 | 1. 03 | 72.64 |
| 1926. | 49, 505, 021 | . 47 | . 63 | 46. 01 |
| 1927 | 66, 788, 069 | . 43 | . 71 | 52.82 |
| 1928 | 67, 873, 201 | . 49 | . 61 | 59. 36 |
| 1929 | 70, 222, 147 | . 38 | . 43 | 44. 55 |
| 1930 | 42, 502, 765 | . 24 | . 19 | 10.95 |
| 1931 | 41, 469, 250 | . 11 | . 08 | 4.83 |
| 1932 | 29, 802,040 | . 05 | . 03 | 1.32 |
| 1933 | 40, 717, 894 | . 25 | . 13 | 17.01 |
| 1934 | 35, 602, 624 | . 20 | . 10 | 10.12 |
| 1935. | 43, 893. 145 | . 13 | . 06 | 9.22 |
| 1936 | $53,306,607$ | . 21 | . 11 | 14. 78 |
| 1937 | 4J, 150, 567 | . 22 | . 10 | 15. 36 |
| 1938 | 42, 074, 969 | 2. 06 | ${ }^{2} .03$ | 24.34 |
| A verage.. | 42, 687, 881 | . 40 | 39 | 37. 52 |

${ }^{1}$ In all years the quantities produred were not identical with the quantities sold but over a period of time they tended to be equal and in most years are approximately the same.
${ }^{2}$ Denotes loss.
The net profit on each dollar of net sales of American Viscose Corporation ranged froin 76 cents to a loss of 6 cents. During 1919 and 1920 only about one-fourth the selling price was required to produce rayon yarn. The net profit per pound of rayon ranged from $\$ 2.10$ to $\$ 3.53$ from 1917 to 1920 , inclusive. This high profit per pound was possible because of the high prices for rayon yarn at that time. Two important factors must be given weight in regard to the rise in prices; one was the World War, and the other was the monopoly enjoyed by American Viscose Corporation. Reference is made to the discussion heretofore of the prices of rayon yarn, which is briefly reviewed here. In November 1911 the list price of 150 denier rayon yarn from the viscose process was $\$ 1.85$ per pound; in April 1914, it was $\$ 2$ per pound. By December 1915 the list price had risen to $\$ 3$ and, in August 1917, $\$ 4$ per pound. It increased to $\$ 6$ per pound by February 1920, but dropped back to $\$ 5$ in May and $\$ 4$ in September that year; and in October 1920 it dropped to $\$ 2.55$ per pound. From 1921 to 1929 , inclusive, the price ranged from $\$ 1.15$ to $\$ 2.80$ per pound. During July 1930 the price dropped to 95 cents per pound, and by June 1932 it had dropped to 55 cents. Since 1932, through 1938, the price has ranged from 49 cents in May 1938 to 65 cents in July 1933. The only year in which American Viscose Corporation had a loss was in 1938, when it had an average loss of 3 cents per pound., This was apparently due to increased costs per pound resulting from decreased sales and possibly other factors, together with the trend of prices. However, other companies made a profit during that year.

It is of interest to compare the net sales, net profit, dividends paid, and reinvested earnings of American Viseose Corporation. The annual net sales are shown heretofore, and the net earnings before deductions for Federal income tax have also been prescnted. After the provisions for Federal income tax, the balance of the net profit was transferred to surplus. The distribution of these net profits are summarized below for the period from 1915 to 1938, inclusive.

|  | Totals, 1915-38 | Annual average |
| :---: | :---: | :---: |
| Net sales | \$1, 024, 509, 135 | \$42,687, 881 |
| Net profit after provision for Federal income tax | $354,455,728$ | 14, 768, 989 |
| Dividends paid: |  |  |
| In cash on preferred stock | 13, 689, 696 | 570, 404 |
|  | 182, 472, 299 | 7,603,012 |
| Stock dividends consisting of preferred stock issued to common stockholders later retired for cash. | 40, 568, 456 | 1,690, 353 |
| Total dividends in cash or redeemed in cash | 236, 730, 451 | 9,863, 769 |
| Net profit after dividends | 117, 725, 277 | 4, 905, 220 |
| Surplus transferred to surplus reserves | 42,000, 000 |  |
| Surplus transferred to capital stock | 20,914, 789 |  |
| Amortization of goodwill ---.-.----.-.-.-.-. | 25, 682, 470 | -----------.--. |
| Premium and dividends on stock repurchased | 7, 029, 482 |  |
| Other additions to surplus (net) - | 284,798 |  |
| Balance in surplus at the end of 1938 | 22, 383, 334 |  |

It was previously shown that in 1915 when the predecessor company of American Viscose Corporation was formed, the net worth of the assets of the original American Viscose Co. was $\$ 3,632,082$. This amount represents practically all the capital invested at that time or since by Courtaulds, Ltd., in American Viscose Corporation. At December 31, 1938, the invested capital consisting of common stockholders' equity amounted to $\$ 113,538,334$. About 95 percent of the common stock is still retained by Courtaulds, Ltd. Practically all of the $\$ 113,538,834$ represents reinvested earnings, with the exception of the $\$ 3,632,082$ previously mentioned, and it is very probable that a substantial portion of this amount consisted of reinvested earnings, as the original company had been organized in 1909 and had been operating successfully. The invested capital at the end of 1938, amounting to $\$ 113,538,834$, consisted of $\$ 49,155,500$ of common stock, $\$ 22,383,334$ of surplus, $\$ 42,000,000$ of surplus reserves. The latter amount includes reserve for fire insurance of $\$ 25,000,000$ and reserve for contingencies, etc., of $\$ 17,000,000$.

The foregoing tabulation illustrates the source of the reinvested earnings classified as surplus and surplus reserves. Also from the tabulation it may be seen that $\$ 25,682,470$ was used to write off goodwill ${ }^{1}$ which had been reflected in the capital-stock account, and that $\$ 20,914,789$ of surplus was transferred to the capital-stock account. These amounts plus the original $\$ 3,632,082$ more than account for the capital stock amounting to $\$ 49,155,500$; the difference may be accounted for by repurchases by the company of small amounts of capital stock for cash.

On the original investment of $\$ 3,632,082$ in 1915 , the investors-primarily Courtaulds, Ltd.-received $\$ 236,730,451$ of dividends in cash, or in preferred stock later redeemed for cash, together with $\$ 7,029,482$ premium and accured dividends on the stock redeemed, and they also retained practically the entire equity in the business, which was valued at $\$ 113,538,834$ at the end of 1938 .

[^110]The net profit per dollar of net sales and per pound of rayon yarn and staple fiber for the rayon department of E. I. du Pont de Nemours \& Co. followed somewhat the same trend as for American-Viscose Corporation, except that a profit was made in 1938. The annual net sales, the net profit per dollar and per pound, and the rates of return on the total investment are presented in the following tabulation for the rayon department of E. I. du Pont de Nemours \& Co.:

| Year | Net sales, E. I. du Pont de Nemours \& Co. (rayon department) | Net profit per dollar of net sales | Net profit per pound of rayon yarn and staple fiber produced 1 | Rate of return on total investment (percent) |
| :---: | :---: | :---: | :---: | :---: |
| 1921 | \$626, 784 | $2 \$ 0.09$ | '\$0.20 | 22.13 |
| 1922 | 3, 442, 369 | . 43 | 1.02 | 34.11 |
| 1923 | 5, 838, 491 | . 46 | . 97 | 38.91 |
| 1924. | 6,924, 535 | . 40 | . 75 | 27.88 |
| 1925 | 12, 058,479 | . 42 | . 75 | 34. 19 |
| 1926 | 14, 478, 146 | . 24 | . 31 | 15. 23 |
| 1927 | 23, 939,906 | . 29 | .46 | 27.01 |
| 1928 | 26, 441, 740 | . 32 | . 46 | 26.63 |
| 1929. | 30, 123, 469 | . 25 | . 31 | 19.04 |
| 1930. | 22, 145, 405 | . 01 | . 01 | 2.90 |
| 1931 | 19,698, 278 | . 09 | . 07 | 4.45 |
| 1932 | 15,.458, 060 | . 03 | . 02 | 1. 21 |
| 1933 | 21,578, 730 | . 20 | . 12 | 12.65 |
| 1934 | 24, 447, 709 | . 14 | . 08 | 8.58 |
| 1935 | 30, 294, 142 | . 09 | . 05 | 5. 27 |
| 1936 | 38, 029, 402 | .17 | . 10 | 11.00 |
| 1937 | 39, 145, 579 | . 22 | . 11 | 13.10 |
| 1938. | 34, 525, 988 | . 09 | . 05 | 4.15 |
| Average | 20, 510, 956 | . 19 | . 14 | 11.52 |

I In all years the quantities produced were not identical with the quantities sold, but over a period of time they tend to be equal and in most years are approximately the same. The annual quantities sold, which more nearly relate to the net profts, are not available.

