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## APPENDIX A

## DESCRIPTION OF SAMPLES

## I. Large Manufacturing Corporations

Sample A. For the period 1914-22 sample A covers 81 large manufacturing corporations, the assets of which amounted to about 25 percent of the total assets of all reporting large manufacturing corporations, i.e., companies with total assets of $\$ 5$ million and over. This sample was used in The Effect of War on Business Financing: Manufacturing and Trade, World War I, by Charles H. Schmidt and Ralph A. Young (National Bureau of Economic Research, Financial Research Program, 1943) and is described there in Appendix A.

For the period 1922-43 sample A covers 78 large manufacturing companies. It includes all of the companies used by Albert R. Koch in The Financing of Large Corporations, 1920-39 (National Bureau of Economic Research, Financial Research Program, 1943), with the exception of six rubber companies. A description, of this sample and a list of the companies included is found in Koch's study (pp. 11-15 and Appendix A). The omission of the rubber companies in the present study was necessary in order to link this sample with the sample of corporations for the period 1914-22, which excludes rubber companies. The link between the cash balance figures for these two samples has been effected by the use of the data for 1922; the 1922 figure of the early sample has been related to that of the later sample. Therefore, for the period 1914-21 the cash balance figures thus obtained bear the same relationship to the original figures as the figures for the 81 corporations bear to those of the 78 corporations in 1922.

Sample B. Of the 81 companies included in sample A for 1914-22, 31 reported sales figures. Of the 78 companies included in sample A for 1922 and subsequent years, 46 reported sales figures through 1925. In 1926 the number dropped to 45 because of the consolidation of Associated Oil Company and Tide Water Oil Company; and in 1943 the number was reduced to 44 , when the Yellow Truck and Coach Manufacturing Company merged with General Motors Corporation. The sample containing only the companies that report sales figures is designated as sample B. The figures of the groups of 31 and 46 companies have been linked according to the method described above under Sample $A$.

A list of the companies included in sample B for the period 1922-43, on which most of the analysis of this study is based, may be found at the end of this Appendix.

Sample C. Whenever absolute figures are important in the analysis of changes in the period 1914-22, the figures for the 31 companies are used.
(See the discussion of World War.I in Chapter 7.) These 31 companies are designated as sample $\mathbf{C}$.

## II. Medium-Sized and Small Manufacturing Corporations

The sample includes 73 manufacturing corporations having total assets of between $\$ 50$ thousand and $\$ 5$ million. The data, which cover the period 1916-42, were transcribed from corporate income tax returns in the files of the Wisconsin State Tax Commission.

## III. Large Trade Corporations

Sample $A$. For the period 1921-43 our sample of large trade companies, all of which are mass distributors, includes corporations representing mail order houses (2), chain stores (6), and department stores (1). A list of the companies included in this sample may be found at the end of this Appendix.

Sample B. The sample for the years 1914-22 comprises 6 companies, also mass distributors, listed at the end of this Appendix : mail order houses (2), chain stores (3), and department stores (1).

## IV. Medium-Sized and Small Trade Corporations

The sample of medium-sized and small corporations includes 30 companies for the years 1916-42. The data were transcribed from corporate income tax returns in the files of the Wisconsin State Tax Comission.

## LARGE MANUFACTURING CORPORATIONS REPORTING SALES DATA-SAMPLE B

Agricultural Machinery
Allis-Chalmers Mfg. Co.
International Harvester Co.
J. I. Case Threshing Machine Co.

Automobiles
General Motors Corp.
Mack Trucks, Inc.
Packard Motor Car Co.
White Motor Co.
Yellow Truck \& Coach Mfg. Co.
(merged with General Motors
Corp. in 1943)
Building Materials
Johns-Manville Corp.
Lone Star Cement Corp.

Chemicals
Air Reduction Co., Inc. Columbian Carbon Co.
E. I. Du Pont de Nemours \& Co.

Monsanto Chemical Co.
Iron and Steel
American Rolling Mill Co.
Bethlehem Steel Corp.
Inland Steel Co.
U. S. Steel Corp.

Wheeling Steel Corp.
Youngstown Sheet and Tube Co.

## Food

Corn Products Refining Co.

Industrial Machinery
American Steel Foundries
Fairbanks, Morse \& Co.
General Electric Co.
National Cash Register Co.

## Meat Packing

Armour \& Co.
Cudahy Packing Co.
Swift \& Co.

## Petroleum

Associated Oil Co. (merged with Tide Water Oil Co. in 1926)
Atlantic Refining Co.
Continental Oil Co.
Gulf Oil Corp.
Pure Oil Co.
Standard Oil Co. (New Jersey)

Tide Water Oil Co. (merged with
Associated Oil Co. in 1926)
Union Oil Co. of Calif.

## Textiles

American Manufacturing Co.
Arlington Mills
Mt. Vernon-Woodbury Mills, Inc.
Nashua Manufacturing Co.
Pacific Mills

## Tobacco

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

Transportation Equipment
Baldwin Locomotive Works

## LARGE TRADE CORPORATIONS <br> SAMPLE A

Chain Stores
First National Stores
Grant (W. T.) Co.
Kresge (S. S.) Co.
Kress (S. H.) Co.
Kroger Grocery \& Baking Co.
Penney (J. C.) Co.

