RESEARCH IN SECURITIES MARKETS



X652.73,g H5 045497

Inancial Research Program

NATIONAL BUREAU OF ECONOMIC RESEARCH

Price: 50 cents

Copyright, 1946, by National Bureau of Economic Research, Inc. 1819 Broadway, New York 23, N. Y. All Rights Reserved Printed in the United States of America by Academy Press

PREFACE

EARLY in June 1944, the Special Research Committee of the National Association of Securities Dealers, Inc. proposed to the National Bureau of Economic Research that the National Bureau undertake an investigation of research needs in the field of organization and functioning of the nation's securities markets. On June 21, 1944 the National Bureau's Committee on Research in Finance approved the conduct of such preliminary discussions and conferences as might be helpful in considering the feasibility of the research investigation, and, if desirable, the exploration of the research needs of the field. This recommendation was reported on June 26 to the National Bureau's Executive Committee, which expressed interest in the proposed exploration and authorized its conduct.

Three months were devoted to the preliminary survey, and on the basis of the results obtained the exploration was undertaken. As part of the exploratory work a survey was made of selected professional opinion on the problems of the securities markets and the needs for research. On April 18-19, 1945, a conference of 32 experts was held to discuss the results of the exploration. At the conclusion of the conference, the Exploratory Committee on Research in Securities Markets was appointed to formulate specific research recommendations, and to prepare a report for submission to the National Bureau's Committee on Research in Finance.

In carrying out its assignment, the Exploratory Committee was asked to weigh the results of the survey of selected professional opinion, the conference discussions, and the research objectives of the National Bureau, and then to formulate its own judgment concerning research needed to supplement and enlarge existing scientific knowledge about the organization and functioning of the securities markets.

The work of the Exploratory Committee was substantially completed by the end of June 1945, and on July 16 its report was reviewed by the Committee on Research in Finance. After thorough discussion, in which suggestions were made for revisions or amendments, this Committee approved the report and recommended it for further consideration and action to the research staff, officers, and directors of the National Bureau. The National Bureau's Executive Committee, which reviewed the report on October 10, unanimously regarded the recommended program as a matter of keen public interest.

Through the publication of the report an objective appraisal of needs for information relevant to securities markets problems is provided against which the research plans of organizations and of individuals may be reviewed. It is hoped that the report may stimulate research in this field.

The National Bureau of Economic Research welcomes this opportunity to express its appreciation of the interest and initiative shown by the Special Research Committee of the National Association of Securities Dealers in seeking an impartial approach to the ways in which research might contribute to the solution of problems of the securities markets. Individuals engaged in the securities business contributed generously, in time and in personal effort, to make the exploratory survey as productive as possible. In addition, the National Association of Securities Dealers, Inc. made a grant to the National Bureau which helped defray the cost of the exploratory survey and the publication of the report.

The National Bureau also wishes to thank all those who cooperated in the exploratory work by answering inquiries, preparing technical memoranda, and participating in conferences. Special acknowledgment is due the members of the Exploratory Committee, who gave freely of their time and energy in the preparation of this report.

RALPH A. YOUNG
Chairman pro tempore
Committee on Research in Finance

CONTENTS

Preface		ii	
Summary of Committee Recommendations			
Importanc	Importance of the Securities Markets		
Developments Following World War I			
Problems Facing the Securities Markets After World War II			
The Need for Research			
Materials Available for Research			
Studies Recommended by the Committee			
I.	Survey of the Activities and Institutions of the American Securities Markets	8	
II.	The Securities Markets, Savings, and Capital Formation	10	
III.	The Transfer Function of the Securities Markets	13	
IV.	The Securities Markets in the Financing of Business Enterprise	14	
V.	The Securities Markets and the Investor	17	
VI.	Relation of Government to the Securities Markets	20	
VII.	Functioning of the Securites Markets in the American Economy	23	
Execution of the Recommended Studies			
Euploratory Activities			

Research in Securities Markets

SUMMARY OF COMMITTEE RECOMMENDATIONS

After careful consideration of the problems and needs for research in the field of organization and functioning of the securities markets, the Exploratory Committee on Research in Securities Markets recommends the following group of studies:

- I. Survey of the Activities and Institutions of the American Securities Markets
- II. The Securities Markets, Savings, and Capital Formation
- III. The Transfer Function of the Securities Markets
- IV. The Securities Markets in the Financing of Business Enterprise
 - V. The Securities Markets and the Investor
- VI. Relation of Government to the Securities Markets
- VII. Functioning of the Securities Markets in the American Economy

The seven studies together constitute a plan of needed investigation of fundamental and long-range problems of the securities markets. The Committee recognizes that, because of the broad scope of the studies, some adjustment in the general plan may prove desirable or expedient in order to carry out the recommendations and to coordinate the work with other economic research. The cooperation and active participation of investment banking, brokerage, and securities houses, other financial institutions, public agencies, and university and independent specialists will be essential for the successful prosecution of the plan.

IMPORTANCE OF THE SECURITIES MARKETS

A large fraction of the accumulated wealth of the American people is represented by negotiable debt or equity securities. More than ten million individuals directly own stocks of American business corporations, and millions more hold government or corporate bonds and notes. In addition, nearly everyone has an indirect interest in the securities markets through securities in the portfolios of insurance companies, savings banks, commercial banks, investment companies, and endowed institutions.

The performance of the securities markets affects the volume of employment in the country and the stability of national income, since a significant part of the additions to the nation's capital is financed by the issuance of securities and since the valuation and liquidity of securities affect the public's disposition to spend and invest. The functioning of the markets, moreover, influences the terms upon which businesses and government can obtain financing, and hence is an important factor in the development of new industries and in the growth of major industrial areas. The efficiency of the mechanisms for financing the reconstruction and development of foreign countries through offerings of securities to American investors may have a direct bearing upon the future peace and prosperity of the world.