2 Denotes loss.
Tables 6 a and 6 b and 7 a and 7 b , which follow, show in further detail the investments, profits, and rates of return for American Viscose Corporation (1915-38) and for the rayon department of E. I. du Pont de Nemours \& Co. (1921-38).
Table 6a.-Summary of investments, profits, and rates of return for American Viscose Corporation and subsidiaries, 1915-38

|  | Annual average | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 | 1930 | 1929 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital stock: |  |  |  |  |  |  |  |  |  |  |  | \$13, 807, 600 |
| Common |  | \$49, 155, 500 | \$49, 155, 500 | \$49, 175, 000 | \$49, 187, 500 | \$49, 187, 500 | \$49, 400,000 | \$49, 400, 000 | \$49, 400, 000 | \$49, 400, 000 | \$49, 400, 000 | 49, 400, 000 |
| Surplus |  | 22, 383, 334 | 24, 048, 157 | 25, 816, 265 | 18, 869, 722 | 32, 175, 883 | 37, 436, 075 | 30, 562, 449 | 53, 506, 262 | 55, 987, 196 | 53, 642, 295 | 46, 866, 627 |
| Surplus reserves |  | 42, 000, 000 | 42,000, 000 | 42,000,000 | 42, 000, 000 | $32,060,000$ | 32,000,000 | $32,000,000$ | 32, 000, 000 | 32,000,000 | 32,000, 000 | 32,000, 000 |
| Reserve for Federal income and pronts taxes........................................ |  |  |  |  |  |  |  | 181,529 | 443, 318 | 1, 174, 167 | 3, 132, 541 | 4, 130, 654 |
| Total |  | 113, 538, 834 | 115. 203, 657 | 116, 991, 265 | 110, 057, 222 | 113, 363, 383 | 118, 836, 075 | 112, 143, 978 | 135, 349, 580 | 138, 581, 363 | 138, 174, 836 | 146, 204, 881 |
| Less good |  |  |  |  |  |  |  |  | $19,314,552$ | 19, 314, 552 | 19, 314, 552 | 19, 314, 552 |
| Total investment |  | 113, 538, 834 | 115, 203, 657 | 116, 991, 265 | 110, 057, 222 | 113, 363, 383 | 118, 836, 075 | 112, 143, 978 | 116, 035,028 | 119, 246, 811 | 118, 860, 284 | 126, 890.329 |
| Less outside investments |  | 33, 863, 189 | 50, 293, 571 | 51, 922, 660 | 51, 795, 386 | 54, 155, 500 | 58, 942, 141 | 52, 733, 315 | 49, 301, 179 | 38, 984, 214 | 54, 998, 778 | 71,479,595 |
| Total Investment in principal business. |  | 79, 675, 645 | 64, 910, 086 | 65, 068, 605 | 58, 261, 836 | 59, 207, 883 | 59, 893, 934 | 59, 410, 663 | 66, 733, 849 | 80, 262, 597 | 63, 861, 506 | 55, 401, 734 |
| A verage investment in rayon business... | \$16,683, 207 | \$78, ${ }^{\$ 392}$, 140,846 | \$664, 989, 348 | \$61, 665, 221 | \$88, 734, $\$ 5,414,873$ | \$ $\$ 58,550,909$ | \$10, 147, 059 | \$832,615 | \$ $\$ 3,550,049$ | \$7, 888, 675 | \$26, 569, 629 | $\begin{aligned} & \$ 55,280,281 \\ & \$ 32,814,475 \end{aligned}$ |
| Rate of return on rayon business percent.- |  |  |  |  | 9.22 |  |  |  |  |  |  |  |
| A verage total investment | \$86, 199, 305 | \$114,371,246 | \$116,097,461 | \$113,524,244 | \$111,710,302 | \$116,0997,29 | \$115,490,027 | \$114,089,503 | \$117,640,919 | \$119,053,547 | \$122,875,307 | \$123,976,517 |
| Net profit applicable to total investment. | \$18.330, 749 | ${ }^{8} 1,900,334$ | \$11, 791, 682 | \$10, 978, 817 | \$7, 290, 195 | \$3,095, 302 | \$12, 181, 462 | \$2, 685, 497 | \$5, 226, 515 | \$9, 608,080 | \$28, 790, 009 | \$35, 688, 431 |
| Rate of return on total investment percent.- | . 27 | 66 | . 16 | 67 | 6. 53 | 6.97 | 10.55 | 35 | 44 | 8.07 | 3. 43 | 28. 79 |

1 Principally Government securities and obligations
2 Indlcates loss.

${ }^{1}$ Prlnclpally Government securitles and obligations.
Table 6b.-Summary of income, expenses, and surplus for American l'iscose Corporalion and subsidiaries, 191.j-89