Mail Order Houses
Montgomery Ward \& Co.
Sears, Roebuck \& Co.

Department Stores
May Department Stores

SAMPLE B

Chain Stores
Butler Brothers
Krasge (S. S.) Co.
Woolworth (F. W.) Co.

Mail Order Houses
Montgomery Ward \& Co.
Sears, Roebuck \& Co.
Department Stores
May Department Stores

## APPENDIX B

## INFLOW AND OUTFLOW OF CORPORATE FUNDS

In Chart B-1 are shown the absorption and release of cash by the components of what we call "operating assets"-receivables, inventory, and fixed property. The great sensitivity of receivables and inventory to business fluctuations is striking. The slight recession of 1927 is shown very clearly by a decline of both items. It is also worth noting that, after the depressions of 1921 and the early thirties, inventory begins to rise before receivables. The greater part of the increase in receivables in World War II represents sums owed by the government.

Fixed property does not decline immediately when a depression sets in. If the depression is short lived, either no decline at all takes place (as in 1921) or the decline occurs when business is again on the upswing (1939). The years of World War II show only a moderate expansion of fixed property. The explanation, of course, is that plants financed and owned by the government are not shown in the balance sheets.

Chart B-2 shows the changes in "funds from outside," net income, and dividends. The depression years, except 1938, are clearly characterized by a decline in financing from outside. But in some of the good years also (1924, 1929), a decrease occurs. The decrease in 1924 is accounted for by the sharp reduction in bank debts, which more than offset the increase of the other items included in "funds from outside." The reduction in bank debts occurred throughout the twenties but, as a rule, it was smaller than the increase in the other items. In 1929, a great reduction took place in longterm debts. Although a simultaneous increase in the issue of new stock indicates that long-term debts were simply replaced by common stock in that year, a slight decrease in "funds from outside" resulted from these transactions. It should be remembered that funds from outside include tax liabilities, which account largely for the increase during the years of World War II.

Although net income clearly reflects general business conditions, it is negative only in the year 1932. But, if cash dividends are taken into account, net income after dividends is found to be negative in the years 1921, 1931-33.

Chart B-1-Absorption and Release of Funds, by Major Asset Items, of Samples of Large Manufacturing Corporations



Chart B-2-Changes in Cash Dividends, Net Income, and Funds from Outside of Samples of Large Manufacturing Corporations


## APPENDIX C

## I. Operating Expenditures

The estimate of operating expenditures is arrived at as follows: First, net profit (i.e., net income after taxes) from the year's operations is deducted from the year's sales figure or net loss is added to the sales figure. This gives a figure for what may be called "unadjusted operating expenditures." The next step is to adjust this figure in four ways:

1. A decrease in inventories during the year is subtracted from "unadjusted operating expenditures," since such a.decrease swells the sales figure but does not lead to operating expenditures.
2. An increase in inventories, on the other hand, implies operating expenditures without being reflected in the sales figure. It, therefore, is added to the figure for "unadjusted operating expenditures."
3. Deductions are made for funds which, though charged to expenses for the year, do not lead to actual cash outlays during the year. In this group are included:
a. Increases in accounts payable and "other current liabilities" (excluding notes payable which represent bank debts)
b. Depreciation (which may, or may not, have been spent for replacement of equipment, but if it was so spent is allowed for under "gross property expenditures" below), depletion and amortization of deferred charges
c. Other noncash charges to income such as losses on the sale of fixed assets.
4. Finally, operating expenditures charged not against the year's income but against contingency or other reserve accounts are added.

The figure obtained after these four corrections of "unadjusted operating expenditures" are made constitutes the "operating expenditures" figure used in this study.

## II. Nonoperating Expenditures

This item consists of

1. Cash dividends
2. Gross fixed property expenditures
3. Increases in marketable securities and in investments
4. Decreases in current liabilities
5. Retirement of long-term debt and stock.

## III. Cash Payments

Total cash payments is the sum of I and II. The figure arrived at in this manner is, obviously, only an approximation of the actual figure for cash payments, since for balance sheet items only the net change between one year end and the next is known. For example, if a certain quantity of marketable securities is bought and resold within the year, no trace of the buying transaction is left in the balance sheet at the end of the year. The same holds true for purchases and sales of fixed assets and investments, and for the items on the liability side. For the sample of medium-sized and small manufacturing corporations, notes payable could not be separated out. While this leads to an additional inaccuracy in our payment figures for this sample, it is of negligible proportions.

## IV. Cash Receipts from Sales

Cash receipts from sales are obtained by subtracting from the sales figure an increase in receivables, or by adding to it a decrease in receivables.

## V. Other Cash Receipts

This item is the sum of an increase in "notes payable" and an increase in stocks and bonds, minus the sum of a decrease in investments and a decrease in marketable securities.

## VI. Total Cash Receipts

Total cash receipts are the sum of items IV and V.