DEVELOPMENTS FOLLOWING WORLD WAR I

During the past thirty years the American securities markets not only have expanded tremendously but also have undergone far-reaching changes. As a result of the financing of the first World War, millions of people who had never before owned securities became government bondholders, and thus "security conscious." There was a dispersion of stock ownership and a growth in trading activity during the prosperous twenties, an era that ended in the great bull market of 1928-29.

The period of the thirties, ushered in by a catastrophic collapse of security prices, was one of relatively low capital formation but of continued dispersion of stock ownership. Federal regulation that affected the issuance of and trading in securities was inaugurated, and federal taxation of personal and corporate income was sharply increased. As the decade ended, the world was plunged into war. Over the six war years deficiencies developed in the nation's industrial plant, housing, and consumer durable goods, while obsolescence and war damage took heavy toll of the capital assets of Europe and Asia. At the same time, national income and money savings of the American people rose to unprecedented levels, a new pattern of distribution of income and saving emerged, the federal debt rose to almost three times the total amount of private and nonfederal public debt, and the sale of government obligations to finance war again vastly increased the number of owners of securities.

PROBLEMS FACING. THE SECURITIES MARKETS AFTER WORLD WAR II

In the postwar years governmental bodies and business enterprises, both domestic and foreign, may seek funds on a scale unparalleled in peacetime. Savings of the people in these years, together with those already accumulated in liquid form, may be offered in large amounts for investment through the securities markets. In the process of transmuting savings into productive capital, difficult transfer problems will arise. Other transfer problems will arise in response to constant readjustments in investor portfolios and holdings of liquid funds, the debt management policies of the federal government and other governmental units, and the capital structures of private securities issuers. Moreover, under these circumstances additional burdens of investment administration will be incurred by all institutions in the markets. Are the American securities markets prepared to meet these demands and through efficient

functioning contribute to the general welfare of the economy? What are the salient postwar problems of the securities markets which require consideration by members of the industry and by governmental regulatory and legislative bodies?

THE NEED FOR RESEARCH

Our exploration of the field clearly indicates the need for a survey of the contemporary activities and institutions of the securities markets. Such a survey should include a description, and also various measurements, of the businesses engaged in issuing and trading securities, a census of personnel, and an analysis of capital, risks, costs, and returns. Functions of the securities markets in capital formation, transferring wealth, providing liquidity to investment assets, financing business enterprise, and evaluating investment risks, and the respective roles of the organized exchanges and of the over-the-counter markets, also require examination.

The origin, volume, and composition of money savings in the United States need to be determined with greater precision and for a longer period of time than has so far been possible. This is essential in order to understand more fully (1) the relation between savings and the amount and distribution of national income and (2) the nature of the demand for securities. Closely related is the problem of defining the sources and character of demand for long-term investment funds, particularly among business enterprises, so that the factors which help determine the supply of new issues of securities can be identified and measured.

The part played by the securities markets in financing business enterprises—both large companies and concerns of medium and small size—and government deserves careful consideration. How do the facilities and activities of the markets affect the financing practices of business enterprise? What specific factors influence a business to make a public offering of securities? What considerations determine the choice be-

tween equity and debt issues? What services do the markets render to the issuer? How does the requirement of compulsory competitive bidding in certain industries affect the issuer and his financing decisions? Do the securities markets aid in the birth of new businesses or do the facilities contribute more to the growth and development of existing enterprises? How do the facilities and activities of the markets influence the borrowing policies of state and local governments? Of the federal government? What special services are rendered by the markets to assist government in meeting its financing problems, and do these services differ as between state and local governments and the federal government?

The securities markets present many problems relating to the investor. What securities do investors of different kinds—individual and institutional—purchase, what are the motivations behind the purchases, and what has been investors' experience with bonds and stocks? How adequately have the securities markets evaluated the investment risk of different types of securities and classes of issuers? To what extent do the securities markets assist the individual in investing his funds? What light does the experience of the American investor in foreign securities shed upon the problems of such investment in coming years?

The growing number of governmental influences on the American securities markets call for objective study. In their functioning, the securities markets are affected by state Blue Sky laws, federal legislation and regulation, federal and state taxation of corporate and personal income and estates, federal debt management and other fiscal policies, federal monetary and credit policies, and the operations of federal lending and investing agencies. What are the impacts of each of these controls and policies upon (1) lending to and by private individuals and concerns, (2) risk-taking by investors in business enterprises, (3) costs and risks of underwriting securities, (4) security prices and yields, and (5) the volume and character of trading in securities?

Few of the major problems confronting the securities markets can be resolved by reference to material at hand, not-withstanding the accumulation over the past fifteen years of masses of data and the publication of numerous monographs bearing upon the problems. A broad-based and fundamental analysis of the structure and operations of the American securities markets in the national economy is still lacking. Consequently, members of the industry do not have sufficient factual information for planning future operations; legislative and supervisory bodies and the industry often do not have satisfactory perspective for judging how particular regulative proposals may affect the organization and functioning of the markets; and the general public is without an adequate basis for understanding the role of the markets in the economy.

