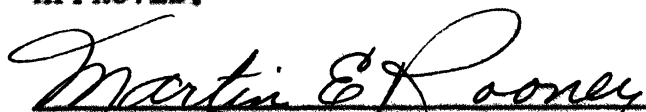
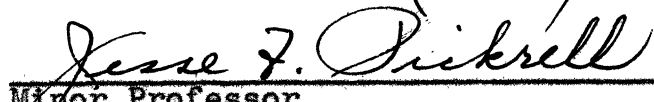


GROWTH BASED ON CORPORATE PROFITS FOR SELECTED
PERIODS, 1925-1954

APPROVED:


Major Professor


Minor Professor


Dean of the School of Business


Dean of the Graduate School

GROWTH BASED ON CORPORATE PROFITS FOR SELECTED
PERIODS, 1925-1954

THESIS

Presented to the Graduate Council of the
North Texas State College in Partial
Fulfillment of the Requirements

For the Degree of

MASTER OF BUSINESS ADMINISTRATION

By

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CHAPTER I

INTRODUCTION

This study is one of five such studies dealing with the general subject of growth which have been undertaken recently in the School of Business of North Texas State College.

Growth, as used in these studies, has reference to a rate of economic progress or expansion which is in excess of the rate of economic progress or expansion for the United States economy as a whole. This rate of economic progress or expansion on a compound basis over long periods of time is, according to an article appearing in The Analysts Journal,¹ approximately 3 per cent.

These five theses recently undertaken at North Texas State College represent an initial broad scale exploration of the general subject of growth. The first study in the series concerned growth of sales based on an ever-changing base year and was completed in 1955 by Donald Earl Vaughn.² The second study in the series is being made by Bill H.

¹R. F. Taylor, "Channel or Rut," The Analysts Journal, XII (May, 1956), 97.

²Donald Earl Vaughn, "A Study of the Sales Growth of 100 Large Corporations," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas, January, 1955.

Reasoner³ and is also concerned with growth in sales; however, the study being made by Reasoner involves compound annual rates of growth during definite economic periods rather than base year calculations. In both studies involving growth in sales, more than 150 prominent United States corporations were employed.

This study is the third in the series and is concerned, as were the previous studies, with the general subject of growth. However, this third study is concerned with the compound annual rates of growth, during definite economic epochs, of net profit after taxes for more than 150 prominent corporations.

The fourth study in the series deals with growth in units of physical production.⁴ This growth in physical units of production is therefore not at all affected by the changing purchasing power of the dollar. Growth here, as before, has to do with compound annual rates of growth during definite economic epochs and more than a 150 prominent corporations were employed.

The last study in the series will appraise, criticize, and summarize the three most recent studies - namely those

³Bill H. Reasoner, "Growth Based on Corporate Sales for Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas. (Expected date of completion, August, 1956.)

⁴James A. Bishop, "Growth Based on Units of Physical Production for Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas. (Expected date of completion unknown.)

dealing with compound annual rates of growth in sales, net profit after taxes, and units of physical production.⁵

Statement of the Problem

The problem involved in this study is threefold: (1) to determine what constitutes growth, (2) to determine which corporations are growing, and (3) to determine as nearly as possible the growth characteristics of the corporations employed.

In order to render maximum usefulness from these studies, all rates of growth were calculated on a compound annual rate basis. It is intended that these compound annual rates of growth will be of considerable value to the investment analyst fraternity.

Purpose

The investing public is becoming more and more aware of the fact that in growth there is safety, price appreciation, and the certainty of much higher dividends. This concept of growth is relatively new in that only recently has it been properly considered even by investment analysts.

Therefore, the purpose of this thesis and the series of studies of which it is a part, is to provide a rather elaborate,

⁵Kenneth A. McGrady, "Appraisal of Over-All Economic Growth During Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas. (Expected date of completion unknown.)

over-all study of growth. This study is designed to be beneficial to the general investing public and especially to security analysts.

This series of five studies will provide five basic volumes containing valuable statistics, theoretical conclusions, and comments on various methods for measuring and interpreting growth in five different areas with this particular study being solely concerned with growth in net profit after taxes.

Delimitations

Since this study involves growth of net profit after taxes only, no other factor or element of growth such as growth of net sales or growth in the amount of physical production was considered.

Only 162 companies comprising 34 basic industry groups were employed in computing growth in net profit after taxes. Justification for the selection of the companies that were employed will be found in Chapter III.

Net profit after taxes data were compiled for the previously selected key years only, however, due to the methodology employed in this study, data for the key years only are inherent. The term "key years" has reference to certain years that denote the beginnings and endings of pre-selected and definite epochs.

Sources of Data

Standard & Poor's Listed Stock Reports⁶ and Moody's Manuals of Investment⁷ were employed extensively in this study. Moody's Manuals of Investment consists of Moody's Industrial Manuals, Moody's Banking & Finance Manuals, Moody's Public Utilities, and Moody's Transportation Manuals, all of which were used extensively. Moody's Manuals of Investment also include Moody's Governments which were not employed in this study.

Publications by Merrill, Lynch, Pierce, Fenner, & Beane concerning growth were leaned upon rather heavily in regard to the selection of the companies employed.⁸

In compiling the statistical portions of this study, Financial Compound Interest and Annuity Tables⁹ published by the Financial Publishing Company was used in calculating the rates of growth throughout the entire study. In calculating the rates of growth that fell outside the available compound interest tables, a mathematical formula involving logarithms

⁶ Listed Stock Reports. (New York, 1956).

⁷ Moody's Manuals of Investment, Industrials, Public Utilities, Transportation, and Banking & Finance (New York, 1925-1955).

⁸ Growth Stocks (New York, 1954).

⁹ Charles H. Gushee, editor, Financial Compound Interest and Annuity Tables (Boston, 1942), pp. 1-884.

was derived. Therefore, New Manual of Logarithms¹⁰ was employed to facilitate the solution of the formula when applicable.

The formula employed was:

$$\text{rate} + 1 = \sqrt[n]{\frac{\text{Net Profit Data for Last Year of Period}}{\text{Net Profit Data for First Year of Period}}}$$

n = number of years in the period being employed

A complete explanation of the formula and the mathematical procedures employed in arriving at the compound annual rates of growth will be offered in Chapter IV.

Definition of Terms

The term "growth" is the theme of this entire series of studies and is certainly a term worthy of definition. Growth, as used in this study, has reference to a rate of economic progress or expansion which is in excess of the rate of economic progress or expansion for the United States economy as a whole.

The term "compound annual rate of growth" refers to a constant rate of increase during each year of definite and pre-selected economic periods. While the rate of increase for each of the years in a given economic period is the same, that rate may not be the same for another, completely different economic period.

¹⁰ Karl Christian Bruhns, editor, New Manual of Logarithms (Chicago, 1941), pp. 2-185.

The term "net profit after taxes" refers to the amount of net income or net earnings after all expenses including federal income tax.

The term "key years" has reference to certain years that denote the beginnings and endings of pre-selected and definite economic epochs.

Related Studies

As was mentioned in the introductory section of this chapter, there are four studies, recently undertaken in the School of Business of North Texas State College, that are directly and closely related to this study. The common factor involved in all five of the studies is the factor of economic growth or expansion. To maximize the usefulness of these studies, each is concerned with a different aspect of economic growth. The intent of this series of five studies is to provide five basic units, which, when used together, will provide an adequate picture of over-all economic growth.

The first study in the series¹¹ was concerned with growth of sales, calculated from a base year (1923 in most cases), while the second study¹² is concerned with sales growth

¹¹ Donald Earl Vaughn, "A Study of the Sales Growth of 100 Large Corporations," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas, January, 1955.

¹² Bill H. Reasoner, "Growth Based on Corporate Sales for Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas. (Expected date of completion, August, 1956.)

calculated on a compound annual rate, during definite economic epochs, basis.

This study is the third in the series and is concerned with growth in net profit after taxes.

The fourth study in the series¹³ is concerned with growth in physical production.

The second, third, and fourth theses were written concurrently and growth, in all three cases, was calculated on the basis of a compound annual rate during definite economic epochs.

The fifth and final study¹⁴ in the series will criticize, appraise, and summarize the other studies and is the final unit necessary to insure the success of the series.

The concept of economic growth is not new, however, it is a concept which has not been given proper attention. This fact was pointed out very clearly by an article appearing in a recent issue of Business Week entitled, "Why Economists Struck Out on a Hot Issue,"¹⁵ The article is a summation of the proceedings of the annual convention of the American Economic Association. It concludes that, "economics, as it

¹³James A. Bishop, "Growth Based On Units of Physical Production for Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas. (Expected date of completion unknown.)

¹⁴Kenneth A. McCrady, "Appraisal of Over-All Economic Growth During Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas. (Expected date of completion unknown.)

¹⁵"Why Economists Struck Out on a Hot Issue," Business Week (January 7, 1956), pp. 98-101.

exists today, is incapable of roving over the vast terrain covered by the concept of economic growth." The article went further to state that three major developments have made it next to impossible for economists to avoid the question of economic growth. The three developments involved: (1) the struggle of the under-developed countries of the world to grow economically, (2) the cold war competition between Russia and the United States, and (3) the unusually rapid post war growth of the United States economy, particularly in the boom year of 1955 and the implications which this tremendous boom has created.

An article which appeared recently in The Magazine of Wall Street concerned economic growth and especially growth stocks. The article was entitled, "Companies Paying Cash and Stock, Too,"¹⁶ and it stressed the point that in selecting a growth stock, attention should be given to the company rather than the industry although the industry was definitely a consideration. In regard to a formula for spotting sure growth situations, the article disclosed the fact that there wasn't one; however, it did state that three important considerations in selecting a growth stock are: (1) future prospects, (2) alert management, and (3) ample funds to withstand temporary adversities.

¹⁶"Companies Paying Cash and Stock, Too," The Magazine of Wall Street (March 31, 1956), pp. 25-26.

Another related study appeared under the "Notes and Review Articles" section of a recent issue of The Journal of Economic History and was entitled, "Criteria of Periodization in Economic History."¹⁷ This article was concerned with an attempt to cut political and economic history into meaningful economic periods. Such an attempt was made in this study.

A recent article in The Analysts Journal entitled, "Channel or Rut,"¹⁸ is very closely related to this study of economic growth. The article referred to several previously made studies concerning long-term growth of the national economy. Quoting directly, the following statement is presented:

In January 1949 Harry S. Truman sent to Congress the annual economic review prepared by the Council of Economic Advisers. In this document there appeared, under the heading of "Growth in Output of the Economy," the statement that total production, as measured by the deflated gross national product, has increased about 3 3/4 per cent a year since 1875.

Another important quote from the article is thus:

A great influence in business and governmental thinking has been the report of the President's Materials Policy Commission under the chairmanship of William S. Paley, which issued its report in mid-1952. National economic growth was discussed and some startling figures were projected for 1975. One widely read summary of the Paley report said:

¹⁷Herbert Heaton, "Criteria of Periodization in Economic History," The Journal of Economic History, XV (1955), 13-23.

¹⁸R. F. Taylor, "Channel or Rut," The Analysts Journal, XII (May, 1956), 97.

"National Growth projected here is no vague dream. It is based on past performance. Output over the last 100 years has increased 3 per cent a year on the average."

The article seemingly asserts one basic conclusion - the economy as a whole is growing at a compound annual rate of approximately 3.00 per cent discounting the factor of inflation.

Chapter Presentation

Chapter II will be concerned with the determination and selection of the economic periods employed. Special emphasis will be given to the reasons why these particular periods were selected.

Chapter III will deal with the reasons for selecting and justification of industry groups and corporations employed.

Chapter IV will contain the core of the entire study - that is, a table for each of the 162 corporations showing the compound annual rates of growth during each of the economic periods. Also, in Chapter IV, explanation will be offered concerning the mathematical formula and processes used in arriving at the compound annual rates of growth.

Chapter V will present a series of tables summarizing and evaluating the compound annual rates of growth presented in the individual company tables contained in Chapter IV.

Chapter VI will be concerned with the usual summary, findings, conclusions, and recommendations.

CHAPTER II

DETERMINATION OF THE ECONOMIC PERIODS EMPLOYED

The first study in a series of five concerning economic growth was completed in 1955 by Donald Earl Vaughn.¹ One of the principal conclusions of the study was that most of the economic growth which has occurred in the United States during the past quarter of a century has occurred since the year 1940. Vaughn, in most cases, used the year 1923 as a base for determining the amount of growth in sales which had occurred since that year. While this system of measuring growth has merit, it also has very definite disadvantages - the principal one being that a growth pattern, on a year to year basis, could not possibly be visualized.

Growth calculated on the basis of a constant base year is inadequate. Also, growth calculated on a year to year basis is not practical because of the multiplicity of findings that would be obtained. It is logical then to assume that a period by period investigation of growth of net profit might be fruitful. Therefore, definite economic periods were chosen.

The periods selected were intended to correspond with well known and definite economic epochs - thus, a growth

¹ Donald Earl Vaughn, "A Study of the Sales Growth of 100 Large Corporations," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas, January, 1955.

pattern could be readily visualized. Also, the effect of depressions, pre-war periods, wars, and post-war periods on particular companies could be easily determined.

In regard to growth patterns, they can be vastly different for different companies. This fact is illustrated by Fig. 1. The three companies presented in Fig. 1 are: (1) Aluminum Company of America, (2) American Gas & Electric Company, and (3) United States Gypsum Corporation.

Another major conclusion of the Vaughn study² involves the element of inflation and its relation to the term growth as used in this study. The point must be very clear: that inflation is not to be confused with growth. For example, if prices increased 100 per cent during a definite period of time and net profit after taxes increased 100 per cent during the same period of time, then the increase is solely attributable to inflation and growth, as define in this study, did not take place at all.

Vaughn³ attempted to make allowances for the factor of inflation by adjusting data for the changing purchasing power of the dollar, but concluded that it was not practical to do so on a company by company basis.

If each company calculated an index of prices, then the change in this index could be used to adjust net profit data for the factor of inflation. Unfortunately, this is not

² Ibid.

³ Ibid.

generally done. It would also be impractical to calculate an index of prices for each company due to volume of production changes and varying product lines and product mixes.

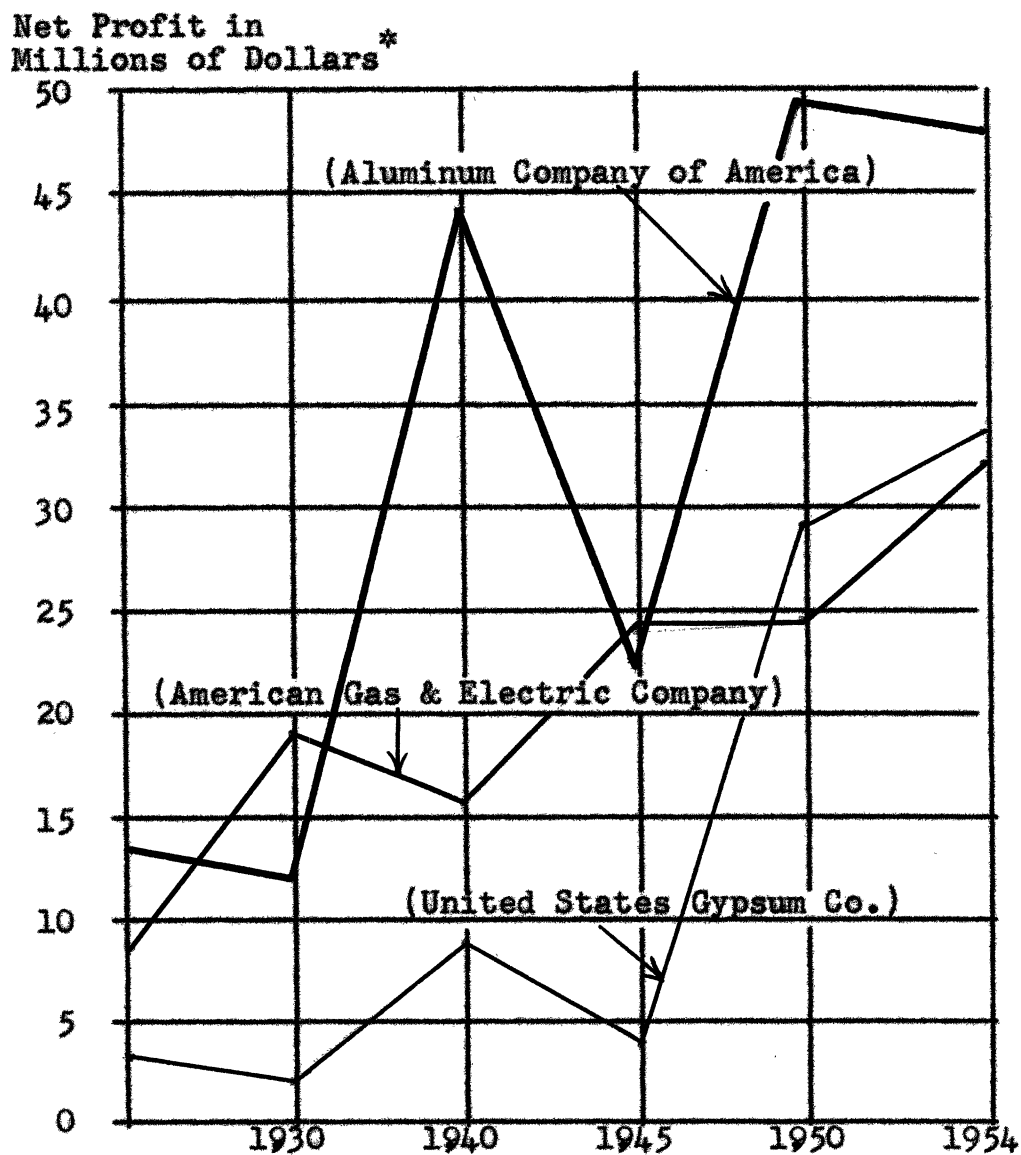
If individual company price indexes corresponded with industry price indexes calculated by the United States Government, then no great problem would be involved in adjusting growth rates for the factor of inflation; but to assume that the two indexes correspond would be a fallacy.

The fourth thesis⁴ in this series tends to make evident the amount of inflation present in any given rate of growth. Thesis four is devoted to the presentation of compound annual rates of growth in units of physical production. Physical production is not affected by inflation; therefore, a comparison of the compound annual rate of growth in units of physical production with the compound annual rate of growth in sales or net profit after taxes would provide a very important clue as to the amount of inflation present.

For example, assume the compound annual rate of increase in units of physical production to be 3 per cent for a particular company. Also assume that the compound annual rate of increase in sales for that same company was 23 per cent--the difference would have to be ascribed to inflation.

⁴James A. Bishop, "Growth Based on Units of Physical Production for Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas. (Expected date of completion unknown.)

These companies were selected at random from the list of tables in Chapter IV showing compound annual rates of growth. The radical difference in growth patterns is evident as shown by Fig. 1.



*Sources: Moody's Industrial Manuals, 1925-1955.
Moody's Public Utility Manuals, 1925-1955.
Standard and Poor's Listed Stock Reports, 1956.

Fig. 1--Various growth patterns - 1925-1954

In summarizing Vaughn's⁵ conclusions regarding inflation, the following points are brought out: (1) the factor of inflation is very important and cannot be ignored, but (2) there is no satisfactory way to adjust for it on a company by company basis.

It was decided that in this study no attempt, with one major exception, would be made to adjust data for the factor of inflation. The economic periods were selected not only to correspond with definite economic epochs, but to also correspond, as nearly as possible, with periods during which the change in the purchasing power of the dollar was either negligible or very clear-cut. This consideration was made so that an individual using this study could make mental adjustment for the change in the purchasing power of the dollar and the factor of inflation.

In summarizing the determination of the economic periods employed to this point, two conclusions are evident: (1) the periods used must conform with well known epochs of the American economy and (2) as nearly as possible, the economic periods must conform with periods during which the purchasing power of the dollar was either relatively constant or sufficiently marked so that adjustment could be made for the inflationary factor.

⁵ Donald Earl Vaughn, "A Study of the Sales Growth of 100 Large Corporations," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas, January, 1955.

To illustrate the change in the purchasing power of the dollar and its relation to prices during each of the economic periods, Table I is presented. By referring to Table I, adjustment for the factor of inflation or deflation can be made in regard to considerations of growth which occurred during the economic periods employed.

Justification of the Economic Periods Employed

Period I - 1925-1930

The purpose of this period is to reveal the action and characteristics of the many companies and industries surveyed in this study during the last period of prosperity preceding the Great Depression.

This period is generally known as the last prosperous years in the American economy before the era of "big government." It is commonly referred to as the "roaring twenties."

The greater part of Period I was prosperous; however, it did include the year 1930 which was the first year of the Great Depression. Correspondingly, the year 1930 registered the initial impact of the slide in wholesale prices. As a result, the over-all period 1925-1930 registered a sharp increase in the purchasing power of the dollar (based on wholesale prices) of approximately 20.0 per cent and a decline in wholesale prices of approximately 16.5 per cent.

The purchasing power of the dollar (based on wholesale prices) increased from 148.8 in 1925 to 178.5 in 1930,⁶ while

⁶Trade and Security Statistics (New York, 1956), pp. 72-3.

TABLE I

THE PURCHASING POWER OF THE DOLLAR BASED ON WHOLESALE
COMMODITY PRICES, THE WHOLESALE COMMODITY PRICE
INDEX, AND THE PER CENT CHANGE OF EACH FOR
SELECTED PERIODS, 1925-1954*

Economic Periods	Purchasing Power of the Dollar	Wholesale Commodity Price Index**	Change Expressed as a Per Cent	
			Purchasing Power of the Dollar	Prices
Period I				
1925	148.8	67.2		
1930	178.5	56.1	+19.95%	-16.51%
Period II				
1930	178.5	56.1		
1940	195.9	51.1	+ 9.75	- 8.91
Period III				
1940	195.9	51.1		
1945	145.4	68.8	-25.78%	+34.64%
Period IV				
1945	145.4	68.8		
1950	97.2	103.1	-33.15%	+49.85%
Period V				
1950	97.2	103.1		
1954	90.7	110.3	- 6.69%	+ 6.98%
Period VI				
1925	148.8	67.2		
1954	90.7	110.3	-39.05%	+64.14%

*Sources: Statistical Abstract of the United States, 1955,
pp. 310-12.
Standard & Poor's Trade and Security Statistics,
May, 1956, pp. 72-3.

**1947-1949 = 100.

the wholesale price index (all commodities) declined from 67.2 in 1925 to 56.1 in 1930.⁷ In both of the above cases 1947-1949 = 100.

Therefore, growth rates which occurred during this period are firm and completely unaffected by inflation - actually, they are understated.

Period II - 1930-1940

Period II corresponds with the decade of the Great Depression. The general economic conditions during this period are so well known that elaboration is unnecessary.

This was a period of hard times as evidenced by the rising purchasing power of the dollar and the corresponding decline in prices.

The purchasing power of the dollar (based on wholesale prices - 1947-1949 = 100) was 178.5 in 1930 and 195.9 in 1940.⁸ This represents an increase of approximately 10.0 per cent. Also, the wholesale price index (all commodities) declined from 56.1 in 1930 to 51.1 in 1940,⁹ a decrease percentage-wise of approximately 9.0 per cent.

Therefore, it may be concluded that growth rates occurring during this period are very significant in that they represent growth during one of the greatest periods of depression in history.

⁷Statistical Abstracts of the United States (Washington, 1955), pp. 310-16.

⁸Ibid.

⁹Ibid.

Any growth during the period 1930-1940 is again firm and not affected by inflation - actually, growth during this period would be understated also.

Period III - 1940-1945

This period is clearly marked as the years of World War II. It is only logical that a war-time economy would have a tremendous effect on economic growth. The effect is evidenced by the changing purchasing power of the dollar during this period.

There was a decline in the purchasing power of the dollar (based on wholesale prices - 1947-1949 = 100) from 195.9 in 1940 to 145.4 in 1945.¹⁰ This represents a decline of approximately 26.0 per cent. Wholesale prices increased during this period from 51.1 in 1940 to 68.3 in 1945 - an increase of approximately 35.0 per cent.¹¹

Both of the above factors indicate that inflation was pronounced. Therefore, any growth that occurred during this period would be overstated because of the inflationary factor.

Summation of the First Three Periods

Before entering the discussion of the justification of Period IV, attention is given to the fact that the purchasing power of the dollar (based on wholesale prices - 1947-1949 = 100) had stabilized itself by the year 1945.

¹⁰ Ibid.

¹¹ Ibid.

The purchasing power of the dollar (based on wholesale prices - 1947-1949 = 100) was 148.8 in 1925 and 145.4 in 1945.¹² The significance of this fact is thus: (1) the change in the purchasing power of the dollar had leveled-out between 1925 and 1945 and (2) any considerations of growth occurring during the over-all period 1925-1945 (not a selected period in the study) would be totally unaffected by the factor of inflation or deflation because of the leveling-out effect of the change in the purchasing power of the dollar. This twenty-year span (1925-1945) covers the first three economic periods employed in the study.

Justification of the Economic Periods Employed

Period IV - 1945-1950

Period IV corresponds with the post war, pre-Korea boom period. Inflation during this period was pronounced as evidenced by the change in the purchasing power of the dollar and wholesale prices.

The purchasing power of the dollar (based on wholesale prices - 1947-1949 = 100) was 145.4 in 1945 and 97.2 in 1950¹³ - this represents a decline of approximately 33.0 per cent. Correspondingly, wholesale prices were on the increase during this period. The Wholesale Price Index (all commodities - 1947-1949 = 100) rose from 68.8 in 1945 to 103.1 in 1950¹⁴ - an increase of approximately one half or 50.0 per cent.

¹²Ibid.

¹³Ibid.

¹⁴Ibid.

Therefore, any growth which occurred during the period 1945-1950 was definitely overstated because of the factor of inflation.

Period V - 1950-1954

Period V is considered to be the post war, post-Korea boom period. Inflation during this period was present as evidenced by the further decline in the purchasing power of the dollar and rise in wholesale prices. The purchasing power of the dollar (based on wholesale prices - 1947-1949 = 100) was 97.2 in 1950 and 90.7 in 1954¹⁵ - a decline of approximately 6.5 per cent.