Table D-1-Year-End Figures for Total Means of Payment and Corporate Cash Balances
(in millions)

| Year | Total Means of Payment ${ }^{\text {a }}$ (1) | Cash Balances ${ }^{\text {b }}$ |  |
| :---: | :---: | :---: | :---: |
|  |  | All Reporting Nonfinancial Corporations <br> (2) | All Reporting Manufacturing Corporations <br> (3) |
| 1914 | \$20,300 | - | -• |
| 1915 | 22,398 | - | -• |
| 1916 | 25,741 | - | - |
| 1917 | 28,589 | - | - |
| 1918 | 32,249 | - | - |
| 1919 | 37,098 | . | - |
| 1920 | 38,464 | - | - |
| 1921 | 38,101 | . | - |
| 1922 | 40,624 | - | . . |
| 1923 | 43,249 | - | -• |
| 1924 | 46,826 | - | -• |
| 1925 | 49,981 | - | -• |
| 1926 | 50,876 | \$6,534 | \$3,146 |
| 1927 | 53,802 | 6,633 | 3,143 |
| 1928 | 55,355 | 7,138 | 3,473 |
| 1929 | 54,555 | 7,349 | 3,430 |
| 1930 | 53,248 | 7,260 | 3,531 |
| 1931 | 47,861 | 6,041 | 3,084 |
| 1932 | 44,854 | 5,894 | 2,981 |
| 1933 | 41,532 | 5,566 | 2,750 |
| 1934 | 46,270 | 6,259 | 3,006 |
| 1935 | 51,273 | 6,679 | 3,389 |
| 1936 | 56,360 | 7,230 | 3,522 |
| 1937 | 55,815 | 6,661 | 3,282 |
| 1938 | 58,066 | 7,660 | 4,003 |
| 1939 | 63,253 | 8,537 | 4,570 |
| 1940 | 70,008 | 10,320 | 5,744 |
| 1941 | 76,336 | 11,195 | 6,149 |
| 1942 | 91,299 | - | . . |
| 1943 | 112,388 | - | - |

[^0]Table D-2-Selected Financial Data for Samples of Large Manufacturing Corporations
(in millions)

| Year | Sample Aa <br> Year-End Cash Balances (1) | Sample $B^{\text {a }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Year-End Cash Balances (2) | Year-End Marketable Securities (3) | Total <br> (4) | Cash R From Sales (5) | ts ${ }^{\text {b }}$ <br> "Other" <br> (6) |
| 1914 | \$284 | \$191 | \$34 | ... | ... | ... |
| 1915 | 383 | 258 | 153 | \$3,136 | \$2,981 | \$155 |
| 1916 | 545 | 401 | 275 | 4,676 | 4,546 | 130 |
| 1917 | 674 | 480 | 600 | 6,034 | 5,678 | 356 |
| 1918 | 704 | 505 | 709 | 7,932 | 7,398 | 534 |
| 1919 | 697 | 501 | 470 | 8,217 | 7,446 | 771 |
| 1920 | 628 | 447 | 412 | 8,181 | 7,496 | 685 |
| 1921 | 610 | 399 | 413 | 5,497 | 5,243 | 254 |
| 1922 | 636 | 435 | 404 | 5,642 | 5,355 | 287 |
| 1923 | 703 | 476 | 401 | 7,362 | 6,926 | 436 |
| 1924 | 786 | 523 | - 413 | 6,761 | 6,592 | 169 |
| 1925 | 867 | 576 | 433 | 8,362 | 8,113 | 249 |
| 1926 | 905 | 598 | 629 | 9,541 | 9,190 | 351 |
| 1927 | 989 | 653 | 614 | 9,696 | 9,242 | 454 |
| 1928 | 1,141 | 717 | 814 | 9,677 | 9,472 | 205 |
| 1929 | 1,049 | 634 | 654 | 11,302 | 10,401 | 901 |
| 1930 | 1,153 | 809 | 543 | 9,589 | 9,115 | 474 |
| 1931 | 1,013 | 755 | 616 | 7,213 | 7,006 | 207 |
| 1932 | 1,152 | 867 | 413 | 5,602 | 5,155 | 447 |
| 1933 | 989 | 724 | 530 | 5,089 | 4,983 | 106 |
| 1934 | 1,060 | 738 | 476 | 6,554 | 6,270 | 284 |
| 1935 | 1,242 | 868 | 388 | 7,684 | 7,380 | 304 |
| 1936 | 1,215 | 854 | 328 | 9,177 | 8,838 | 339 |
| 1937 | 1,063 | 742 | 280 | 10,955 | 10,291 | 664 |
| 1938 | 1,524 | 1,051 | 284 | 8,641 | 8,225 | 416 |
| 1939 | 1,701 | 1,131 | 403 | 8,989 | 8,887 | 102 |
| 1940 | 2,115 | 1,440 | 411 | 10,240 | 10,021 | 219 |
| 1941 | 1,979 | 1,373 | 935 | 13,813 | 13,426 | 387 |
| 1942 | 2,051 | 1,401 | 1,216 | 16,693 | 16,001 | 692 |
| 1943 | 2,502 | 1,665 | 1,798 | 20,809 | 20,338 | 471 |

a For description of sample see Appendix A.
b For description of method of estimating data see Appendix C.