MATERIALS AVAILABLE FOR RESEARCH

Research that is both comprehensive and fundamental is now feasible because it can build upon broad foundations already laid. The basic information available includes the following:

Registration statements and statistics on the securities markets and security offerings collected by the Securities and Exchange Commission since 1934

Data of the national securities exchanges and the National Quotation Bureau on price quotations

Records of prices, dividends, and yields of common stocks listed on the New York Stock Exchange, 1871-1941, assembled by the Cowles Commission

Estimates of the amount and distribution of national income and the amount and character of capital formation, prepared by the National Bureau of Economic Research and the U.S. Department of Commerce

Estimates of the amount and composition of national savings since 1937, prepared by the Securities and Exchange Commission

Data for recent years on the ownership of the federal debt compiled by the United States Treasury

Data on the ownership of private security issues compiled by Standard and Poor's Corporation

- Banking statistics of the Board of Governors of the Federal Reserve System
- Records of the characteristics and market experience of domestic corporate bond offerings since 1900 assembled by the National Bureau's Financial Research Program
- Investment experience records on foreign bond offerings collected by the Institute of International Finance of New York University
- Extensive samples of financial statements of large and small corporations, some of which extend back to 1903, compiled in connection with studies conducted by the National Bureau's Financial Research Program
- Statistics of American Listed Corporations of the Securities and Exchange Commission
- Data on capital gains and losses compiled by the Bureau of Internal Revenue
- Statistical compilations of corporate financial data by the Office of Price Administration, covering primarily the years of World War II
- Statistics of Income and other data on corporate and personal income and estate tax returns compiled by the Bureau of Internal Revenue
- Interstate Commerce Commission financial data for railroads
- Federal Power Commission and Federal Communications Commission statistics for public utilities, together with the statistics in this field compiled by the public utility commissions of various states
- Studies of consumer expenditures for selected years by the Bureau of Labor Statistics and other federal agencies
- Records and files of the National Association of Securities Dealers, the Investment Bankers Association, the New York and other stock exchanges, and the Securities and Exchange Commission
- Information available in the files of leading brokers and investment banking houses
- Financial reports of insurance companies, investment companies, and other institutional investors
- Numerous time series related to the securities markets collected by the Business Cycle Unit of the National Bureau of Economic Research

Special studies, many of which are unpublished, by the staffs of federal financial agencies, bearing on the functioning of the securities markets

Many monographs dealing with special phases of transactions in securities

STUDIES RECOMMENDED BY THE COMMITTEE

I. Survey of the Activities and Institutions of the American Securities Markets

Purpose

To describe the contemporary structure of the securities business in the United States and to trace the development of the business since 1900.

Tentative Outline

General structure of the securities business

Methods of underwriting and distributing new securities Organization of the securities underwriting and distributing business

Volume, costs, income, and capital of the securities underwriting and distributing business

Methods of trading in securities

Organization of the exchanges and the over-the-counter markets

Volume, costs, income, and capital of the securities trading business

Other activities of the securities and investment banking business

Investment banking activities of other financial agencies Role of bank credit in securities distribution and trading Changes in the American securities business since 1900

Suggested Development of Study

(a) Description of contemporary activities, methods of operation, and personnel of each type of institution participating

in the securities markets, and, subject to the limitations of obtainable data, study of the capital, operating income and expenses, and net returns of these institutions.

- (b) Analysis of the extent to which specialization of functions or a combination of functions exists among institutions, and of the ways in which the different institutions are interrelated.
- (c) Study of the use of bank credit in financing the distribution of securities and trading activities in the securities markets, and of changes in the organization of banking facilities with reference to such financing.
- (d) Survey of the development of the American securities business since 1900 against the background of major economic trends, changes in legal conditions, and shifts in the country's international financial position, to reveal changes in functions and organization which have occurred.

Materials for Research

For the description of the contemporary structure of the securities business two main sources are suggested: (1) existing data, such as materials collected by the Securities and Exchange Commission and the stock exchanges; (2) data assembled by special surveys, to be undertaken by the staff that may conduct this study. The primary object of the special surveys would be to supplement the materials already available and to obtain information on (1) methods of operation, capital, operating income, expenses, and returns of investment bankers and securities dealers, (2) the personnel of investment banking houses and securities dealers, (3) the volume of trading and the methods of operation on the exchanges and in over-the-counter markets, and (4) interrelations between different institutions that comprise the securities business.

Available banking and securities markets data, published hearings of congressional committees, materials in the files of the Board of Governors of the Federal Reserve System and the Securities and Exchange Commission, and field interviews

would provide information for the analysis of the role of bank credit in the functioning of the securities business.

The long-term analysis of the securities business could be based upon various published materials, unpublished information in the files of the leading investment banking and securities houses and stock exchanges, the corporate bond records of the National Bureau's Financial Research Program, and the common stock records of the Cowles Commission.

II. THE SECURITIES MARKETS, SAVINGS, AND CAPITAL FORMATION

Purpose

To identify and measure basic factors of supply of and demand for capital funds which have shaped the development of the securities markets since 1900.

Tentative Outline.

Sources and volume of money savings

Sources and volume of demand for capital funds

Flow of money savings into government and private securities

Functions of the securities markets, the banks, other financial institutions, and international capital movements in the process of capital formation

Individual investment of savings vs. institutional investment of savings

Effects of institutionalization of the savings flow on "risk" investment

The problem of forecasting the volume of savings and of security offerings

Suggested Development of Study

(a) A statistical analysis of money savings. The first step proposed is a critical appraisal of methods that have been applied in the estimation of money savings for recent years,

and possibly the revision of these estimates in the light of this appraisal. The second step would be the development of new annual estimates of national money savings for earlier years—at least back to 1920, and if feasible back to 1900. Next, the trend and cyclical fluctuations in the estimated volume of money savings would need to be measured and related to the movements of national income, bank credit, interest rates, security offerings and prices. A final part of this statistical analysis, based on data for recent "bench-mark" years, should deal with the contribution to total money savings made by (1) individuals or families in different income brackets and in major occupational groups, (2) businesses of different industry and size classes, and (3) various government agencies.