Wholesale prices (all commodities - 1947-1949 = 100) rose from 103.1 in 1950 to 110.3 in 1954¹⁶ - an increase of approximately 7.0 per cent.

Inflation during the period 1950-1954 was present, but mild. Therefore, any growth which occurred during this period would be slightly overstated due to the inflationary factor.

Period VI - 1925-1954 (usually)

Period VI is an "over-all increase" period. The normal period of time covered by Period VI is 1925 through 1954. However, Period VI consists of the net profit data available for the earliest key year divided into net profit data for the year 1954. Therefore, the period of time covered by Period VI varies depending upon the availability of net profit data.

¹⁵Ibid.

¹⁶Ibid.

The over-all period 1925-1954 was a period of increasing wholesale prices and declining purchasing power of the dollar.

The purchasing power of the dollar (based on wholesale prices - 1947-1949 = 100) was 148.8 in 1925 and only 90.7 in 1945.¹⁷ This represents a decline in the purchasing power of the dollar of approximately 40.0 per cent for this "over-all" period.

The rise in wholesale prices was pronounced during this period. The index (all commodities - 1947-1949 = 100) rose from 67.2 in 1925 to 110.3 in 1954¹⁸ -- an increase of approximately 65.0 per cent.

This period of "over-all increase" or growth is lacking in meaning for two reasons: (1) the true growth pattern, during definite economic epochs, is distorted and (2) the period of time covered is not the same in every case. These factors tend to make the value of Period VI - 1925-1954 (usually) doubtful. Period VI - 1925-1954 (usually) does, however, serve as a sort of summation of over-all growth.

Summary

In summarizing Chapter II, the following points are brought out: (1) growth calculated on the basis of a constant base year is inelastic and does not reflect a true growth pattern on a year to year basis, (2) a year to year calculation

¹⁷Ibid.

¹⁸Ibid.

of growth would be impractical because of the multiplicity of findings that would result and (3) the factor of inflation definitely influences economic increases, but there is no satisfactory way to adjust data completely, on a company by company basis, for the factor of inflation.

In an attempt to solve the three problems mentioned above, definite economic periods were chosen. These periods were chosen to correspond with well known economic epochs so that a growth pattern during such times as wars, depressions, and so on, could be visualized.

These periods were chosen not only to correspond with well known economic epochs, but to correspond also, as nearly as possible, with periods during which the purchasing power of the dollar either was constant or changed enough so that mental adjustment could be made to rule out the factor of inflation in any considerations of growth. The periods selected are:

Period I	1925-1930	Period IV	1945-1950
Period II	1930-1940	Period V	1950-1954
Period III	1940-1945	Period VI	1925-1954 (usually)

Justification for the selection for each of these periods, including change in the purchasing power of the dollar and wholesale prices, was offered.

CHAPTER III

SELECTION OF THE INDUSTRY GROUPS AND CORPORATIONS EMPLOYED

This chapter is concerned with the selection and justification of the industry groups and corporations employed in this study. A total of 162 corporations contained in 34 basic industry groups were selected to be surveyed in order to determine the amount of growth in net profit after taxes.

The 162 corporations were selected as a representative list of leading corporations in practically all industries. Favoritism in selecting the corporations was shown to those that were specifically recommended as growth companies by Merrill, Lynch, Pierce, Fenner & Beane¹ and by Moody's Investor's Service.² Company selection was also influenced by relative corporate size as revealed in an article appearing in Fortune³ concerning America's largest corporations. Also, as a matter of interest, forty-two of the fifty companies appearing in the "Favorite Fifty Stocks" held by investment companies are included in this survey.⁴

¹Growth Stocks (New York, 1954).

²Moody's Ranking Scores of Common Stocks (New York, 1954).

³"Box Score of Business Bigness," Fortune, LII (July, 1955), 96-98.

⁴Arthur Wieserburger, Investment Companies (New York, 1955), p. 348.

List of Selected Industries and Corporations

The industry groups and corporations that were selected are as follows:

1. Agricultural Machinery

- A. International Harvester Company
- B. Deere & Company
- C. Allis-Chalmers Manufacturing Company

2. Aircraft Manufacturers

- A. Boeing Airplane Company
- B. Douglas Aircraft Company, Incorporated
- C. United Aircraft Corporation
- D. North American Aviation, Incorporated
- E. Bendix Aviation Corporation

3. Airlines

- A. American Airlines, Incorporated
- B. Eastern Air Lines, Incorporated
- C. Trans World Airlines, Incorporated
- D. United Air Lines, Incorporated

4. Automobiles

- A. General Motors Corporation
- B. Chrysler Corporation

5. Auto Accessories

- A. Borg-Warner Corporation
- B. The Electric Auto-Lite Company
- C. Thompson Products, Incorporated

6. Banks

- A. Chase National Bank of the City of New York
- B. Bank of America National Trust and Savings Association
- C. The First National Bank of Boston

7. Beverages

- A. The Coco-Cola Company
- B. Anheuser-Busch, Incorporated
- C. Hiram Walker-Gooderham & Worts, Limited

8. Building Supplies

- A. Johns-Manville Corporation
- B. Ideal Cement Company
- C. American Radiator & Standard Sanitary Corporation
- D. United States Gypsum, Corporation
- E. Weyerhaeuser Timber Company
- F. United States Plywood Corporation
- G. Crane Company

9. Chemicals

- A. E. I. du Pont de Nemours & Company
- B. Allied Chemical & Dye Corporation
- C. American Cyanamid Company
- D. Union Carbide & Carbon Corporation
- E. Dow Chemical Company
- F. Monsanto Chemical Company
- G. Spencer Chemical Company

10. Containers

- A. American Can Company
- B. Lily-Tulip Cup Corporation
- C. Dixie Cup Company

11. Dairy Products

- A. Pet Milk Company
- B. National Dairy Products Corporation
- C. The Borden Company

12. Drugs

- A. American Home Products Corporation
- B. Abbott Laboratories
- C. Chas. Pfizer & Company, Incorporated
- D. Parke, Davis & Company
- E. Merck & Company, Incorporated

13. Electrical Equipment

- A. General Electric Company
- B. Westinghouse Electric Corporation
- C. Western Electric Company, Incorporated
- D. Cutler-Hammer, Incorporated
- E. McGraw Electric Company
- F. Otis Elevator Company
- G. Minneapolis-Honeywell Regulator Company

14. Foods

- A. Swift & Company
- B. General Mills, Incorporated
- C. Corn Products Refining Company
- D. Continental Baking Company
- E. Pillsbury Mills, Incorporated
- F. H. J. Heinz Company
- G. Hershey Chocolate Corporation
- H. General Foods Corporation
- I. National Biscuit Company
- J. California Packing Corporation

15. Food Chains

- A. Safeway Stores, Incorporated
- B. The Kroger Company

16. Glass and Fiberglas

- A. PittsburghPlate Glass Company
- B. Libbey-Owens-Ford Glass Company
- C. Owens-Illinois Glass Company
- D. Owens-Corning Fiberglas Corporation

17. Insurance and Finance

- A. Fidelity-Phenix Fire Insurance Company
- B. Travelers Insurance Company
- C. Associates Investment Company
- D. Lincoln National Life Insurance Company
- E. C.I.T. Financial Corporation

18 Machinery

- A. Caterpillar Tractor Company
- B. Cincinnati Milling Machine Company
- C. Ingersoll-Rand Company
- D. Outboard, Marine & Manufacturing Company
- E. Ex-Cell-O Corporation
- F. Briggs & Stratton Corporation

19. Merchandising

- A. Sears, Roebuck & Company
- B. J.C. Penny Company
- C. F.W. Woolworth Company
- D. Federated Department Stores Incorporated
- E. Montgomery Ward & Company

20. Metals

- A. Aluminum Company of America
- B. Kennecott Copper Corporation
- C. National Lead Company
- D. Reynolds Metals Company
- E. Aluminium, Limited (of Canada)

21. Motion Pictures

- A. Loew's, Incorporated
- B. Paramount Pictures Corporation

22. Natural Gas

- A. El Paso Natural Gas Company
- B. Panhandle Eastern Pipe Line Company

23. Office Equipment

- A. International Business Machines Corporation
- B. The National Cash Register Company

24. Paper and Pulp

- A. International Paper Company
- B. Crown Zellerbach Corporation
- C. Scott Paper Company
- D. Container Corporation of America
- E. St. Regis Paper Company
- F. Union Bag & Paper Corporation

25. Petroleum

- A. Standard Oil Company (New Jersey)
- B. Socony Mobil Oil Company, Incorporated
- C. The Texas Company
- D. Standard Oil Company (California)
- E. Cities Service Company
- F. The Ohio Oil Company
- G. Skelly Oil Company
- H. Gulf Oil Corporation
- I. Standard Oil Company (Indiana)
- J. Shell Oil Company
- K. Phillips Petroleum Company
- L. The Atlantic Refining Company
- M. Signal Oil & Gas Company
- N. Amerada Petroleum Corporation
- O. Creole Petroleum Corporation

26. Public Utilities

- A. American Telephone & Telegraph Company
- B. American Gas & Electric Company
- C. Middle South Utilities, Incorporated
- D. Pacific Gas & Electric Company
- E. Consolidated Edison Company of New York, Incorporated
- F. General Public Utilities Corporation
- G. Niagara Mohawk Power Corporation
- H. Texas Utilities Company

27. Radio and Television Broadcasting

- A. Radio Corporation of America
- B. Columbia Broadcasting System, Incorporated
- C. Philco Corporation
- D. Motorola, Incorporated

28. Railroads

- A. Southern Pacific Company
- B. The Atchison, Topeka, & Santa Fe Railway Company
- C. The Pennsylvania Railroad Company
- D. Union Pacific Railroad Company
- E. Seaboard Airline Railroad Company

29. Rubber

- A. Goodyear Tire & Rubber Company
- B. Firestone Tire & Rubber
- C. The B. F. Goodrich Company

30. Shoes

- A. International Shoes Company
- B. Melville Shoe Corporation
- C. General Shoe Corporation

31. Soap

- A. The Procter & Gamble Company
- B. Colgate-Palmolive Company

32. Steel

- A. United States Steel Corporation
- B. Bethlehem Steel Corporation
- C. Republic Steel Corporation
- D. Armco Steel Corporation
- E. Youngstown Sheet & Tube Company

33. Textiles

- A. J.P. Stevens and Company, Incorporated
- B. Burlington Industries, Incorporated
- C. M. Lowenstein & Sons, Incorporated
- D. Pepperell Manufacturing Company

34. Tobacco

- A. The American Tobacco Company
- B. Liggett & Myers Tobacco Company
- C. R. J. Reynolds Tobacco Company

35. Miscellaneous Industries

- A. Eastman Kodak Company
- B. Minnesota Mining & Manufacturing Company
- C. Pittsburgh Consolidation Coal Company

This concludes the list of 162 corporations contained in 34 basic industry groups.

It should be noted that the foregoing list of various industry groups does not necessarily contain the largest, best known, or best performing corporations in that particular industry. This was done in an attempt to add breadth to the list.

CHAPTER IV

COMPUTATION AND PRESENTATION OF THE COMPOUND ANNUAL RATES OF GROWTH OF THE 162 CORPORATIONS EMPLOYED

This chapter is the core of the entire study involving growth. It is concerned chiefly with the computation and presentation of the compound annual rates of growth of the 162 corporations employed.

Consideration will be given first to the mathematical processes and procedures involved in the computation of the annual rates of growth.

In arriving at the compound annual rates of growth, net profit data for the last year in a particular economic period was divided by net profit data for the first year of the same economic period - thus, a quotient, carried to six decimal places, was obtained. The problem then was to determine what the compound annual rate of increase for each of the years contained in the particular economic period being used would have been considering the quotient already obtained. To solve this problem, Financial Compound Interest and Annuity Tables¹ was employed.

The purpose of a compound interest table is to compile, for various rates, the amount of one dollar compounded for a

¹Charles H. Gushee, editor, Financial Compound Interest and Annuity Tables (Boston, 1942), pp. 1-884.

various number of periods. However, the problem involved in this particular application was not the ascertaining of the amount of one dollar, but the determination of the rate applicable when the amount of one dollar is known.

The term "amount of one dollar," per se, has no application to calculations involved in this study. However, the quotient obtained by dividing the net profit data for the last year in the economic period by the net profit data for the first year in the same economic period is considered to be the amount of one dollar compounded annually for the number of years in that economic period at X (unknown) per cent.

The problem involved is the determination of the unknown per cent. This was accomplished by looking down the "amount of one dollar" column in the compound interest tables for the number of years (periods) in each of the economic periods until the previously mentioned quotient was found. Then, the rate or per cent corresponding to the quotient was the compound annual rate of increase during each of the years of the particular economic period being used. Incidentally, percentages were rounded off to the nearest one half per cent.

One major difficulty encountered was that many of the compound annual rates of increase exceeded 10 per cent which was the maximum limit of the compound interest tables. To solve this problem, supplementary compound interest tables were calculated. These supplementary compound interest

tables disclosed the amount of one dollar compounded annually for ten periods from 10.5 per cent through 40 per cent in 0.5 per cent intervals. (Example: 10.5 per cent, 11 per cent, 11.5 per cent, and so on) It must be kept in mind that these rates were calculated for ten periods only.

Another difficulty was encountered in that some of the compound annual rates were greater than the rates shown in either the regular or the supplementary compound interest tables. To solve this problem and to calculate rates that fell outside both tables, a formula was derived. The formula is:

$$\text{Rate} + 1 = \sqrt[n]{\frac{\text{Net Profit Data for Last Year of Period}}{\text{Net Profit Data for First Year of Period}}}$$

n = Number of years in each economic period.

The formula is self-explanatory. Net profit data for the last year in a particular economic period is divided by the net profit data for the first year in the same economic period. The "nth" root of the quotient thus obtained is taken. The "nth" root is nothing more than the number of years contained in the particular economic period in question. For example, 1930 through 1940 is ten years (as used in this study) - then the "nth" root involving any calculation of growth during this period would be the tenth root.

Further explanation as to the number of years or the interval contained in each of the economic periods is justified.

Technically, the period of time covered by Period I - 1925-1930 is six years and the period of time covered by Period II - 1930-1940 is eleven years. This is true assuming that the period of time in question begins on January 1 of the first year contained in the economic period and ends on December 31 of the last year contained in the economic period. Proceeding on this assumption, the period of time covered by Period I - 1925-1930 would be not five years, but six years and the period of time covered by Period II - 1930-1940, would not be ten years, but eleven years. The same reasoning applies to all periods.

In this study, the period of time covered by Period I - 1925-1930, was considered to be five years and the period of time covered by Period II - 1930-1940, was considered to be ten years. The basis for this decision lies in the methodology and purpose of the study. Actually, net profit data, for example the year 1930, were not known or made available before December 31, 1930. Also, net profit data for the year 1931 were not known or made available before December 31, 1931. Therefore, the first period of growth or decline during Period II - 1930-1940, was from December 31, 1930 to December 31, 1931. Following this line of reasoning, Period II - 1930-1940, would contain not eleven years, but ten years.

Statistically, there is a very definite over-lapping of data, but due to the methodology and purpose of this study, such an over-lapping is inherent and necessary.

The calculation of the "nth" root was in itself an involved problem. To facilitate the solution of the "nth" root calculations, logarithms and logarithmic tables were employed. The logarithmic tables used were contained in New Manual of Logarithms.²

After the "nth" root was obtained, the formula was thereby reduced to a simple algebraic equation with one unknown. Solving for the unknown rate was then a very simple task. A sample calculation employing the derived formula will follow:

Sample Calculation

In order to illustrate exactly how the derived formula is used, the calculation of the compound annual rate of growth during Period III for the Boeing Airplane Company is presented in detail.

$$\text{Formula: Rate} + 1 = \sqrt[n]{\frac{\text{Net Profit Data for Last Year in Period}}{\text{Net Profit Data for First Year in Period}}}$$

Data: Boeing Airplane Company - Period III - 1940-1945

Net profit data for the year 1945 - \$6.5 million

Net profit data for the year 1940 - .4 million

$$\text{Solution: Rate} + 1 = \frac{6.5}{.4} ; = 16.250000 ; = 1.7466^*$$

²Karl Christian Bruhns, editor, New Manual of Logarithms (Chicago, 1941), pp. 2-185.

*To obtain the fifth root of 16.250000, logarithms were used in the following manner: the log of 16.250000 = 1.2108534 ÷ 5 = .2421707; the anti-log of .2421707 = 1.7466.

Rate + 1 = 1.7466 or Rate = 1.7466 - 1 = .7466,

or; 74½% (to the nearest one half per cent)

Presentation of the Compound Annual Rates of Growth

In the following pages of this chapter, a table, showing the compound annual rates of growth in net profit after taxes, during the various economic periods, will be presented for each of the 162 corporations employed.

These tables are considered to be the core of this entire study; therefore, they are designed to be of maximum usefulness to the investment-minded reader.

The company tables are introduced in the following pages of this chapter by industry fly sheets. These industry fly sheets are presented in alphabetical order with allied companies of a particular industry group contained under a common fly sheet.

Reference to these company tables will reveal the fact that only increases, in regard to growth of net profit during the economic periods, were considered. In such instances where the net profit after taxes figure for the first year in the economic period was greater than the net profit after taxes figure for the last year in the same economic period, no attempt was made to calculate a uniform rate of decrease; instead, the word "negative" was employed in any further considerations of growth during this period.

Tables II through CLXIII follow:

Agricultural Machinery

TABLE II
GROWTH RATES, 1925-1954
INTERNATIONAL HARVESTER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 25.7	1925 ÷ 19.2	1.338541	6%
Period II 1930-1940	1940 23.2	1930 ÷ 25.7	Negative	Negative
Period III 1940-1945	1945 27.5	1940 ÷ 23.2	1.056034	1%
Period IV 1945-1950	1950 66.7	1945 ÷ 27.5	2.722449	22%
Period V 1950-1954	1954 36.3	1950 ÷ 66.7	Negative	Negative
Period VI Variable Over-all Period	1954 36.3	1925 ÷ 19.2	1.890625	2%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE III
GROWTH RATES, 1925-1954
DEERE & COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 8.2	1925 ÷ 4.5	1.822222	13%
Period II 1930-1940	1940 12.2	1930 ÷ 8.2	1.487804	4%
Period III 1940-1945	1945 8.7	1940 ÷ 12.2	Negative	Negative
Period IV 1945-1950	1950 42.8	1945 ÷ 8.7	4.919540	37½%
Period V 1950-1954	1954 20.6	1950 ÷ 42.8	Negative	Negative
Period VI Variable Over-all Period	1954 20.6	4.5	4.577778	5½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE IV
GROWTH RATES, 1925-1954
ALLIS-CHALMERS MANUFACTURING COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	3.6	÷ 3.4	1.058824	1%
Period II	1940	1930		
1930-1940	5.1	÷ 3.6	1.416667	3½%
Period III	1945	1940		
1940-1945	7.1	÷ 5.1	1.392157	7%
Period IV	1950	1945		
1945-1950	23.1	÷ 7.1	3.253521	26½%
Period V	1954	1950		
1950-1954	26.1	÷ 23.1	1.129870	3%
Period VI	1954	1925		
Variable Over-all Period	26.1	÷ 3.4	7.676471	7½%

*Sources: Moody's Industrial Manuals, 1925-1955,
Standard & Poor's Listed Stock Reports, 1956.

Aircraft Manufacturers

TABLE V
GROWTH RATES, 1925-1954
BOEING AIRPLANE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 NA**	1925 NA**	÷	. . .
Period II 1930-1940	1940 .4	1930 NA**	÷	. . .
Period III 1940-1945	1945 6.5	1940 .4	÷	16.250000 74½%
Period IV 1945-1950	1950 10.8	1945 6.5	÷	1.661538 10½%
Period V 1950-1954	1954 37.0	1950 10.8	÷	3.425926 36%
Period VI Variable Over-all Period	1954 37.0	1940 .4	÷	92.500000 38%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, July 19, 1934.

TABLE VI
GROWTH RATES, 1925-1954
DOUGLAS AIRCRAFT COMPANY, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.7 ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	10.8 ÷	.7	16.728571	32½%
Period III	1945	1940		
1940-1945	9.0 ÷	10.8	Negative	Negative
Period IV	1950	1945		
1945-1950	7.2 ÷	9.0	Negative	Negative
Period V	1954	1950		
1950-1954	36.2 ÷	7.2	5.027778	38%
Period VI	1954	1930		
Variable Over-all Period	36.2 ÷	.7	51.714285	18%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, November 30, 1928.

TABLE VII
GROWTH RATES, 1925-1954
UNITED AIRCRAFT CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
	1930	1925		
Period I 1925-1930	NA**	NA**	• • • •	• • •
Period II 1930-1940	13.0	NA**	• • •	• • •
Period III 1940-1945	12.9	13.0	Negative	Negative
Period IV 1945-1950	13.2	12.9	1.023256	1½%
Period V 1950-1954	26.0	13.2	1.969697	18½%
Period VI Variable Over-all Period	26.0	13.0	2.000000	5%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, July 21, 1934.

TABLE VIII
GROWTH RATES, 1925-1954
NORTH AMERICAN AVIATION, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1.9	1925 NA**	. . .	. . .
Period II 1930-1940	1940 7.1	1930 1.9	3.736842	14%
Period III 1940-1945	1945 14.5	1940 7.1	2.042254	15½%
Period IV 1945-1950	1950 8.1	1945 14.5	Negative	Negative
Period V 1950-1954	1954 22.2	1950 8.1	2.740741	28½%
Period VI Variable Over-all Period	1954 22.2	1930 1.9	16.842105	12½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Delaware, December 6, 1928.

TABLE IX
GROWTH RATES, 1925-1954
BENDIX AVIATION CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	1.3	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	6.5	÷ 1.3	5.000000	17½%
Period III	1945	1940		
1940-1945	15.5	÷ 6.5	2.387615	19%
Period IV	1950	1945		
1945-1950	17.0	÷ 15.5	1.096774	2%
Period V	1954	1950		
1950-1954	25.5	÷ 17.0	1.500000	10½%
Period VI	1954	1930		
Variable Over-all Period	25.5	÷ 1.3	19.615387	13%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, April 13, 1929.

Airlines

TABLE X
GROWTH RATES, 1925-1954
AMERICAN AIRLINES, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 NA**	1925 NA** ÷	. . .	. . .
Period II 1930-1940	1940 1.9	1930 NA** ÷	. . .	. . .
Period III 1940-1945	1945 4.3	1940 1.9 ÷	3.263158	26½%
Period IV 1945-1950	1950 10.7	1945 4.3 ÷	2.418605	19½%
Period V 1950-1954	1954 11.4	1950 10.4 ÷	1.096154	2½%
Period VI Variable Over-all Period	1954 11.7	1940 1.9 ÷	6.000000	13½%

* Sources: Moody's Transportation Manuals, 1925-1955.
Standard and Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, April 11, 1934.

TABLE XI
GROWTH RATES, 1925-1954
EASTERN AIR LINES, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 NA**	1925 NA** ÷	. . .	. . .
Period II 1930-1940	1940 1.6	1930 NA** ÷	. . .	. . .
Period III 1940-1945	1945 2.1	1940 1.6 ÷	1.312500	5½%
Period IV 1945-1950	1950 5.3	1945 2.1 ÷	2.523810	20½%
Period V 1950-1954	1954 7.2	1950 5.3 ÷	1.358491	8%
Period VI Variable Over-all Period	1954 7.2	1940 1.6 ÷	4.500000	11½%

* Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** N.A., not available. Incorporated in Delaware, March 29, 1938.

TABLE XII
GROWTH RATES, 1925-1954
TRANS WORLD AIRLINES, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA**	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	d.1	÷ NA**	. . .	. . .
Period III	1945	1940		
1940-1945	1.8	÷ d.1	NC***	NC***
Period IV	1950	1945		
1945-1950	7.8	÷ 1.8	7.333333	34%
Period V	1954	1950		
1950-1954	10.3	÷ 7.8	1.320513	7%
Period VI	1954	1940		
Variable Over-all Period	10.3	÷ d.1	NC***	NC***

*Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Delaware, December 27, 1934, as Trans-Continental & Western Air, Incorporated; present name adopted May 17, 1950.

***NC, cannot be capculated because of deficit.

d = deficit.

TABLE XIII
GROWTH RATES, 1925-1954
UNITED AIR LINES, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA**	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	.5	÷ NA**	. . .	. . .
Period III	1945	1940		
1940-1945	4.2	÷ .5	8.400000	53%
Period IV	1950	1945		
1945-1950	6.4	÷ 4.2	1.523810	9%
Period V	1954	1950		
1950-1954	9.6	÷ 6.4	1.500000	10½%
Period VI Variable Over-all Period	1954	1940		
	9.6	÷ .5	19.200000	23½%

*Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, July 20, 1934, as United Air Lines Transport Corporation; present name adopted in December, 1943.

Automobiles

TABLE XIV
GROWTH RATES, 1925-1954
GENERAL MOTORS CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 153.8	1925 ÷ 107.1	1.436041	7½%
Period II 1930-1940	1940 195.7	1930 ÷ 153.8	1.272432	2½%
Period III 1940-1945	1945 188.3	1940 ÷ 195.7	Negative	Negative
Period IV 1945-1950	1950 834.0	1945 ÷ 188.3	4.429102	34½%
Period V 1950-1954	1954 806.0	1950 ÷ 834.0	Negative	Negative
Period VI Variable Over-all Period	1954 806.0	1925 ÷ 107.1	7.525677	7%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XV
GROWTH RATES, 1925-1954
CHRYSLER CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 .3 ÷ 19.6	Negative	Negative
Period II 1930-1940	1940 1930 37.8 ÷ .3	126.000000	62%
Period III 1940-1945	1945 1940 37.5 ÷ 37.8	Negative	Negative
Period IV 1945-1950	1950 1945 127.9 ÷ 37.5	3.410667	28%
Period V 1950-1954	1954 1950 18.5 ÷ 127.9	Negative	Negative
Period VI Variable Over-all Period	1954 1925 18.5 ÷ 19.6	Negative	Negative

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Auto Accessories

TABLE XVI
GROWTH RATES, 1925-1954
BORG-WARNER CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 2.3 ÷ NA**	. . .	. . .
Period II 1930-1940	1940 1930 6.7 ÷ 2.3	2.913043	11½%
Period III 1940-1945	1945 1940 9.0 ÷ 6.7	1.343284	6%
Period IV 1945-1950	1950 1945 29.0 ÷ 9.0	3.222222	26½%
Period V 1950-1954	1954 1950 24.5 ÷ 29.0	Negative	Negative
Period VI Variable Over-all Period	1954 1930 24.5 ÷ 2.3	10.652173	10½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Illinois, May 9, 1928.