Table D-2 (continued)-Selected Financial Data for Samples of Large Manufacturing Corporations (in millions)

| Year | Sample Ba |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total <br> (7) | Cash Paym For Operating Ependitures (8) | tsb <br> For Nonoperating Expenditures <br> (9) | Transaction Cashe (10) | "Free" Cashc (11) |
| 1914 | ... | ... | ... | ... | - |
| 1915 | \$3,095 | \$2,507 | \$588 | \$206 | \$16 |
| 1916 | 4,564 | 3,812 | 752 | 304 | 22 |
| 1917 | 5,943 | 4,813 | 1,130 | 397 | 39 |
| 1918 | 7,917 | 6,896 | 1,021 | 527 | -40 |
| 1919 | 8,213 | 6,694 | 1,519 | 553 | -56 |
| 1920 | 8,180 | 6,927 | 1,253 | 545 | -76 |
| 1921 | 5,565 | 4,338 | 1,227 | 372 | 46 |
| 1922 | 5,631, | 4,672 | 959 | 375 | 38 |
| 1923 | 7,313 | 6,211 | 1,102 | 487 | -35 |
| 1924 | 6,710 | 5,719 | 991 | 447 | 52 |
| 1925 | 8,315 | 7,106 | 1,209 | 554 | - 5 |
| 1926 | 9,510 | 7,945 | 1,565 | 633 | -48 |
| 1927 | 9,627 | 7,810 | 1,817 | 641 | -16 |
| 1928 | 9,604 | 8,020 | 1,584 | 640 | 45 |
| 1929 | 11,340 | 8,848 | 2,492 | 755 | -79 |
| 1930 | 9,431 | 7,567 | 1,864 | 628 | 95 |
| 1931 | 7,276 | 5,709 | 1,567 | 485 | 297 |
| 1932 | 5,475 | 4,477 | 998 | 365 | 446 |
| 1933 | 5,231 | 4,396 | 835 | 348 | 447 |
| 1934 | 6,550 | 5,666 | 884 | 436 | 295 |
| 1935 | 7,557 | 6,485 | 1,072 | 503 | 299 |
| 1936 | 9,187 | 7,643 | 1,544 | 612 | 249 |
| 1937 | 11,072 | 9,150 | 1,922 | 738 | 61 |
| 1938 | 8,320 | 7,001 | 1,319 | 554 | 342 |
| 1939 | 8,881 | 7,566 | 1,315 | 592 | 504 |
| 1940 | 9,911 | 8,412 | 1,499 | 659 | 631 |
| 1941 | 13,778 | 11,621 | 2,157 | 918 | 488 |
| 1942 | 16,628 | 14,557 | 2,071 | 1,108 | 278 |
| 1943 | 20,400 | 18,147 | 2,253 | 1,359 | 175 |

a For description of sample see Appendix A.
b For description of method of estimating data see Appendix C.
c For description of method of estimating data see pages 40-41.

Table D-2 (continued) -Selected Financial Data for Samples of Large Manufacturing Corporations (in millions)

| Year | Sample $\mathrm{B}^{\text {a }}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Liquid Funds for Transaction Purposeb (12) | "Free" <br> Liquid <br> Funds ${ }^{\text {b }}$ <br> (13) | Changes in Total Funds ${ }^{\text {c }}$ (14) | Net Income (15) | $\begin{gathered} \text { Cash } \\ \text { Dividends } \\ (16) \end{gathered}$ | Changes in Funds from Outside (17) |
| 1914 | . | $\cdots$ | . $\cdot$ | -•• | . $\cdot$ | -•• |
| 1915 | \$ 399 | \$-69 | . $\cdot$ | ... | . | ... |
| 1916 | 589 | -37 | ... | ... | ... | . |
| 1917 | 767 | 103 | $\cdots$ | ... | -• | ... |
| 1918 | 1,021 | 95 | . $\cdot$ | . $\cdot$ | ... | - |
| 1919 | 1,060 | 13 | . $\cdot$ | $\cdots$ | - . | -•• |
| 1920 | 1,055 | -145 | -•• | -•• | ... | -•• |
| 1921 | 718 | 111 | \$-419 | \$159 | \$248 | \$-330 |
| 1922 | 726 | 93 | 53 | 334 | 248 | -33 |
| 1923 | 943 | -86 | 572 | 558 | 300 | 314 |
| 1924 | 866 | 41 | 178 | 539 | 316 | -45 |
| 1925 | 1,073 | -100 | 439 | 728 | 369 | 80 |
| 1926 | 1,227 | -109 | 588 | 885 | 472 | 175 |
| 1927 | 1,242 | 5 | 120 | 769 | 538 | -111 |
| 1928 | 1,239 | 160 | 551 | 1,036 | 594 | 109 |
| 1929 | 1,463 | -54 | 594 | 1,266 | 654 | -18 |
| 1930 | 1,217 | 103 | 112 | 774 | 631 | -31 |
| 1931 | 939 | 423 | -560 | 300 | 556 | -304 |
| 1932 | 706 | 619 | -486 | -77 | 333 | -76 |
| 1933 | 675 | 592 | -5 | 219 | 268 | 44 |
| 1934 | 845 | 389 | 122 | 335 | 307 | 94 |
| 1935 | 975 | 260 | 215 | 530 | 379 | 64 |
| 1936 | 1,185 | 34 | 363 | 877 | 650 | 136 |
| 1937 | 1,428 | -326 | 774 | 1,014 | 707 | 467 |
| 1938 | 1,073 | 105 | 19 | 382 | 381 | 18 |
| 1939 | 1,146 | 289 | 366 | 728 | 531 | 169 |
| 1940 | 1,279 | 414 | 771 | 958 | 631 | 444 |
| 1941 | 1,776 | 303 | 1,682 | 1,172 | 674 | 1,184 |
| 1942 | 2,145 | 317 | 1,506 | 938 | 519 | 1,087 |
| 1943 | 2,632 | 409 | 1,065 | 966 | 561 | 660 |