- (b) An analysis of the demand for capital funds. As a starting point, an attempt should be made to trace how total demand has been affected since 1900 by the growth of the American economy, major structural changes within it, developments in the legal forms of business enterprise, changes in financial policies of business management, changes in the role of government in the economy, and international financial developments. A second step might be to trace, so far as available data permit, the broad outlines of how total demand has been met by different sources of capital funds, such as domestic issues, foreign investment in American securities, direct loans from financial institutions, direct investment by individuals, and retained business earnings. Next, changes in the total demand for funds and in the components thereof should be related to changes in national income and other relevant factors; the study of such relationships, however, would necessarily be restricted in scope, since the data relating to the demand for funds would be much less complete than those for supply.
- (c) Following this analysis a special study of the proportion of savings flowing directly, and indirectly through financial institutions, into securities investment is suggested. Examination would be made of the role of the securities markets,

the banks, other financial institutions, and international capital movements in the process of capital formation.

- (d) Changes in the proportion of savings flowing through financial institutions should be studied with reference to legal and institutional restrictions affecting institutional investment policies, to determine the effects of these restrictions on the availability of funds for "risk" investment.
- (e) Finally, a critical analysis might be made of the problems involved in forecasting the volume and composition of savings and the volume and composition of security offerings.

Materials for Research

The estimates of savings made by the Securities and Exchange Commission since 1937 provide a starting point for this study. Annual estimates back to 1920 could probably be developed from existing statistical series, but estimates extending back from 1920 to 1900 would have to be constructed from materials assembled from scattered sources and from data collected specifically for this project, e.g., stock issues before 1920. The Study of Consumer Purchases, 1935-36, of the Bureau of Labor Statistics, and also one covering 1941 and the first quarter of 1942, yield a basis for analyzing sources of savings by individuals, but the cooperation of interested public agencies would possibly be needed to compile some supplementary data through special surveys of samples of individual savers. Existing statistics of financial institutions would serve as a basis for tracing the growth of institutional savings.

Analysis of the demand for capital funds could rely mainly on materials already assembled by the National Bureau's Financial Research Program and other agencies, but some gaps in information might need to be filled by primary compilations. Materials pertaining to legal regulations affecting institutional investment could be drawn from Part VI of this program of studies. Published articles and unpublished memoranda containing estimates of the volume of future savings and security offerings, and setting forth methods by which the

estimates have been derived, would constitute the raw materials for a critical appraisal of problems of forecasting in this field.

III. THE TRANSFER FUNCTION OF THE SECURITIES MARKETS Purpose

To examine the transfer function of the securities markets, to compare the exchange and over-the-counter markets in regard to the transfer function, and to appraise the advantages and disadvantages of ready marketability from the standpoint of the functioning and stability of the economy.

Tentative Outline

Marketability with respect to issuers, financial institutions, and individual investors

Tests of marketability

Growth in importance of marketability

Organization and operations of securities exchanges

Organization and operations of over-the-counter markets

Secondary distributions of outstanding securities

Comparison of exchange and over-the-counter markets for outstanding securities

Suggested Development of Study

- (a) An analysis of the advantages of marketability to issuers of securities and to owners or managers of wealth. Marketability for different types of securities and for securities of different classes of issuers would need to be tested by measurements of the breadth and closeness of the market and the continuity and stability of price behavior for a recent period and for selected periods in the twenties and thirties. The importance to the American economy of marketability for outstanding securities should be examined, and the marketability of securities compared broadly with that of other types of assets.
 - (b) A comparison of the functioning of the organized ex-

changes and the over-the-counter markets, in which particular emphasis would be given to the contributions and costs of these markets to the economy at large. An attempt should be made to identify the factors that make for marketability both on the exchanges and in the over-the-counter markets, and special attention directed to the extent to which securities of moderate-sized enterprises are traded in these markets. Consideration would also need to be given to the safeguards available to issuers and investors, and the relation between services provided and commissions or price spreads.

(c) An examination of the methods for providing marketability for large blocks of securities, particularly in relatively thin markets. The use of active selling efforts to redistribute blocks of issues without price impairment should be analyzed. Materials for Research

A certain amount of the statistical data required has already been compiled by the Securities and Exchange Commission, the New York Stock Exchange, and the National Association of Securities Dealers. In addition, data would have to be obtained through questionnaires to brokers, dealers, securities exchanges, and issuers. Special compilations of price and trading data for different types of securities and for securities of different classes of issuers would need to be prepared for the measurement and testing of marketability. For an analysis of local exchanges and over-the-counter markets, field research would be necessary.

IV. THE SECURITIES MARKETS IN THE FINANCING OF BUSINESS ENTERPRISE

Purpose

To determine from the point of view of management the comparative advantages and costs of financing business enterprise through the issuance of securities, and to find out what special considerations of business financial policy influence management decisions to finance through the offering of securities.