|  | Total | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 | 1930 | 1929 | 1929 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sale | \$1,024, 509 | \$ $22.074,969$ | \$48, 150 | \$53, 306,607 | \$43, 893, 1 | \$35, 602, 624 | 40,717, | \$29, 802, 040 | \$41, 469, 250 | , 502, 7 | 222, | \$67, 873, 201 |
| Manufacturing cost <br> Administration and distribution ex- <br> pense <br> Depreciation | $\begin{aligned} & 525,497,320 \\ & 26,824,840 \\ & 60,149,498 \end{aligned}$ | $\begin{gathered} 37,736,755 \\ 2,663,385 \\ 4,202,153 \end{gathered}$ | $\begin{array}{r} 32,061,203 \\ 2,208,459 \\ 3,264,329 \end{array}$ | 37, 235, 631 <br> 1,941,549 <br> 3, 123, 634 | $\begin{array}{r} 33,702,519 \\ 1,454,116 \\ 3,078,8311 \end{array}$ | $\begin{gathered} 24,161,825 \\ 1,303,145 \\ 3,053,685 \end{gathered}$ | 26, 102, 668 <br> 1, 102,765 <br> 3.461, 620 | $\begin{array}{r} \hline 24,064,105 \\ 1,202,526 \\ 3,189,694 \end{array}$ | $\begin{array}{r} 31,559.152 \\ 1,271,74 \\ 3,870,716 \end{array}$ | $\begin{gathered} 26,100,293 \\ 1,399,200 \\ 4,70007 \end{gathered}$ | $\begin{aligned} & 37,019,790 \\ & \text { 1. } 420,396 \\ & 4,7 \pi \overline{7}, 127 \end{aligned}$ | $\begin{aligned} & 29,352,699 \\ & 1,279,804 \\ & 4,312,041 \end{aligned}$ |
| Total operating expens | 612,471, 658 | 44, 592, 293 | 37, 533, 991 | 42, 300, 814 | 38, 235, 466 | 28, 518,655 | 30, 667, 053 | 28, 456, 325 | 36, 701, 622 | 32, 239, 563 | 43, 197, 313 | 34, 94 |
| Net income from operations Other income. | $\begin{array}{\|c} 412,037+477 \\ 12,078,831 \end{array}$ | $\begin{array}{r} 12,517,324 \\ 147,072 \\ \hline \end{array}$ | $\begin{gathered} 10,616,576 \\ 1,098,964 \end{gathered}$ | $\begin{array}{r} \hline 11,005,793 \\ 729,962 \end{array}$ | $\begin{gathered} 5,657,679 \\ 612,907 \\ \hline \end{gathered}$ | $\begin{array}{r} 7,083,969 \\ 115,855 \end{array}$ | $\begin{array}{r} 10,0.50,841 \\ 606,080 \end{array}$ | $\begin{array}{r} 1,345,715 \\ 355,396 \end{array}$ | $\begin{array}{r} 4,767,628 \\ 418.775 \end{array}$ | $\begin{array}{r} 10,263,202 \\ 473,880 \end{array}$ | $\begin{array}{r} 27,024,834 \\ 874,4+1 \end{array}$ | $\begin{array}{r} 32,928,614 \\ 670,490 \end{array}$ |
| $\begin{array}{r} \text { Total } \\ \text { Other dedue } \end{array}$ | $\begin{array}{r} 424,116,308 \\ 23,719,342 \end{array}$ | $\begin{array}{r} 12.369,352 \\ 771,494 \end{array}$ | $\begin{array}{r} 11,715,540 \\ 1,735,025 \end{array}$ | $\begin{array}{r} 11,735,755 \\ 2,621,819 \end{array}$ | $\begin{array}{r} 6,270,586 \\ 855,713 \end{array}$ | $\begin{aligned} & 7,199,824 \\ & 1,173,188 \end{aligned}$ | $\begin{array}{r} 10,656,921 \\ 509,362 \end{array}$ | $\begin{aligned} & 1,701,111 \\ & 868,496 \end{aligned}$ | $\begin{aligned} & 5,186,403 \\ & 1,636,354 \end{aligned}$ | $\begin{array}{r} 10,737,082 \\ 2,848,407 \end{array}$ | $\begin{array}{r} 27,899,275 \\ 1,329,646 \end{array}$ | $\begin{array}{r} 33,599,104 \\ 784,629 \end{array}$ |
| Net profit applicable to principal business Add interest on outside in vestments. | $\begin{gathered} 400,396,966 \\ 39,541,000 \end{gathered}$ | $\left\|\begin{array}{r} 13,140,846 \\ 1,240,512 \end{array}\right\|$ | $\begin{aligned} & 9,980,515 \\ & 1,811,167 \end{aligned}$ | $\begin{aligned} & 9,113,936 \\ & 1,864,881 \end{aligned}$ | $\begin{aligned} & 5,414,873 \\ & 1,875,322 \\ & \hline \end{aligned}$ | $\begin{aligned} & 6,026,636 \\ & 2.068,666 \end{aligned}$ | $\begin{array}{r} 10,147,059 \\ 2,034,403 \end{array}$ | $\begin{array}{r} 832,615 \\ 1,852,882 \end{array}$ | $\begin{aligned} & 3,550,049 \\ & 1,676,466 \\ & \hline \end{aligned}$ | $\begin{aligned} & 7,888,675, \\ & 1,719,405 \\ & \hline \end{aligned}$ | $\begin{array}{r} 26,569,629 \\ 2,220,380 \end{array}$ | $\begin{array}{r} 32,814,475 \\ \quad 2,873,956 \end{array}$ |
| Net income applicable to total investment <br> Less interest on long-term debt | $\begin{array}{r} 439,937,966 \\ 280,685 \end{array}$ | 1 1,900, 334 | 11, 791, 682 | 10, 978, 817 | 7,290, 195 | 8, 095, 302 | 12, 181,462 | 2, 685,497 | 5.226, 515 | 9, 608, 080 | 28. 790,009 | 35,688, 4 |
| Net profit <br> Less Federal income and excess-profits,'taxes | $439,657,281$ $85,201,553$ | $\begin{array}{\|c\|r\|} \hline 1,990,334 \\ 34,010 \\ \hline \end{array}$ | $\begin{array}{r} \hline 11.791 .682 \\ 1,617,248 \end{array}$ | $\begin{array}{r} \hline 10,978,817 \\ 1,545,434 \end{array}$ | $\begin{array}{r} 7,290.195 \\ 959,394 \end{array}$ | $\begin{array}{r} 8.095,302 \\ 888,821 \end{array}$ | $\begin{array}{r} 12,181,462 \\ 1,6 i 67,897 \end{array}$ | $\begin{array}{r} 2,685,497 \\ 181,529 \end{array}$ | $\begin{array}{r} \hline 5,226,515 \\ 443,318 \end{array}$ | $\begin{aligned} & 9,608,080 \\ & 1,212,817 \end{aligned}$ | $\begin{gathered} \hline 28,790,0 n 9 \\ \text { 3. 132. } 449 \end{gathered}$ | $\begin{array}{r} 35.688,431 \\ 4,130,654 \end{array}$ |
| Net profit after Federal income | 354, 455, 728 | ${ }^{11} 1,924,344$ | 10, 174, 434 | 9, 433,383 | 6, 330, 801 | 7, 206, 481 | 10, 513, 565 | 2, 503, 968 | 4,783, 197 | 8, 395, 263 | 25, 657, 560 | 31, 557 |
| Surplus at beginning Net income for year | 354, 455, 728 | $\begin{aligned} & 24,048,157 \\ & 11,924,344 \end{aligned}$ | $\begin{aligned} & 25,816,265 \\ & 10,174,434 \end{aligned}$ | $\begin{array}{r} 18,869,722 \\ 9,433,383 \end{array}$ | $\begin{gathered} 32,175,833 \\ 6,330,801 \end{gathered}$ | $\begin{gathered} 3 \overline{3}, 436,075 ; \\ 7,206,481 \end{gathered}$ | $\begin{aligned} & 30,562.449 \\ & 10,513,565 \end{aligned}$ | $53,506,262$ $2.503,968$ | $\begin{array}{r} 55,987,195 \\ 4,7 \times 3,197 \end{array}$ | $\begin{aligned} & 53,642,295 \\ & 3,395,263 \end{aligned}$ | $\begin{aligned} & 46.866,628 \\ & 25,657,560 \end{aligned}$ | $\begin{aligned} & 41,133,820 \\ & 31,557,777 \end{aligned}$ |
| Tess dividends paid | 354, 455, 728 236, 730, 451 | 22, 123, 813 | $\begin{aligned} & 35.990,699 \\ & 12,292,275 \end{aligned}$ | $\begin{array}{r} 28,303,105 \\ 2,458,875 \end{array}$ | $\begin{gathered} 38,506,684 \\ 9,837,500 \end{gathered}$ | $\begin{aligned} & 44,6+2,556 \\ & 12,323,625 \end{aligned}$ | $\begin{array}{r} 41,076,014 \\ 4,9+0,000 \end{array}$ | $\begin{gathered} 56,010,230 \\ 5,928,000 \end{gathered}$ | $\begin{gathered} 60,770,392 \\ 7,410,000 \end{gathered}$ | $\begin{array}{r} 62,037,558 \\ 5,925,000 \end{array}$ | $\begin{aligned} & 72,524,1 \times 8 \\ & 17,674,516 \end{aligned}$ | $\begin{aligned} & 72,691,597 \\ & 25,666,532 \end{aligned}$ |
| Balanc | 117, 725, 277 | 22, 123, 813 | 23. 695. 424 | $25.844,230$ | 23, 669, 18\% | 32, 318,931 | 36, 136,014 | 50, 082, 230 | 53, 360, 392 | 56, 109, 558 | 54, 849. 672 | 025,0 |

[^111]Table 6b.-Summary of income, expenses, and surplus for American Viscose Corporation and subsidiaries, 1915-38-Continued

|  | Total | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 | 1930 | 1929 | 1928 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Other deductions: |  |  |  |  |  |  |  |  |  |  |  |  |
| Surplus capitalized on reorganiza- |  |  |  |  | 10,000,000 |  |  |  |  |  |  |  |
|  | 20, 914,789 |  |  |  |  |  |  |  |  |  |  |  |
| Goodwill written off --.... | 25, 682, 470 |  |  |  |  |  |  | \$19, 314, 552 |  |  |  |  |
| Premium and dividends on stock repurchased | 7,029,482 |  | \$47, 000 | \$25, 528 |  | \$290, 375 |  |  |  |  | \$1, 380, 760 |  |
| Adjustment of depreciation reserve | 2,709,895 |  |  |  | ${ }^{2}$ \$640, 105 |  |  |  |  | \$200, 000 | 300,000 | \$300, 000 |
| Profit on sale of capital assetsnet | ${ }^{2} 2,488,707$ | \$125, 229 | 414, 387 |  | ${ }^{2} 273,242$ | ${ }^{2} 250,618$ | 281,331, 244 |  | ${ }^{2}$ \$108, 657 | ${ }^{2} 77,637$ | ${ }^{2} 199,367$ | ${ }^{2} 888,125$ |
| Miscellaneous items. | ${ }^{2}$ 505, 926 | ${ }^{2} 384,750$ | ${ }^{2} 811,126$ | 2, 437 | 712,809 | 103, 291 | 31, 183 | 205, 229 | ${ }^{3} 37,213$ |  | ${ }^{2} 274,016$ | ${ }^{2} 53,438$ |
| Surplus at end of year-........-..-- | 22, 383, 334 | 22, 383, $33 \cdot 4$ | 24, 048, 157 | 25, 816, 265 | 18, 869, 722 | 32, 175, 883 | 37, 436, 075 | 30, 562, 449 | 53, 506, 262 | 55, 987, 195 | 53, 642, 295 | 46, 866, 628 |


| 1927 | 1926 | 1925 | 1924 | 1923 | 1922 | 1921 | 1920 | 1919 | 1918 | 1917 | 1916 | 1915 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$66, 788, 069 | \$49, 505, 021 | \$69, 062, 071 | \$52, 596, 583 | \$54, 778, 834 | \$47, 436, 725 | \$36, 033, 419 | \$33, 525, 953 | \$38, 278, 052 | \$22, 006, 264 | \$19, 706, 678 | \$14, 057, 304 | \$5, 118, 953 |