a For description of sample see Appendix A.
b For method of estimating data see page 49.
c Equity (adjusted) plus debt. Column 15 plus 17 minus 16.

Table D-2 (continued)-Selected Financial Data for Samples of Large Manufacturing Corporations (in millions)

| Year | Sample $\mathrm{B}^{\text {a }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Absorption or Release of Funds by Major Asset Classes ${ }^{\text {b }}$ |  |  |  |  |
|  | Operating Assets (18) | Fixed Property (19) | $\begin{aligned} & \text { Inventory } \\ & (20) \end{aligned}$ | Receivables (21) | "Other" Assetsc (22) |
| 1914 | $\cdots$ | . $\cdot$ | $\cdots$ | ... | . . |
| 1915 | -•• | . . | . $\cdot$ | $\cdots$ | -•• |
| 1916 | ... | ... | . $\cdot$. | . $\cdot$. | . . |
| 1917 | -•• | ... | . . | ... | ... |
| 1918 | ... | . $\cdot$ | -•• | - . | . $\cdot$ |
| 1919 | -•• | . . | -•• | $\cdots$ | -•• |
| 1920 | ... | . $\cdot$ | ... | ... | ... |
| 1921 | \$-512 | \$116 | \$-407 | \$-221 | \$84 |
| 1922 | -6 | 77 | -17 | -66 | 38 |
| 1923 | 288 | 127 | 162 | -1 | 245 |
| 1924 | 59 | 77 | -42 | 24 | 61 |
| 1925 | 262 | 92 | 101 | 69 | 109 |
| 1926 | 288 | 216 | 91 | -19 | 93 |
| 1927 | -7 | 258 | -40 | -225 | 90 |
| 1928 | 175 | 64 | 14 | 97 | 107 |
| 1929 | 468 | 227 | 149 | 92 | 375 |
| 1930 | -120 | 235 | -191 | -164 | 172 |
| 1931 | -705 | -142 | -379 | -184 | 112 |
| 1932 | -454 | -103 | -229 | -122 | 58 |
| 1933 | -61 | -164 | 130 | -27 | 82 |
| 1934 | 152 | -54 | 219 | -13 | 11 |
| 1935 | 186 | -17 | 108 | 95 | -3 |
| 1936 | 414 | 105 | 203 | 106 | 29 |
| 1937 | 898 | 426 | 453 | 19 | 31 |
| 1938 | -327 | 33 | -303 | -57 | 33 |
| 1939 | 101 | -21 | 76 | 46 | 26 |
| 1940 | 480 | 184 | 152 | 144 | -28 |
| 1941 | 1,116 | 293 | 438 | 385 | 108 |
| 1942 | 1,187 | 101 | 404 | 682 | -8 |
| 1943 | 82 | -81 | 135 | 28 | 128 |

[^1]Table D-2 (concluded)-Selected Financial Data for Samples of Large Manufacturing Corporations
(in millions)

| Year | Sample Ca |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year-End Cash Balances (23) | Year-End Marketable Securities (24) | Changes in Total Fundsb (25) | Net Income (26) | Cash Dividends (27) | Changes in Funds from Outside (28) |
| 1914 | \$144 | \$20 | ... | . . | ... | - |
| 1915 | 195 | 91 | \$410 | \$372 | \$101 | \$139 |
| 1916 | 303 | 163 | 514 | 647 | 206 | 73 |
| 1917 | 362 | 356 | 925 | 652 | 228 | 501 |
| 1918 | 381 | 421 | 752 | 510 | 191 | 433 |
| 1919 | 378 | 279 | 260 | 465 | 155 | -50 |
| 1920 | 337 | 244 | 456 | 451 | 165 | 170 |
| 1921 | 301 | 245 | -280 | 175 | 165 | -290 |
| 1922 | 329 | 240 | 111 | 303 | 155 | -37 |
|  | Absorption or Release of Funds by Major Asset Classes ${ }^{\text {c }}$ |  |  |  |  |  |
| Year | Operating Assets (29) | Fixed Property (30) | Inven (31) | tory | Receivables (32) | "Other" Assetsd (33) |
| 1915 | \$246 | \$116 | \$5 |  | \$79 | \$42 |
| 1916 | 317 | 97 | 15 |  | 63 | 17 |
| 1917 | 645 | 216 | 32 |  | 105 | 27 |
| 1918 | 607 | 170 | 27 |  | 158 | 60 |
| 1919 | 304 | 244 |  |  | 30 | 102 |
| 1920 | 500 | 308 | 10 |  | 88 | 48 |
| 1921 | -272 | 156 | -26 |  | -168 | 28 |
| 1922 | 87 | 160 |  |  | -68 | 5 |

a For description of sample see Appendix A.
b Equity (adjusted) plus debt. Column 26 plus 28 minus 27.
c Positive items represent an absorption of funds; negative items, a release.
d Including investments.