Tentative Outline

Alternative sources of funds of business enterprise, by industry and size of business unit

Advantages of alternative sources of capital funds from the point of view of management (cost, speed, flexibility, credit rating of issuer, and disclosure of affairs of issuer)

Relation of security offerings (new and refunding) to business activity

activity and price behavior of the securities markets investment yields

business profits and retained earnings

business liquidity

business asset expansion

Relation of investment banker to issuer

Role of the investment banker in corporate investment operations, mergers, consolidations, and reorganizations

Private placement and term lending vs. public offering

Competitive bidding for securities

Problem of financing medium- and small-sized business units through the securities markets

Suggested Development of Study

- (a) A description, by industry and by size of business unit, of the changes in sources of funds employed by business enterprise, supplemented by an analysis of factors influencing management decisions with respect to the use of alternative sources of financing. Consideration should be given to the relative advantages and disadvantages of various types of internal and external funds, and to the requirements of the different suppliers of funds. The problem of financing medium- and small-sized business units through the securities markets should be the subject of special inquiry.
- (b) A statistical analysis of cyclical and trend relationships between (1) security offerings for equity and debt purposes and (2) various factors that influence business financial poli-

cies and affect the volume and type of the offerings (e.g., business activity, activity and price behavior of the securities markets, investment yields, business profits, availability of accumulated internal funds, and business asset expansion).

- (c) A detailed study of the character and nature of the relationship that exists between the issuer and the underwriter, focusing primarily upon the functions of underwriting but considering also other services performed by an investment banker for business enterprise. Private negotiation, and compulsory competitive bidding in the industries to which it has been applied, need careful examination from the standpoint of business enterprise.
- (d) A special examination of the functioning of investment banking and other securities markets facilities in corporate investment operations, mergers, consolidations, and reorganizations, particularly in the case of corporations whose securities are publicly held.
- (e) An analysis of the competitive and complementary relationships between private placement of securities issues, term lending, and financing through the securities markets.

Materials for Research

For the description of the sources of financing for business enterprise, information would have to be collected directly from samples of business concerns and from case studies of a small group of companies representing different industries and size classes. To supplement these data various compilations of corporate financial data prepared by the National Bureau's Financial Research Program, the Bureau of Internal Revenue, the Federal Trade Commission, the Federal Power Commission, the Federal Communications Commission, the Interstate Commerce Commission, the Securities and Exchange Commission, and the Office of Price Administration could be used.

As a basis for the study of the relation between security offerings and various correlative financial factors, statistical materials are available in published sources and in the files of public supervisory agencies, investment advisory services, and the Business Cycle Unit of the National Bureau.

Information published in hearings of congressional committees, briefs and research memoranda on file at the Securities and Exchange Commission, records made available by investment banking houses, and replies to direct inquiries addressed to issuers of securities would yield materials for analyzing (1) the relationship between the investment banker and issuer, (2) private negotiation and competitive bidding, and (3) the role of the investment banker in corporate investment operations, mergers, consolidations, and reorganizations.

Materials already assembled by the Securities and Exchange Commission and by the Financial Research Program, together with information obtained by field interviews and surveys, would provide data for the analysis of private placement, term lending, and public offerings.

V. THE SECURITIES MARKETS AND THE INVESTOR

Purpose

To investigate the preferences of different classes of investors, to describe typical methods by which investors' portfolios are managed, and to analyze investors' experience with principal types of securities.

Tentative Outline

Role of the securities markets in providing liquidity and in evaluating risk

Distribution of ownership of securities

Agencies managing, or advising on, security portfolios and their methods of operation (costs, flexibility, services rendered, results)

Information on security values: sources, utilization, and diffusion

Factors affecting investor selection of investments Investors' experience with principal types of domestic and foreign securities (current income, safety of capital, marketability)

Relation of investment bankers, brokers, and dealers to investors

Suggested Development of Study

A general analysis of the role of the securities markets in providing liquidity and in evaluating risk is suggested as the starting point of this study. This would need to be followed by a statistical examination of the present and past composition of the portfolios of groups of individual and institutional investors, with the aim of determining the preferences of different classes of investors; and then a study of the yield of different groups of investments, in order to obtain some objective indication of investor preferences.

Other phases of this study could be (1) a description of the typical methods by which investors manage their portfolios, and (2) a comparison of the methods and costs of operation of different types of agencies that professionally manage, or advise on the management of, investors' security portfolios, such as investment counsel, securities dealers, trust companies, and investment companies. The results of alternative management policies may be indicated by the performance of actual portfolios of selected types of institutional and individual investors.

Study might then be made of the kind, quality, and dissemination of primary and secondary information on securities, which is available to professional and to lay investors.

Surveys of samples of principal investor groups, individual and institutional, would be useful to determine (1) the sources and character of investment advice obtained, if any, (2) the degree of emphasis upon safety of capital in investment decisions, and (3) the influence of interest or dividend yields on investment choices.

A statistical study of investors' experience with domestic and foreign securities, covering a relatively long period, is urged.

Such analysis should include the investment performance of principal types of securities and of securities of different classes of issuers.

A concluding phase of the study might evaluate, in the light of the findings of the foregoing investigations, the changing relationships of investment bankers, brokers, and dealers to different types of investors.

Materials for Research

Though much of the data available for research is scattered. and some in need of rearrangement, the analysis of investors' portfolios could draw upon a wide range of material, e.g., the special survey of 1936 dividend income by the Bureau of Internal Revenue; the annual estate tax statistics of the Bureau of Internal Revenue; the (as yet untabulated) survey of about 100,000 estates probated in 1928-29 and 1938-39, sponsored by the Bureau of Foreign and Domestic Commerce; the current statistics and listing of the portfolios of most types of institutional investors. Additional material would be needed on the portfolios managed by trust companies and investment counseling organizations, and on their charges for investment services. The material on costs of operations and on investment results of the main types of institutional investors would have to be obtained largely from the institutions themselves.

The survey of samples of principal investor groups could be patterned after methods developed and applied in connection with the wartime borrowing operations of the federal Treasury, although special adaptations of this survey technique would be required. Such a survey should be carried out with the collaboration of interested public agencies as well as of members of the securities business.