$\begin{array}{ll}4,611,391 & 2,970,402\end{array}$


9, 297, 590 2, 053, 688
$2,053,688$
133,356 $\overline{9,150,261} \overline{1,920,332}$

| Less Federal income and ex-cess-profits taxes. | 2, 712, 664 | +817,856 | 4, 840, 000 | 3,119, 051 | 4, 336, 087 | 3, 861,677 | 7,450,000 | 9, 885, 318 | 12, 254, 010 | 11, 074, 154 | 7,304, 828 | 2, 651, 846 | 726, 203 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net profit after Federal income tax. | 29, 200, 929 | 28, 079, 701 | 33, 621, 087 | 23, 956, 381 | 31, 655, 084 | 27, 842, 487 | 14, 126, 076 | 16, 258,583 | 17, 289, 881 | 3, 860, 908 | 6, 239, 882 | 6, 498, 415 | 1, 194, 129 |
| Surplus at beginning Net income for year. | $\begin{aligned} & 38,934,328 \\ & 29,200,929 \end{aligned}$ | $\begin{aligned} & 30,153,705 \\ & 28,079,701 \end{aligned}$ | $\begin{aligned} & \hline 10,284,729 \\ & 33,621,087 \end{aligned}$ | $\begin{aligned} & 20,514,852 \\ & 23,956,381 \end{aligned}$ | 31, 655, 084 | $\begin{aligned} & \hline 41,036,247 \\ & 27,842,487 \end{aligned}$ | $\begin{aligned} & 30,877,575 \\ & 14,126,076 \end{aligned}$ | $\begin{aligned} & 20,916,593 \\ & 16,258,583 \end{aligned}$ | $\begin{array}{r} 8,981,659 \\ 17,289,981 \end{array}$ | $8,120,751$ $3,860,908$ | $\begin{aligned} & 4,380,869 \\ & 6,239,882 \end{aligned}$ | $\begin{array}{r} 444,129 \\ 6,498,415 \end{array}$ | 1,194, 129 |
| Less dividends paid | $\begin{aligned} & 68,135,257 \\ & 14,710,032 \end{aligned}$ | $\begin{aligned} & 58,233,406 \\ & 12,344,266 \end{aligned}$ | $\begin{aligned} & 43,905,816 \\ & 13,312,000 \end{aligned}$ | $\begin{aligned} & 44,471,233 \\ & 10,188,940 \end{aligned}$ | $\begin{array}{r} 31,655,084 \\ 8,113,890 \end{array}$ | $\begin{aligned} & 68,878,734 \\ & 48,202,000 \end{aligned}$ | $\begin{array}{r} 45,003,651 \\ 4,000,000 \end{array}$ | $\begin{array}{r} 37,175,176 \\ 6,000,000 \end{array}$ | $\begin{array}{r} 26,271,640 \\ 6,000,000 \end{array}$ | $\begin{array}{r} 11,981,659 \\ 3,000,000 \end{array}$ | $\begin{array}{r} 10,620,751 \\ 2,500,000 \end{array}$ | $\begin{aligned} & 6,942,544 \\ & 3,150,000 \end{aligned}$ | $\begin{array}{r} \hline 1,194,129 \\ 750,000 \end{array}$ |
| Balance | 53, 425, 225 | 45, 889, 140 | 30, 593, 816 | 34, 282, 293 | 23, 541, 194 | 20,676, 734 | 41, 003, 651 | 31, 175, 176 | 20, 271, 640 | 8, 981, 659 | 8, 120, 751 | 3, 792, 544 | 444, 129 |
| Other deductions: <br> Transfers to surplus reserves. | 3,900, 000 | 3,000, 000 |  | 24, 000, 000 | 1, 100, 000 |  |  |  |  |  |  |  |  |
| Surplus capitalized on reorganization. |  |  |  |  |  | 20, 914, 789 |  |  |  |  |  |  |  |
| Goodwill written off | 6, 367, 918 |  |  |  |  |  |  |  |  |  |  |  |  |
| Premium and dividends on stock repurchased. | 1,762,500 | 3, 523, 319 |  |  |  |  |  |  |  |  |  |  |  |
| Adjustment of depreciation reserve | 300, 000 |  |  |  | 2, 250, 000 |  |  |  |  |  |  |  |  |
| Profit on sale of capital assets (net) | ${ }^{1} 50,643$ |  | $\begin{aligned} & 1 \\ & 1 \\ & 543 \\ & \hline \end{aligned}$ |  | ${ }^{1} 329,526$ | $\begin{array}{r} 1323,007 \\ 84.952 \end{array}$ |  |  | $\begin{array}{r} 106,806 \\ 1751759 \end{array}$ |  |  |  |  |
| Miscellaneous items...--- | $11,630$ | 431, 493 | $543,234$ | ${ }^{1} 2,436$ | $\begin{array}{r} 5,868 \\ \hline \end{array}$ | $84,952$ | ${ }^{1} 32,596$ | 297,601 | $\begin{array}{r} 1751,759 \\ \hline \end{array}$ |  |  | ${ }^{1} 588,325$ |  |
| Surplus at end of year.- | 41, 133, 820 | 38, 934, 328 | 30, 153, 705 | 10, 284, 729 | 20, 514, 852 |  | 41, 036, 247 | 30, 877, 575 | 20, 916, 593 | 8, 981, 659 | 8, 120, 751 | 4, 380, 869 | 444, 129 |

[^112]Table 7a.-Summary of investments, profits, and rates of return for rayon department of $E$. . du Pont de Nemours \& Co., 1921-38 ${ }^{1}$

|  | Annual average | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 | 1930 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capital advances |  |  |  |  | \$10, 207, 044 | \$5, 755, 490 | \$4, 219, 394 | \$3,114, 583 | \$5,940, 855 | \$9,670,690 |
| Capital stock: Preferred ( 7 |  |  |  |  |  |  |  |  |  |  |
| Common. |  |  |  |  | 100,000 | 100,000 | 100,000 | 100, 000 | 100,000 | 100,000 |
| Surplus: |  |  |  |  | 124,072 | 251, 209 | 448,096 | ${ }^{2}$ 138,363 | 47,118 | ${ }^{2} 1,582,190$ |
| Paid in. |  |  |  |  | 43, 511, 589 | 43, 511, 589 | 33, 821, 589 | 33, 821, 589 | 33, 821, 589 | 33, 821,589 |
| Surplus reserves: <br> Contingency reserve |  |  |  |  | 15,850 |  | 299, 842 | 137, 400 |  |  |
| Reserve for Federal income and profits taxes |  |  |  |  | 366, 513 | 422, 366 | 631, 773 |  |  | 11,351 |
| Operative investment-1936 to 1938, inclusive. |  | \$90, 321, 769 | \$78, 534, 738 | \$70, 330,694 |  |  |  |  |  |  |
| Total gross investme |  | 90, 321, 769 | 78, 534, 738 | 70,330, 694 | 54, 325, 068 | 50, 040, 654 | 39, 520,694 | 37,035, 209 | 39, 909, 562 | 42, 021, 440 |
| Less: <br> Depreclation on rayon division-1936 to 1938, inclusive |  | 24, 331, 393 | 21, 207, 632 | 18,396, 094 |  |  |  |  |  |  |
| Investment allocated to products other than rayon-1929 to 1935, incluslve. |  |  |  |  | 6, 259, 035 | 6, 059, 585 | 6,119, 429 | 5,619,696 | 4, 265, 050 | 3, 603, 277 |
| Total deductions |  | 24, 331, 393 | 21, 207, 632 | 18,306, 094 | 6, 259, 035 | 6, 059,585 | 6,119,429 | 5,619,696 | 4, 265, 050 | 3,603, 277 |
| Net total investment |  | 65, 900,376 | 57, 327, 106 | 51, 934, 600 | 48, 066, 033 | . $43,981,069$ | 33, 401, 265 | 31, 415, 513 | 35,644, 512 | 38, 418, 163 |
| A verage total investment | \$30, 216, 440 | 61, 658, 741 |  |  |  |  |  | 33, 530, 013 | 37,031,338 | 41, 146, 085 |
| Net profit applicable to total investment-- | $3,480,822$ 11.52 | $\begin{array}{r} 2,555,931 \\ 4.15 \end{array}$ | $\begin{array}{r} 7,154,255 \\ 13.10 \end{array}$ | $\begin{array}{r} 5,500,675 \\ 11.00 \end{array}$ | $\begin{array}{r} 2,425,275 \\ 5.27 \end{array}$ | $\begin{array}{r} 3,320,703 \\ 8.58 \end{array}$ | $\begin{array}{r} 4,908,499 \\ 12.65 \end{array}$ | $\begin{array}{r} 407,072 \\ 1.21 \end{array}$ | $\begin{array}{r} 1,648,681 \\ 4.45 \end{array}$ | $\begin{array}{r} 371,946 \\ 30.90 \end{array}$ |