Table D-3-Selected Financial Data for Sample of MediumSized and Small Manufacturing Corporations a
(in thousands)

| Year | Year-End Cash Balances (1) | Year-End Investments ${ }^{\text {b }}$ (2) | Annual Cash Payments ${ }^{c}$ <br> (3) | Transaction Cash ${ }^{\text {d }}$ <br> (4) | "Free" Cash ${ }^{\text {d }}$ <br> (5) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1916 | \$864 | \$712 | ... | ... | ... |
| 1917 | 602 | 1,416 | \$27,499 | \$1,265 | \$-532 |
| 1918 | 1,101 | 2,516 | 32,291 | 1,485 | -634 |
| 1919 | 1,126 | 3,172 | 34,443 | 1,584 | -471 |
| 1920 | 1,728 | 4,793 | 50,623 | 2,329 | -902 |
| 1921 | 1,206 | 3,773 | 32,276 | 1,485 | -18 |
| 1922 | 1,460 | 3,881 | 35,530 | 1,634 | -301 |
| 1923 | 1,897 | 4,768 | 37,606 | 1,730 | -52 |
| 1924 | 1,731 | 4,967 | 38,670 | 1,779 | 35 |
| 1925 | 1,750 | 5,612 | 39,147 | 1,801 | -60 |
| 1926 | 2,125 | 6,245 | 41,579 | 1,913 | 25 |
| 1927 | 2,079 | 6,750 | 41,542 | 1,911 | 191 |
| 1928 | 2,117 | 7,952 | 41,671 | 1,917 | 181 |
| 1929 | 1,818 | 7,955 | 39,821 | 1,832 | 136 |
| 1930 | 1,728 | 8,164 | 35,439 | 1,630 | 143 |
| 1931 | 1,743 | 8,671 | 25,771 | 1,186 | 550 |
| 1932 | 1,302 | 8,604 | 18,066 | 831 | 691 |
| 1933 | 1,418 | 8,757 | 18,654 | 858 | 502 |
| 1934 | 1,441 | 7,850 | 21,445 | 987 | 443 |
| 1935 | 1,310 | 7,822 | 24,906 | 1,146 | 230 |
| 1936 | 1,366 | 7,646 | 30,143 | 1,387 | -49 |
| 1937 | 1,434 | 6,922 | 33,764 | 1,553 | -156 |
| 1938 | 1,858 | 6,818 | 26,886 | 1,237 | 396 |
| 1939 | 1,896 | 6,712 | 30,865 | 1,420 | 421 |
| 1940 | 2,237 | 5,985 | 36,136 | 1,662 | 379 |
| 1941 | 3,109 | 6,372 | 49,069 | 2,257 | 418 |
| 1942 | 4,019 | 7,124 | 56,910 | 2,618 | 949 |

[^2]Table D-3 (continued)-Selected Financial Data for Sample of Medium-Sized and Small Manufacturing Corporations a (in thousands)

| Year | Changes in Total Funds ${ }^{\text {b }}$ (6) | Net <br> Income <br> (7) | Cash Dividends (8) | Changes in Funds from Outside (9) |
| :---: | :---: | :---: | :---: | :---: |
| 1917 | \$3,808 | \$3,390 | \$1,608 | \$2,026 |
| 1918 | 2,157 | 3,106 | 1,421 | 472 |
| 1919 | 2,707 | 3,621 | 1,358 | 444 |
| 1920 | 8,056 | 6,460 | 1,494 | 3,090 |
| 1921 | -1,304 | -1,227 | 866 | 789 |
| 1922 | 884 | 384 | 1,466 | 1,966 |
| 1923 | 2,076 | 3,659 | 1,664 | 81 |
| 1924 . | 2,300 | 2,491 | 1,547 | 1,356 |
| 1925 | 1,847 | 3,492 | 1,797 | 152 |
| 1926 | 1,692 | 3,699 | 2,336 | 329 |
| 1927 | 994 | 3,828 | 2,624 | -210 |
| 1928 | 1,275 | 2,936 | 2,615 | 954 |
| 1929 | 712 | 3,309 | 2,531 | -66 |
| 1930 | -1,545 | 367 | 2,016 | 104 |
| 1931 | -2,652 | -837 | 1,290 | -525 |
| 1932 | -3,912 | -2,310 | 585 | -1,017 |
| 1933 | 141 | -483 | 551 | 1,175 |
| 1934 | -1,748 | -20 | 926 | -802 |
| 1935 | -945 | -240 | 753 | 48 |
| 1936 | 1,278 ${ }^{\circ}$ | 929 | 918 | 1,267 |
| 1937 | 563 | 941 | 1,105 | 727 |
| 1938 | -1,374 | 110 | 813 | -671 |
| 1939 | -567 | 222 | 832 | 43 |
| 1940 | 997 | 1,727 | 888 | 158 |
| 1941 | 4,289 | 3,011 | 1,110 | 2,388 |
| 1942 | 2,937 | 2,488 | 1,094 | 1,543 |