TABLE XVII
GROWTH RATES, 1925-1954
ELECTRIC AUTO-LITE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	5.0 ÷ 2.2	2.272727	18%
Period II	1940 1930		
1930-1940	6.0 ÷ 5.0	1.200000	2%
Period III	1945 1940		
1940-1945	4.5 ÷ 6.0	Negative	Negative
Period IV	1950 1945		
1945-1950	16.7 ÷ 4.5	4.711111	36½%
Period V	1954 1950		
1950-1954	.71 ÷ 16.7	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	.71 ÷ 2.2	Negative	Negative

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XVIII
GROWTH RATES, 1925-1954
THOMPSON PRODUCTS, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.1	÷ .5	Negative	Negative
Period II	1940	1930		
1930-1940	1.7	÷ .1	17.000000	33%
Period III	1945	1940		
1940-1945	1.5	÷ 1.7	Negative	Negative
Period IV	1950	1945		
1945-1950	8.3	÷ 1.5	5.533333	41%
Period V	1954	1950		
1950-1954	11.7	÷ 8.3	1.409639	9%
Period VI Variable Over-all Period	1954	1925		
	11.7	÷ .5	23.400000	11½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Banks

TABLE XIX
GROWTH RATES, 1925-1954
CHASE NATIONAL BANK OF THE CITY OF NEW YORK*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 12.2 ÷ NA**	. . .	. . .
Period II 1930-1940	1940 1930 13.6 ÷ 12.2	1.114754	1%
Period III 1940-1945	1945 1940 26.5 ÷ 13.6	1.948529	14%
Period IV 1945-1950	1950 1945 20.9 ÷ 26.5	Negative	Negative
Period V 1950-1954	1954 1950 31.2 ÷ 20.9	1.492823	10½%
Period VI Variable Over-all Period	1954 1930 31.2 ÷ 12.2	2.557377	3½%

* Sources: Moody's Bank & Finance Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the year was not made available to stockholders.

TABLE XX
GROWTH RATES, 1925-1954
BANK OF AMERICA NATIONAL TRUST
& SAVINGS ASSOCIATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 NA**	1925 NA** ÷	. . .	. . .
Period II 1930-1940	1940 29.0	1930 NA** ÷	. . .	. . .
Period III 1940-1945	1945 26.1	1940 29.0 ÷	Negative	Negative
Period IV 1945-1950	1950 51.6	1945 26.1 ÷	1.977011	14½%
Period V 1950-1954	1954 63.2	1950 51.6 ÷	1.224806	5%
Period VI Variable Over-all Period	1954 63.2	1940 29.0 ÷	2.179310	5½%

* Sources: Moody's Banking & Finance Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Organized as a consolidation effective November 3, 1930, as Bank of America of California and Bank of Italy National Trust & Savings Association under charter issued to latter in March, 1927.

TABLE XXI
GROWTH RATES, 1925-1954
THE FIRST NATIONAL BANK OF BOSTON*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA**	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	6.9	÷ NA**	. . .	. . .
Period III	1945	1940		
1940-1945	6.9	÷ 6.9	Unchanged	Unchanged
Period IV	1950	1945		
1945-1950	7.9	÷ 6.9	1.144928	2½%
Period V	1954	1950		
1950-1954	11.4	÷ 7.9	1.443038	9½%
Period VI	1954	1940		
Variable Over-all Period	11.4	÷ 6.9	1.652174	3½%

*Sources: Moody's Banking & Finance Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Net profit data for the years 1925 and 1930 were not made available to stockholders.

Beverages

TABLE XXII
GROWTH RATES, 1925-1954
THE COCA-COLA COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 13.5	1925 7.9 ÷	1.708861	11%
Period II 1930-1940	1940 28.9	1930 13.5 ÷	2.140741	8%
Period III 1940-1945	1945 25.1	1940 28.9 ÷	Negative	Negative
Period IV 1945-1950	1950 31.8	1945 25.1 ÷	1.266932	5%
Period V 1950-1954	1954 25.9	1950 31.8 ÷	Negative	Negative
Period VI Variable Over-all Period	1954 25.9	1925 7.9 ÷	3.278781	4%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXIII
GROWTH RATES, 1925-1954
ANHEUSER-BUSCH, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	d.5	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	6.4	÷ d.5	NC***	NC***
Period III	1945	1940		
1940-1945	5.6	÷ 6.4	Negative	Negative
Period IV	1950	1945		
1945-1950	13.2	÷ 5.6	2.357143	18½%
Period V	1954	1950		
1950-1954	12.8	÷ 13.2	Negative	Negative
Period VI	1954	1930		
Variable Over-all Period	12.8	÷ d.5	NC***	NC***

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the year were not made available to stockholders.

*** NC, cannot be calculated.

d = deficit.

TABLE XXIV
GROWTH RATES, 1925-1954
HIRAM WALKER-GOODERHAM & WORTS LIMITED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 2.4 ¹	1925 NA**	. . .	. . .
Period II 1930-1940	1940 6.1	1930 2.4	2.541667	10%
Period III 1940-1945	1945 9.4	1940 6.1	1.540984	9%
Period IV 1945-1950	1950 27.9	1945 9.4	2.968085	24½%
Period V 1950-1954	1954 20.3	1950 27.9	Negative	Negative
Period VI Variable Over-all Period	1954 20.3	1930 2.4	8.458333	9½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated on December 31, 1926 as Hiram Walker Limited. Hiram Walker & Sons Limited before December 31, 1926. Present name adopted November 19, 1927. Net profit data for 1925 were not made available to stockholders.

*** For year ending August 31.

Building Supplies

TABLE XXV
GROWTH RATES, 1925-1954
JOHNS-MANVILLE CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	3.3 ÷ 2.4	1.375000	6½%
Period II	1940 1930		
1930-1940	5.9 ÷ 3.3	1.787879	6%
Period III	1945 1940		
1940-1945	5.1 ÷ 5.9	Negative	Negative
Period IV	1950 1945		
1945-1950	22.8 ÷ 5.1	4.470588	35%
Period V	1954 1950		
1950-1954	16.7 ÷ 22.8	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	16.7 ÷ 2.4	6.958333	7%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXVI
GROWTH RATES, 1925-1954
IDEAL CEMENT COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1.8	1925 ÷ .1	18.000000	78%
Period II 1930-1940	1940 2.5	1930 ÷ 1.8	1.388889	3½%
Period III 1940-1945	1945 1.5	1940 ÷ 2.5	Negative	Negative
Period IV 1945-1950	1950 7.3	1945 ÷ 1.5	4.866667	37½%
Period V 1950-1954	1954 11.1	1950 ÷ 7.3	1.520548	10½%
Period VI Variable Over-all Period	1954 11.1	1925 ÷ .1	111.000000	17½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXVII
GROWTH RATES, 1925-1954
AMERICAN RADIATOR & STANDARD SANITARY CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	6.6	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	7.3	÷ 6.6	1.106061	1%
Period III	1945	1940		
1940-1945	5.7	÷ 7.3	Negative	Negative
Period IV	1950	1945		
1945-1950	28.5	÷ 5.7	5.000000	38%
Period V	1954	1950		
1950-1954	20.4	÷ 28.5	Negative	Negative
Period VI	1954	1930		
Variable Over-all Period	20.4	÷ 6.6	3.090909	4½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, March 26, 1929.

TABLE XXVIII
GROWTH RATES, 1925-1954
UNITED STATES GYPSUM, CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	2.4	÷ 4.0	Negative	Negative
Period II	1940	1930		
1930-1940	7.1	÷ 2.4	2.958333	11½%
Period III	1945	1940		
1940-1945	4.4	÷ 7.1	Negative	Negative
Period IV	1950	1945		
1945-1950	27.3	÷ 4.4	6.204545	44%
Period V	1954	1950		
1950-1954	32.4	÷ 27.3	1.186813	4½%
Period VI	1954	1925		
Variable Over-all Period	32.4	÷ 4.0	8.100000	7½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1955.

TABLE XXIX
GROWTH RATES, 1925-1954
WEYERHAEUSER TIMBER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	8.2 ÷ NA**	. . .	. . .
Period III	1945 1940		
1940-1945	8.6 ÷ 8.2	1.048780	1%
Period IV	1950 1945		
1945-1950	32.9 ÷ 8.6	3.825581	31%
Period V	1954 1950		
1950-1954	35.5 ÷ 32.9	1.079027	2%
Period VI	1954 1940		
Variable Over-all Period	35.5 ÷ 8.2	4.329268	11%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the years 1925 and 1930 were not made available to stockholders.

TABLE XXX
GROWTH RATES, 1925-1954
UNITED STATES PLYWOOD CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA** ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	.5 ÷	NA**	. . .	. . .
Period III	1945	1940		
1940-1945	1.5 ÷	.5	3.000000	24½%
Period IV	1950	1945		
1945-1950	9.0 ÷	1.5	6.000000	43%
Period V	1954	1950		
1950-1954	7.5 ÷	9.0	Negative	Negative
Period VI	1954	1940		
Variable Over-all Period	7.5 ÷	.5	15.000000	21½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in New York, March 6, 1937.

TABLE XXXI
GROWTH RATES, 1925-1954
CRANE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 2.7 ÷ 8.3	Negative	Negative
Period II 1930-1940	1940 1930 5.1 ÷ 2.7	1.888889	6½%
Period III 1940-1945	1945 1940 5.3 ÷ 5.1	1.039216	1%
Period IV 1945-1950	1950 1945 15.8 ÷ 5.3	2.981132	24½%
Period V 1950-1954	1954 1950 5.8 ÷ 15.8	Negative	Negative
Period VI Variable Over-all Period	1954 1925 5.8 ÷ 8.3	Negative	Negative

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Chemicals

TABLE XXXII
GROWTH RATES, 1925-1954
E. I. DU PONT DE NEMOURS & COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 56.0	1925 24.0 ÷	2.333333	18½%
Period II 1930-1940	1940 86.9	1930 56.0 ÷	1.551786	4½%
Period III 1940-1945	1945 77.5	1940 86.9 ÷	Negative	Negative
Period IV 1945-1950	1950 307.6	1945 77.5 ÷	3.969032	32%
Period V 1950-1954	1954 344.4	1950 307.6 ÷	1.119636	2½%
Period VI Variable Over-all Period	1954 344.4	1925 24.0 ÷	14.350000	9½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXXIII
GROWTH RATES, 1925-1954
ALLIED CHEMICAL & DYE CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	25.1 ÷ 20.6	1.218447	4%
Period II	1940 1930		
1930-1940	20.9 ÷ 25.1	Negative	Negative
Period III	1945 1940		
1940-1945	18.9 ÷ 20.9	Negative	Negative
Period IV	1950 1945		
1945-1950	41.2 ÷ 18.9	2.179894	17%
Period V	1954 1950		
1950-1954	43.1 ÷ 41.2	1.046117	1%
Period VI	1954 1925		
Variable Over-all Period	43.1 ÷ 20.6	2.092233	2½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXXIV
GROWTH RATES, 1925-1954
AMERICAN CYANAMID COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	3.7 ÷ 1.1	3.363636	27½%
Period II	1940 1930		
1930-1940	6.6 ÷ 3.7	1.783784	6%
Period III	1945 1940		
1940-1945	6.2 ÷ 6.6	Negative	Negative
Period IV	1950 1945		
1945-1950	33.7 ÷ 6.2	5.435484	40½%
Period V	1954 1950		
1950-1954	27.1 ÷ 33.7	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	27.1 ÷ 1.1	24.636364	11½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXXV
GROWTH RATES, 1925-1954
UNION CARBIDE & CARBON CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	28.0	÷ 20.0	1.400000	7%
Period II	1940	1930		
1930-1940	42.2	÷ 28.0	1.507143	4%
Period III	1945	1940		
1940-1945	38.0	÷ 42.2	Negative	Negative
Period IV	1950	1945		
1945-1950	124.1	÷ 38.0	3.265789	26½%
Period V	1954	1950		
1950-1954	89.8	÷ 124.1	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	89.8	÷ 20.0	4.490000	5½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXXVI
GROWTH RATES, 1925-1954
DOW CHEMICAL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	2.8 ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	7.2 ÷ 2.8	2.571429	10%
Period III	1945 1940		
1940-1945	8.7 ÷ 7.2	1.208333	4%
Period IV	1950 1945		
1945-1950	40.5 ÷ 8.7	4.655172	36%
Period V	1954 1950		
1950-1954	37.4 ÷ 40.5	Negative	Negative
Period VI	1954 1930		
Variable Over-all Period	37.4 ÷ 2.8	13.357143	11½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit for the year 1925 was not made available to stockholders.

TABLE XXXVII
GROWTH RATES, 1925-1954
MONSANTO CHEMICAL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 *.8 ÷ *.4	2.000000	14½%
Period II 1930-1940	1940 1930 5.7 ÷ .8	7.125000	22%
Period III 1940-1945	1945 1940 5.3 ÷ 5.7	Negative	Negative
Period IV 1945-1950	1950 1945 26.2 ÷ 5.3	4.943396	37½%
Period V 1950-1954	1954 1950 23.7 ÷ 26.2	Negative	Negative
Period VI Variable Over-all Period	1954 1925 23.7 ÷ .4	59.250000	15%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XXXVIII
GROWTH RATES, 1925-1954
SPENCER CHEMICAL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	NA** ÷ NA**	. . .	. . .
Period III	1945 1940		
1940-1945	NA** ÷ NA**	. . .	. . .
Period IV	1950 1945		
1945-1950	NA** ÷ NA**	. . .	. . .
Period V	1954 1950		
1950-1954	5.3 ÷ 4.5	1.177778	4%
Period VI	1954 1950		
Variable Over-all Period	5.3 ÷ 4.5	1.177778	4%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated under Missouri laws on August 26, 1941, as Military Chemical Works, Inc.; present name adopted June 3, 1946. Military Chemical Works, Inc. net profit data for the year 1945 were not made available to stockholders.

Containers

TABLE XXXIX
GROWTH RATES, 1925-1954
AMERICAN CAN COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 22.9 ÷ 16.4	1.396341	7%
Period II 1930-1940	1940 1930 17.4 ÷ 22.9	Negative	Negative
Period III 1940-1945	1945 1940 13.3 ÷ 17.4	Negative	Negative
Period IV 1945-1950	1950 1945 34.3 ÷ 13.3	2.578947	21½%
Period V 1950-1954	1954 1950 30.5 ÷ 34.3	Negative	Negative
Period VI Variable Over-all Period	1954 1925 30.5 ÷ 16.4	1.859756	2%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XL
GROWTH RATES, 1925-1954
LILY-TULIP CUP CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 .6	1925 NA**	. . .	. . .
Period II 1930-1940	1940 .6	1930 .6	Unchanged	Unchanged
Period III 1940-1945	1945 .7	1940 .6	1.166667	3%
Period IV 1945-1950	1950 3.5	1945 .7	5.000000	38%
Period V 1950-1954	1954 4.7	1950 3.5	1.342857	7½%
Period VI Variable Over-all Period	1954 4.7	1930 .6	7.833333	9%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, February 4, 1929.

TABLE XLI
GROWTH RATES, 1925-1954
DIXIE CUP COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA ^{**} ÷ NA^{**}	. . .	. . .
Period II	1940 1930		
1930-1940	.8 ÷ NA^{**}	. . .	. . .
Period III	1945 1940		
1940-1945	1.0 ÷ .8	1.250000	4½%
Period IV	1950 1945		
1945-1950	2.9 ÷ 1.0	2.900000	23½%
Period V	1954 1950		
1950-1954	3.5 ÷ 2.9	1.206897	5%
Period VI	1954 1940		
Variable Over-all Period	3.5 ÷ .8	4.375000	11%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated originally in Delaware, August 3, 1929, as the Vortex Manufacturing Company. Present title adopted April 17, 1943. Net profit data for 1925 and 1930 were not made available to stockholders.

Dairy Products

TABLE XLII
GROWTH RATES, 1925-1954
PET MILK COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 .8 ÷ 1.1	Negative	Negative
Period II 1930-1940	1940 1930 1.2 ÷ .8	1.500000	4%
Period III 1940-1945	1945 1940 1.4 ÷ 1.2	1.166667	3%
Period IV 1945-1950	1950 1945 3.5 ÷ 1.4	2.500000	20%
Period V 1950-1954	1954 1950 2.6 ÷ 3.5	Negative	Negative
Period VI Variable Over-all Period	1954 1925 2.6 ÷ 1.1	2.363636	3%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XLIII
GROWTH RATES, 1925-1954
NATIONAL DAIRY PRODUCTS CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	26.3	÷ 5.3	4.962264	38%
Period II	1940	1930		
1930-1940	11.1	÷ 26.3	Negative	Negative
Period III	1945	1940		
1940-1945	14.2	÷ 11.1	1.279279	5%
Period IV	1950	1945		
1945-1950	32.7	÷ 14.2	2.302817	18%
Period V	1954	1950		
1950-1954	37.4	÷ 32.7	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	37.4	÷ 5.3	7.056604	7%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XLIV
GROWTH RATES, 1925-1954
THE BORDEN COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 21.7 ÷ 6.3	3.444444	28½%
Period II 1930-1940	1940 1930 7.6 ÷ 21.7	Negative	Negative
Period III 1940-1945	1945 1940 12.1 ÷ 7.6	1.592105	9½%
Period IV 1945-1950	1950 1945 20.2 ÷ 12.1	1.669421	11%
Period V 1950-1954	1954 1950 22.7 ÷ 20.2	1.123762	3%
Period VI Variable Over-all Period	1954 1925 22.7 ÷ 6.3	3.603175	4½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Drugs

TABLE XLV
GROWTH RATES, 1925-1954
AMERICAN HOME PRODUCTS CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	3.4	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	4.3	÷ 3.4	1.264706	2½%
Period III	1945	1940		
1940-1945	5.8	÷ 4.3	1.348837	6%
Period IV	1950	1945		
1945-1950	11.8	÷ 5.8	2.034483	15½%
Period V	1954	1950		
1950-1954	16.2	÷ 11.8	1.372881	8%
Period VI	1954	1930		
Variable Over-all Period	16.2	÷ 3.4	4.764706	6½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Delaware, February 4, 1926.

TABLE XLVI
GROWTH RATES, 1925-1954
ABBOTT LABORATORIES*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.4	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	2.2	÷ .4	5.500000	18½%
Period III	1945	1940		
1940-1945	3.5	÷ 2.2	1.590909	9½%
Period IV	1950	1945		
1945-1950	10.9	÷ 3.5	3.114286	25½%
Period V	1954	1950		
1950-1954	8.7	÷ 10.9	Negative	Negative
Period VI	1954	1930		
Variable Over-all Period	8.7	÷ .4	21.750000	13½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Net profit data for the year 1925 were not made available to stockholders.

TABLE XLVII
GROWTH RATES, 1925-1954
CHAS. PFIZER & COMPANY, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA** ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	1.1 ÷	NA**	. . .	. . .
Period III	1945	1940		
1940-1945	1.9 ÷	1.1	1.727273	11½%
Period IV	1950	1945		
1945-1950	9.9 ÷	1.9	5.2110526	39%
Period V	1954	1950		
1950-1954	15.2 ÷	9.9	1.535354	11½%
Period VI	1954	1940		
Variable Over-all Period	15.2 ÷	1.1	13.818182	20½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the years 1925 and 1930 were not made available to stockholders.

TABLE XLVIII
GROWTH RATES, 1925-1954
PARKE, DAVIS & COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	7.5 ÷ 6.6	1.136364	2½%
Period II	1940 1930		
1930-1940	8.2 ÷ 7.5	1.099333	1%
Period III	1945 1940		
1940-1945	7.8 ÷ 8.2	Negative	Negative
Period IV	1950 1945		
1945-1950	17.9 ÷ 7.8	2.294872	18%
Period V	1954 1950		
1950-1954	10.5 ÷ 17.9	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	10.5 ÷ 6.6	1.590909	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XLIX
GROWTH RATES, 1925-1954
MERCK & COMPANY, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.4 ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	2.5 ÷	.4	6.250000	20%
Period III	1945	1940		
1940-1945	2.4 ÷	2.5	Negative	Negative
Period IV	1950	1945		
1945-1950	11.3 ÷	2.4	4.708333	36½%
Period V	1954	1950		
1950-1954	12.6 ÷	11.3	1.115044	3%
Period VI	1954	1930		
Variable Over-all Period	12.6 ÷	.4	31.500000	15½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the year 1925 were not made available to stockholders.

Electrical Equipment

TABLE L
GROWTH RATES, 1925-1954
GENERAL ELECTRIC COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	60.2 ÷ 41.2	1.461165	8%
Period II	1940 1930		
1930-1940	56.5 ÷ 60.2	Negative	Negative
Period III	1945 1940		
1940-1945	56.5 ÷ 56.5	Unchanged	Unchanged
Period IV	1950 1945		
1945-1950	173.4 ÷ 56.5	3.069027	25%
Period V	1954 1950		
1950-1954	212.6 ÷ 173.4	1.226067	5%
Period VI	1954 1925		
Variable Over-all Period	212.6 ÷ 41.2	5.160194	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LI
GROWTH RATES, 1925-1954
WESTINGHOUSE ELECTRIC CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	11.9	÷ 14.1	Negative	Negative
Period II	1940	1930		
1930-1940	19.0	÷ 11.9	1.596639	5%
Period III	1945	1940		
1940-1945	26.7	÷ 19.0	1.405263	7%
Period IV	1950	1945		
1945-1950	77.9	÷ 26.7	2.917603	24%
Period V	1954	1950		
1950-1954	79.9	÷ 77.9	1.025674	½%
Period VI	1954	1925		
Variable Over-all Period	79.9	÷ 14.1	5.666667	6%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LII
GROWTH RATES, 1925-1954
WESTERN ELECTRIC COMPANY, INCORPORATED* **

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	15.6 ÷ 14.3	1.090909	1½%
Period II	1940 1930		
1930-1940	32.8 ÷ 15.6	2.102564	7½%
Period III	1945 1940		
1940-1945	15.1 ÷ 32.8	Negative	Negative
Period IV	1950 1945		
1945-1950	38.6 ÷ 15.1	2.556291	20½%
Period V	1954 1950		
1950-1954	55.8 ÷ 38.6	1.445596	9½%
Period VI	1954 1925		
Variable Over-all Period	55.8 ÷ 14.3	3.902098	5%

* Sources: Moody's Public Utilities Manual, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** American Telephone & Telegraph Company is the parent company in that it owns 99.81 % of outstanding stock.

TABLE LIII
GROWTH RATES, 1925-1954
CUTLER-HAMMER, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1.2	1925 NA**	. . .	. . .
Period II 1930-1940	1940 1.3	1930 1.2	1.083333	1%
Period III 1940-1945	1945 1.3	1940 1.3	Unchanged	Unchanged
Period IV 1945-1950	1950 4.0	1945 1.3	3.076923	25%
Period V 1950-1954	1954 4.1	1950 4.0	1.025000	½%
Period VI Variable Over-all Period	1954 4.1	1930 1.2	3.416667	5%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, December 7, 1928, succeeding Cutler-Hammer Manufacturing Company which was formed in 1892. Net profit data of the later company were not made available to stockholders.

TABLE LIV
GROWTH RATES, 1925-1954
MCGRAW ELECTRIC COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.4	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	1.5	÷ .4	3.750000	14%
Period III	1945	1940		
1940-1945	.8	÷ 1.5	Negative	Negative
Period IV	1950	1945		
1945-1950	7.8	÷ .8	9.750000	57½%
Period V	1954	1950		
1950-1954	9.4	÷ 7.8	1.205128	5%
Period VI	1954	1930		
Variable Over-all Period	9.4	÷ .4	23.500000	14%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, November 17, 1926.

TABLE LV
GROWTH RATES, 1925-1954
OTIS ELEVATOR COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 7.3	1925 4.8 ÷	1.520833	8½%
Period II 1930-1940	1940 2.8	1930 7.3 ÷	Negative	Negative
Period III 1940-1945	1945 2.7	1940 2.8 ÷	Negative	Negative
Period IV 1945-1950	1950 10.6	1945 2.7 ÷	3.925926	31.½%
Period V 1950-1954	1954 9.6	1950 10.6 ÷	Negative	Negative
Period VI Variable Over-all Period	1954 9.6	1925 4.8 ÷	2.000000	2½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LVI
GROWTH RATES, 1925-1954
MINNEAPOLIS-HONEYWELL REGULATOR COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	1.0	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	2.5	÷ 1.0	2.500000	9½%
Period III	1945	1940		
1940-1945	3.4	÷ 2.5	1.360000	6½%
Period IV	1950	1945		
1945-1950	12.5	÷ 3.4	3.676471	29½%
Period V	1954	1950		
1950-1954	15.4	÷ 12.5	1.232000	5½%
Period VI	1954	1930		
Variable Over-all Period	15.4	÷ 1.0	15.400000	12%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, October 27, 1927.