|  | 1929 | 1928 | 1927 | 1926 | 1925 | 1924 | 1923 | 1922 | 1921 | $\underset{1921}{\mathrm{Jan}_{1}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Capltal advances. | \$10,015, 652 |  |  |  |  |  |  |  |  |  |
| Capital stock: ${ }_{\text {Preferred }}(7$ percent nonvoting) |  | \$8,916, 395 | \$5, 729, 100 | \$5, 729, 100 | \$3, 854, 395 | \$593, 851 | \$599, 941 |  |  |  |
| Common... | 100,000 | 9, 839, 313 | 9, 350,693 | \&,216, 749 | 8,964, 450 | 3, 723, 650 | 3,592, 500 | \$3, 500,000 | \$3, 284,000 | \$2, 519,000 |
| Surplus: Earned | 915,907 | 13,236, 559 | 10, 356, 284 | 6, 994, 350 | 4, 538, 399 | 5,469,916 | 3, 287, 490 | 1,148,375 | ${ }^{2} 58,734$ | 447 |
| Pald in. | 33, 821, 589 |  |  |  |  |  | 3,237, 20 | 1,18, 37 |  |  |
| Surplus reserves: Contingency reserve |  |  |  |  |  |  |  |  |  |  |
| Reserve for Federal income and profts taxes | 273,328 | 958,688 | 903, 285 | 444, 038 | 618,616 | 311, 265 | 305, 594 | 163,469 |  |  |
| Operative investment-1936 to 1938, inclusive... |  |  |  |  |  |  |  |  |  |  |
| Total gross investment | 45, 126, 476 | 32, 950, 955 | 26, 339, 362 | 22,384, 237 | 17, 975, 860 | 10, 104, 682 | 7,785, 525 | 4, 811, 844 | 3,225, 266 | 2, 521, 447 |
| Less: <br> Depreciation on rayon division-1936 to 1938, inclusive |  |  |  |  |  |  |  |  |  |  |
| Investment allocated to products otber than rayon-1929 to 1935, inclusive. | 1, 252, 470 |  |  |  |  |  |  |  |  |  |
| Total deductions | 1, 252, 470 |  |  |  |  |  |  |  |  |  |
| Net total investment | 43, 874, 006 | 32, 950, 955 | 26,339, 362 | 22, 384, 237 | 17, 975, 860 | 10, 104, 682 | 7,785,525 | 4,811, 844 | 3,225, 226 | 2, 521, 447 |
| A verage total investment.-.-.-............ | $38,412,481$ |  |  |  |  |  |  |  | 2, 873, 357 |  |
| Net profits applicabie to total investment --- | $\begin{array}{r} 7,313,180 \\ 19.04 \end{array}$ | $\begin{array}{r} 7,893,343 \\ 26.63 \end{array}$ | $\begin{array}{r} 6,580,831 \\ 27.01 \end{array}$ | $\begin{array}{r} 3,074,091 \\ 15.23 \end{array}$ | $\begin{array}{r} 4,800,112 \\ 34.19 \end{array}$ | $\begin{array}{r} 2,493,686 \\ 27.88 \end{array}$ | $\begin{array}{r} 2,450,963 \\ 38.91 \end{array}$ | $\begin{array}{r} 1,370,578 \\ 34.11 \end{array}$ | $\begin{array}{r} 361,141 \\ 32.13 \end{array}$ |  |

[^113]Table 7b.-Summary of income, expenses, and surplus for rayon department of E. I. du Pont de Nemours \& Co., 1921-38 ${ }^{1}$

|  | Total | 1938 | 1937 | 1936 | 1935 | 1934 | 1933 | 1932 | 1931 | 1930 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$369, 197, 212 | \$34, 525, 988 | \$39, 145, 579 | \$38, 029, 402 | \$30, 294, 142 | \$24, 447, 709 | \$21, 578, 730 | \$15, 458, 060 | \$19,698, 278 | \$22, 145, 405 |
| Manufacturing cost (not including depreciation) <br> Depreciation <br> Administration and distribution expenses. | $\begin{array}{r} 240,204,934 \\ 31,003,267 \\ 28,286,091 \end{array}$ | $\begin{gathered} 24,545,91! \\ 3,416,820 \\ 3,450,604 \end{gathered}$ | $\begin{array}{r} 24,414,463 \\ 2,972,943 \\ 3,085,259 \end{array}$ | $\begin{array}{r} 25,856,842 \\ 2,750,338 \\ 2,924,154 \end{array}$ | $\begin{array}{r} 22,388,108 \\ 2,544,517 \\ 2,595,818 \end{array}$ | $\begin{array}{r} 16,677,798 \\ 2,108,562 \\ 2,190,458 \end{array}$ | $\begin{array}{r} 13,563,143 \\ 1,892,036 \\ 1,802,932 \end{array}$ | $\begin{array}{r} 11,394,925 \\ 1,838,318 \\ 1,722,176 \end{array}$ | $\begin{array}{r} 13,937,576 \\ 1,806,762 \\ 2,115,011 \end{array}$ | $\begin{array}{r} 17,168,683 \\ 2,617,673 \\ 2,185,140 \end{array}$ |
| Total operati | 299, 494, 292 | 31, 413, 371 | 30, 472, 665 | 31, 531, 334 | 27, 528, 443 | 20, 976, 818 | 17, 258, 111 | 14, 955, 419 | 17, 859, 349 | 21, 971,496 |
| Net income from operations Other income. | $\begin{array}{r} 69,702,920 \\ 1,082,713 \end{array}$ | 3,112,617 | 8,672, 914 | $\begin{array}{r} 6,498,068 \\ 3,669 \end{array}$ | $2,765,699$ 6,016 | $\begin{array}{r} 3,470,891 \\ 1,710 \end{array}$ | $\begin{array}{r} 4,320,619 \\ 9,632 \end{array}$ | $\begin{array}{r} 502,641 \\ 8,270 \end{array}$ | $\begin{array}{r} 1,838,929 \\ 34,990 \end{array}$ | $\begin{array}{r} 173,909 \\ 69,532 \end{array}$ |
| Other deduction | $\begin{array}{r} 70,785,633 \\ 8,130,845 \end{array}$ | $\begin{array}{r} 3,112,617 \\ 556,686 \end{array}$ | $\begin{aligned} & 8,672,914 \\ & 1,518,659 \end{aligned}$ | $\begin{aligned} & 6,501,737 \\ & 1,001,062 \end{aligned}$ | $2,771,745$ 346,470 | $\begin{array}{r} 3,472,601 \\ 151,898 \end{array}$ | $\begin{array}{r} 4,330,251 \\ 231,752 \end{array}$ | $\begin{aligned} & 510,911 \\ & 103,839 \end{aligned}$ | $\begin{array}{r} 1,873,919 \\ 225,238 \end{array}$ | $\begin{aligned} & 243,441 \\ & 615,387 \end{aligned}$ |
| Net income applicable to total investment <br> Less Federal income and profit taxes | $\begin{array}{r} 62,654,788 \\ 8,554,121 \end{array}$ | $\begin{array}{r} 2,555,931 \\ 403,649 \end{array}$ | $\begin{aligned} & 7,154,255 \\ & 1,144,190 \end{aligned}$ | $\begin{array}{r} 5,500,675 \\ 783.073 \end{array}$ | $\begin{array}{r} 2,425,275 \\ 366,513 \end{array}$ | $\begin{array}{r} 3,320,703 \\ 422,366 \end{array}$ | $\begin{array}{r} 4,098,499 \\ 631,774 \end{array}$ | $\begin{array}{r} 407,072 \\ 57,868 \end{array}$ | $\begin{array}{r} 1,648,681 \\ 159,583 \end{array}$ | $\begin{array}{r} 2371,946 \\ 11,351 \end{array}$ |
| Net income for | 54, 100, 667 | 2, 152, 282 | 6.010,065 | 4, 717,602 | 2, 058,762 | 2, 898, 337 | 3,456,725 | 349, 204 | 1, 489,098 | ${ }^{2} 383,297$ |
| Surplus at beginning of Net income for year. | $\begin{array}{r} 2,407 \\ 41,220,717 \end{array}$ |  |  |  | $\begin{array}{r} 251,209 \\ 2,058,762 \end{array}$ | $\begin{array}{r} 448,096 \\ 2,898,337 \end{array}$ | $\begin{array}{r} 3138,363 \\ 3,466,725 \end{array}$ | $\begin{array}{r} 47,118 \\ 349,204 \end{array}$ | $\begin{array}{r} 31,582,190 \\ 1,489,098 \end{array}$ | $\begin{array}{r} 909,538 \\ 2383,297 \end{array}$ |
| $\begin{gathered} \text { Total } \\ \text { Less dividends } \end{gathered}$ | $\begin{aligned} & 41,223,124 \\ & 23,232,651 \end{aligned}$ |  |  |  | $\begin{aligned} & 2,379,971 \\ & 2,185,900 \end{aligned}$ | $\begin{aligned} & 3,346,433 \\ & 2,464,100 \end{aligned}$ | $\begin{aligned} & 3,328,362 \\ & 3,628,900 \end{aligned}$ | $\begin{aligned} & 396,322 \\ & 582,090 \end{aligned}$ | ${ }^{3} 93,092$ | $\begin{array}{r} 526,241 \\ \hdashline, 091,000 \end{array}$ |
| Net deductions froms surplus | $\begin{aligned} & 17,990,473 \\ & 17,990,473 \end{aligned}$ |  |  |  | $\begin{aligned} & 124,071 \\ & 124,071 \end{aligned}$ | $\begin{aligned} & 882,333 \\ & 631,124 \end{aligned}$ | $\begin{array}{r} 3 \\ 300,538 \\ 3 \\ 748,634 \end{array}$ | $\begin{array}{r} 3 \\ \begin{array}{r} 185,678 \\ 87,315 \end{array} \end{array}$ | $\begin{array}{r} 3 \\ { }^{3} 140,092 \\ 5 \end{array}$ | $\begin{array}{r} 31,564,759 \\ 17,431 \end{array}$ |
| Surplus at end of year |  |  |  |  |  | 251, 209 | 418, 096 | ${ }^{3} 138,363$ | 47, 118 | ${ }^{3} 1,582,190$ |