[^3]Table D-3 (concluded)-Selected Financial Data for Sample of Medium-Sized and Small Manufacturing Corporations a (in thousands)

| Year | Absorption or Release of Funds by Major Asset Classesb |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Operating Assets (10) | Fixed Property (11) | Inventory (12) | Receivables (13) | "Other" <br> Assets <br> (14) |
| 1917 | \$3,515 | \$1,167 | \$2,476 | \$ -128 | \$ -62 |
| 1918 | 594 | 495 | 144 | -45 | -68 |
| 1919 | 1,831 | 620 | -250 | 1,461 | 169 |
| 1920 | 5,625 | 2,687 | 2,322 | 616 | 221 |
| 1921 | -161 | 1,582 | -332 | -1,411 | -58 |
| 1922 | 447 | 177 | -943 | 1,213 | 44 |
| 1923 | 1,203 | 763 | 774 | -334 | -26 |
| 1924 | 2,192 | 1,320 | 320 | 552 | 193 |
| 1925 | 1,073 | 41 | 310 | 722 | 136 |
| 1926 | 746 | 601 | 66 | 79 | -29 |
| 1927 | 408 | 1,087 | 89 | -768 | 147 |
| 1928 | 96 | -159 | -39 | 294 | 40 |
| 1929 | 836 | -100 | 4 | 932 | 182 |
| 1930 | -1,553 | -36 | -428 | -1,089 | -150 |
| 1931 | -3,196 | -939 | -1,249 | -1,008 | 10 |
| 1932 | -3,401 | -834 | -1,685 | -882 | -19 |
| 1933 | 487 | -842 | 765 | 564 | -120 |
| 1934 | -1,126 | -881 | -101 | -144 | 108 |
| 1935 | -484 | -1,050 | 222 | 344 | -365 |
| 1936 | 1,275 | -82 | 689 | 668 | 27 |
| 1937 | 1,150 | -110 | 1,092 | 168 | 66 |
| 1938 | -1,846 | -657 | -789 | -400 | 54 |
| 1939 | -377 | -778 | -69 | 470 | 15 |
| 1940 | 603 | -275 | 389 | 489 | 281 |
| 1941 | 3,456 | 424 | 1,838 | 1,194 | -7 |
| 1942 | 401 | -241 | 647 | -5 | 410 |

[^4]Table D-4-Selected Financial Data for Samples of Large Trade Corporations (in millions)

| Year | Sample A a |  |  | Sample B ${ }^{\text {a }}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year-End Cash Balances (1) | Year-End Marketable Securities (2) | Annual Cash Payments (3) | Year-End Cash Balances (4) | Year-End Marketable Securities (5) | Annual Cash Payments (6) |
| 1914 | . . | -•• | - | \$11 | . $\cdot$ | . |
| 1915 | ... | ... | . $\cdot$ | 17 | ... | \$312 |
| 1916 | ... | ... | ... | 10 | $\cdots$ | 399 |
| 1917 | ... | ... | ... | 12 | \$3 | 480 |
| 1918 | ... | -•• | $\cdots$ | 16 | 9 | 515 |
| 1919 | ... | '... | . . | 30 | 14 | 632 |
| 1920 | ... | . . | ... | 18 | 14 | 819 |
| 1921 | \$27 | \$20 | ... | 34 | 16 | 568 |
| 1922 | 24 | 19 | \$595 | 29 | 14 | 634 |
| 1923 | 24 | 11 | 738 | . $\cdot$ | - . | . . |
| 1924 | 42 | 11 | 783 | $\cdots$ | . $\cdot$ | ... |
| 1925 | 39 | 12 | 958 | $\cdots$ | . | ... |
| 1926 | 57 | 23 | 1,078 | ... | . . | ... |
| 1927 | 50 | 25 | 1,209 | ... | ... | ... |
| 1928 | 58 | 15 | 1,456 | $\cdots$ | $\cdots$ | $\cdots$ |
| 1929 | 85 | 20 | 1,764 | -•• | -• | -•• |
| 1930 | 89 | 20 | 1,588 | ... | ... | ... |
| 1931 | 55 | 49 | 1,467 | -•• | . $\cdot$ | . $\cdot$ |
| 1932 | 72 | 36 | 1,274 | ... | ... | ... |
| 1933 | 67 | 34 | 1,313 | $\cdots$ | $\cdots$ | -•• |
| 1934 | 101 | 18 | 1,474 | -• | $\cdots$ | ... |
| 1935 | 85 | 13 | 1,680 | ... | . . . | . . . |
| 1936 | 98 | 17 | 1,950 | ... | ... | ... |
| 1937 | 99 | 13 | 2,046 | ... | ... | ... |
| 1938 | 140 | 10 | 1,921 | $\cdots$ | $\cdots$ | -•• |
| 1939 | 115 | 14 | 2,191 | $\cdots$ | . . | . $\cdot$ |
| 1940 | 138 | 7 | 2,376 | . | ... | ... |
| 1941 | 160 | 73 | 2,996 | . | ... | .. |
| 1942 | 236 | 217 | 3,167 | . $\cdot$ | . . . | ... |
| 1943 | 200 | 263 | 3,251 | $\cdots$ | -•• | -•• |

a For description of sample see Appendix A.