The study of investors' experience could be based on the corporate bond records of the National Bureau's Financial Research Program, the common stock records of the Cowles Commission, the analyses of investment companies' perform-

ance made by the Securities and Exchange Commission and others, existing studies of the portfolio management of fire insurance companies, the literature on investment experience with stocks and bonds, and the studies of investment experience with foreign bonds of the Institute of International Finance of New York University.

Information for analyzing the changing relationships of investment banking agencies to different types of investors, the final area suggested for study, could be developed from published hearings of congressional committees and public administrative agencies, materials and research memoranda of the regulatory agencies, records made available by investment banking houses, securities dealers, and investment counseling organizations, and from results of field interviews and questionnaire surveys. Some of the needed data would be assembled under other parts of the whole program of investigation proposed herein.

VI. RELATION OF GOVERNMENT TO THE SECURITIES MARKETS Purpose

To study the effects of government policies and operations on the organization and functioning of the securities markets.

Tentative Outline

Types of government policies affecting the securities markets

State Blue Sky laws

Federal regulation of security issuance and trading

Federal regulation of the extension of credit on securities provided as collateral

Effects of public regulation on costs of financing through the securities markets

Self-regulation of the securities markets as a complement to, or substitute for, public regulation

Institutional investment regulations

Corporate income taxation

Personal income and estate taxation

State and local taxation

Tax-exempt securities

Federal debt management and fiscal policies

Federal credit and monetary policies

Activities of federal lending and investment agencies

International Monetary Fund and International Bank for Reconstruction and Development

Suggested Development of Study

- (a) A description of the different types of government policies and activities which affect the securities markets, e.g., those specifically directed to general supervision and regulation; those concerned with the activities of lenders; those not directly related to the securities markets but which have important indirect effects upon their operation; and those in which the government participates as a competitor in the securities markets.
- (b) An analysis of the effects of direct regulation and supervision of the securities markets—federal, state, and by the business itself—upon the organization and functioning of institutions in the markets. This should include an examination, from the point of view of both the regulating agency and the regulated, of the problems resulting from regulatory and supervisory activities; and also a study of the effects of regulation and supervision on the costs of financing through the securities markets.
- (c) A study of the various regulations imposed by federal and state legislation and by rulings of supervisory agencies upon the lending and investment activities of different types of institutions, and of the ways in which these regulations have affected the organization and operation of the securities markets.
- (d) An examination of the ways in which policies of the federal government, not designed to affect directly the opera-

tion of the securities markets, have had an indirect influence upon their operation. These policies may be divided for investigational purposes into two groups: (1) debt management and other fiscal policies, and (2) credit and monetary policies.

(e) A survey of the magnitude, nature, and character of direct participation of the government in activities which compete with or complement particular institutions in the securities markets, focusing the survey upon the role of government as lender or investor and as enterpriser.

Materials for Research

With respect to direct federal regulation and supervision, the primary data available for analysis are official documents of the Securities and Exchange Commission and the Interstate Commerce Commission; in addition, field and questionnaire surveys would be needed to develop information on adjustments in the securities business resulting from regulatory and supervisory policies. For a study of state regulatory and supervisory activities, official documents also provide primary data, but supplementary information would have to be obtained directly from investment bankers, securities dealers, and officials of regulatory and supervisory agencies, in order to trace the effects upon activities and practices in the securities business and upon the organization and functioning of the securities markets. Records of the New York and other stock exchanges and of the National Association of Securities Dealers constitute the primary source material available for a study of self-regulation as a complement to, or substitute for, public regulation.

The phases of the study dealing with federal debt management and fiscal policies, federal credit and monetary policies, activities of federal lending and investment agencies, and the functioning of the International Monetary Fund and International Bank for Reconstruction and Development, would make extensive use of official records and reports. The cooperation of public and private agencies in providing access to unpublished research materials would be essential, however, for successful prosecution of the study.

VII. FUNCTIONING OF THE SECURITIES MARKETS IN THE AMERICAN ECONOMY

Purpose

To re-examine, in the light of the findings of Studies I to VI, the role of the securities markets in the economy and to indicate the character of the emerging problems of the markets.

Tentative Outline

Contemporary functions of the securities markets
Changes in functions since 1900
Changing importance of public and private securities
Changing status and interests of the private investor
Appraisal of functions of the securities markets
Interrelations between business activity and activity in the
securities markets

Effects of changing business financing policies on the functioning of the markets

Emerging problems of the securities markets

Suggested Development of Study

The first step in this study should be a description of the contemporary functions performed by the markets (a) for the economy, in providing both funds for capital formation and an outlet for savings, in facilitating the transfer of ownership of wealth, and in aiding the international movement of investment funds; (b) for business management, in raising capital, in maintaining liquidity, and in achieving a balanced capital structure; and (c) for investors, in the administration and evaluation of their wealth placed in securities. The second step should be to trace changes in these functions since 1900; the third, to analyze the varying importance of public, especially federal, and private securities in the markets and the effects of the altered composition of the outstanding securities in these broad classes upon the functioning of the markets; and the fourth, to describe the changing status and interests of the private investor.

An appraisal of the major functions of the securities markets is suggested as a fifth step. Such an appraisal should attempt to determine how well the securities markets have performed their evaluation function, particularly whether they have tended to overvalue or to underrate the risk of different types of new securities or of different classes of issuers as reflected in the relation between offering prices and yields of securities and their subsequent market performance.