|  | 1929 | 1928 | 1927 | 1926 | 1925 | 1924 | 1923 | 1922 | 1921 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Net sales | \$30, 123, 469 | \$26, 441, 740 | \$23, 939, 906 | \$14, 478, 146 | \$12, 058, 479 | \$6, 924, 535 | \$5, 838, 491 | \$3,442, 369 | \$626, 784 |
| Manufacturing cost (not including depreciation)- | 18, 258, 328 | 14, 758, 483 | 14, 290, 432 | 8,789,545 | 5, 844, 890 | 3,565, 917 | 2, 614, 499 | 1,616, 171 | 519,220 |
|  | 2,162, 717 | 1,569, 416 | 1,735, 185 | 1,754, 635 | 824,910 | 372, 735 | 334, 405 | 195,797 | 105,498 |
| Administration and distribution expenses | 2,051,579 | 1,685, 432 | 965,250 | 530,082 | 311,901 | 225, 192 | 229,988 | 155, 522 | 59,557 |
| Total operating expenses. | 22,472, 624 | 18, 013,331 | 16,990,867 | 11,074, 262 | 6,981, 701 | 4, 163, 814 | 3, 178, 892 | 1,967, 490 | 684,275 |
| Net income from operations Other income | $\begin{array}{r} 7,650,845 \\ 75,482 \end{array}$ | $\begin{array}{r} 8,428,409 \\ 244,442 \end{array}$ | $\begin{array}{r} 6,949,039 \\ 170,496 \end{array}$ | $\begin{array}{r} 3,403,884 \\ 196,280 \end{array}$ | $\begin{array}{r} 5,076,778 \\ 115,014 \end{array}$ | $2,760,691$ 71,930 | $\begin{array}{r} 2,659,599 \\ 60,665 \end{array}$ | $1,474,879$ 9,857 | $\begin{array}{r} 257,491 \\ 4,698 \end{array}$ |
| Other Total.... | $7,726,327$ 413,147 | $8,672,851$ 779,508 | $7,119,535$ 538,704 | $3,600,164$ 526,073 | $5,191,792$ 391,680 | $2,832,621$ 338,935 | $2,720,264$ 269,301 | $1,484,736$ 114,158 | $\begin{array}{r} 252,793 \\ 8,348 \end{array}$ |
| Net income applicable to total investment <br> Less Federal income and profit taxes | $\begin{array}{r} - \\ 7,313,180 \\ 815,796 \end{array}$ | $7,893,343$ 968,751 | $6,580,831$ 907,014 | $3,074,091$ 485,993 | $4,800,112$ 623,445 | $2,493,686$ 306,376 | $\begin{array}{r} 2,450,963 \\ 302,910 \end{array}$ | $\begin{array}{r} 1,370,578 \\ 163,469 \end{array}$ | ${ }^{2} 61,141$ |
| Net income for year | 6, 497, 384 | 6, 924, 592 | 5,673, 817 | 2, 588, 098 | 4,716, 667 | 2, 187, 310 | 2, 148, 053 | 1,207, 109 | ${ }^{2} 61,141$ |
| Surplus at beginning of yea Net income for sear | $\begin{array}{r} 12,739,783 \\ 6,497,384 \end{array}$ | $10,083,364$ $6,924,591$ | $6,721,430$ $5,673,817$ | $4,538,399$ $2,588,098$ | $5,469,916$ $4,176,667$ | $3,287,490$ $2,187,310$ | $1,148,375$ $2,148,053$ | $\begin{array}{r} 358,734 \\ 1,207,109 \end{array}$ | $\begin{array}{r} 2,407 \\ 261,141 \end{array}$ |
| Less dividend | $\begin{array}{r} 19,237,167 \\ 5,296,555 \end{array}$ | $\begin{array}{r} 17,007,955 \\ 4,267,736 \end{array}$ | $\begin{array}{r} 12,395,247 \\ 2,311,728 \end{array}$ | $\begin{array}{r} 7,126,497 \\ 404,732 \end{array}$ | 9,646, 583 | 5, 474, 800 | 3,296, 428 | 1, 148, 375 | ${ }^{3} 58,734$ |
| Net deductions from surplus | $\begin{aligned} & 13,940,612 \\ & 13,031,074 \end{aligned}$ | 12, 740, 219 | $10,083,519$ 155 | $6,721,765$ 335 | $\begin{aligned} & 9,646,583 \\ & 5,108,184 \end{aligned}$ | $\begin{array}{r} 5,474,800 \\ 4,884 \end{array}$ | $\begin{array}{r} 3,296,428 \\ 8,938 \end{array}$ | 1, 148, 375 | ${ }^{3} 58,734$ |
| Surplus at end of year. | 909, 538 | 12, 739, 783 | 10,083,364 | 6,721, 430 | 4, 538, 399 | 5, 469, 916 | 3,287, 490 | 1, 148, 375 | ${ }^{3} 58,734$ |

${ }^{1}$ Includes du Pont Fibersilk Co., 1921-24; du Pont Rayon Co., 1925-35; Rayon Department of E. I. du Pont de Nemours \& Co., 1936-38.
Denotes loss.
Includes $\$ 5,106,100$
Surplus additions.


[^0]:    I Not lncluding companies acquired by merger or consolidation by existing companies during the period.
    2 Not available.

[^1]:    1 Report of the Commissionner of Corporations on the Tobacco Industry, pt. 3, p. 41.

[^2]:    ${ }^{2}$ Now known as American Cigarette \& Cigar Co., subsidiary of American Tobacco Cor

[^3]:    ${ }^{3}$ Net additions.
    ${ }^{6}$ Annual average.

    1 Net addition. Includes paid-in surplus through release of
    indebtedness of $\$ 23,790,000$ by stockholder, British American

[^4]:    ${ }^{1}$ Before provisions for interest payments on long-term debt and Federal income and profits taxes.
    ${ }^{2}$ After provision for interest on long-term debt and Federal income and profits taxes.
    ${ }^{3} 6$ companies.
    44 companies.
    ${ }^{5} 3$ companies.

[^5]:    ${ }^{2}$ Pt. 1, 1911.

[^6]:    ${ }^{1}$ Based ion average investment of $\$ 1,778,646.089$ and average net income of $\$ 83,476,428$, excluding intangibles.
    ${ }^{2}$ Denotes loss.

[^7]:    ${ }^{1}$ Includes from 6 to 8 companies.
    ${ }^{2}$ Includes from 25 to 30 companies.
    ${ }^{3}$ Denotes loss.

[^8]:    ${ }^{1}$ In 1935, principal plants of Illinois Steel Co. were merged with Carnegie Steel Co. to form CarnegieIllingis Steel Corporation. In 1936, Amcrican Sheet \& Tin Plate Co. was added.
    ${ }^{2}$ Loss.

[^9]:    Denotes loss.
    ${ }^{2}$ Due to change in fiscal year closings the returns reflect 11 months operations for one company, vir, International Harvester Co.
    ${ }^{3}$ For the same reason the returns reflect 10 months operations for two companies, viz, J. I. Case Co., OAlver
    arm Equipment Co . Farm Equipment Co.

[^10]:    See footnotes at end of table.