Foods

TABLE LVII
GROWTH RATES, 1925-1954
SWIFT & COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 12.5	1925 15.4 ÷	Negative	Negative
Period II 1930-1940	1940 11.2	1930 12.5 ÷	Negative	Negative
Period III 1940-1945	1945 12.3	1940 11.2 ÷	1.098214	2%
Period IV 1945-1950	1950 16.1	1945 12.3 ÷	1.308943	5½%
Period V 1950-1954	1954 19.1	1950 16.1 ÷	1.186335	4½%
Period VI Variable Over-all Period	1954 19.1	1925 15.4 ÷	1.240260	½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LVIII
GROWTH RATES, 1925-1955
GENERAL MILLS, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	19.1 ÷ 4.7	4.063830	32½%
Period II	1940 1930		
1930-1940	5.6 ÷ 19.1	Negative	Negative
Period III	1945 1940		
1940-1945	6.5 ÷ 5.6	1.160714	3%
Period IV	1950 1945		
1945-1950	11.5 ÷ 6.5	1.769231	12%
Period V	1954 1950		
1950-1954	12.4 ÷ 11.5	1.078261	2%
Period VI	1954 1925		
Variable Over-all Period	12.4 ÷ 4.7	2.638298	3½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LIX
GROWTH RATES, 1925-1954
CORN PRODUCTS REFINING COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	14.1 ÷ 7.6	1.855263	13%
Period II	1940 1930		
1930-1940	9.6 ÷ 14.1	Negative	Negative
Period III	1945 1940		
1940-1945	8.6 ÷ 9.6	Negative	Negative
Period IV	1950 1945		
1945-1950	23.0 ÷ 8.6	2.674419	22%
Period V	1954 1950		
1950-1954	15.8 ÷ 23.0	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	15.8 ÷ 7.6	2.078947	2½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LX
GROWTH RATES, 1925-1954
CONTINENTAL BAKING COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	6.1 ÷ 10.2	Negative	Negative
Period II	1940 1930		
1930-1940	3.5 ÷ 6.1	Negative	Negative
Period III	1945 1940		
1940-1945	2.7 ÷ 3.5	Negative	Negative
Period IV	1950 1945		
1945-1950	5.7 ÷ 2.7	2.111111	15%
Period V	1954 1950		
1950-1954	5.7 ÷ 5.7	Unchanged	Unchanged
Period VI	1954 1925		
Variable Over-all Period	5.7 ÷ 10.2	Negative	Negative

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXI
GROWTH RATES, 1925-1954
PILLSBURY MILLS INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	2.2	÷ 1.2	1.833333	13%
Period II	1940	1930		
1930-1940	.9	÷ 2.2	Negative	Negative
Period III	1945	1940		
1940-1945	1.6	÷ .9	1.777778	12%
Period IV	1950	1945		
1945-1950	2.8	÷ 1.6	1.750000	12%
Period V	1954	1950		
1950-1954	5.3	÷ 2.8	1.892857	17½%
Period VI	1954	1925		
Variable Over-all Period	5.3	÷ 1.2	4.416667	5%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXII
GROWTH RATES, 1925-1954
H. J. HEINZ COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925	
1925-1930	NA** ÷ NA**	• • •	• • •
Period II	1940	1930	
1930-1940	1.1 ÷ NA**	• • •	• • •
Period III	1945	1940	
1940-1945	1.1 ÷ 1.1	Unchanged	Unchanged
Period IV	1950	1945	
1945-1950	7.4 ÷ 1.1	6.727273	46½%
Period V	1954	1950	
1950-1954	8.8 ÷ 7.4	1.189189	4½%
Period VI	1954	1940	
Variable Over-all Period	8.8 ÷ 1.1	8.000000	16%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the years 1925 and 1930 were not made available to stockholders.

TABLE LXIII
GROWTH RATES, 1925-1954
HERSHEY CHOCOLATE CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	7.5 ÷ 4.5	1.666667	11%
Period II	1940 1930		
1930-1940	5.9 ÷ 7.5	Negative	Negative
Period III	1945 1940		
1940-1945	4.9 ÷ 5.9	Negative	Negative
Period IV	1950 1945		
1945-1950	13.6 ÷ 4.9	2.775510	22½%
Period V	1954 1950		
1950-1954	7.1 ÷ 13.6	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	7.1 ÷ 4.5	1.577778	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXIV
GROWTH RATES, 1925-1954
GENERAL FOODS CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	19.1 ÷ 4.7	4.063830	32½%
Period II	1940 1930		
1930-1940	15.2 ÷ 19.1	Negative	Negative
Period III	1945 1940		
1940-1945	13.1 ÷ 15.2	Negative	Negative
Period IV	1950 1945		
1945-1950	26.5 ÷ 13.1	2.022901	15%
Period V	1954 1950		
1950-1954	31.7 ÷ 26.5	1.196226	3½%
Period VI	1954 1925		
Variable Over-all Period	31.7 ÷ 4.7	6.744681	7½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXV
GROWTH RATES, 1925-1954
NATIONAL BISCUIT COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 22.9 ÷ 13.6	1.683824	11%
Period II 1930-1940	1940 1930 10.7 ÷ 22.9	Negative	Negative
Period III 1940-1945	1945 1940 10.5 ÷ 10.7	Negative	Negative
Period IV 1945-1950	1950 1945 21.1 ÷ 10.5	2.009524	15%
Period V 1950-1954	1954 1950 19.9 ÷ 21.1	Negative	Negative
Period VI Variable Over-all Period	1954 1925 19.9 ÷ 13.6	1.463235	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXVI
GROWTH RATES, 1925-1954
CALIFORNIA PACKING CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	6.0	÷ 6.2	Negative	Negative
Period II	1940	1930		
1930-1940	3.0	÷ 6.0	Negative	Negative
Period III	1945	1940		
1940-1945	3.0	÷ 3.0	Unchanged	Unchanged
Period IV	1950	1945		
1945-1950	16.2	÷ 3.0	5.400000	40%
Period V	1954	1950		
1950-1954	8.9	÷ 16.2	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	8.9	÷ 6.2	1.435484	1%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Food Chains

TABLE LXVII
GROWTH RATES, 1925-1954
SAFEWAY STORES INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	3.7	.6	6.166667	44%
Period II	1940	1930		
1930-1940	4.8	3.7	1.297297	2½%
Period III	1945	1940		
1940-1945	5.1	4.8	1.062500	1%
Period IV	1950	1945		
1945-1950	14.7	5.1	2.882353	23½%
Period V	1954	1950		
1950-1954	14.0	14.7	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	14.0	.6	2.333333	3%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXVIII
GROWTH RATES, 1925-1954
THE KROGER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	2.2 ÷ 3.3	Negative	Negative
Period II	1940 1930		
1930-1940	4.6 ÷ 2.2	2.090909	7½%
Period III	1945 1940		
1940-1945	5.6 ÷ 4.6	1.217391	4%
Period IV	1950 1945		
1945-1950	13.1 ÷ 5.6	2.339286	18½%
Period V	1954 1950		
1950-1954	14.9 ÷ 13.1	1.137404	3%
Period VI	1954 1925		
Variable Over-all Period	14.9 ÷ 3.3	4.515152	5½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Glass and Fiberglas

TABLE LXIX
GROWTH RATES, 1925-1954
PITTSBURGH PLATE GLASS COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 4.7 ÷ 12.1	Negative	Negative
Period II 1930-1940	1940 1930 13.8 ÷ 4.7	2.936170	11½%
Period III 1940-1945	1945 1940 13.5 ÷ 13.8	Negative	Negative
Period IV 1945-1950	1950 1945 41.9 ÷ 13.5	3.103704	25½%
Period V 1950-1954	1954 1950 38.6 ÷ 41.9	Negative	Negative
Period VI Variable Over-all Period	1954 1925 38.6 ÷ 12.1	3.190083	4%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXX
GROWTH RATES, 1925-1954
LIBBEY-OWENS-FORD GLASS COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1.4	1925 2.8 ÷	Negative	Negative
Period II 1930-1940	1940 10.0	1930 1.4 ÷	7.142857	21½%
Period III 1940-1945	1945 3.2	1940 10.0 ÷	Negative	Negative
Period IV 1945-1950	1950 24.8	1945 3.2 ÷	7.750000	50½%
Period V 1950-1954	1954 24.0	1950 24.8 ÷	Negative	Negative
Period VI Variable Over-all Period	1954 24.0	1925 2.8 ÷	8.571429	7½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXXI
GROWTH RATES, 1925-1954
OWENS-ILLINOIS GLASS COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	2.7 ÷ 5.1	Negative	Negative
Period II	1940 1930		
1930-1940	7.2 ÷ 2.7	2.666667	10½%
Period III	1945 1940		
1940-1945	8.8 ÷ 7.2	1.222222	4%
Period IV	1950 1945		
1945-1950	24.3 ÷ 8.8	2.7613636	22½%
Period V	1954 1950		
1950-1954	21.5 ÷ 24.3	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	21.5 ÷ 5.1	4.215686	5%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXXII
GROWTH RATES, 1925-1954
OWENS-CORNING FIBERGLAS CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925	
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940	1930	
1930-1940	.5 ÷ NA**	. . .	. . .
Period III	1945	1940	
1940-1945	1.5 ÷ .5	3.000000	24½%
Period IV	1950	1945	
1945-1950	7.9 ÷ 1.5	5.266667	39½%
Period V	1954	1950	
1950-1954	8.4 ÷ 7.9	1.063291	1½%
Period VI	1954	1940	
Variable Over-all Period	8.4 ÷ .5	16.800000	22½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated under Delaware laws, October 31, 1938, by Owens-Illinois Glass Company and Corning Glass Works to continue development of fibrous glass materials.

Insurance and Finance

TABLE LXXIII
GROWTH RATES, 1925-1954
FIDELITY-PHENIX FIRE INSURANCE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 d10.0	1925 NA**	. . .	. . .
Period II 1930-1940	1940 1.1	1930 d10.0	NC***	NC***
Period III 1940-1945	1945 25.4	1940 1.1	23.090909	87½%
Period IV 1945-1950	1950 7.8	1945 25.4	Negative	Negative
Period V 1950-1954	1954 8.9	1950 7.8	1.141026	3½%
Period VI Variable Over-all Period	1954 8.9	1930 d10.0	NC***	NC***

* Sources: Moody's Bank & Finance Manual, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the year 1925 were not made available to stockholders.

*** NC, cannot be calculated because of deficit.

d = deficit.

TABLE LXXIV
GROWTH RATES, 1925-1954
TRAVELERS INSURANCE COMPANY* **

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	39.0	÷ NA***	. . .	. . .
Period II	1940	1930		
1930-1940	12.0	÷ 39.0	Negative	Negative
Period III	1945	1940		
1940-1945	17.5	÷ 12.0	1.458333	8%
Period IV	1950	1945		
1945-1950	29.4	÷ 17.5	1.680000	11%
Period V	1954	1950		
1950-1954	52.1	÷ 29.4	1.772109	15½%
Period VI Variable Over-all Period	1954	1930		
	52.1	÷ 39.0	1.335897	1½%

* Sources: Moody's Bank & Finance Manuals, 1929-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Includes both Life and Accident Departments.

*** NA, not available. Net profit data for the year 1925 were not made available to stockholders.

TABLE LXXV
GROWTH RATES, 1925-1954
ASSOCIATES INVESTMENT COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	1.0	÷ .5**	2.000000	15%
Period II	1940	1930		
1930-1940	3.0	÷ 1.1	2.727273	10½%
Period III	1945	1940		
1940-1945	1.8	÷ 3.0	Negative	Negative
Period IV	1950	1945		
1945-1950	10.9	÷ 1.8	6.055556	43½%
Period V	1954	1950		
1950-1954	15.7	÷ 10.9	1.440367	9½%
Period VI	1954	1925		
Variable Over-all Period	15.7	÷ .5**	31.400000	12½%

* Sources: Moody's Banking & Finance Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Estimated.

TABLE LXXVI
GROWTH RATES, 1925-1954
LINCOLN NATIONAL LIFE INSURANCE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	6.6 ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	13.1 ÷ 6.6	1.984848	7%
Period III	1945 1940		
1940-1945	3.6 ÷ 13.1	Negative	Negative
Period IV	1950 1945		
1945-1950	5.0 ÷ 3.6	1.388889	7%
Period V	1954 1950		
1950-1954	2.2 ÷ 5.0	Negative	Negative
Period VI	1954 1930		
Variable Over-all Period	2.2 ÷ 6.6	Negative	Negative

* Sources: Moody's Banking & Finance Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the year 1925 were not made available to stockholders.

TABLE LXXVII
GROWTH RATES, 1925-1954
C. I. T. FINANCIAL CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	8.3 ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	14.4 ÷ 8.3	1.698795	5½%
Period III	1945 1940		
1940-1945	5.5 ÷ 14.4	Negative	Negative
Period IV	1950 1945		
1945-1950	30.8 ÷ 5.5	5.600000	43½%
Period V	1954 1950		
1950-1954	40.6 ÷ 30.8	1.318182	7%
Period VI	1954 1930		
Variable Over-all Period	40.6 ÷ 8.3	4.891566	7%

* Sources: Moody's Banking & Finance Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the year 1925 were not made available to stockholders.

Machinery

TABLE LXXVIII
GROWTH RATES, 1925-1954
CATERPILLAR TRACTOR COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 8.7 ÷ 4.5	1.933333	14%
Period II 1930-1940	1940 1930 7.8 ÷ 8.7	Negative	Negative
Period III 1940-1945	1945 1940 6.5 ÷ 7.8	Negative	Negative
Period IV 1945-1950	1950 1945 29.3 ÷ 6.5	4.507692	35%
Period V 1950-1954	1954 1950 25.1 ÷ 29.3	Negative	Negative
Period VI Variable Over-all Period	1954 1925 25.1 ÷ 4.5	5.577778	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXXIX
GROWTH RATES, 1925-1954
CINCINNATI MILLING MACHINE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA**	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	2.2	÷ NA**	. . .	. . .
Period III	1945	1940		
1940-1945	2.2	÷ 4.7	Negative	Negative
Period IV	1950	1945		
1945-1950	2.5	÷ 2.2	1.136364	2½%
Period V	1954	1950		
1950-1954	9.3	÷ 2.5	3.720000	39%
Period VI	1954	1940		
Variable Over-all Period	9.3	÷ 4.7	1.978723	5%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the years 1925 and 1930 were not made available to stockholders.

TABLE LXXX
GROWTH RATES, 1925-1954
INGERSOLL-RAND COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 4.9	1925 6.1 ÷	Negative	Negative
Period II 1930-1940	1940 7.0	1930 4.9 ÷	1.428571	3½%
Period III 1940-1945	1945 6.2	1940 7.0 ÷	Negative	Negative
Period IV 1945-1950	1950 18.7	1945 6.2 ÷	3.016129	24½%
Period V 1950-1954	1954 23.0	1950 18.7 ÷	1.229947	5½%
Period VI Variable Over-all Period	1954 23.0	1925 6.1 ÷	3.770492	4½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXXXI
GROWTH RATES, 1925-1954
OUTBOARD, MARINE & MANUFACTURING COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 NA**	1925 NA** ÷	. . .	. . .
Period II 1930-1940	1940 1.1	1930 NA** ÷	. . .	. . .
Period III 1940-1945	1945 1.2	1940 1.1 ÷	1.090909	2%
Period IV 1945-1950	1950 3.0	1945 1.2 ÷	2.500000	20%
Period V 1950-1954	1954 5.5	1950 3.0 ÷	1.833333	16½%
Period VI Variable Over-all Period	1954 5.5	1940 1.1 ÷	5.000000	12%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, September 30, 1936.

TABLE LXXXII
GROWTH RATES, 1925-1954
EX-CELL-O CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 .2d ÷	1925 NA**	. . .	. . .
Period II 1930-1940	1940 2.0 ÷	1930 .2d	NC***	NC***
Period III 1940-1945	1945 1.9 ÷	1940 2.0	Negative	Negative
Period IV 1945-1950	1950 3.6 ÷	1945 1.9	1.894737	13½%
Period V 1950-1954	1954 8.8 ÷	1950 3.6	2.444444	25%
Period VI Variable Over-all Period	1954 8.8 ÷	1930 .2d	NC***	NC***

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data for the year 1925 were not made available to stockholders.

*** NC, cannot be calculated because of deficit.

d = deficit.

TABLE LXXXIII
GROWTH RATES, 1925-1954
BRIGGS & STRATTON CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.8	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	1.0	÷ .8	1.250000	2½%
Period III	1945	1940		
1940-1945	.9	÷ 1.0	Negative	Negative
Period IV	1950	1945		
1945-1950	2.7	÷ .9	3.000000	24½%
Period V	1954	1950		
1950-1954	5.0	÷ 2.7	1.851852	16½%
Period VI	1954	1930		
Variable Over-all Period	5.0	÷ .8	6.250000	8%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, June 30, 1924, succeeding to the business of Briggs & Stratton Company, a Wisconsin company incorporated in 1910. Net profit data of the Briggs & Stratton Company for 1925 were not made available to stockholders.

Merchandising

TABLE LXXXIV
GROWTH RATES, 1925-1954
SEARS, ROEBUCK & COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 14.3 ÷ 21.0	Negative	Negative
Period II 1930-1940	1940 1930 37.3 ÷ 14.3	2.608392	10%
Period III 1940-1945	1945 1940 34.2 ÷ 37.3	Negative	Negative
Period IV 1945-1950	1950 1945 143.7 ÷ 34.2	4.201754	33½%
Period V 1950-1954	1954 1950 141.3 ÷ 143.7	Negative	Negative
Period VI Variable Over-all Period	1954 1925 141.3 ÷ 21.0	6.728571	7%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXXXV
GROWTH RATES, 1925-1954
J. C. PENNEY COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	8.3	÷ 7.5	1.106667	2%
Period II	1940	1930		
1930-1940	16.2	÷ 8.3	1.951807	7%
Period III	1945	1940		
1940-1945	17.4	÷ 16.2	1.074074	1½%
Period IV	1950	1945		
1945-1950	44.9	÷ 17.4	2.580460	21%
Period V	1954	1950		
1950-1954	43.6	÷ 44.9	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	43.6	÷ 7.5	5.813333	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXXXVI
GROWTH RATES, 1925-1954
F. W. WOOLWORTH COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 34.7 ÷ 24.6	1.410570	7%
Period II 1930-1940	1940 1930 24.1 ÷ 34.7	Negative	Negative
Period III 1940-1945	1945 1940 23.6 ÷ 24.1	Negative	Negative
Period IV 1945-1950	1950 1945 37.1 ÷ 23.6	1.572034	9½%
Period V 1950-1954	1954 1950 27.0 ÷ 37.1	Negative	Negative
Period VI Variable Over-all Period	1954 1925 27.0 ÷ 24.6	1.6097561	½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE LXXXVII
GROWTH RATES, 1925-1954
FEDERATED DEPARTMENT STORES, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.8 ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	3.2 ÷	.8	4.000000	15%
Period III	1945	1940		
1940-1945	4.9 ÷	3.2	1.531250	9%
Period IV	1950	1945		
1945-1950	18.1 ÷	4.9	3.693878	30%
Period V	1954	1950		
1950-1954	19.1 ÷	18.1	1.055249	1½%
Period VI	1954	1930		
Variable Over-all Period	19.1 ÷	.8	23.875000	14%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Delaware, November 25, 1929.

TABLE LXXXVIII
GROWTH RATES, 1925-1954
MONTGOMERY WARD & COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 .4	1925 ÷ 11.4	Negative	Negative
Period II 1930-1940	1940 27.0	1930 ÷ .4	67.500000	52½%
Period III 1940-1945	1945 21.3	1940 ÷ 27.0	Negative	Negative
Period IV 1945-1950	1950 74.2	1945 ÷ 21.3	3.483568	28½%
Period V 1950-1954	1954 35.2	1950 ÷ 74.2	Negative	Negative
Period VI Variable Over-all Period	1954 35.2	1925 ÷ 11.4	3.087719	4%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Metals

TABLE LXXXIX
GROWTH RATES, 1925-1954
ALUMINUM COMPANY OF AMERICA*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 11.7	1925 13.2**	Negative	Negative
Period II 1930-1940	1940 44.1	1930 11.7	3.769231	14%
Period III 1940-1945	1945 21.0	1940 44.1	Negative	Negative
Period IV 1945-1950	1950 46.9	1945 21.0	2.333333	18½%
Period V 1950-1954	1954 46.5	1950 46.9	Negative	Negative
Period VI Variable Over-all Period	1954 46.5	1925 13.2	3.522727	4½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** First nine months of 1925.

TABLE XC
GROWTH RATES, 1925-1954
KENNECOTT COPPER CORPORATION*

Periods	Net Profit After Taxes in ** Millions of Dollars		<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 15.6	1925 8.7 ÷	1.857143	13%
Period II 1930-1940	1940 43.9	1930 15.6 ÷	2.814103	11%
Period III 1940-1945	1945 30.3	1940 43.9 ÷	Negative	Negative
Period IV 1945-1950	1950 88.2	1945 30.3 ÷	2.910891	24%
Period V 1950-1954	1954 77.9	1950 88.2 ÷	Negative	Negative
Period VI Variable Over-all Period	1954 77.9	1925 8.4 ÷	9.273810	8%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Income before depletion allowance.

TABLE XCI
GROWTH RATES, 1925-1954
NATIONAL LEAD COMPANY

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 4.7 ÷ 4.6	1.021739	1½%
Period II 1930-1940	1940 1930 6.1 ÷ 4.7	1.297872	2½%
Period III 1940-1945	1945 1940 6.5 ÷ 6.1	1.065574	1½%
Period IV 1945-1950	1950 1945 26.5 ÷ 6.5	4.076923	32½%
Period V 1950-1954	1954 1950 36.6 ÷ 26.5	1.381132	8½%
Period VI Variable Over-all Period	1954 1925 36.6 ÷ 4.6	7.956522	7½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XCII
GROWTH RATES, 1925-1954
REYNOLDS METALS COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1.8	1925 NA**	. . .	. . .
Period II 1930-1940	1940 2.4	1930 1.8	1.333333	3%
Period III 1940-1945	1945 4.4	1940 2.4	1.833333	13%
Period IV 1945-1950	1950 12.6	1945 4.4	2.863636	23½%
Period V 1950-1954	1954 20.3	1950 12.6	1.611111	12½%
Period VI Variable Over-all Period	1954 20.3	1930 1.8	11.277778	10½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Delaware, July 18, 1928.

TABLE XCIII
GROWTH RATES, 1925-1954
ALUMINIUM LIMITED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1.0	1925 NA**	. . .	. . .
Period II 1930-1940	1940 12.5	1930 1.0	12.500000	28½%
Period III 1940-1945	1945 11.8	1940 12.5	Negative	Negative
Period IV 1945-1950	1950 32.6	1945 11.8	2.762712	22½%
Period V 1950-1954	1954 35.0	1950 32.6	1.073620	2%
Period VI Variable Over-all Period	1954 35.0	1930 1.0	35.000000	16%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Canada, May 31, 1928.

Motion Pictures

TABLE XCIV
GROWTH RATES, 1925-1954
LOEW'S INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 13.8 ÷ 4.7	2.936170	24%
Period II 1930-1940	1940 1930 8.7 ÷ 13.8	Negative	Negative
Period III 1940-1945	1945 1940 19.9 ÷ 8.7	2.287356	18%
Period IV 1945-1950	1950 1945 7.9 ÷ 19.9	Negative	Negative
Period V 1950-1954	1954 1950 6.6 ÷ 7.9	Negative	Negative
Period VI Variable Over-all Period	1954 1925 6.6 ÷ 4.7	1.404255	1%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE XCV
GROWTH RATES, 1925-1954
PARAMOUNT PICTURES, CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 18.4	1925 5.7 ÷	3.228070	26½%
Period II 1930-1940	1940 6.4	1930 18.4 ÷	Negative	Negative
Period III 1940-1945	1945 8.0	1940 6.4 ÷	1.250000	4½%
Period IV 1945-1950	1950 6.6	1945 8.0 ÷	Negative	Negative
Period V 1950-1954	1954 9.0	1950 6.6 ÷	1.363636	8%
Period VI Variable Over-all Period	1954 9.0	1925 5.7 ÷	1.578947	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Natural Gas

TABLE XCVI
GROWTH RATES, 1925-1954
EL PASO NATURAL GAS COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 .3	1925 NA**	. . .	. . .
Period II 1930-1940	1940 2.4	1930 .3	8.000000	23%
Period III 1940-1945	1945 2.2	1940 7.4	Negative	Negative
Period IV 1945-1950	1950 6.4	1945 2.2	2.909091	23½%
Period V 1950-1954	1954 12.3	1950 6.4	1.921875	18%
Period VI Variable Over-all Period	1954 12.3	1930 .3	41.000000	16½%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

NA, not available. Incorporated in Delaware, November 28, 1928.

TABLE XCVII
GROWTH RATES, 1925-1954
PANHANDLE EASTERN PIPE LINE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925	
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940	1930	
1930-1940	4.5 ÷ NA**	. . .	. . .
Period III	1945	1940	
1940-1945	7.7 ÷ 4.5	1.711111	11½%
Period IV	1950	1945	
1945-1950	9.2 ÷ 7.7	1.194805	3½%
Period V	1954	1950	
1950-1954	14.9 ÷ 9.2	1.619565	13%
Period VI	1954	1940	
Variable Over-all Period	14.9 ÷ 4.5	3.311111	9%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Delaware, December 23, 1929, as Inter-State Pipe Line Company; name changed to Panhandle Eastern Pipe Line Company on May 9, 1930. Net profit data for 1930 were not made available to stockholders.

TABLE XCVIII
GROWTH RATES, 1925-1954
UNITED GAS CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 d.3	1925 NA**	. . .	. . .
Period II 1930-1940	1940 5.5	1930 d.3	NC***	NC***
Period III 1940-1945	1945 9.0	1940 5.5	1.636364	10½%
Period IV 1945-1950	1950 16.7	1945 9.0	1.855555	13%
Period V 1950-1954	1954 26.7	1950 16.7	1.598802	12½%
Period VI Variable Over-all Period	1954 26.7	1930 d.3	NC***	NC***

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated under the laws of Delaware, March 28, 1930.

*** NC, cannot be calculated because of deficit.

d = deficit.