Table D-5-Selected Financial Data for Sample of Medium-Sized and Small Trade Corporations ${ }^{a}$ (in thousands)

| Year | Year-End <br> Cash <br> Balances <br> $(1)$ | Year-End <br> Investmentsb <br> $(2)$ | Annual <br> Cash <br> Payments |
| :---: | :---: | :---: | :---: |
| 1916 | $\$ 191$ | $(3)$ |  |

a For description of sample see Appendix A.
b Includes marketable securities.

## APPENDIX E

## SOURCES AND DESCRIPTIONS OF SERIES IN CHARTS

Chart 1-Total means of payment includes demand and time deposits, excluding government deposits, of all banks (including savings banks) and currency in circulation outside banks; figures are from Banking and Monetary Statistics (Board of Governors of Federal Reserve System, 1943), p. 34, and Federal Reserve Bulletin. Series for cash balances are from annual issues of Statistics of Income (U. S. Treasury). Data are plotted on logarithmic vertical scale. Unit: billion dollars.

Chart 2-Ratios are based on data presented in Chart 1.

Chart 3-Indexes $(1926-29=100)$ for total means of payment and cash balances of all reporting corporations are based on data presented in Chart 1. Samples of large and of medium-sized and small manufacturing corporations are described in Appendix A. Straight lines shown on the chart are trend lines described in text, page 13.

Chart 4-Samples on which chart is based are described in Appendix A. Data are plotted on logarithmic vertical scale. Unit: billion dollars.

Chart 5-The samples presented on the chart are described in Appendix A. For description of operating assets see Appendix B. Unit: billion dollars.

Chart 6-For description of samples see Appendix A. The items included in series for total funds are listed on page 23. Unit: billion dollars.

Charts 7, 8, 9—The samples and data presented in the charts are described in Appendices A and C. Unit: billion dollars.

Chart 10-Average cash balances are moving averages of year-end data for two successive years. The payments figures and the sample are described in Appendices A and C. Data are plotted on logarithmic vertical scale. Unit: billion dollars.

Chart 11-For description of cash balances and payments data see Chart 10; samples are described in Appendix A.

Charts 12, 13-Cash balances are moving averages of year-end data for two successive years. Methods of estimating transaction cash and "free" cash are outlined in text, pages 40-41. Descriptions of samples are presented in Appendix A. Unit: Chart 12, billion dollars; Chart 13, million dollars.

Chart 14-Total liquid funds are sum of cash and marketable securities. Methods of estimating liquid funds for transaction purpose and "free" liquid funds are described in text, page 49. For description of sample see Appendix A. Unit: billion dollars.

Chart 15-For description of "free" cash, see text, page 41; for description of sample see Appendix A. Unit for "free" cash: billion dollars.

Charts 16, 17, 18 -For description of samples see Appendix A. Data in Chart 16 are plotted on logarithmic vertical scale; unit, million dollars.

Chart 19-Cash balances are moving averages of year-end data for two successive years. The payments figures and the samples are described in Appendices A and C. Figures for Sample B are presented for the period 1915-22; and for Sample A, 1922-43. Data are plotted on logarithmic vertical scale. Unit: billion dollars.

Chart 20-Data for 1915-22 are for Sample B, and those for 1922-43, for Sample A; for description of samples see Appendix A.

Charts B1, B2—For description of samples see Appendix A. Unit: billion dollars.


[^0]:    a Demand and time deposits, excluding government deposits, of all banks (including savings banks) plus currency in circulation outside banks. For 1914-22 data are averages of June figures. From Banking and Monetary Statistics (Board of Governors of Federal Reserve System, 1943) p. 34 and Federal Reserve Bulletin.
    ${ }^{\text {b }}$ From United States Treasury Department, Bureau of Internal Revenue, Statistics of Income, annually.

[^1]:    a For description of sample see Appendix A.
    b Positive items represent an absorption of funds; negative items, a release. Changes in cash balances and in marketable securities can be calculated from figures in columns 2 and 3, page 11.4.
    c Including investments.

[^2]:    ${ }^{\text {a }}$ For description of sample see Appendix A.
    b Includes marketable securities.
    c For description of method of estimating data see Appendix C.
    d For description of method of estimating data see pages 40-41.

[^3]:    a For description of sample see Appendix A.
    b Equity (adjusted) plus debt. Column 7 minus 8 plus 9.

[^4]:    a For description of sample see Appendix A.
    b Positive items represent an absorption of cash; negative items, a release. Data for cash balances and investments including marketable securities can be calculated from figures in Columns 1 and 2, page 119.