[^11]:    ${ }^{1}$ Rates of return for J. I. Case Threshing Machine Co., a predecessor company, 1919 to 1928, inclusive, and for Emerson-Brantingham Corporation consolidated with J. I. Case Co. in 1928.
    ${ }^{2}$ Rates of return for Moline Plow Co., a predecessor company, 1913 to 1918, inclusive.
    a Loss.

    - Based on net profit for 11 months.
    - Based on net proft for 10 months.

[^12]:    ${ }^{3}$ Investigation of Concentration of Economic Power, pt. V, pp. 1983-2009 and 2200-2275.

[^13]:    ' Omitted to avoid disclosure of identity since company No. 2 was not in operation during all of the years 1917-36. However, the results of its operations are reflected in the annual averages for the 18 companies.
    ${ }^{3}$ Not available.

[^14]:    ${ }^{1}$ Denotes loss.

[^15]:    ${ }^{1}$ Report of the Commissioner of Corporations on the Tobacco Industry, pt. III, p. 41.

[^16]:    ${ }^{2}$ Report of the Commissioner of Corporations on the Tobacco Industry, pt. III, p. 41.
    ${ }^{3}$ Report of the Commissioner of Corporations on the Tobacco Industry, pt. III, pp. 192, 22], $250,295$. 307,322 , and 352.

[^17]:    4 Pp. 274-275.

[^18]:    ${ }^{8}$ Report of the Commissioner of Corporations on the Tobacco Industry, pt. III, pp. 192, 221, 250 295, 307,322 , and 352.

[^19]:    ${ }^{1}$ Includes plug and twist and fine-cut chewing tobacco.

[^20]:    ${ }^{6}$ Report of the Federal Trade Commission on the Agricultural Income Inquiry, pt. 1, pp. 260-261.

[^21]:    1 Average of investments at beginning and end of year for each company.
    ${ }_{2}$ Net profits before deducting provisions for Federal income and profits taxes.

[^22]:    ${ }^{1}$ Net profts before deducting Federal income and pronis taves
    : Data are annual averages for 1918-37.

[^23]:    1 Denotes loss.

[^24]:    ${ }^{1}$ Deficit.

[^25]:    Annual average 1928-37.
    ? Annual average 1918-37.
    ${ }^{2}$ Annual average 1919-37.

    - Annual average 1920-37.

[^26]:    Includes years 1928-37.
    2 Denotes loss.
    2 Includes years 1918-37.

    - Includes year 1919-37.
    : Includesyears 1920-37.

[^27]:    1 Before provision for interest payments on long-term debt and Federal income and profits taxes.
    ${ }^{2}$ After provision for interest on long-term debt and Federal income and profits taxes.
    ${ }^{3} 6$ companies.
    \& 4 companies.
    33 companies.

[^28]:    ${ }^{1}$ George W. Hill.
    ? C. W. Toms for 1935 , and J. W. Andrewa thereafter
    ${ }^{3}$ S. Clay Whiams.

[^29]:    ${ }^{7}$ Dissenting opin:or of Mr. Ju tice Stone in Rog-rs $v$. Fuarantee Trust Company, et al., United States Reports, rol. 288. p. 133.

[^30]:    1 Less unamortized debt discount and expense.
    2 Average of investment at beginning and end of year.

[^31]:    ${ }^{1}$ A verage of investment of beginning and end of year.
    ${ }_{2}$ Denotes negative investment.

[^32]:    Denotes loss.
    3 Additions to surplus.

[^33]:    1 Denotes loss.
    ${ }^{1}$ Additions to surplus.

[^34]:    Less unsmortived debt discount and expense.
    Average of investment at beginnlag and end of year

[^35]:    ${ }^{1}$ Preferred stock.

[^36]:    1 Denotes additions to surplus.
    ${ }^{2}$ Denotes loss.

[^37]:    Average of investment at beginning and end of year.
    ${ }^{2}$ Denotes loss.

[^38]:    Denotes loss.
    ${ }^{2}$ Denotes addition to surplus

[^39]:    : Denotes deficit or loss.
    2 Less unamortized debt discount and expense.
    ${ }^{3}$ A verage of investment at beginning and end of year.

[^40]:    Denotes loss.
    Additions to surpius,

[^41]:    Denotes loss.
    2 Additions to surplus.

[^42]:    1 Anvual capacities in gross tons of stuel ingots and steel for castings as reported for the industry in the 1938 editiou of the Iron and Steel Works Directury of the United States and Canada. Total capacity for the industry reported to be $73,047,892$ gross tons.

[^43]:    1 Part I, 1911.

[^44]:    ${ }^{1}$ In production statistics prior to year 1929; strip was not clearly classified, and accurate figures are not available. Apparently, the greater part of strip as defined in reeent years was included in "Other finished finished rolled prodtcts." For years 1929 to 1938, strip production is included with shcets.
    ${ }^{2}$ Electric welded pipe not included.

[^45]:    ${ }^{2}$ Computed from tonnages appearing in annual statistical report of the Ameriean Iron and Stecl Institutc for 1917, p. 67.

[^46]:    1 Average of investments at beginning and end of year for each company.
    2 Net profit before deducting provisions for Federal income and profits taxes a Denotes loss.

[^47]:    1 Data are for year 1930, the first year for which data are available.

[^48]:    8 Rate of return for 18 months; on a mathématical ratio it would be 13.26 percent for 12 months.
    Denotes loss.

[^49]:    1 Data are not available prior to 1930.
    2 Data are not available prior to 1919.
    ${ }^{2}$ Rate of return for 18 months; on a mathematical ratio it would be 13.90 percent for 12 months.

[^50]:    1 Data are not avallable for 1928－31，inclusive；figures for 1917－27，inclusive，are reported by company as＂Volume of Business．＂

[^51]:    I Net sales are for years 1917-27 and 1932-38.
    ${ }^{2}$ Data are for years 1930-38
    ${ }^{3}$ Data are for years 1919-38

[^52]:    : Chairman of the board of directors in 1938.

[^53]:    ${ }^{1}$ Also an officer'and/or a director of one or more of the company's subsidiaries, and the aggregate remuneration shown is for all capacities.
    ${ }^{2}$ Compensation for 1937 and 1938 Includes bonuses of $\$ 214,586$ and $\$ 198,698$, respectively.
    ${ }^{3}$ Compensation for 1937 and 1938 includes bonuses of $\$ 64,376$ and $\$ 59,610$, respertively.

[^54]:    ${ }^{2}$ Resigned as chairman of the board Apr. 7, 1936, but continued in his capacity as a director.
    : Resigned as president, director, and member of executive committee Feb. 14, 1938. Remuneration as shown above is for services rendered as such and includes additional compensation for valuable services rendered covering a period of approximately 22 years.
    ${ }^{2}$ Resigned as vice president and member of executive cominittee but continued in his capacity as a director.

    - Resigned as vice president and member of executive committee Mar. 22, 1937.
    - Elected Feb. 14, 1938.
    - Resigned as vice president Nov. 11, 1937.

[^55]:    1 Fiscal year ending June 30 of each year.
    ${ }_{2} 6$-months period ending Dec. 31, 1939
    ${ }^{3}$ Resigned as president, director, and member of executive committee, Jan. 13, 1936.
    4 Elected president, director, and member of executive commattee Jan. 13, 1936; officer of certain subsidiaries at various times between Jan. 13, 1936 and Jan. 27, 1936.
    6 Resigned as executive vice president in charge of operations May 31, 1938.
    ${ }^{6}$ Elected director Oct. 26, 1937, and executive vice president Jan. 1, 1937.
    ${ }^{7}$ Remuneration shown is for period Jan. 1, 1937, to June 30, 1937.
    8 Elected vice president in charge of operations May 31, 1938.

[^56]:    ' Includes $\$ 330,427.303$ transferred from surplus.
    ${ }^{2}$ Includes $\$ 291.000$ 000 transferred from surplus
    ${ }^{3}$ Ineludes $\$ 33.844,889$ transferred from surplus.

    - Includes $\$ 5,582.414$ transferred from surplus.

[^57]:    ${ }^{1}$ Included above.

[^58]:    ${ }^{3}$ Pt. 1, Report of Commissioner of Corporetions on the Steel Industry, p. 275.

[^59]:    1 As of June 1, 193f, the American Sheet \& Tin Plate Co. was absorbed by the Carnegie-1llinous Steel Corporation 2
    3
    Denotes loss.

[^60]:    As of June 1, 1936, the American Sheet \& Tin Plate Co. was absorbed by the Carnegie-Illinols Steel Corporation.
    ${ }^{3}$ Denotes red figures.

[^61]:    ${ }^{2}$ Denotes loss.
    ${ }^{3}$ Denotes red figures.

[^62]:    Denotes loss.