Office Equipment

TABLE XCIX
GROWTH RATES, 1925-1954
INTERNATIONAL BUSINESS MACHINES CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 7.3 ÷ 2.8	2.607143	22%
Period II 1930-1940	1940 1930 9.4 ÷ 7.3	1.287671	2½%
Period III 1940-1945	1945 1940 10.9 ÷ 9.4	1.159574	3%
Period IV 1945-1950	1950 1945 33.3 ÷ 10.9	3.055046	25%
Period V 1950-1954	1954 1950 46.5 ÷ 33.3	1.396396	7½%
Period VI Variable Over-all Period	1954 1925 46.5 ÷ 2.8	16.607142	10½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE C
GROWTH RATES, 1925-1954
THE NATIONAL CASH REGISTER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 3.6	1925 8.2 ÷	Negative	Negative
Period II 1930-1940	1940 2.1	1930 3.6 ÷	Negative	Negative
Period III 1940-1945	1945 2.2	1940 2.1 ÷	1.047619	1%
Period IV 1945-1950	1950 12.1	1945 2.2 ÷	5.500000	40½%
Period V 1950-1954	1954 12.7	1950 12.1 ÷	1.049587	1%
Period VI Variable Over-all Period	1954 12.7	1925 8.2 ÷	1.548780	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Paper and Pulp

TABLE CI
GROWTH RATES, 1925-1954
INTERNATIONAL PAPER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 2.2 ÷ 3.6	Negative	Negative
Period II 1930-1940	1940 1930 15.7 ÷ 2.2	7.136364	22%
Period III 1940-1945	1945 1940 8.3 ÷ 15.7	Negative	Negative
Period IV 1945-1950	1950 1945 66.7 ÷ 8.3	8.036145	51½%
Period V 1950-1954	1954 1950 73.5 ÷ 66.7	1.101949	2%
Period VI Variable Over-all Period	1954 1925 73.5 ÷ 3.6	20.416667	11%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CII
GROWTH RATES, 1925-1954
CROWN ZELLERBACH CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 4.4 ÷ 2.0	2.200000	17%
Period II 1930-1940	1940 1930 8.1 ÷ 4.4	1.840909	6½%
Period III 1940-1945	1945 1940 7.8 ÷ 8.1	Negative	Negative
Period IV 1945-1950	1950 1945 25.3 ÷ 7.8	3.243590	26½%
Period V 1950-1954	1954 1950 32.7 ÷ 25.3	1.292490	6½%
Period VI Variable Over-all Period	1954 1925 32.7 ÷ 2.0	16.350000	10%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CIII
GROWTH RATES, 1925-1954
SCOTT PAPER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	1.0 ÷ .2	5.000000	38%
Period II	1940 1930		
1930-1940	1.7 ÷ 1.0	1.700000	5½%
Period III	1945 1940		
1940-1945	1.8 ÷ 1.7	1.058824	1%
Period IV	1950 1945		
1945-1950	12.5 ÷ 1.8	6.944444	47½%
Period V	1954 1950		
1950-1954	18.8 ÷ 12.5	1.504000	10½%
Period VI	1954 1925		
Variable Over-all Period	18.8 ÷ .2	94.000000	17%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CIV
GROWTH RATES, 1925-1954
CONTAINER CORPORATION OF AMERICA*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.1	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	2.2	÷ .1	22.000000	36%
Period III	1945	1940		
1940-1945	2.0	÷ 2.2	Negative	Negative
Period IV	1950	1945		
1945-1950	12.0	÷ 2.0	6.000000	43%
Period V	1954	1950		
1950-1954	13.6	÷ 12.0	1.133333	3%
Period VI	1954	1930		
Variable Over-all Period	13.6	÷ .1	136.000000	22½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Delaware, June 18, 1926.

TABLE CV
GROWTH RATES, 1925-1954
ST. REGIS PAPER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	4.3 ÷ .9	4.777778	36½%
Period II	1940 1930		
1930-1940	2.1 ÷ 4.3	Negative	Negative
Period III	1945 1940		
1940-1945	2.2 ÷ 2.1	1.047619	1%
Period IV	1950 1945		
1945-1950	11.6 ÷ 2.2	5.272727	39½%
Period V	1954 1950		
1950-1954	14.9 ÷ 11.6	1.284483	6½%
Period VI	1954 1925		
Variable Over-all Period	14.9 ÷ .9	16.555556	10%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CVI
GROWTH RATES, 1925-1954
UNION BAG AND PAPER CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 .2d	1925 .2d	Unchanged	Unchanged
Period II 1930-1940	1940 2.1	1930 .2d	NC**	NC**
Period III 1940-1945	1945 1.7	1940 2.1	Negative	Negative
Period IV 1945-1950	1950 10.9	1945 1.7	6.411765	45%
Period V 1950-1954	1954 10.8	1950 10.9	Negative	Negative
Period VI Variable Over-all Period	1954 10.8	1925 .2d	NC**	NC**

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NC, cannot be calculated because of deficit.

d = deficit.

Petroleum

TABLE CVII
GROWTH RATES, 1925-1954
STANDARD OIL COMPANY (NEW JERSEY)*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	42.2	÷ 111.2	Negative	Negative
Period II	1940	1930		
1930-1940	123.9	÷ 42.2	2.936019	11½%
Period III	1945	1940		
1940-1945	154.2	÷ 123.9	1.244552	4½%
Period IV	1950	1945		
1945-1950	408.2	÷ 154.2	2.647211	22%
Period V	1954	1950		
1950-1954	584.8	÷ 408.2	1.432631	9½%
Period VI	1954	1925		
Variable Over-all Period	584.8	÷ 111.2	5.258993	6¾%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CVIII
GROWTH RATES, 1925-1954
SOCONY MOBIL OIL COMPANY, INCORPORATED* **

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	16.5	÷ 41.6	Negative	Negative
Period II	1940	1930		
1930-1940	36.4	÷ 16.5	2.206061	8%
Period III	1945	1940		
1940-1945	42.3	÷ 36.4	1.162088	3%
Period IV	1950	1945		
1945-1950	128.2	÷ 42.3	3.030733	25%
Period V	1954	1950		
1950-1954	183.8	÷ 128.2	1.433697	9½%
Period VI Variable Over-all Period	1954	1925		
	183.8	÷ 41.6	4.418269	5%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Before July 3, 1931, the company was known as Standard Oil of New York. The name was changed to Socony-Vacuum Corporation on July 3, 1931. Present title was adopted in May of 1955.

TABLE CIX
GROWTH RATES, 1925-1954
THE TEXAS COMPANY* **

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	15.1 ÷ 39.6	Negative	Negative
Period II	1940 1930		
1930-1940	31.5 ÷ 15.1	2.086093	7½%
Period III	1945 1940		
1940-1945	51.9 ÷ 31.5	1.647619	10½%
Period IV	1950 1945		
1945-1950	149.1 ÷ 51.9	2.872832	23½%
Period V	1954 1950		
1950-1954	226.1 ÷ 149.1	1.516432	11%
Period VI	1954 1925		
Variable Over-all Period	226.1 ÷ 39.6	5.709596	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Incorporated August 26, 1926, as Texas Corporation for purpose of acquiring the assets of the Texas Company, a Texas corporation organized in 1902. In 1927, The Texas Company, a Delaware corporation was formed.

TABLE CX
GROWTH RATES, 1925-1954
STANDARD OIL COMPANY (CALIFORNIA)*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 37.7 ÷ 43.6	Negative	Negative
Period II 1930-1940	1940 1930 22.5 ÷ 37.7	Negative	Negative
Period III 1940-1945	1945 1940 55.6 ÷ 22.5	2.471111	21½%
Period IV 1945-1950	1950 1945 150.8 ÷ 55.6	2.712230	22%
Period V 1950-1954	1954 1950 211.9 ÷ 150.8	1.398541	8½%
Period VI Variable Over-all Period	1954 1925 211.9 ÷ 43.6	4.860092	5½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXI
GROWTH RATES, 1925-1954
CITIES SERVICE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 84.9 ÷ 21.7	3.912442	31½%
Period II 1930-1940	1940 1930 9.9 ÷ 84.9	Negative	Negative
Period III 1940-1945	1945 1940 15.1 ÷ 9.9	1.525253	9%
Period IV 1945-1950	1950 1945 56.7 ÷ 15.1	3.754967	30½%
Period V 1950-1954	1954 1950 43.7 ÷ 56.7	Negative	Negative
Period VI Variable Over-all Period	1954 1925 43.7 ÷ 21.7	2.013825	2½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXII
GROWTH RATES, 1925-1954
THE OHIO OIL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 10.6 ÷ 9.4	1.127660	2½%
Period II 1930-1940	1940 1930 8.7 ÷ 10.6	Negative	Negative
Period III 1940-1945	1945 1940 14.0 ÷ 8.7	1.609195	10%
Period IV 1945-1950	1950 1945 37.3 ÷ 14.0	2.664286	18%
Period V 1950-1954	1954 1950 38.2 ÷ 37.3	1.024129	½%
Period VI Variable Over-all Period	1954 1925 38.2 ÷ 9.4	4.063830	5%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXIII
GROWTH RATES, 1925-1954
SKELLY OIL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	1.9 ÷	3.9	Negative	Negative
Period II	1940	1930		
1930-1940	3.3 ÷	1.9	1.736842	5½%
Period III	1945	1940		
1940-1945	8.5 ÷	3.3	2.575758	21%
Period IV	1950	1945		
1945-1950	28.5 ÷	8.5	3.352941	27½%
Period V	1954	1950		
1950-1954	29.5 ÷	28.5	1.035088	1%
Period VI	1954	1925		
Variable Over-all Period	29.5 ÷	3.9	7.564103	7%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXIV
GROWTH RATES, 1925-1954
GULF OIL CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 10.6 ÷ 35.0	Negative	Negative
Period II 1930-1940	1940 1930 22.2 ÷ 10.6	2.094340	7½%
Period III 1940-1945	1945 1940 43.2 ÷ 22.2	1.995946	14%
Period IV 1945-1950	1950 1945 111.1 ÷ 43.2**	2.571759	21%
Period V 1950-1954	1954 1950 182.8 ÷ 111.1	1.645365	13½%
Period VI Variable Over-all Period	1954 1925 182.8 ÷ 35.0	5.222857	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** After contingency reserve of approximately \$2,000,000 in 1945.

TABLE CXV
GROWTH RATES, 1925-1955
STANDARD OIL COMPANT (INDIANA)*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 46.4 ÷ 30.4	1.526316	9%
Period II 1930-1940	1940 1930 33.6 ÷ 46.4	Negative	Negative
Period III 1940-1945	1945 1940 50.3 ÷ 33.6	1.497024	8½%
Period IV 1945-1950	1950 1945 123.6 ÷ 50.3	2.457256	19½%
Period V 1950-1954	1954 1950 117.2 ÷ 123.6	Negative	Negative
Period VI Variable Over-all Period	1954 1925 117.2 ÷ 30.4	3.855263	4½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXVI
GROWTH RATES, 1925-1954
SHELL OIL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 d5.1 ÷ 20.4	Negative	Negative
Period II 1930-1940	1940 1930 15.7 ÷ d5.1	NC**	NC**
Period III 1940-1945	1945 1940 28.8 ÷ 15.7	1.834395	13%
Period IV 1945-1950	1950 1945 94.2*** ÷ 28.8	3.270833	26½%
Period V 1950-1954	1954 1950 121.1 ÷ 94.2***	1.285563	6½%
Period VI Variable Over-all Period	1954 1925 121.1 ÷ 20.4	5.936275	6½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NC, cannot be calculated because of deficit.

*** After transfer from reserves of \$0.11 a share in 1945.

d = deficit.

TABLE CXVII
GROWTH RATES, 1925-1954
PHILLIPS PETROLEUM COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 5.7	1925 14.4	Negative	Negative
Period II 1930-1940	1940 11.6	1930 5.7	2.035088	7½%
Period III 1940-1945	1945 22.6	1940 11.6	1.948276	14½%
Period IV 1945-1950	1950 51.6	1945 22.6	2.283186	18%
Period V 1950-1954	1954 76.2	1950 51.6	1.476744	10%
Period VI Variable Over-all Period	1954 76.2	1925 14.4	5.291667	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXVIII
GROWTH RATES, 1925-1954
THE ATLANTIC REFINING COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	2.7 ÷	7.2	Negative	Negative
Period II	1940	1930		
1930-1940	6.2 ÷	2.7	2.296296	8½%
Period III	1945	1940		
1940-1945	1.5 ÷	6.2	Negative	Negative
Period IV	1950	1945		
1945-1950	40.8 ÷	1.5	27.200000	93½%
Period V	1954	1950		
1950-1954	41.4 ÷	40.8	1.014706	½%
Period VI	1954	1925		
Variable Over-all Period	41.4 ÷	7.2	5.750000	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXIX
GROWTH RATES, 1925-1954
SIGNAL OIL AND GAS COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.7 ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	.9 ÷	.7	1.285714	2½%
Period III	1945	1940		
1940-1945	2.0 ÷	.9	2.222222	17½%
Period IV	1950	1945		
1945-1950	7.5 ÷	2.0	3.750000	30½%
Period V	1954	1950		
1950-1954	9.3 ÷	7.5	1.240000	5½%
Period VI Variable Over-all Period	1954	1930		
	9.3 ÷	.7	13.285714	11½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated June 25, 1928 in Delaware for the purpose of continuing the business of Signal Gasoline Company, Incorporated. Net profit data for Signal Gasoline Company, Incorporated, could not be readily obtained.

TABLE CXX
GROWTH RATES, 1925-1955
AMERADA PETROLEUM CORPORATION* **

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	4.0 ÷ 2.5	1.600000	10%
Period II	1940 1930		
1930-1940	1.8 ÷ 4.0	Negative	Negative
Period III	1945 1940		
1940-1945	5.4 ÷ 1.8	3.000000	24½%
Period IV	1950 1945		
1945-1950	15.4 ÷ 5.4	2.851852	23½%
Period V	1954 1950		
1950-1954	19.8 ÷ 15.4	1.285714	6½%
Period VI	1954 1925		
Variable Over-all Period	19.8 ÷ 2.5	7.920000	7½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**Formerly known as Amerada Corporation.

TABLE CXXI
GROWTH RATES, 1925-1954
CREOLE PETROLEUM CORPORATION* **

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	1.7 ÷ NA***	. . .	. . .
Period II	1940 1930		
1930-1940	6.8 ÷ 1.7	4.000000	15%
Period III	1945 1940		
1940-1945	64.6 ÷ 6.8	9.500000	57%
Period IV	1950 1945		
1945-1950	166.9 ÷ 64.6	2.583591	21%
Period V	1954 1950		
1950-1954	239.7 ÷ 166.9	1.436189	9½%
Period VI	1954 1930		
Variable Over-all Period	239.7 ÷ 1.7	141.000000	23%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Formerly known as the Creole Syndicate.

*** NA, not available. Net profit data for the year 1925 were not made available to stockholders.

Public Utilities

TABLE CXXII
GROWTH RATES, 1925-1954
AMERICAN TELEPHONE & TELEGRAPH COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 201.6 ÷ 136.5	1.476923	8%
Period II 1930-1940	1940 1930 210.5 ÷ 201.6	1.044147	½%
Period III 1940-1945	1945 1940 177.1 ÷ 210.5	Negative	Negative
Period IV 1945-1950	1950 1945 347.0 ÷ 177.1	1.959345	14½%
Period V 1950-1954	1954 1950 549.9 ÷ 347.0	1.584726	12%
Period VI Variable Over-all Period	1954 1925 549.9 ÷ 136.5	4.028571	5%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXIII
GROWTH RATES, 1925-1954
AMERICAN GAS AND ELECTRIC COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	19.2	9.7	1.979381	14½%
Period II	1940	1930		
1930-1940	15.1	19.2	Negative	Negative
Period III	1945	1940		
1940-1945	23.7	15.1	1.569536	9½%
Period IV	1950	1945		
1945-1950	24.5	23.7	1.033755	½%
Period V	1954	1950		
1950-1954	32.4	24.5	1.322449	9½%
Period VI	1954	1925		
Variable Over-all Period	32.4	9.7	3.340206	4%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXIV
GROWTH RATES, 1925-1954
MIDDLE SOUTH UTILITIES, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA**	÷ NA**	. . .	. . .
Period II	1940	1930		
1930-1940	NA**	÷ NA**	. . .	. . .
Period III	1945	1940		
1940-1945	NA**	÷ NA**	. . .	. . .
Period IV	1950	1945		
1945-1950	10.2	÷ NA**	. . .	. . .
Period V	1954	1950		
1950-1954	16.2	÷ 10.2	1.588235	12½%
Period VI	1954	1950		
Variable Over-all Period	16.2	÷ 10.2	1.588235	12½%

* Sources: Moody's Public Utilities Manuals, 1925-1955,
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated under Florida Laws, May 27, 1949.

TABLE CXXV
GROWTH RATES, 1925-1954
PACIFIC GAS & ELECTRIC COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	20.0 ÷ 7.9	2.531646	20½%
Period II	1940 1930		
1930-1940	24.7 ÷ 20.0	1.235000	2%
Period III	1945 1940		
1940-1945	22.0 ÷ 24.7	Negative	Negative
Period IV	1950 1945		
1945-1950	37.8 ÷ 22.0	1.718182	11½%
Period V	1954 1950		
1950-1954	63.0 ÷ 37.8	1.666667	14%
Period VI	1954 1925		
Variable Over-all Period	63.0 ÷ 7.9	7.974684	7½%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXVI
GROWTH RATES, 1925-1954
CONDOLIDATED EDISON COMPANY OF NEW YORK,
INCORPORATED* **

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 69.3 ÷ 30.9	2.242718	17½%
Period II 1930-1940	1940 1930 36.5 ÷ 69.3	Negative	Negative
Period III 1940-1945	1945 1940 31.0 ÷ 36.5	Negative	Negative
Period IV 1945-1950	1950 1945 39.2 ÷ 31.0	1.264516	5%
Period V 1950-1954	1954 1950 50.3 ÷ 39.2	1.283163	6½%
Period VI Variable Over-all Period	1954 1925 50.3 ÷ 30.9	1.627832	1½%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Incorporated under the laws of New York, November 10, 1884, as the Consolidated Gas Company of New York; present title was adopted March 23, 1936.

TABLE CXXVII
GROWTH RATES, 1925-1954
GENERAL PUBLIC UTILITIES CORPORATION* ***

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	21.0 ÷	2.8	7.500000	49½%
Period II	1940	1930		
1930-1940	12.6 ÷	21.0	Negative	Negative
Period III	1945	1940		
1940-1945	10.9 ÷	12.6**	Negative	Negative
Period IV	1950	1945		
1945-1950	16.6 ÷	10.9	1.522936	9%
Period V	1954	1950		
1950-1954	23.5 ÷	16.6	1.415663	9%
Period VI	1954	1925		
Variable Over-all Period	23.5 ÷	2.8	8.392857	7½%

*Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**Before fixed charges.

***Incorporated in New York, March 19, 1906, as the
Associated Gas & Electric Company; present name adopted
January, 1946.

TABLE CXXVIII
GROWTH RATES, 1925-1954
NIAGARA MOHAWK POWER CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	2.5 ÷ NA**	. . .	. . .
Period III	1945 1940		
1940-1945	3.1 ÷ 2.5	1.240000	4½%
Period IV	1950 1945		
1945-1950	19.9 ÷ 3.1	6.419355	45%
Period V	1954 1950		
1950-1954	27.8 ÷ 19.9	1.396985	8½%
Period VI	1954 1940		
Variable Over-all Period	27.8 ÷ 2.5	11.120000	19%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in New York, July 31, 1937, as Central New York Power Corporation; present name adopted January 5, 1950.

TABLE CXXIX
GROWTH RATES, 1925-1954
TEXAS UTILITIES COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	NA** ÷ NA**	. . .	. . .
Period III	1945 1940		
1940-1945	5.2 ÷ NA**	. . .	. . .
Period IV	1950 1945		
1945-1950	11.5 ÷ 5.2	2.211538	17%
Period V	1954 1950		
1950-1954	22.8 ÷ 11.5	1.982609	18½%
Period VI	1954 1945		
Variable Over-all Period	22.8 ÷ 5.2	4.384615	17½%

* Sources: Moody's Public Utilities Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Texas on September 4, 1945.

Radio and Television Broadcasting

TABLE CXXX
GROWTH RATES, 1925-1954
RADIO CORPORATION OF AMERICA

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	5.5 ÷	2.9	1.896552	13½%
Period II	1940	1930		
1930-1940	9.1 ÷	5.5	1.654545	5%
Period III	1945	1940		
1940-1945	11.3 ÷	9.1	1.241758	4½%
Period IV	1950	1945		
1945-1950	46.3 ÷	11.3	4.097345	32½%
Period V	1954	1950		
1950-1954	40.5 ÷	46.3	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	40.5 ÷	2.9	13.965517	9½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXXI
GROWTH RATES, 1925-1954
COLUMBIA BROADCASTING SYSTEM, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.9 ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	5.0 ÷	.9	5.555556	18½%
Period III	1945	1940		
1940-1945	5.3 ÷	5.0	Negative	Negative
Period IV	1950	1945		
1945-1950	4.1 ÷	5.3	Negative	Negative
Period V	1954	1950		
1950-1954	11.4 ÷	4.1	2.780488	29%
Period VI Variable Over-all Period	1954	1930		
	11.4 ÷	.9	12.666667	11%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in New York in January, 1927, as United Independent Broadcasters, Inc.; present title subsequently adopted.

TABLE CXXXII
GROWTH RATES, 1925-1954
PHILCO CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	2.2 ÷ NA**	. . .	. . .
Period III	1945 1940		
1940-1945	2.4 ÷ 2.2	1.090909	2%
Period IV	1950 1945		
1945-1950	15.5 ÷ 2.4	6.458333	45½%
Period V	1954 1950		
1950-1954	6.8 ÷ 15.5	Negative	Negative
Period VI	1954 1940		
Variable Over-all Period	6.8 ÷ 2.2	3.090909	8½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Pennsylvania on October 11, 1892, as the Helios Electric Company. Name changed to Philadelphia Storage Battery Company in July, 1906, and to Philco Corporation on January 2, 1940. Net profit data for the years 1925 and 1930 of the Philadelphia Storage Battery Company were not made available to stockholders.

TABLE CXXXIII
GROWTH RATES, 1925-1954
MOTOROLA, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA ** ÷ NA **	. . .	. . .
Period II	1940 1930		
1930-1940	.5 ÷ NA **	. . .	. . .
Period III	1945 1940		
1940-1945	.9 ÷ .5	1.800000	12½%
Period IV	1950 1945		
1945-1950	13.1 ÷ .9	14.555556	71%
Period V	1954 1950		
1950-1954	7.6 ÷ 13.1	Negative	Negative
Period VI	1954 1940		
Variable Over-all Period	7.6 ÷ .5	15.200000	21½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated in Illinois, September 25, 1928, as Galvin Manufacturing Corporation; present title adopted May 5, 1947. Net profit data for the Galvin Manufacturing Corporation (predecessor company) for 1930 were not made available to stockholders.

Railroads

TABLE CXXXIV
GROWTH RATES, 1925-1954
SOUTHERN PACIFIC COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 30.7 ÷ 35.7	Negative	Negative
Period II 1930-1940	1940 1930 7.1 ÷ 30.7	Negative	Negative
Period III 1940-1945	1945 1940 35.8 ÷ 7.1	5.042254	38%
Period IV 1945-1950	1950 1945 54.3 ÷ 35.8	1.516760	8½%
Period V 1950-1954	1954 1950 48.7 ÷ 54.3	Negative	Negative
Period VI Variable Over-all Period	1954 1925 78.7 ÷ 35.7	1.364146	1%

* Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXXV
GROWTH RATES, 1925-1954
THE ATCHISON, TOPEKA, & SANTA FE RAILWAY COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	37.3 ÷ 46.2	Negative	Negative
Period II	1940 1930		
1930-1940	12.7 ÷ 37.3	Negative	Negative
Period III	1945 1940		
1940-1945	29.4 ÷ 12.7	2.314961	18½%
Period IV	1950 1945		
1945-1950	82.1 ÷ 29.4	2.792517	23%
Period V	1954 1950		
1950-1954	66.2 ÷ 82.1	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	66.2 ÷ 46.2	1.432900	1%

*Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXXVI
GROWTH RATES, 1925-1954
THE PENNSYLVANIA RAILROAD COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	69.0 ÷ 62.4	Negative	Negative
Period II	1940 1930		
1930-1940	35.1 ÷ 69.0	Negative	Negative
Period III	1945 1940		
1940-1945	49.0 ÷ 35.1	1.396011	7%
Period IV	1950 1945		
1945-1950	38.4 ÷ 49.0	Negative	Negative
Period V	1954 1950		
1950-1954	18.6 ÷ 38.4	Negative	Negative
Period VI	1954 1925		
Variable Over-all Period	18.6 ÷ 62.4	Negative	Negative

* Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXXVII
GROWTH RATES, 1925-1954
UNION PACIFIC RAILROAD COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 38.7 ÷ 38.2	1.013089	½%
Period II 1930-1940	1940 1930 19.4 ÷ 38.7	Negative	Negative
Period III 1940-1945	1945 1940 33.0 ÷ 19.4	1.701031	11%
Period IV 1945-1950	1950 1945 69.8 ÷ 33.0	2.115152	16%
Period V 1950-1954	1954 1950 69.6 ÷ 69.8	Negative	Negative
Period VI Variable Over-all Period	1954 1925 69.6 ÷ 38.2	1.821990	2%

* Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXXVIII
GROWTH RATES, 1925-1954
NEW YORK CENTRAL RAILROAD COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 36.0 ÷ 48.6	Negative	Negative
Period II 1930-1940	1940 1930 11.3 ÷ 36.0	Negative	Negative
Period III 1940-1945	1945 1940 24.4 ÷ 11.3	2.159292	16½%
Period IV 1945-1950	1950 1945 18.3 ÷ 24.4	Negative	Negative
Period V 1950-1954	1954 1950 9.2 ÷ 18.3	Negative	Negative
Period VI Variable Over-all Period	1954 1925 9.2 ÷ 48.6	Negative	Negative

* Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXXXIX
GROWTH RATES, 1925-1954
SEABOARD AIR LINE RAILROAD COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	d4.6 ÷	2.6	Negative	Negative
Period II	1940	1930		
1930-1940	.06 ÷	d4.6	NC**	NC**
Period III	1945	1940		
1940-1945	5.2 ÷	.06	86.666667	144%
Period IV	1950	1945		
1945-1950	14.2 ÷	5.2	2.730769	22½%
Period V	1954	1950		
1950-1954	20.1 ÷	14.2	1.415493	9%
Period VI	1954	1925		
Variable Over-all Period	20.1 ÷	2.6	7.730769	7½%

*Sources: Moody's Transportation Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NC, cannot be calculated because of deficit.

d = deficit.