In the light of the findings of the earlier studies, the interrelations between fluctuations in securities markets activity and fluctuations in business activity need to be reviewed, and the effects of changing business financing policies on the securities markets examined. The final part of the analysis should consist of a study of adaptations in the securities markets to emerging domestic and international economic problems. For example, if wartime savings were widely spent in the purchase of worthless securities a more rigorous supervision of the securities business might ensue. Also, extensive regulation of capital exports might be necessary in order to avoid chaotic foreign lending practices similar to those which prevailed in the 1920's.

Materials for Research

The primary sources would be Studies I to VI of this program. Relevant statistical series available in the data collections of the National Bureau and other research agencies would, of course, be analyzed in connection with the studies evaluating the functions of the markets and of the interrelations between the behavior of the securities markets and business activity.

EXECUTION OF THE RECOMMENDED STUDIES

The research plan herein proposed is to be regarded only as a general outline rather than a detailed schedule of needed work. Because of its broad scope, it should be carried out with the participation and help of interested public agencies, private research organizations, private financial institutions, and uni-

versity or independent scholars, and one of the first responsibilities in launching the program should be to enlist such cooperation. At an early date a schedule of studies to be undertaken should be established and a research staff should be organized to conduct those studies selected for immediate prosecution. Difficulties encountered in carrying out individual studies, and the accumulation of knowledge as the research progresses, will undoubtedly call for modifications in the plan of development.

EXPLORATORY ACTIVITIES

The exploration of the problems of the organization and functioning of the securities markets, out of which this report has grown, was approved by the National Bureau's Committee on Research in Finance in June 1944. Three months were devoted to a preliminary survey. In these discussions it developed

- (1) That a majority of university and professional students consulted believed that there was a need for more complete information on the organization, functions, and interrelationships of the markets
- (2) That individuals engaged in the securities business generally recognized a need for more adequate factual information about the markets
- (3) That the Securities and Exchange Commission was interested in any factual research in the fields which fall within its jurisdiction
- (4) That the New York Stock Exchange and other organized securities exchanges would follow with interest the results of an exploratory survey of research needs of the securities markets.

Upon review of these findings, an inquiry was initiated in October 1944 to obtain an expression of expert opinion and as many points of view as possible on the organization and functional problems of the markets. Eighty-three representatives of the securities business and fifty-six economists associated with

universities, government agencies, and financial institutions were asked for their comments and suggestions.

The individuals from the securities business were chosen with the advice and help of the officials of the National Association of Securities Dealers and the New York Stock Exchange; they included representatives of major market activities and of principal financial centers of the country. One group of twenty-eight was asked

To describe the character of their business

To discuss recent changes in the markets affecting the character of their activities

To specify the basic problems currently facing the securities business.

A second group, numbering fifty-five, was asked

To give their judgment on the longer-run social and economic forces that have shaped the development of the markets in recent decades

To evaluate the adequacy of existing security market facilities

To indicate the fundamental problems now confronting the markets.

The economists were selected by the central research staff of the Financial Research Program. They included those who have made specific contributions to the scientific literature of the field, specialists currently engaged in research on security market problems, and economists recognized for their general knowledge of financial structure and organization. They were asked

To give their views concerning the principal economic trends affecting the development of the securities markets both in the United States and abroad

To evaluate the adequacy of existing market facilities

To indicate the basic problems of the markets from the standpoint of the national economy

To outline any specific suggestions for research that they might care to make.

Fifty-seven representatives of the securities business and thirty-six economists sent replies. Those from the representatives of the business showed a wide variation of activities engaged in by respondents; diverging views as to changes in the markets and forces causing them; and a broad range of judgments as to the adequacy of existing market facilities and the problems facing the securities business. Responses from the economists likewise expressed widely differing interpretations and views on the questions put to them. They also contained numerous suggestions for specific research undertakings to provide information useful in meeting urgent problems confronting the securities markets and to fill gaps in knowledge about their organization and functioning.

The results of the survey were summarized by the Exploratory Committee's Secretary in a special digest, and on April 18-19, 1945, a planning conference on research in the organization and functioning of the securities markets was held at the University Club, New York City, to discuss the problems of the investment banking and securities business against the background of this survey of professional opinion. The conference was attended by technical experts in the securities business, a group of individuals engaged in the business, and the central research staff of the Financial Research Program. After the two-day discussion the conference recommended that an Exploratory Committee be constituted to formulate a plan of needed research in the light of the conference discussions and its own judgment.

A first draft of a report was prepared by a subcommittee consisting of Neil H. Jacoby, Chairman, Willis J. Winn, Secretary, Jules I. Bogen, John F. Fennelly, Raymond W. Goldsmith, W. J. Carson, and Ralph A. Young, and a revised draft incorporating the suggestions of all members of the Exploratory Committee was submitted to the National Bureau's Committee on Research in Finance on July 16, 1945. In approving the report, the Committee on Research in Finance offered a number of specific suggestions for amendment or revision, all

of which have been incorporated in this final version. The report is thus a collaboration of the Exploratory Committee and the Committee on Research in Finance.

Respectfully submitted,

EXPLORATORY COMMITTEE ON RESEARCH IN SECURITIES MARKETS

Jules I. Bogen G. Wright Hoffman
William J. Carson Walter Lichtenstein
James Coggeshall, Jr. Winfield W. Riefler
Frederic W. Ecker Walter R. Stark
John F. Fennelly R. McLean Stewart
W. Yost Fulton James A. Treanor, Jr.
Raymond W. Goldsmith Ralph A. Young

Willis J. Winn, Secretary

Neil H. Jacoby, Chairman

NATIONAL BUREAU OF ECONOMIC RESEARCH

OFFICERS

Shepard Morgan, Chairman C. Reinold Noyes, President Boris Shishkin, Vice-President George B. Roberts, Treasurer W. J. Carson, Executive Director Martha Anderson, Editor

DIRECTORS AT LARGE

Chester I. Barnard, President, New Jersey Bell Telephone Company Oswald W. Knauth, New York City

H. W. Laidler, Executive Director, League for Industrial Democracy
Shepard Morgan, Vice-President, Chase National Bank
C. Reinold Noves, New York City

George B. Roberts, Vice-President, National City Bank
Beardsley Ruml, Chairman, Board of Directors, R. H. Macy & Company
Harry Scherman, President, Book-of-the-Month Club
George Soule, Director, The Labor Bureau, Inc.