[^63]:    4 Report of the Commissioner of Corporations on the Steel Industry, pt., I, pp. 85 and 273.

[^64]:    Resylts of operations for 1935 to 1938, inclusive, included in table for Carnegle-Illinois Steel Corporation.
    Denotes loss.

[^65]:    ${ }^{1}$ Results of operations for 1935 to 1938, inclusive, included in table for Carnegle-Illinois Steel Corporation.

[^66]:    ${ }^{1}$ Report of the Commissioner of Corporations on the Steel Industry dt. I, p. 120.

[^67]:    1 July 1 to Dec. 31, 1930.
    ${ }^{2}$ Denotes deduction.

[^68]:    ${ }^{1}$ Indicates loss.

[^69]:    ${ }^{1}$ Indicates loss.

[^70]:    : Denotes insed figuras.

[^71]:    ${ }^{1}$ P. 36, Report of the Commissioner of Corporations in the Steel Industry, pt. I.

[^72]:    ${ }^{1}$ Minority equities are held ranging from 15 to 37 percent'in 4 iron ore companies not listed here.

[^73]:    ${ }^{2}$ Less unamortized debt discount and expenses.

[^74]:    See footnotes at end of table.

[^75]:    ${ }^{1}$ In 1922 the company's name was changed from Jones \& Laughlin Steel Co. to Jones \& Laughlin Steel Corporation.
    ${ }^{2}$ Loss.
    4 Deduction.

[^76]:    
    ${ }^{3}$ Denotes loss. Amount for 1938 was not available; amount shown for 1937 was used also in 1938

[^77]:    ${ }_{2}^{1}$ Fiscal years ended June 30, 1917, 1918, and 1919; and 18-month period ended Dec. 31, 1920.
    ${ }_{3}^{2}$ Denotes ioss.

[^78]:    Organized in June 1920 as a holding company for Wheeling Steel \& Iron Co., La Belle Iron Works, and Whitaker-Glessner Co.; figures prior to 1920 are for La Belle Lron Works. ${ }^{3}$ Loss.

[^79]:    2 Less unamortized debt discount and expenses.
    ${ }_{3}^{3}$ Loss.

[^80]:    2 Loss.
    ${ }^{4}$ Derluction.

[^81]:    Less unamortized debt discount and expenses.
    2 Denotes loss.

[^82]:    1 Denotes loss
    2 Deduction.

[^83]:    Denotes loss.

[^84]:    ${ }^{1}$ Pp. 1037-1038.

[^85]:    1 Investments were averaged at beginning and end of year, except in some years borrowed funds were averaged monthly, after deducting appreciation and intangibles.
    ${ }^{2}$ Profits are bcfore provisions for Federal income and profits taxes.

    - Loss.

    4 For 1 company, the profits for 1936 were for 11 months only because of a change in fiscal closing dates.

    - For $?$ companies, the profits for 1937 were for 10 months only because of change from calendar to fiscal year basis.

[^86]:    1 Denotes loss.

[^87]:    I Includes the motortruck and binder-twine business of International Harrester Co.

[^88]:    ${ }^{1}$ For years 1924, 1932, 1933, 1935, and 1936.
    ${ }_{2}$ For years 1932 to 1936, inclusive, based on otily part of the sales of the tractor and implement line.
    ${ }^{3}$ For years 1932, 1933, 1935, and 1936.
    ( For years 1930, 1932, 1933, 1935, and 1936 .
    ${ }^{5}$ For years 1928, 1931, 1935, and 1926.

[^89]:    ${ }^{1}$ Average of investments at beginning and end of year, except for borrowed money, which was averaged monthly in some years. A verage of investments at heginning and
    : Before Federal income and profits taxes.
    ${ }^{3} 11$ months only, due to change in fiscal-year basis.

[^90]:    ${ }^{2}$ See reports of the Federal Trade Comm'ssion on the Causes of High Prices of Farm Implements and on the agricultural implement and machinery industry.

[^91]:    1 Sales for 1036 are for 11 months only due to change In fiscal year basis.

[^92]:    See footnotek at end of table.

[^93]:    Investments were averaged at the beginning and end of year, except borrowed money which was generally averaged monthly. The appreclatlon was deducted from the investments.
    ${ }^{3}$ The net profits were before deduction of Federal income and profits taxes.
    ${ }^{3}$ Denotes loss.

[^94]:    1 Denotes loss.

[^95]:    Known as J. I. Case Threshing Machine Co. prlor to June 1, 1929.
    ${ }^{2}$ Includes stock dividend of $\$ 3,900,000$ paid in common stock.
    ${ }^{3}$ Denotes loss.
    ${ }^{4}$ Includes arrears for 1924-25.

    - Includes arrears for 1933-35.
    ${ }^{6} 10$ months only due to change from calendar to fiscal year basis.

[^96]:    ${ }^{1}$ Known as J. I. Case Threshing Machine Co. prior to June 1, 1929.
    ${ }^{3}$ Denotes lass.

[^97]:    ${ }^{1}$ For this company from Mar. 1, 1928, and for Massey-Harris Harvester Co. prior thereto.
    ${ }^{3}$ Average of investments at beginning and end of year, except for borrowings which were averaged monthly.
    ${ }^{3}$ Loss.

[^98]:    ${ }^{1}$ Includes 1 officer for part of year omilted in computing average compensation per officer.
    ${ }^{2}$ Includes 2 officers for part of year. The salary of 1 officer was climinated and the othereconverted to annual basis in computing gverage compensation per officer.
    ${ }^{3}$ All salaries for part of year and converted to annual basis in computing average compensation per offleer
    4 Includes 2 offiecrs for part of year onsitied in computing average compensation per officer.
    ${ }^{3}$ Includes 3 officers for part of year whose salaries were converted to annual basis in comnuthig average compensation per officer.

    - Includes 1 officer for part of year whose salary was converted to annual basis in computing average com pensation per officer.
    ${ }^{7}$ Includes 1 secretary-treasurer for 10 months and 1 scerctary for 2 months; 2 officers used in computing average compensation per officer.

[^99]:    ${ }^{2}$ Chairman of flnance committee and chairman of executive committee, 1928; chairmen of finance committee, 1933; chairman of board of directors, September 1935 .
    ${ }^{4}$ President, December 1933; resigned as president Apr. 30, 1935; chsirman of executive comamittee, 1936.

[^100]:    Chairman, 1932-36.
    1932-36.
    Ended Mar. 31, 19336
    Comptroller and assistant secretary, 1932; comptroller 1933-36.
    Vice president, 1932-36.
    10 Vice president and general attorncy, 1934-36.
    ${ }^{0}$ Began Apr. 1, 1936.

[^101]:    Treasurer, Minneapolis Threshing Machine Co.
    Clairman of board, Minneapolis Threshing Machine Co.
    Cresident, Moline Implement Co.

[^102]:    ${ }_{1}^{1}$ For 10 months.

[^103]:    ${ }^{1}$ Investments averaged at beginning and end of year, after deducting appreciation.
    ${ }_{2}$ Net profit before deducting Federal income tax.
    ${ }^{2}$ Denotes loss.

[^104]:    1 Indicates loss.
    2 For the reason that this company was not in operation during all of the years, 1917-36, its rates of return are omitted in order to avoid disclosure of identity. However, the results of its operations are reflected in the annual averages for the 18 companles as a group.

[^105]:    1 Indicates loss.
    ${ }^{2}$ For the reason that this company wes not in operation during all of the years, 1917-36, its rates of return are omitted in order to avoid disclosure of identity." However, the results of its operations are refleeted in the annual averages for the 18 companies as a group.

[^106]:    ${ }^{1}$ United States' plant capacity 255,697,000 barrels. P. 263 of November 1939, issue of Concrete,

[^107]:    ${ }^{1}$ Based on 1938 plant capacity for the industry aggregating 255,697,000 barrels
    Indicates loss.

[^108]:    ${ }^{1}$ Investments ayeraged at beginning and end of year, after deducting appreciation.
    ${ }^{1}$ Net profits before deductions for Federal income and profits taxes.

[^109]:    1 Denotes loss.

[^110]:    ${ }^{1}$ Goodwill of $\$ 6,367,918$ was recorded on the books of the Viscose Co. at organization in May 1915. Addltlonal goodwill amounting to $\$ 19,314,552$ arose as the result of the formatlon of American Viscose Corporation, December 1922.

[^111]:    1 Denotes loss.
    ${ }^{2}$ Surplus addition

[^112]:    1 Denotes loss.

[^113]:    1 Includes Du Pont Fibersilk Co., 1921-24; Du Pont Rayon Co., 1925-35; rayon department of E. I. du Pont de Nemours \& Co., $1936-38$.
    ' Denotes deficit.
    ${ }^{3}$ Denotes loss.