Rubber

TABLE CXL
GROWTH RATES, 1925-1954
GOODYEAR TIRE & RUBBER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	9.9 ÷	8.8	1.125000	2½%
Period II	1940	1930		
1930-1940	10.3 ÷	9.9	1.040404	½%
Period III	1945	1940		
1940-1945	15.1 ÷	10.3	1.466019	8%
Period IV	1950	1945		
1945-1950	35.1 ÷	15.1	2.324503	18½%
Period V	1954	1950		
1950-1954	48.1 ÷	35.1	1.370370	8%
Period VI	1954	1925		
Variable Over-all Period	48.1 ÷	8.8	5.465909	6%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXLI
GROWTH RATES, 1925-1954
FIRESTONE TIRE & RUBBER COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1.5** ÷	1925 15.8**	Negative	Negative
Period II 1930-1940	1940 8.7 ÷	1930 1.5**	5.800000	19%
Period III 1940-1945	1945 16.5 ÷	1940 8.7	1.896552	13½%
Period IV 1945-1950	1950 33.3 ÷	1945 16.5	2.018182	15%
Period V 1950-1954	1954 40.6 ÷	1950 33.3	1.219319	5%
Period VI Variable Over-all Period	1954 40.6 ÷	1925 15.8 ¹	2.569620	3½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Years ending October 31.

TABLE CXLII
GROWTH RATES, 1925-1954
THE B. F. GOODRICH COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 8.4 ÷ 12.7	Negative	Negative
Period II 1930-1940	1940 1930 6.1 ÷ 8.4	Negative	Negative
Period III 1940-1945	1945 1940 12.3 ÷ 6.1	2.016393	15%
Period IV 1945-1950	1950 1945 34.7 ÷ 12.3	2.821138	23%
Period V 1950-1954	1954 1950 38.8 ÷ 34.7	1.118156	3%
Period VI Variable Over-all Period	1954 1925 38.8 ÷ 12.7	3.055118	4%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Shoes

TABLE CXLIII
GROWTH RATES, 1925-1954
INTERNATIONAL SHOE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 12.9 ÷ 12.7	1.015748	½%
Period II 1930-1940	1940 1930 6.5 ÷ 12.9	Negative	Negative
Period III 1940-1945	1945 1940 5.6 ÷ 6.5	Negative	Negative
Period IV 1945-1950	1950 1945 11.0 ÷ 5.6	1.964286	14½%
Period V 1950-1954	1954 1950 10.2 ÷ 11.0	Negative	Negative
Period VI Variable Over-all Period	1954 1925 10.2 ÷ 12.7	Negative	Negative

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXLIV
GROWTH RATES, 1925-1954
MELVILLE SHOE CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.2 ÷	1.0	Negative	Negative
Period II	1940	1930		
1930-1940	3.2 ÷	.2	16.000000	32%
Period III	1945	1940		
1940-1945	2.4 ÷	3.2	Negative	Negative
Period IV	1950	1945		
1945-1950	5.2 ÷	2.4	2.166667	16½%
Period V	1954	1950		
1950-1954	6.0 ÷	5.2	1.153846	3½%
Period VI	1954	1925		
Variable Over-all Period	6.0 ÷	1.0	6.000000	6½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXLV
GROWTH RATES, 1925-1954
GENERAL SHOE CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.3 ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	.8 ÷	.3	2.666667	10½%
Period III	1945	1940		
1940-1945	1.1 ÷	.8	1.375000	6½%
Period IV	1950	1945		
1945-1950	3.9 ÷	1.1	3.545455	29%
Period V	1954	1950		
1950-1954	4.8 ÷	3.9	1.230769	5½%
Period VI Variable Over-all Period	1954	1930		
	4.8 ÷	.3	16.000000	12%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Incorporated in Tennessee, July 5, 1925, as Jarman Shoe Company; present title adopted July 11, 1933.

Soap

TABLE CXLVI
GROWTH RATES, 1925-1954
THE PROCTER & GAMBLE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	22.2 ÷	11.6	1.913793	14%
Period II	1940	1930		
1930-1940	28.7 ÷	22.2	1.292793	2½%
Period III	1945	1940		
1940-1945	19.5 ÷	28.7	Negative	Negative
Period IV	1950	1945		
1945-1950	61.1 ÷	19.5	3.133333	25½%
Period V	1954	1950		
1950-1954	52.2 ÷	61.1	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	55.2 ÷	11.6	4.500000	5½%

*

Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXLVII
GROWTH RATES, 1925-1954
COLGATE-PALMOLIVE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	8.6 ÷	NA **	. . .	. . .
Period II	1940	1930		
1930-1940	4.0 ÷	8.6	Negative	Negative
Period III	1945	1940		
1940-1945	7.0 ÷	4.0	1.750000	12%
Period IV	1950	1945		
1945-1950	15.7 ÷	7.0	2.242857	17½%
Period V	1954	1950		
1950-1954	12.5 ÷	15.7	Negative	Negative
Period VI	1954	1930		
Variable Over-all Period	12.5 ÷	8.6	1.453488	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Organized in August, 1928, as a consolidation of the Colgate Company and the Palmolive-Peet Company.

Steel

TABLE CXLVIII
GROWTH RATES, 1925-1954
UNITED STATES STEEL CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	<u>Last Year</u> <u>First Year</u>	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 104.4 ÷ 90.6	1.152318	3%
Period II 1930-1940	1940 1930 102.2 ÷ 104.4	Negative	Negative
Period III 1940-1945	1945 1940 58.0 ÷ 102.2	Negative	Negative
Period IV 1945-1950	1950 1945 215.5 ÷ 58.0	3.715517	30%
Period V 1950-1954	1954 1950 195.4 ÷ 215.5	Negative	Negative
Period VI Variable Over-all Period	1954 1925 195.4 ÷ 90.6	2.156733	2½%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CXLIX
GROWTH RATES, 1925-1954
BETHLEHEM STEEL CORPORATION*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 23.8 ÷ 13.9	1.712230	11½%
Period II 1930-1940	1940 1930 48.7 ÷ 23.8	2.046218	7½%
Period III 1940-1945	1945 1940 35.0 ÷ 48.7	Negative	Negative
Period IV 1945-1950	1950 1945 123.0 ÷ 35.0	3.514286	28½%
Period V 1950-1954	1954 1950 132.8 ÷ 123.0	1.079675	2%
Period VI Variable Over-all Period	1954 1925 132.8 ÷ 13.9	9.553957	8%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CL
GROWTH RATES, 1925-1954
REPUBLIC STEEL CORPORATION* **

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 d3.5 ÷ 3.8	Negative	Negative
Period II 1930-1940	1940 1930 21.1 ÷ d3.5	NC***	NC***
Period III 1940-1945	1945 1940 9.5 ÷ 21.1	Negative	Negative
Period IV 1945-1950	1950 1945 63.8 ÷ 9.5	6.715789	46½%
Period V 1950-1954	1954 1950 52.9 ÷ 63.8	Negative	Negative
Period VI Variable Over-all Period	1954 1925 52.9 ÷ 3.8	13.921053	9½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Incorporated as Republic Iron & Steel Company, May 3, 1899; present name adopted due to a consolidation on April 8, 1930.

*** NC, cannot be calculated because of deficit.

d = deficit.

TABLE CLI
GROWTH RATES, 1925-1954
ARMCO STEEL CORPORATION* **

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 .3 ÷	1925 3.2	Negative	Negative
Period II 1930-1940	1940 7.6 ÷	1930 .3	25.333333	38%
Period III 1940-1945	1945 13.4 ÷	1940 7.6	1.763158	12%
Period IV 1945-1950	1950 47.0 ÷	1945 13.4	3.507463	28½%
Period V 1950-1954	1954 41.1 ÷	1950 47.0	Negative	Negative
Period VI Variable Over-all Period	1954 41.1 ÷	1925 3.2	12.843750	9%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** Incorporated in Ohio, June 29, 1917, as the American Rolling Mill Company; present name adopted April, 1948.

TABLE CLII
GROWTH RATES, 1925-1954
YOUNGSTOWN SHEET & TUBE COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 7.0 ÷	1925 13.2	Negative	Negative
Period II 1930-1940	1940 10.8 ÷	1930 7.0	1.542857	4½%
Period III 1940-1945	1945 7.5 ÷	1940 10.8	Negative	Negative
Period IV 1945-1950	1950 40.6 ÷	1945 7.5	5.413333	40%
Period V 1950-1954	1954 20.2 ÷	1950 40.6	Negative	Negative
Period VI Variable Over-all Period	1954 20.2 ÷	1925 13.2	1.530303	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CLIII
GROWTH RATES, 1925-1954
INLAND STEEL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 6.5 ÷	1925 4.9	1.326531	6%
Period II 1930-1940	1940 14.5 ÷	1930 6.5	2.230769	8½%
Period III 1940-1945	1945 9.9 ÷	1940 14.5	Negative	Negative
Period IV 1945-1950	1950 38.0 ÷	1945 9.9	3.838384	31%
Period V 1950-1954	1954 41.3 ÷	1950 38.0	1.086842	2%
Period VI Variable Over-all Period	1954 41.3 ÷	1925 4.9	8.428571	7½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Textiles

TABLE CLIV
GROWTH RATES, 1925-1954
J. P. STEVENS & COMPANY, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 NA**	1925 NA** ÷	. . .	. . .
Period II 1930-1940	1940 NA**	1930 NA** ÷	. . .	. . .
Period III 1940-1945	1945 3.0	1940 NA** ÷	. . .	. . .
Period IV 1945-1950	1950 25.3	1945 3.0 ÷	8.433333	53%
Period V 1950-1954	1954 3.6	1950 25.3 ÷	Negative	Negative
Period VI Variable Over-all Period	1954 3.6	1945 3.0 ÷	1.200000	2%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

**NA, not available. Net profit data for years prior to 1944 were not made available to stockholders.

TABLE CLV
GROWTH RATES, 1925-1954
BURLINGTON INDUSTRIES, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	NA** ÷	NA**	. . .	. . .
Period II	1940	1930		
1930-1940	1.7*** ÷	NA**	. . .	. . .
Period III	1945	1940		
1940-1945	9.5 ÷	1.7****	5.588235	41%
Period IV	1950	1945		
1945-1950	27.1 ÷	9.5	2.852632	23½%
Period V	1954	1950		
1950-1954	8.4 ÷	27.1	Negative	Negative
Period VI	1954	1940		
Variable Over-all Period	8.4 ÷	1.7 ¹	4.941176	12%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Incorporated February 15, 1937,
as Burlington Mills Corporation; present title adopted
February 3, 1955.

*** Nine months to September 28, 1940.

TABLE CLVI
GROWTH RATES, 1925-1954
M. LOWENSTEIN & SONS, INCORPORATED*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	NA** ÷ NA**	. . .	. . .
Period II	1940 1930		
1930-1940	1.4 ÷ NA**	. . .	. . .
Period III	1945 1940		
1940-1945	1.7 ÷ 1.4	1.214286	4%
Period IV	1950 1945		
1945-1950	8.7 ÷ 1.7	5.117647	38½%
Period V	1954 1950		
1950-1954	6.8 ÷ 8.7	Negative	Negative
Period VI	1954		
Variable Over-all Period	.6.8 ÷ 1.4	4.857143	12%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NA, not available. Net profit data prior to 1938 not available in report to stockholders or S. E. C. reports.

TABLE CLVII
GROWTH RATES, 1925-1954
PEPPERELL MANUFACTURING COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.6 ÷	d.4	NC**	NC**
Period II	1940	1930		
1930-1940	1.1 ÷	.6	1.833333	6½%
Period III	1945	1940		
1940-1945	1.8 ÷	1.1	1.636364	10½%
Period IV	1950	1945		
1945-1950	4.4 ÷	1.8	2.444444	19½%
Period V	1954	1950		
1950-1954	2.4 ÷	4.4	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	2.4 ÷	d.4	NC**	NC**

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NC, cannot be calculated because of deficit.

d = deficit.

Tobacco

TABLE CLVIII
GROWTH RATES, 1925-1954
THE AMERICAN TOBACCO COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	Last Year <hr/> First Year	Increase Expressed as a Compound Annual Rate
Period I 1925-1930	1930 1925 43.2 ÷ 22.2	1.945946	14%
Period II 1930-1940	1940 1930 28.3 ÷ 43.2	Negative	Negative
Period III 1940-1945	1945 1940 19.7 ÷ 28.3	Negative	Negative
Period IV 1945-1950	1950 1945 41.7 ÷ 19.7	2.116751	16%
Period V 1950-1954	1954 1950 43.1 ÷ 41.7	1.033573	1%
Period VI Variable Over-all Period	1954 1925 43.1 ÷ 22.2	1.941441	2½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CLIX
GROWTH RATES, 1925-1954
LIGGETT & MYERS TOBACCO COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	24.0 ÷	15.3	1.568627	9½%
Period II	1940	1930		
1930-1940	20.3 ÷	24.0	Negative	Negative
Period III	1945	1940		
1940-1945	14.9 ÷	20.3	Negative	Negative
Period IV	1950	1945		
1945-1950	29.1 ÷	14.9	1.953020	14½%
Period V	1954	1950		
1950-1954	22.2 ÷	29.1	Negative	Negative
Period VI	1954	1925		
Variable Over-all Period	22.2 ÷	15.3	1.450980	1½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CLX
GROWTH RATES, 1925-1954
R. J. REYNOLDS TOBACCO COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	34.3 ÷	25.2	1.361111	6½%
Period II	1940	1930		
1930-1940	25.6 ÷	34.3	Negative	Negative
Period III	1945	1940		
1940-1945	19.2 ÷	25.6	Negative	Negative
Period IV	1950	1945		
1945-1950	40.3 ÷	19.2	2.098958	16%
Period V	1954	1950		
1950-1954	44.8 ÷	40.3	1.111663	2½%
Period VI	1954	1925		
Variable Over-all Period	44.8 ÷	25.2	1.777778	2%

*Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

Miscellaneous Industries

TABLE CLXI
GROWTH RATES, 1925-1954
EASTMAN KODAK COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars	$\frac{\text{Last Year}}{\text{First Year}}$	Increase Expressed as a Compound Annual Rate
Period I	1930 1925		
1925-1930	20.4 ÷ 18.5	1.102703	2%
Period II	1940 1930		
1930-1940	20.1 ÷ 20.4	Negative	Negative
Period III	1945 1940		
1940-1945	32.7 ÷ 20.1	1.626866	10%
Period IV	1950 1945		
1945-1950	61.9 ÷ 32.7	1.892966	13½%
Period V	1954 1950		
1950-1954	69.8 ÷ 61.9	1.127425	3%
Period VI	1954 1925		
Variable Over-all Period	69.8 ÷ 18.5	3.772973	4½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CLXII
GROWTH RATES, 1925-1954
MINNESOTA MINING & MANUFACTURING COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	.8 ÷	.8	Unchanged	Unchanged
Period II	1940	1930		
1930-1940	4.2 ÷	.8	5.250000	18%
Period III	1945	1940		
1940-1945	3.7 ÷	4.2	Negative	Negative
Period IV	1950	1945		
1945-1950	20.3 ÷	3.7	5.486486	40½%
Period V	1954	1950		
1950-1954	24.6 ÷	20.3	1.211823	5%
Period VI	1954	1925		
Variable Over-all Period	24.6 ÷	.8	30.750000	12½%

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

TABLE CLXIII
GROWTH RATES, 1925-1954
PITTSBURGH CONSOLIDATION COAL COMPANY*

Periods	Net Profit After Taxes in Millions of Dollars		<u>Last Year</u> First Year	Increase Expressed as a Compound Annual Rate
Period I	1930	1925		
1925-1930	d1.4 ÷	d1.2	Negative	Negative
Period II	1940	1930		
1930-1940	1.3 ÷	d1.4	NC**	NC**
Period III	1945	1940		
1940-1945	3.2 ÷	1.3	2.461538	19½%
Period IV	1950	1945		
1945-1950	9.4 ÷	3.2	2.937500	24%
Period V	1954	1950		
1950-1954	12.1 ÷	9.4	1.287234	6½%
Period VI	1954	1925		
Variable Over-all Period	12.1 ÷	d1.2	NC**	NC**

* Sources: Moody's Industrial Manuals, 1925-1955.
Standard & Poor's Listed Stock Reports, 1956.

** NC, cannot be calculated because of deficit.

d = deficit.

Also, from a practical point of view, many of the rates of growth could not be calculated because of a deficit or loss during one of the key years of the particular economic period under consideration.

Much of the net profit data for the key years were not available because it was not published in the annual report to stockholders; or the particular company in question may have been originally incorporated some time after the first key year of 1925.

CHAPTER V

SCORING OF THE COMPOUND ANNUAL RATES OF GROWTH, PRESENTED IN THE INDIVIDUAL COMPANY TABLES, CONTAINED IN CHAPTER IV

The concept of economic growth is the theme of this study and the series of studies of which it is a part, but the primary question is - what constitutes growth? Growth, as defined in this study, is a rate of economic progress or expansion in excess of the rate of economic progress or expansion for the United States economy as a whole. What then, is the rate of economic progress or expansion for the United States economy as a whole and how does this rate compare with the individual company growth rates calculated in this study.

No one figure could possibly be considered as the exact rate of economic progress or expansion for the nation's economy as a whole, but the compound annual rate of increase of gross national product is a very representative calculation. Consequently, the increase in gross national product, calculated on a compound annual rate basis, is considered as the base or starting point for any considerations of individual company growth.

A further refinement of the theory of increase in gross national product involves the calculation of the increase of gross national product during definite economic periods or epochs. In order to illustrate the compound annual rates of increase of gross national product during pre-selected and definite economic epochs, Table CLXIV is presented.

Table CLXIV indicates that the gross national product did not increase during Period I - 1925-1930, but actually decreased. The compound annual rates of increase of gross national product were, during Period II - 1930-1940, 1.0 per cent; Period III - 1940-1945, 16.5 per cent; Period IV - 1945-1950, 6.0 per cent; Period V - 1950-1954, 6.0 per cent and Period VI - 1925-1954 (usually), 5.0 per cent.

Since growth is defined in this study as a rate of economic progress or expansion in excess of the rate of economic progress or expansion for the nation's economy as a whole and since the compound annual rate of increase of gross national product is considered to be a very good representation of the rate of economic progress or expansion for the nation's economy as a whole, then logically, any company having a compound annual rate of increase in net profit after taxes greater than the compound annual rate of increase in gross national product during a like economic period, could truly be termed a "growth company."

Continuing with this line of reasoning, the idea of scoring each of the companies employed, based on the compound

TABLE CLXIV

GROSS NATIONAL PRODUCT EXPRESSED AS A COMPOUND
ANNUAL RATE FOR SELECTED PERIODS, 1925-1954*

Periods	Gross National Product in Billions of Dollars		Increase Expressed as a Compound Annual Rate
Period I	1930	1925	Negative
1925-1930	91.1	93.6	
Period II	1940	1930	1%
1930-1940	100.6	91.1	
Period III	1945	1940	16½%
1940-1945	213.6	100.6	
Period IV	1950	1945	6%
1945-1950	285.1	213.6	
Period V	1954	1950	6%
1950-1954	360.5	285.1	
Period VI	1954	1925	5%
1925-1954 (usually)	360.5	93.6	

*Source: The Economic Almanac, 1956, p. 428.

annual rate of increase of gross national product, was conceived and instituted. The companies employed were scored on the basis of assigning the compound annual rate of increase in gross national product, during the particular economic period in question, a value of 1.00. Any company

having a compound annual rate of increase in net profit after taxes greater than the compound annual rate of increase in gross national product during the same economic period was given the proper mathematical score based on a score of 1.00 for the gross national product rate of increase.

In order to illustrate exactly how the scoring system operates, the scoring of the Bendix Aviation Corporation will be presented in detail.

Sample Scoring of the Bendix Aviation Corporation

Reference to Table CLXIV will disclose the fact that the gross national product increased at a compound annual rate of 1.0 per cent during Period II - 1930-1940. The net profit after taxes figure for the Bendix Aviation Corporation increased at a compound annual rate of 17.5 per cent during Period II - 1930-1940. Assigning a score of 1.00 to the compound annual rate of increase of 1.0 per cent in gross national product would result in a score of 17.50 for the Bendix Aviation Corporation during Period II - 1930-1940. This means that net profits of the Bendix Aviation Corporation grew 17.50 times more than the economy as a whole during Period II - 1930-1940.

During Period III - 1940-1945, the compound annual rate of increase in gross national product amounted to 16.5 per cent and the compound annual rate of increase in net profit after taxes for the Bendix Aviation Corporation amounted to

19.0 per cent. By assigning the rate of increase in gross national product of 16.5 per cent a score of 1.00 and dividing 19.0 per cent by 16.5 per cent, a score of 1.15 was obtained for the Bendix Aviation Corporation during Period III - 1940-1945. The same procedure was employed in scoring the Bendix Aviation Corporation during subsequent economic periods.

Scoring of all Companies

Table CLXV lists the scores of all companies, where data were available and could be calculated, for Period II - 1930-1940, Period III - 1940-1945, Period IV - 1945-1950 and Period V - 1950-1954.

Reference to Table CLXV will disclose the fact that Period I - 1925-1930 and Period VI - 1925-1954 (usually) were omitted. This was intentional. Since Table CLXV is concerned with scores based on the compound annual rate of increase of gross national product equal 1.00, inclusion of Period I - 1925-1930, in the scoring would be impossible since the gross national product did not increase during this period, but to the contrary - decreased.

Period VI - 1925-1954 (usually), is omitted because of the "over-all" nature of this period. The compound annual rate of increase of gross national product during Period VI was calculated on the assumption that the period of time covered was from the year 1925 through the year 1954 - this was not true in all cases. On many of the individual company tables,

TABLE CLXV

COMPANY GROWTH RATES, BY PERIODS AS CALCULATED
FROM NET PROFITS, SHOWN AS A MULTIPLE
OF SIMILAR GROWTH RATES OF GROSS
NATIONAL PRODUCT, 1930-1954

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
1. Agricultural Machinery:				
International Harvester Company	Neg.*	.06	3.67	Neg.*
Deere & Company	4.00	Neg.*	6.25	Neg.*
Allis-Chalmers Manufacturing Company	3.50	.42	4.42	.50
2. Aircraft Manufacturing:				
Boeing Airplane Company	NA**	4.52	1.75	6.00
Douglas Aircraft, Incorporated	32.50	Neg.*	Neg.*	6.33
United Aircraft Corporation	NA**	Neg.*	.08	3.08
North American Aviation, Incorporated	14.00	.94	Neg.*	4.75
Bendix Aviation Corporation	17.50	1.15	.33	1.75
3. Airlines:				
American Airlines, Incorporated	NA**	1.61	3.25	.42
Eastern Air Lines, Incorporated	NA**	.33	3.42	1.33
Trans World Airlines, Incorporated	NA**	NC***	5.67	1.17
United Air Lines, Incorporated	NA**	3.21	1.50	1.75

TABLE CLXV --Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
4. Automobiles:				
General Motors Corporation	2.50	Neg.*	5.75	Neg.*
Chrysler Corporation	62.00	Neg.*	4.67	Neg.*
5. Auto Accessories:				
Borg-Warner Corporation	11.50	.36	4.42	Neg.*
Electric Auto-Lite Company	2.00	Neg.*	6.08	Neg.*
Thompson Products, Incorporated	33.00	Neg.*	6.83	1.50
6. Banks:				
Chase National Bank of the City of New York	1.00	.85	Neg.*	1.75
Bank of America National Trust & Savings Association	NA**	Neg.*	2.42	.83
The First National Bank of Boston	NA**	NA**	.42	1.58
7. Beverages:				
The Coca-Cola Company	8.00	Neg.*	.83	Neg.*
Anheuser-Busch, Incorporated	NC***	Neg.*	3.08	Neg.*
Hiram Walker-Gooderham & Worts, Limited	10.00	.55	4.08	Neg.*
8. Building Supplies:				
Johns-Manville Corporation	6.00	Neg.*	5.83	Neg.*
Ideal Cement Company	3.50	Neg.*	6.25	1.75

TABLE CLXV --Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
American Radiator & Standard Sanitary Corporation	1.00	Neg.*	6.33	Neg.*
United States Gypsum, Corporation	11.50	Neg.*	7.33	.75
Weyerhaeuser Timber Company	NA**	.06	5.17	.33
United States Plywood Corporation	NA**	1.48	7.17	Neg.*
Crane Company	6.50	.06	4.08	Neg.*
9. Chemicals:				
E. I. du Pont de Nemours & Company	4.50	Neg.*	5.33	.42
Allied Chemical & Dye Corporation	Neg.*	Neg.*	2.83	.17
American Cyanamid Company	6.00	Neg.*	6.75	Neg.*
Union Carbide & Carbon Corporation	4.00	Neg.*	4.42	Neg.*
Dow Chemical Company	10.00	.24	6.00	Neg.*
Monsanto Chemical Company	22.00	Neg.*	6.25	Neg.*
Spencer Chemical Company	NA**	NA**	NA**	.67
10. Containers:				
American Can Company	Neg.*	Neg.*	3.58	Neg.*
Lily-Tulip Cup Corporation	NA ^a **	.18	6.33	1.25
Dixie Cup Company	NA**	.27	3.92	.83
11. Dairy Products:				
Pet Milk Company	4.00	.18	3.33	Neg.*
National Dairy Products Corporation	Neg.*	.30	3.00	Neg.*

TABLE CLXV --Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
The Borden Company	Neg.*	.58	1.83	.50
12. Drugs:				
American Home Products Corporation	2.50	.36	2.58	1.33
Abbott Laboratories	18.50	.58	4.25	Neg.*
Chas. Pfizer & Company, Incorporated	NA**	.70	6.50	1.92
Parke, Davis & Company	1.00	Neg.*	3.00	Neg.*
Merck & Company, Incorporated	20.00	Neg.*	6.08	.50
13. Electrical Equipment:				
General Electric Company	Neg.*	a	4.17	.83
Westinghouse Electric Corporation	5.00	.42	4.00	.08
Western Electric Company, Incorporated	7.50	Neg.*	3.42	1.58
Cutler-Hammer, Incorporated	1.00	a	4.17	.08
McGraw Electric Company	14.00	Neg.*	9.58	.83
Otis Elevator Company	Neg.*	Neg.*	5.25	Neg.*
Minneapolis-Honeywell Regulator Company	9.50	.39	4.92	.92
14. Foods:				
Swift & Company	Neg.*	.12	.92	.75
General Mills, Incorporated	Neg.*	.18	2.00	.33
Corn Products Refining Company	Neg.*	Neg.*	3.67	Neg.*
Continental Baking Company	Neg.*	Neg.*	2.50	a

TABLE CLXV--Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
Pillsbury Mills, Incorporated	Neg.*	.73	2.00	2.92
H. J. Heinz Company	NA**	a	7.75	.75
Hershey Chocolate Corporation	Neg.*	Neg.*	3.75	Neg.*
General Foods Corporation	Neg.*	Neg.*	2.50	.58
National Biscuit Company	Neg.*	Neg.*	2.50	Neg.*
California Packing Corporation	Neg.*	a	6.67	Neg.*
15. Food Chains:				
Safeway Stores, Incorporated	2.50	.06	3.92	Neg.*
The Kroger Company	7.50	.24	3.08	.50
16. Glass and Fiberglas:				
Pittsburgh Plate Glass Company	11.50	Neg.*	4.25	Neg.*
Libbey-Owens-Ford Glass Company	21.50	Neg.*	8.42	Neg.*
Owens-Illinois Glass Company	10.50	.24	3.75	Neg.*
Owens-Corning Fiberglas Corporation	NA**	1.48	6.58	.25
17. Insurance and Finance:				
Fidelity-Phenix Fire Insurance Company	NC***	5.30	Neg.*	.58
Travelers Insurance Company	Neg.*	.48	1.83	2.58
Associates Investment Company	10.50	Neg.*	7.25	1.58

TABLE CLXV--Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
Lincoln National Life Insurance Company	7.00	Neg.*	1.17	1.58
C. I. T. Financial Corporation	5.50	Neg.*	7.25	1.17
18. Machinery:				
Caterpillar Tractor Company	Neg.*	Neg.*	5.83	Neg.*
Cincinnati Milling Machine Company	NA**	Neg.*	.42	6.50
Ingersoll-Rand Company	3.50	Neg.*	4.08	.92
Outboard, Marine & Manufacturing Company	NA**	.12	3.33	2.75
Ex-Cell-O Corporation	NC***	Neg.*	2.25	4.17
Briggs & Stratton Corporation	2.50	Neg.*	4.25	2.75
19. Merchandising:				
Sears, Roebuck & Company	10.00	Neg.*	5.58	Neg.*
J. C. Penney Company	7.00	.09	3.50	Neg.*
F. W. Woolworth Company	Neg.*	Neg.*	1.58	Neg.*
Federated Department Stores, Incorporated	15.00	.55	5.00	.15
Montgomery Ward & Company	52.50	Neg.*	4.75	Neg.*
20. Metals:				
Aluminum Company of America	14.00	Neg.*	3.08	Neg.*
Kennecott Copper Corporation	11.00	Neg.*	4.00	Neg.*
National Lead Company	2.50	.09	5.42	1.42
Reynolds Metals Company	3.00	.79	3.92	2.08
Aluminum Limited	28.50	Neg.*	3.75	.33

TABLE CLXV--Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
21. Motion Pictures:				
Loew's Incorporated	Neg.*	1.09	Neg.*	Neg.*
Paramount Pictures, Corporation	Neg.*	.27	Neg.*	1.33
22. Natural Gas:				
El Paso Natural Gas Company	23.00	Neg.*	3.92	3.00
Panhandle Eastern Pipe Line Company	NA**	.70	.58	2.17
United Gas Corporation	NC***	.64	2.17	2.08
23. Office Equipment:				
International Business Machines, Corporation	2.50	.18	4.17	1.25
The National Cash Register Company	Neg.*	.06	6.75	.17
24. Paper and Pulp:				
International Paper Company	22.00	Neg.*	8.58	.33
Crown Zellerbach Cor- poration	6.50	Neg.*	4.42	1.08
Scott Paper Company	5.50	.06	7.92	1.75
Container Corporation of America	36.00	Neg.*	7.17	.50
St. Regis Paper Company	Neg.*	.06	6.58	1.08
Union Bag & Paper Cor- poration	NC***	Neg.*	7.50	Neg.*
25. Petroleum:				
Standard Oil Company (New Jersey)	11.50	.27	3.67	1.58

TABLE CLXV--Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
Socony Mobil Oil Company, Incorporated	8.00	.18	4.17	1.58
The Texas Company	7.50	.64	3.92	1.83
Standard Oil Company (California)	Neg.*	1.30	3.67	1.42
Cities Service Company	Neg.*	.55	5.08	Neg.*
The Ohio Oil Company	Neg.*	.60	3.00	.08
Skelly Oil Company	5.50	1.27	4.58	.17
Gulf Oil Corporation	7.50	.85	3.50	2.25
Standard Oil Company (Indiana)	Neg.*	.52	3.25	Neg.*
Shell Oil Company	NC***	.79	4.42	1.08
Phillips Petroleum Company	7.50	.88	3.00	1.67
The Atlantic Refining Company	8.50	Neg.*	15.58	.08
Signal Oil & Gas Company	2.50	1.06	5.08	.92
Amerada Petroleum Corporation	Neg.*	1.48	3.92	1.08
Creole Petroleum Corporation	15.00	3.75	3.50	1.58
26. Public Utilities:				
American Telephone & Telegraph Company	.50	Neg.*	2.42	2.00
American Gas & Electric Company	Neg.*	.57	.08	1.58
Middle South Utilities, Incorporated	NA**	NA**	NA**	2.08
Pacific Gas & Electric Company	2.00	Neg.*	1.92	2.33
Consolidated Edison Company of New York, Incorporated	Neg.*	Neg.*	.83	1.08
General Public Utilities Corporation	Neg.*	Neg.*	1.50	1.50

TABLE CLXV--Continued

Industry Groups with allied companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
Niagara Mohawk Power Corporation	NA**	.27	7.50	1.42
Texas Utilities Company	NA**	NA**	2.83	3.08
27. Radio and Television Broadcasting:				
Radio Corporation of America	5.00	.27	5.42	Neg.*
Columbia Broadcasting System, Incorporated	18.50	Neg.*	Neg.*	4.83
Philco Corporation	NA**	.12	7.58	Neg.*
Motorola, Incorporated	NA**	.76	11.83	Neg.*
28. Railroads:				
Southern Pacific Company	Neg.*	2.30	1.42	Neg.*
The Atchison, Topeka, & Santa Fe Railway Company	Neg.*	1.12	3.83	Neg.*
The Pennsylvania, Railroad Company	Neg.*	.42	Neg.*	Neg.*
Union Pacific Railroad Company	Neg.*	.67	2.67	Neg.*
New York Central Railroad Company	Neg.*	1.00	Neg.*	Neg.*
Seaboard Air Line Railroad Company	NC***	8.73	3.75	1.50
29. Rubber:				
Goodyear Tire & Rubber Company	.50	.48	3.08	1.33
Firestone Tire & Rubber Company	19.00	.82	2.50	.83
The B. F. Goodrich Company	Neg.*	.91	3.83	.50

TABLE CLXV--Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
30. Shoes:				
International Shoe Company	Neg.*	Neg.*	2.42	Neg.*
Melville Shoe Corporation	32.00	Neg.*	2.75	.58
General Shoe Corporation	10.50	.39	4.83	.92
31. Soap:				
The Procter & Gamble Company	2.50	Neg.*	4.25	Neg.*
Colgate-Palmolive Company	Neg.*	.73	2.92	Neg.*
32. Steel:				
United States Steel Corporation	Neg.*	Neg.*	5.00	Neg.*
Bethlehem Steel Corporation	7.50	Neg.*	4.75	.33
Republic Steel Corporation	NC***	Neg.*	7.75	Neg.**
Armco Steel Corporation	38.00	.73	4.75	Neg.*
Youngstown Sheet & Tube Company	4.50	Neg.*	6.67	Neg.*
Inland Steel Company	8.50	Neg.*	5.17	.33
33. Textiles:				
J. P. Stevens & Company, Incorporated	NA**	NA**	8.83	Neg.*
Burlington Industries, Incorporated	NA**	2.48	3.92	Neg.*
M. Lowenstein & Sons Incorporated	NA**	.24	6.42	Neg.*

TABLE CLXV--Continued

Industry Groups with Allied Companies	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
Pepperell Manufacturing Company	6.50	.64	3.25	Neg.*
34. Tobacco:				
The American Tobacco Company	Neg.*	Neg.*	2.67	.17
Liggett & Myers Tobacco Company	Neg.*	Neg.*	2.42	Neg.*
R. J. Reynolds Tobacco Company	Neg.*	Neg.*	2.67	.42
35. Miscellaneous:				
Eastman Kodak Company	Neg.*	.61	2.25	.50
Minnesota Mining & Manufacturing Company	18.00	Neg.*	6.75	.83
Pittsburgh Consolidation Coal Company	NC***	1.18	4.00	1.08

*Neg., negative. Decrease in net profit during period.

**NA, not available.

***NC, cannot be calculated because of a deficit or net loss during one of the key years.

a = unchanged.

the earliest key year for which net profit data were available, through the year 1954, was considered to be Period VI. Therefore, due to the varying availability of net profit data and the varying period of time covered by Period VI, the compound

annual rate of increase of gross national product was not, in all cases, directly comparable to the compound annual rates of increase in net profit after taxes because the period of time covered was not always the same.

Of the 162 companies surveyed, during Period II - 1930-1940, net profit after taxes data for 26 of the companies were not available. For 44 of the companies surveyed, net profit after taxes decreased during the period. The rates of growth for 9 of the companies could not be calculated because of a deficit. Only 2 of the companies had a growth rate less than 1.00 which is considered the rate of growth of the economy as a whole. Only 1 company was unchanged as to growth during the period. However, 80 companies had a rate of growth of 1.00 or greater during the period.

Of the 162 companies surveyed, during Period III - 1940-1945, net profit after taxes data for five of the companies were not available. For 69 of the companies, net profit after taxes decreased during the period. The rate of growth of 1 of the companies could not be calculated because of a deficit. Only 4 companies were unchanged as to growth during the period, while 64 of the companies had a growth rate less than 1.00 (the growth rate of the economy). Only 19 companies had a growth rate of 1.00 or greater during this period.

Of the 162 companies surveyed, during Period IV - 1945-1950, net profit after taxes data were not available for 2 of the companies. Also, 9 of the companies were negative as

to growth in net profit during the period and 9 companies had a growth rate of less than 1.00. None of the companies surveyed during this period had growth rates that could not be calculated because of a deficit, or growth rates that were unchanged during the period. Out of 162 companies, 142 had a compound annual rate of growth in net profit after taxes equal to or greater than 1.00 which is the rate of growth of the economy as a whole.

Of the 162 companies surveyed, during Period V - 1950-1954, net profit after taxes data were available for all companies and rates of growth were calculable for all companies whose net profit after taxes increased during the period. However, 63 of the companies were negative as to growth during the period. Also, 43 of the companies had a rate of growth less than 1.00, while 55 of the companies had a rate of growth equal to or greater than 1.00. Only 1 company was unchanged as to growth during the period.

In order to summarize the scores found in Table CLXV, Table CLXVI, arranging the scores shown during Period II - 1930-1940 in descending order, is presented. Table CLXVI also lists the relative rank of each company based on that company's score during the period.

In Table CLXVI, 80 companies received scores. The 5 highest ranking companies are (1) Chrysler Corporation, 62.00; (2) Montgomery Ward & Company, 52.50; (3) Armco Steel Corporation,

TABLE CLXVI

RANKING OF COMPANIES WHOSE NET PROFIT GROWTH
RATE EQUALED OR EXCEEDED THE GROWTH
RATE OF THE GROSS NATIONAL PRODUCT
DURING PERIOD II - 1930-1940*

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Chrysler Corporation	62.00	1
Montgomery Ward & Company	52.50	2
Armco Steel Corporation	38.00	3
Container Corporation of America	36.00	4
Thompson Products, Incorporated	33.00	5
Douglas Aircraft, Incorporated	32.50	6
Melville Shoe Corporation	32.00	7
Aluminium Limited	28.50	8
El Paso Natural Gas Company	23.00	9
International Paper Company	22.00	10
Monsanto Chemical Company	22.00	10
Libbey-Owens-Ford Glass Company	21.50	11
Merck & Company, Incorporated	20.00	12
Firestone Tire & Rubber Company	19.00	13
Columbia Broadcasting System, Incorporated	18.50	14
Abbott Laboratories	18.50	14
Minnesota Mining & Manufacturing Company	18.00	15

TABLE CLXVI--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Bendix Aviation Corporation	17.50	16
Creole Petroleum Corporation	15.00	17
Federated Department Stores, Incorporated	15.00	17
North American Aviation, Incorporated	14.00	18
McGraw Electric Company	14.00	18
Aluminum Company of America	14.00	18
Borg-Warner Corporation	11.50	19
United States Gypsum Corporation	11.50	19
Standard Oil Company (New Jersey)	11.50	19
Pittsburgh Plate Glass Company	11.50	19
Kennecott Copper Corporations	11.00	20
Owens-Illinois Glass Company	10.50	21
Associates Investment Company	10.50	21
General Shoe Corporation	10.50	21
Hiram Walker, Gooderham & Worts, Limited	10.00	22
Dow Chemical Company	10.00	22
Sears, Roebuck & Company	10.00	22
Minneapolis-Honeywell Regulator Company	9.50	23
Inland Steel Company	8.50	24

TABLE CLXVI--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
The Atlantic Refining Company	8.50	24
Socony Mobil Oil Company	8.00	25
The Coca-Cola Company	8.00	25
Bethlehem Steel Company	7.50	26
Western Electric Company, Incorporated	7.50	26
The Kroger Company	7.50	26
The Texas Company	7.50	26
Gulf Oil Corporation	7.50	26
Phillips Petroleum Company	7.50	26
Lincoln National Life Insurance Company	7.00	27
J. C. Penney Company	7.00	27
Crane Company	6.50	28
Crown Zellerbach Corporation	6.50	28
Pepperell Manufacturing Company	6.50	28
Johns-Manville Corporation	6.00	29
American Cyanamid Company	6.00	29
Scott Paper Company	5.50	30
Skelly Oil Company	5.50	30
C. I. T. Financial Corporation	5.50	30

TABLE CLXVI--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Radio Corporation of America	5.00	31
Westinghouse Electric Corporation	5.00	31
E. I. du Pont de Nemours & Company	4.50	32
Youngstown Sheet & Tube Company	4.50	32
Deere & Company	4.00	33
Union Carbide & Carbon Company	4.00	33
Pet Milk Company	4.00	33
Allis-Chalmers Manufacturing Company	3.50	34
Ideal Cement Company	3.50	34
Ingersoll-Rand Company	3.50	34
Reynolds Metals Company	3.00	35
General Motors Corporation	2.50	36
American Home Products Corporation	2.50	36
Safeway Stores, Incorporated	2.50	36
Briggs & Stratton Corporation	2.50	36
National Lead Company	2.50	36
International Business Machines, Corporation	2.50	36
Signal Oil & Gas Company	2.50	36
The Procter & Gamble Company	2.50	36

TABLE CLXVI--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Electric Auto-Lite Company	2.00	37
Pacific Gas & Electric Company	2.00	37
Chase National Bank of the City of New York	1.00	38
American Radiator & Standard Sanitary Corporation	1.00	38
Parke, Davis & Company	1.00	38
Cutler-Hammer, Incorporated	1.00	38

* Source: Table CLXV.

38.00; (4) Container Corporation of America, 36.00 and (5) Thompson Products, Incorporated, 33.00.

In order to summarize the scores found in Table CLXV, Table CLXVII, arranging the score shown during Period III - 1940-1945 in descending order, is presented. Table CLXVII also lists the relative rank of each company based on that company's score during the period.

In Table CLXVII, only 19 companies had a score equal to or greater than 1.00. The 5 highest ranking companies are: (1) Seaboard Air Line Railroad Company, 8.73; (2) Fidelity-Phenix Fire Insurance Company, 5.30; (3) Boeing Airplane

TABLE CLXVII

RANKING OF COMPANIES WHOSE NET PROFIT GROWTH
RATE EQUALED OR EXCEEDED THE GROWTH
RATE OF THE GROSS NATIONAL PRODUCT
DURING PERIOD III- 1940-1945*

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Seaboard Air Line Railroad Company	8.73	1
Fidelity-Phenix Fire Insurance Company	5.30	2
Boeing Airplane Company	4.52	3
Creole Petroleum Corporation	3.45	4
United Air Lines, Incorporated	3.21	5
Burlington Industries, Incor- porated	2.48	6
Southern Pacific Company	2.30	7
American Airlines, Incorporated	1.61	8
United States Plywood Corporation	1.48	9
Owens-Corning Fiberglas Corpor- ation	1.48	9
Amerada Petroleum Corporation	1.48	9
Standard Oil Company (California)	1.30	10
Skelly Oil Company	1.27	11
Pittsburgh Consolidation Coal Company	1.18	12
Bendix Aviation Corporation	1.15	13

TABLE CLXVII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
The Atchison, Topeka & Santa Fe Railway Company	1.12	14
Loew's Incorporated	1.09	15
Signal Oil & Gas Company	1.06	16
New York Central Railroad Com- pany	1.00	17

* Source: Table CLXV.

Company, 4.52; (4) Creole Petroleum Corporation, 3.45 and (5) United Airlines, Incorporated, 3.21.

In order to summarize the scores found in Table CLXV, Table CLXVIII, ranking the scores shown during Period IV - 1945-1950 in descending order, is presented. Table CLXVIII also lists the relative rank of each company based on that company's score during the period.

In Table CLXVIII, 142 companies were ranked. The 5 highest ranking companies are: (1) The Atlantic Refining Company, 15.58; (2) Motorola Incorporated, 11.83; (3) McGraw Electric Company, 9.58; (4) Stevens & Company, Incorporated, 8.83 and (5) International Paper Company, 8.58.

TABLE CLXVIII

RANKING OF COMPANIES WHOSE NET PROFIT GROWTH
RATE EQUALED OR EXCEEDED THE GROWTH
RATE OF THE GROSS NATIONAL PRODUCT
DURING PERIOD IV --1945-1950*

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
The Atlantic Refining Company	15.58	1
Motorola, Incorporated	11.83	2
McGraw Electric Company	9.58	3
J. P. Stevens & Company, Incorporated	8.83	4
International Paper Company	8.58	5
Libbey-Owens-Ford Glass Company	8.42	6
Scott Paper Company	7.92	7
H. J. Heinz Company	7.75	8
Republic Steel Corporation	7.75	8
Philco Corporation	7.58	9
Union Bag & Paper Company	7.50	10
Niagara Mohawk Power Corporation	7.50	10
United States Gypsum, Corporation	7.33	11
Associates Investment Company	7.25	12
C. I. T. Financial Corporation	7.25	12
Container Corporation of America	7.17	13
United States Plywood Corporation	7.17	13
Thompson Products, Incorporated	6.83	14

TABLE CLXVIII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Minnesota Mining & Manufactur- ing Company	6.75	15
American Cyanamid Company	6.75	15
The National Cash Register Company	6.75	15
Youngstown Sheet & Tube Company	6.67	16
California Packing Corporation	6.67	16
Owens-Corning Fiberglas Corpor- ation	6.58	17
St. Regis Paper Company	6.58	17
Chas. Pfizer & Company, Incor- porated	6.50	18
M. Lowenstein & Sons, Incorporated	6.42	19
Lily-Tulip Cup Corporation	6.33	20
American Radiator & Standard Sanitary Corporation	6.33	20
Deere & Company	6.25	21
Ideal Cement Company	6.25	21
Monsanto Chemical Company	6.25	21
Electric Auto-Lite Company	6.08	22
Merck & Company, Incorporated	6.08	22
Dow Chemical Company	6.00	23
Johns-Manville Corporation	5.83	24

TABLE CLXVIII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Caterpillar Tractor Company	5.83	24
General Motors Corporation	5.75	25
Trans World Airlines, Incorporated	5.67	26
Sears, Roebuck & Company	5.58	27
Radio Corporation of America	5.42	28
National Lead Company	5.42	28
E. I. du Pont de Nemours & Com- pany	5.33	29
Otis Elevator Company	5.25	30
Inland Steel Company	5.17	31
Weyerhaeuser Timber Company	5.17	31
Cities Service Company	5.08	32
Signal Oil & Gas Company	5.08	32
United States Steel Corporation	5.00	33
Federated Department Stores, Incorporated	5.00	33
Minneapolis-Honeywell Regulator Company	4.92	34
General Shoe Corporation	4.83	35
Bethlehem Steel Corporation	4.75	36
Armco Steel Corporation	4.75	36

TABLE CLXVIII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Montgomery Ward & Company	4.75	36
Chrysler Corporation	4.67	37
Skelly Oil Company	4.58	38
Allis-Chalmers Manufacturing Company	4.42	39
Borg-Warner Corporation	4.42	39
Union Carbide & Carbon Corpor- ation	4.42	39
Crown Zellerbach Corporation	4.42	39
Shell Oil Company	4.42	39
Abbott Laboratories	4.25	40
Pittsburgh Plate Glass Company	4.25	40
Briggs & Stratton Corporation	4.25	40
The Procter & Gamble Company	4.25	40
General Electric Company	4.17	41
Cutler-Hammer, Incorporated	4.17	41
International Business Machines Corporation	4.17	41
Socony Mobil Oil Company, Incorporated	4.17	41
Hiram Walker-Gooderham & Worts Limited	4.08	42
Ingersoll-Rand Company	4.08	42

TABLE CLXVIII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Crane Company	4.08	42
Pittsburgh Consolidation Coal Company	4.00	43
Kennecott Copper Corporation	4.00	43
Westinghouse Electric Corpora- tion	4.00	43
Burlington Industries, Incor- porated	3.92	44
Dixie Cup Company	3.92	44
Reynolds Metals Company	3.92	44
El Paso Natural Gas Company	3.92	44
The Texas Company	3.92	44
Safeway Stores, Incorporated	3.92	44
Amerada Petroleum Corporation	3.92	44
The B. F. Goodrich Company	3.83	45
The Atchison, Topeka & Santa Fe Railway Company	3.83	45
Hershey Chocolate Corporation	3.75	46
Owens-Illinois Glass Company	3.75	46
Aluminium Limited	3.75	46
Seaboard Air Line Railroad Company	3.75	46
International Harvester Company	3.67	47

TABLE CLXVIII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Corn Products Refining Company	3.67	47
Standard Oil Company (California)	3.67	47
Standard Oil Company (New Jersey)	3.67	47
American Can Company	3.58	48
J. C. Penney Company	3.50	49
Gulf Oil Corporation	3.50	49
Creole Petroleum Corporation	3.50	49
Eastern Air Lines, Incorporated	3.42	50
Western Electric Company, Incorporated	3.42	50
Pet Milk Company	3.33	51
Outboard, Marine & Manufactur- ing Company	3.33	51
Standard Oil Company (Indiana)	3.25	52
Pepperell Manufacturing Company	3.25	52
American Airlines, Incorporated	3.25	52
Anheuser-Bush, Incorporated	3.08	53
The Kroger Company	3.08	53
Aluminum Company of America	3.08	53
Goodyear Tire & Rubber Company	3.08	53
National Dairy Products Cor- poration	3.00	54

TABLE CLXVIII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Parke, Davis & Company	3.00	54
The Ohio Oil Company	3.00	54
Phillips Petroleum Company	3.00	54
Colgate-Palmolive Company	2.92	55
Texas Utilities Company	2.83	56
Allied Chemical & Dye Corpora- tion	2.83	56
Melville Shoe Corporation	2.75	57
The American Tobacco Company	2.67	58
R. J. Reynolds Tobacco Company	2.67	58
Union Pacific Railroad Company	2.67	58
American Home Products Corpora- tion	2.58	59
Continental Baking Company	2.50	60
General Foods Corporation	2.50	60
National Biscuit Company	2.50	60
Firestone Tire & Rubber Company	2.50	60
Bank of America National Trust & Savings Association	2.42	61
American Telephone & Telegraph Company	2.42	61
International Shoe Company	2.42	61

TABLE CLXVIII--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Liggett & Myers Tobacco Company	2.42	61
Ex-Cell-O Corporation	2.25	62
Eastman Kodak Company	2.25	62
United Gas Corporation	2.17	63
General Mills, Incorporated	2.00	64
Pillsbury Mills, Incorporated	2.00	64
Pacific Gas & Electric Company	1.92	65
The Borden Company	1.83	66
Traveler's Insurance Company	1.83	66
Boeing Airplane Company	1.75	67
F. W. Woolworth Company	1.58	68
General Public Utilities Corpor- ation	1.50	69
United Air Lines, Incorporated	1.50	69
Southern Pacific Railway Company	1.42	70
Lincoln National Life Insurance Company	1.17	71

*Source: Table CLXV.

In order to summarize the scores found in Table CLXV,
Table CLXIX, arranging the scores shown during Period V -

TABLE CLXIX

RANKING OF COMPANIES WHOSE NET PROFIT GROWTH
RATE EQUALED OR EXCEEDED THE GROWTH
RATE OF THE GROSS NATIONAL PRODUCT
DURING PERIOD IV - 1950-1954*

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Cincinnati Milling Machine Company	6.50	1
Douglas Aircraft, Incorporated	6.33	2
Boeing Airplane Company	6.00	3
Columbia Broadcasting System, Incorporated	4.83	4
North American Aviation, Incor- porated	4.75	5
Ex-Cell-O Corporation	4.17	6
United Aircraft Corporation	3.08	7
Texas Utilities Company	3.08	7
El Paso Natural Gas Company	3.00	8
Pillsbury Mills, Incorporated	2.92	9
Outboard, Marine & Manufactur- ing Company	2.75	10
Briggs & Stratton Corporation	2.75	10
Traveler's Insurance Company	2.58	11
Pacific Gas & Electric Company	2.33	12
Gulf Oil Corporation	2.25	13
Panhandle Eastern Pipe Line Company	2.17	14

TABLE CLXIX--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Reynolds Metals Company	2.08	15
United Gas Corporation	2.08	15
Middle South Utilities, Incorporated	2.08	15
American Telephone & Telegraph Company	2.00	16
Chas. Pfizer & Company, Incorporated	1.92	17
The Texas Company	1.83	18
Bendix Aviation Corporation	1.75	19
United Air Lines, Incorporated	1.75	19
Chase National Bank of the City of New York	1.75	19
Ideal Cement Company	1.75	19
Scott Paper Company	1.75	19
Phillips Petroleum Company	1.67	20
The First National Bank of Boston	1.58	21
Associates Investment Company	1.58	21
Western Electric Company, Incorporated	1.58	21
Standard Oil Company (New Jersey)	1.58	21
Socony Mobil Oil Incorporated	1.58	21
Creole Petroleum Corporation	1.58	21

TABLE CLXIX--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
American Gas & Electric Company	1.58	21
Seaboard Air Line Railroad Company	1.50	22
General Public Utilities Corporation	1.50	22
Thompson Products, Incorporated	1.50	22
National Lead Company	1.42	23
Standard Oil Company (California)	1.42	23
Niagara Mohawk Power Corporation	1.42	23
Paramount Pictures Corporation	1.33	24
Goodyear Tire & Rubber Company	1.33	24
American Home Products Corporation	1.33	24
Eastern Air Lines, Incorporated	1.33	24
Lily-Tulip Cup Corporation	1.25	25
International Business Machines Corporation	1.25	25
C. I. T. Financial Corporation	1.17	26
Trans World Airlines, Incorporated	1.17	26
Crown Zellerbach Corporation	1.08	27
St. Regis Paper Company	1.08	27
Shell Oil Company	1.08	27

TABLE CLXIX--Continued

Companies	Net Profit Growth Rate as a Multiple of GNP Growth Rate	Relative Rank
Consolidated Edison Company of New York, Incorporated	1.08	27
Pittsburgh Consolidation Coal Company	1.08	27
Amerada Petroleum Corporation	1.08	27

*Source: Table CLXV.

1950-1954 in descending order, is presented. Table CLXIX also lists the relative rank of each company based on that company's score during the period.

In Table CLXIX, 55 companies received a score greater than 1.00. The 5 highest ranking companies are: (1) Cincinnati Milling Machine Company, 6.50; (2) Douglas Aircraft, Incorporated, 6.33; (3) Boeing Airplane Company, 6.00; (4) Columbia Broadcasting System, Incorporated, 4.83 and (5) North American Aviation, Incorporated, 4.75.

In Tables CLXVI, CLXVII, CLXVIII and CLXIX, only scores of 1.00 or greater are listed. Since growth is defined as a rate of economic expansion in excess of the rate of economic expansion for the nation's economy as a whole and since the compound annual rate of increase in gross national product

is considered to be the rate of economic expansion for the nation as a whole, then any company having a rate of growth less than the rate of growth of the gross national product is not considered a growth company and is therefore not listed as such.

Although scores less than 1.00 are not listed on the ranking tables, these scores were arranged in descending order down to and including the lowest positive score. This was done in order to provide the relative rank of a company that had a positive rate of growth less than 1.00 which is considered the rate of growth of the economy.

Incidentally, companies having the same score were assigned the same relative rank. Therefore, it is possible for two or more companies to be ranked number one.

Further reference to Tables CLXVI, CLXVII, CLXVIII and CLXIX will reveal the fact that of the ten highest ranking companies in each of the economic periods employed in the scoring, only four appeared twice - of these four, two are aircraft manufacturers. The four companies are as follows: (1) Douglas Aircraft, Incorporated, (2) Boeing Airplane Company, (3) El Paso Natural Gas Company and (4) International Paper Company.

As a matter of interest and to further refine the scoring and ranking of the companies surveyed, Tables CLXX, CLXXI, CLXXII, CLXXIII and CLXXIV are presented. The purpose of

these tables is to present, for previous or subsequent economic periods, the relative rankings of each of the ten best performing companies in each of the first five economic periods employed. In other words, the ten best performing and highest ranking companies during Period I - 1925-1930 (ranked according to rates of growth rather than scores based on gross national product during Period I - 1925-1930), are listed; then, the rankings of each of these companies during Period II, Period III, Period IV and Period V are presented.

Continuing, the ten highest ranking and best performing companies during Period II - 1930-1940, are listed; then, the rankings of each of these companies during Period III, Period IV and Period V are presented. The same procedure is followed throughout the remaining economic periods with the exception of Period V - 1950-1954. For Period V - 1950-1954, the ten highest ranking and best performing companies are listed; then, the rankings of each of the companies during Period I, Period II, Period III and Period IV are presented. Period VI - 1925-1954 (usually) was omitted because the period of time covered by this period is not always the same for all companies; therefore, rates during this period are not always comparable.

In order to present the relative rankings, during subsequent economic periods, of the ten best performing companies during Period I - 1925-1930, Table CLXX is presented.

Table CLXX points out the fact that the Ideal Cement Company ranked number one during Period I - 1925-1930, but

TABLE CLXX

RELATIVE RANK, DURING SUBSEQUENT ECONOMIC PERIODS, OF EACH OF THE TEN BEST PERFORMING COMPANIES IN PERIOD I -- 1925-1930*

Ten Best Performing Companies During Period I - 1925-1930	Rank Period I 1925-1930	Subsequent Rank During				
		Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954	
Ideal Cement Company	1	34	Neg. **	21	19	
General Public Utilities Corp.	2	Neg. **	Neg. **	69	22	
Safeway Stores, Incorp.	3	36	47	44	Neg. **	
National Dairy Products Corp.	4	Neg. **	41	54	Neg. **	
Scott Paper Company	4	30	47	7	19	
St. Regis Paper Company	5	Neg. **	47	17	27	
General Mills, Incorp.	6	Neg. **	44	64	35	
General Foods Corporation	6	Neg. **	Neg. **	60	32	
Cities Service Company	7	Neg. **	33	32	Neg. **	
The Borden Company	8	Neg. **	31	66	33	
American Cyanamid Company	9	29	Neg. **	15	Neg. **	
Paramount Pictures	10	Neg. **	42	Neg. **	24	

*Source: Tables CLXVI, CLXVII, CLXVIII and CLXIX.

**Neg., negative. Decrease in net profit during period.

during Period II - 1930-1940, it ranked number thirty-four. During Period III - 1940-1945, Ideal Cement Company was not ranked at all because net profit during the period decreased. However, during Period IV - 1945-1950, the company ranked number twenty-one, while during Period V - 1950-1954, the relative rank was number nineteen.

In order to present the relative rankings, during subsequent economic periods, of the ten best performing companies during Period II - 1930-1940, Table CLXXI is presented.

TABLE CLXXI

RELATIVE RANK, DURING SUBSEQUENT ECONOMIC PERIODS,
OF EACH OF THE TEN BEST PERFORMING COMPANIES
IN PERIOD II - 1930-1940*

Ten Best Performing Companies During Period II - 1930-1940	Rank	Subsequent Rank During			
	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954	
Chrysler Corporation	1	Neg. **	37	Neg. **	
Montgomery Ward & Co.	2	Neg. **	36	Neg. **	
Armco Steel Corp.	3	25	36	Neg. **	
Container Corporation of America	4	Neg. **	13	33	
Thompson Products, Incorp.	5	Neg. **	14	22	
Douglas Aircraft, Incorp.	6	Neg. **	Neg. **	2	
Melville Shoe Corp.	7	Neg. **	57	32	
Aluminium Limited	8	Neg. **	46	35	
El Paso Natural Gas Co.	9	Neg. **	44	8	
International Paper Co.	10	Neg. **	5	35	
Monsanto Chemical Co.	10	Neg. **	21	Neg. **	

*Source: Tables CLXVI, CLXVII, CLXVIII and CLXIX.

**Neg., Negative. Decrease in net profit during period.

Reference to Table CLXXI discloses the fact that Armco Steel Corporation ranked number three during Period II - 1930-1940; number twenty-five during Period III - 1940-1945; number thirty-six during Period IV - 1945-1950 and was negative as to growth in net profit after taxes during Period V - 1950-1954.

In order to present the relative rankings, during subsequent economic periods, of the ten best performing companies during Period III - 1940-1945, Table CLXXII is presented.

TABLE CLXXII

RELATIVE RANK, DURING SUBSEQUENT ECONOMIC PERIODS,
OF EACH OF THE TEN BEST PERFORMING COMPANIES
IN PERIOD III - 1940-1945*

Ten Best Performing Companies During Period III - 1940-1945	Rank	Subsequent Rank During	
	Period III 1940-1945	Period IV 1945-1950	Period V 1950-1954
Seaboard Air Line Railroad Co.	1.	46	22
Fidelity-Phenix Fire Ins. Co.	2	Neg.**	32
Boeing Airplane Company	3	67	3
Creole Petroleum Corp.	4	49	21
United Air Lines, Incorp.	5	69	19
Burlington Industries, Incorp.	6	44	Neg.**
Southern Pacific Rlwy Co.	7	70	Neg.**
American Airlines, Incorp.	8	52	34
United States Plywood Corp.	9	13	Neg.**
Owens-Corning Fiberglas Corp.	9	17	36
Amerada Petroleum Corp.	9	44	27
Standard Oil Company (California)	10	47	23

*Source: Tables CLXVI, CLXVII, CLXVIII and CLXIX..

**Neg., Negative. Decrease in net profit during period.

In Table CLXXII, Seaboard Air Line Railroad Company ranked number one during Period III - 1940-1945, however, the rank of this company dropped to number forty-six during Period IV - 1945-1950 and rose to number twenty-two during Period V - 1950-1954.

In order to present the relative rankings, during Period V -1950-1954, of the ten best performing companies during Period IV - 1945-1950, Table CLXXIII is presented.

TABLE CLXXIII

RELATIVE RANK, DURING PERIOD V - 1950-1954, OF
EACH OF THE TEN BEST PERFORMING COMPANIES
IN PERIOD IV - 1945-1950*

Ten Best Performing Companies During Period IV - 1945-1950	Rank	Subsequent Rank During
	Period IV 1945-1950	Period V 1950-1954
The Atlantic Refining Company	1	38
Motorola, Incorporated	2	Neg.**
McGraw Electric Company	3	29
J. P. Stevens & Company, Incorp.	4	Neg.**
International Paper Company	5	35
Libbey-Owens-Ford Glass Company	6	Neg.**
Scott Paper Company	7	19
H. J. Heinz Company	8	30
Republic Steel Corporation	8	Neg.**
Philco Corporation	9	Neg.**
Union Bag & Paper Company	10	Neg.**
Niagara Mohawk Power Corporation	10	23

* Source: Tables CLXVI, CLXVII, CLXVIII and CLXIX.

** Neg., Negative. Decrease in net profit during period.

In regard to Table CLXXIII, The Atlantic Refining Company ranked number one during Period IV - 1945-1950, but during Period V - 1950-1954, this rank had dropped to number thirty-eight.

In order to provide a brief glance at past performance, Table CLXXIV, which presents the relative rankings during Period I, Period II, Period III and Period IV of the ten best performing companies during Period V - 1950-1954, is presented.

Reference to Table CLXXIV reveals the fact that Cincinnati Milling Machine Company ranked number one during Period V - 1950-1954. However, this company was not ranked at all during Period I - 1925-1930, Period II - 1930-1940, or Period III - 1940-1945. During Period IV - 1945-1950, the relative rank of Cincinnati Milling Machine Company was only number seventy-five.

Summary

The purpose of Chapter V is to evaluate, by means of a scoring system, the compound annual rates of growth presented in the individual company tables contained in Chapter IV.

The scoring system decided upon is one based on the compound annual rate of increase of gross national product during each of the economic periods employed being assigned a mathematical score of 1.00. Any rate of increase in net profit after taxes greater than the increase in gross national product during the same economic period was given the proper

TABLE CLXXIV

RELATIVE RANK, DURING PREVIOUS ECONOMIC PERIODS, OF EACH OF THE
TEN BEST PERFORMING COMPANIES IN PERIOD V - 1950-1954*

Rank	Previous Ranking During				
	Period V 1950-1954	Period I 1925-1930	Period II 1930-1940	Period III 1940-1945	Period IV 1945-1950
1	NA***	NA***	NA***	Neg.**	75**
2	NA***	NA***	6	Neg.**	Neg.**
3	NA***	NA***	NA***	3	67
4	NA***	NA***	14	Neg.**	Neg.**
5	NA***	NA***	18	18	Neg.**
6	NA***	NA***	Nca	Neg.**	62
7	NA***	NA***	NA***	Neg.**	77
7	NA***	NA***	NA***	NA***	56
8	NA	NA	9	Neg.**	44
9	21	21	Neg.**	25	64
10	NA***	NA***	NA***	45	51
10	NA***	NA***	36	Neg.**	40

*Source: Tables CLXVI, CLXVII, CLXVIII and CLXIX.

**Neg., Negative. Decrease in net profit during period.

***NA, not available. Nca, cannot be calculated because of deficit.

mathematical score. In this respect, only scores greater than 1.00 are considered as indicative of growth companies.

The compound annual rates of increase in gross national product were: (1) during Period I - 1925-1930, negative; (2) during Period II - 1930-1940, 1.0 per cent; (3) during Period III - 1940-1945, 16.5 per cent; (4) during Period IV - 1945-1950, 6.0 per cent; (5) during Period V - 1950-1954, 6.0 per cent and (6) during Period VI - 1925-1954 (usually), 5.0 per cent. Each of these rates was assigned a score of 1.00.

Raw scores, whether greater than, equal to, or less than 1.00, were presented for all companies for which net profit data were available and positive as to increase during the period. This presentation of raw scores included Period II - 1930-1940, Period III - 1940-1945, Period IV - 1945-1950 and Period V - 1950-1954. Period I - 1925-1930 and Period VI - 1925-1954 (usually) were not included in the scoring.

The scores for each of the economic periods employed were arranged in descending order and the companies were thereby ranked.

After the companies had been scored and ranked, relative rankings, during previous and subsequent economic periods, of the ten best performing companies during each of the economic periods, were presented.

CHAPTER VI

SUMMARY

This study is the third in a series of five such studies, recently undertaken in the School of Business of North Texas State College, involving the concept of economic growth. Growth is defined in these studies as a rate of economic progress or expansion in excess of the rate of economic progress or expansion for the United States economy as a whole.

The first study in the series is concerned with growth in sales calculated on a constant base year.¹ (1923 in most cases.) The second study is concerned with growth in sales calculated not on the basis of a constant base year, but on the basis of a compound annual rate of increase during definite economic epochs.² This study is the third study in the series and is concerned with the compound annual rates of growth, during definite economic epochs, in net profit after taxes. The fourth study in the series is concerned with the compound annual rates of increase, during definite economic epochs,

¹Donald Earl Vaughn, "A Study of the Sales Growth of 100 Large Corporations," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas, January, 1955.

²Bill H. Reasoner, "Growth Based on Corporate Sales for Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas (expected date of completion, August, 1956).

in units of physical production.³ The fifth and final study in the series is concerned with appraising, criticizing and summarizing the previous four studies.⁴

The problem involved in this study is threefold: (1) to determine what constitutes growth, (2) to determine which corporations are growing and (3) to determine, as nearly as possible, the growth characteristics of the corporations employed.

In order to determine a company's characteristics in regard to growth during such times as war, depressions, and periods of peace, definite periods of time, corresponding with well known economic epochs, were selected and employed in calculating compound annual rates of growth. These periods of time were selected not only to correspond with well known economic epochs, but to also correspond, as nearly as possible, with periods during which the change in the purchasing power of the dollar was either negligible or sufficiently marked so that adjustment could be made to rule out the factor of inflation in any considerations of growth.

³James A. Bishop, "Growth Based on Units of Physical Production for Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas (expected date of completion unknown).

⁴Kenneth A. McCrady, "Appraisal of Over-All Economic Growth During Selected Periods - 1925-1954," unpublished master's thesis, School of Business, North Texas State College, Denton, Texas (expected date of completion unknown).

The economic periods decided upon are:

Period I - 1925-1930

Period II - 1930-1940

Period III - 1940-1945

Period IV - 1945-1950

Period V --1950-1954

Period VI - 1925-1954 (usually)

The number of companies surveyed was limited to 162 companies contained in 34 basic industry groups. Favoritism in selecting the corporations was shown to those that were specifically recommended as growth companies by Merrill, Lynch, Pierce, Fenner and Beane.⁵

Compound annual rates of growth, during definite economic epochs, for each of the 162 corporations were calculated and presented. In ascertaining these rates, compound interest tables were employed.⁶ For rates of growth that fell outside the compound interest tables, the following formula was derived:

$$\text{rate} + 1 = \sqrt[n]{\frac{\text{Net profit data for the first year in period}}{\text{Net profit data for the last year in period}}}$$

n = the number of years in the particular economic period.

⁵Growth Stocks (New York, 1956).

⁶Charles H. Gushee, editor, Financial Compound Interest and Annuity Tables (Boston, 1942), pp. 1-884.

As previously stated, growth is defined in this study as a rate of economic progress or expansion in excess of the rate of economic progress or expansion of the nation as a whole. The compound annual rate of increase of gross national product was considered, in this study, to be the rate of economic expansion of the nation as a whole. Therefore, a company would have to grow at a faster rate than the compound annual rate of increase in gross national product in order to be termed a "growth company." The compound annual rates of increase in the gross national product during each of the economic periods employed were as follows:

Period I - 1925-1930	Negative
Period II - 1930-1940	1 %
Period III - 1940-1945	16½ %
Period IV - 1945-1950	6 %
Period V - 1950-1954	6 %
Period VI - 1925-1954 (usually).	5 %

Based on the compound annual rates of increase of gross national product, during each of the economic periods employed, equal 1.00, the growth rates of the 162 companies were scored. Scores were arranged in descending order, thus ranking each of the companies as to growth performance during each of the economic periods employed. Period I - 1925-1930, was not employed in the scoring because the gross national product actually decreased during the period. Period VI - 1925-1954

(usually) was not employed in the scoring because of the varying length of time covered by this "over-all" period.

The relative rank, during previous or subsequent economic periods, of each of the ten highest ranking companies in each economic period was also presented.

Introduction to Findings

In this study, for the most part, an endeavor was made to keep the findings and conclusions of a general and very broad nature. Because of the extensive amount of data presented in this study, it is possible to extract almost any number of findings and to arrive at a conclusion for each of these findings. For example, American Telephone & Telegraph Company, because of its never-failing annual dividend, gigantic size and general reputation, is regarded in most circles as purely a defensive stock - certainly not a likely growth stock. According to Table CXXII of this study, however, American Telephone & Telegraph Company had a compound annual rate of increase in net profit after taxes during Period I - 1925-1930, of 8.0 per cent. During Period II - 1930-1940, the increase was 0.5 per cent. During Period III - 1940-1945, net profit after taxes decreased, but during Period IV - 1945-1950, the compound annual rate of increase was 14.5 per cent and during Period V - 1950-1954, the compound annual rate of increase was 12.0 per cent. For a defensive stock, the growth record of this company is very outstanding.

Another general consensus is that the automobile manufacturing industry is presently experiencing a downward trend, but just how downward this trend has become is evidenced by the growth record of the Chrysler Corporation. According to Table XV, the Chrysler Corporation had a net profit after taxes of 127.9 million dollars during the year 1950, but during the year 1954, net profit after taxes dropped to 18.5 million dollars. One fairly conservative conclusion that could be drawn from the above finding would be that such a drop in net income is significant.

Practically any number of findings and ultimate conclusions could be drawn from each of the 162 individual company tables containing the compound annual rates of growth - depending entirely on the purpose that the investment-minded reader might have when reading this study.

Findings

Reference to Table CLXV will reveal the following findings:

1. Of the 162 companies surveyed, during Period II - 1930-1940, net profit after taxes data for 26 of the companies were not available. For 44 of the companies surveyed, net profit after taxes decreased during the period. The rates of growth for 9 of the companies could not be calculated because of a deficit. Only 2 of the companies had a growth rate less than 1.00 which is considered the rate of growth

of the economy as a whole. Only 1 company was unchanged as to growth during the period. However, 80 companies had a rate of growth of 1.00 or greater during this period.

2. Of the 162 companies surveyed, during Period III - 1940-1945, net profit after taxes data for 5 of the companies were not available. For 69 of the companies, net profit after taxes decreased during the period. The rate of growth of 1 of the companies could not be calculated because of a deficit. Only 4 companies were unchanged as to growth during the period, while 64 of the companies had a growth rate less than 1.00 (the growth rate of the economy). Only 19 companies had a growth rate of 1.00 or greater during this period.

3. Of the 162 companies surveyed, during Period IV - 1945-1950, net profit after taxes data were not available for 2 of the companies. Also, 9 of the companies were negative as to growth in net profit during the period and 9 companies had a growth rate of less than 1.00. None of the companies surveyed during this period had growth rates that could not be calculated because of a deficit, or growth rates that were unchanged during the period. Out of 162 companies, 142 had a compound annual rate of growth in net profit after taxes equal to or greater than 1.00 which is considered the rate of growth of the economy as a whole.

4. Of the 162 companies surveyed, during Period V --1950-1954, net profit after taxes data were available for all companies and rates of growth were calculable for all companies

whose net profit after taxes increased during the period. However, 63 of the companies were negative as to growth during the period. Also, 43 of the companies had a growth rate less than 1.00, while 55 of the companies had a rate of growth equal to or greater than 1.00. Only 1 company was unchanged as to growth during the period.

Reference to Tables CLXVI, CLXVII, CLXVIII and CLXIX reveal the following facts:

5. Of the ten highest ranking companies in each of the economic periods employed in the scoring, only four appear twice - of these four, two are aircraft manufacturers. The four companies are as follows: (1) Douglas Aircraft, Incorporated, (2) Boeing Airplane Company, (3) El Paso Natural Gas Company and (4) International Paper Company.

Reference to Tables CLXX, CLXXI, and CLXXIV will disclose the following:

6a. Ideal Cement Company ranked number one as the leading growth company during Period I - 1925-1930, however, during Period II - 1930-1940, the rank dropped to number thirty-four. During Period III - 1940-1945, the company was not ranked at all because net profit decreased during the period. However, during Period IV - 1945-1950, the company ranked number twenty-one, while during Period V - 1950-1954, the relative rank was number nineteen.

6b. Armco Steel Corporation ranked number three during Period II - 1930-1940; number twenty-five during Period III - 1940-1945; number thirty-six during Period IV - 1945-1950 and was negative as to growth in net profit after taxes during Period V - 1950-1954.

6c. Cincinnati Milling Machine Company ranked number one during Period V - 1950-1954, as the leading company. However, this company was not ranked at all during Period I - 1925-1930, Period II - 1930-1940, or Period III - 1940-1945. During Period IV - 1945-1950, the relative rank of Cincinnati Milling Machine Company was number seventy-five.

Conclusions

1. The majority (80 out of 162) of the companies surveyed during Period II - 1930-1940, had a rate of growth equal to or greater than the rate of growth of the economy as a whole. (Refer to Finding 1).

2. A majority (69 out of 162 negative and 64 out of 162 less than 1.00) of the companies surveyed during Period III - 1940-1945, were either negative as to growth during the period, or grew less than 1.00 which is considered the rate of growth for the economy as a whole. (Refer to Finding 2).

3. A great majority (142 out of 162) of the companies surveyed during Period IV - 1945-1950, had a rate of growth greater than the rate of growth of the economy as a whole. (Refer to Finding 3).

4. The majority (63 out of 162) of the companies surveyed during Period V - 1950-1954, were negative as to growth during the period; although a considerable number (55 out of 162) had a rate of growth in net profit after taxes equal to or greater than 1.00 which is the rate of growth for the entire economy. (Refer to Finding 4)

5. Since only four companies appear twice in the top ten ranking companies in each of the economic periods used in the scoring and since two of these four companies are aircraft manufacturers, it appears that aircraft manufacturing stocks had a better over-all performance than any other particular stock. (Refer to Finding 5)

6. A very general conclusion, based on the relative rankings of companies during previous or subsequent economic periods and the individual company tables containing the compound annual rates of growth, is that growth is very erratic and irregular. (Refer to Findings 6a, 6b and 6c. Also refer to the individual company tables containing the compound annual rates of growth)

Growth, as calculated in this study, does not at all lend itself to any sort of valid statistical forecasting. For this reason, no conclusions were drawn in regard to which companies will grow in the future. It is intended, however, that the investment-minded reader will be able to draw his own conclusions, in regard to future growth and investment

possibilities, by carefully analyzing past growth characteristics and especially growth patterns during definite economic epochs such as wars and depressions. With this purpose in mind, the individual company tables containing the compound annual rates of growth in net profit after taxes, would be invaluable to an investment-minded reader.

Recommendations

A further study comparing the compound annual rates of increase in sales, the compound annual rates of increase in net profit after taxes and the compound annual rates of increase in units of physical production for the same company during the same economic period would be of considerable value.

By comparing the compound annual rates of increase in sales, net profit after taxes and units of physical production, a company's present and perhaps future position would be suggested. For instance, if a company's compound annual rates of increase in sales and net profit after taxes were greater than the compound annual rate of increase in units of physical production, a situation indicative of rising prices and general inflationary trends would be present. On the other hand, if the compound annual rate of increase in units of physical production was greater than the compound annual rates of increase in sales or net profit after taxes, then a situation of under-priced products and possible sharp future increases in sales and net profits would be present.

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