N. I. Stone, Consulting Economist

J. Raymond Walsh, Economist, Congress of Industrial Organizations

Leo Wolman, Columbia University

DIRECTORS BY UNIVERSITY APPOINTMENT

E. Wight Bakke, Yale
C. C. Balderston, Pennsylvania
W. L. Crum, Harvard
Guy Stanton Ford, Minnesota
H. M. Groves, Wisconsin

Clarence Heer, North Carolina Wesley C. Mitchell, Columbia Paul M. O'Leary, Cornell

W. W. Riefler, Institute for Advanced Study T. O. Yntema, Chicago

DIRECTORS APPOINTED BY OTHER ORGANIZATIONS

Percival F. Brundage, American Institute of Accountants Frederick C. Mills, American Statistical Association Boris Shishkin, American Federation of Labor Watten C. Waite, American Farm Economic Association Donald H. Wallace, American Economic Association

RESEARCH STAFF

Arthur F. Burns, Director

Moses Abramovitz
Morris A. Copeland
Solomon Fabricant
W. Braddock Hickman
F. F. Hill
Thor Hultgren
Simon Kuznets
Clarence D. Long

Director
Ruth P. Mack
Frederick C. Mills
Wesley C. Mitchell
Geoffrey H. Moore
Raymond J. Saulnier
George J. Stigler
Donald S. Thompson
Leo Wolman

Relation of the Directors to the Work of the National Bureau of Economic Research

- The object of the National Bureau of Economic Research is to ascertain
 and to present to the public important economic facts and their interpretation in
 a scientific and impartial manner. The Board of Directors is charged with the responsibility of ensuring that the work of the Bureau is carried on in strict conformity with this object.
- 2. To this end the Board of Directors shall appoint one or more Directors of Research.
- 3. The Director or Directors of Research shall submit to the members of the Board, or to its Executive Committee, for their formal adoption, all specific proposals concerning researches to be instituted.
- 4. No report shall be published until the Director or Directors of Research shall have submitted to the Board a summary drawing attention to the character of the data and their utilization in the report, the nature and treatment of the problems involved, the main conclusions and such other information as in their opinion would serve to determine the suitability of the report for publication in accordance with the principles of the Bureau.
- 5. A copy of any manuscript proposed for publication shall also be submitted to each member of the Board. For each manuscript to be so submitted a special committee shall be appointed by the President, or at his designation by the Executive Director, consisting of three Directors selected as nearly as may be one from each general division of the Board. The names of the special manuscript committee shall be stated to each Director when the summary and report described in paragraph (4) are sent him. It shall be the duty of each member of the committee to read the manuscript. If each member of the special committee signifies his approval within thirty days, the manuscript may be published. If each member of the special committee has not signified his approval within thirty days of the transmittal of the report and manuscript, the Director of Research shall then notify each member of the Board, requesting approval or disapproval of publication, and thirty additional days shall be granted for this purpose. The manuscript shall then not be published unless at least a majority of the entire Board and a two-thirds majority of those members of the Board who shall have voted on the proposal within the time fixed for the receipt of votes on the publication proposed shall have approved.
- 6. No manuscript may be published, though approved by each member of the special committee, until forty-five days have elapsed from the transmittal of the summary and report. The interval is allowed for the receipt of any memorandum of dissent or reservation, together with a brief statement of his reasons, that any member may wish to express; and such memorandum of dissent or reservation shall be published with the manuscript if he so desires. Publication does not, however, imply that each member of the Board has read the manuscript, or that either members of the Board in general, or of the special committee, have passed upon its validity in every detail.
- 7. A copy of this resolution shall, unless otherwise determined by the Board, be printed in each copy of every National Bureau book.

(Resolution adopted October 25, 1926, and revised February 6, 1933, and February 24, 1941)

FINANCIAL RESEARCH PROGRAM: COMMITTEE

In the planning and conduct of all research under the Financial Research Program the National Bureau benefits from the advice and guidance of its Committee on Research in Finance. The functions of this committee are to review and supervise the specific research activities of the Program staff.

- RALPH A. YOUNG, Chairman pro tempore—Assistant Director, Division of Research and Statistics, Board of Governors of the Federal Reserve System
- RAYMOND J. SAULNIER, Secretary—Barnard College, Columbia University; Director, Financial Research Program, National Bureau of Economic Research
- BENJAMIN HAGGOTT BECKHART—Columbia University; Director of Research, The Chase National Bank
- ARTHUR F. BURNS-Columbia University; Director of Research, National Bureau of Economic Research
- WILLIAM J. CARSON—University of Pennsylvania; Executive Director, National Bureau of Economic Research
- ERNEST M. FISHER-Columbia University
- E. A. GOLDENWEISER-Institute for Advanced Study
- F. CYRIL JAMES-Principal and Vice-Chancellor, McGill University
- WALTER LICHTENSTEIN-Vice-President, The First National Bank of Chicago
- WALTER L. MITCHELL, JR .- Assistant to the President, Dun & Bradstreet, Inc.
- WESLEY C. MITCHELL—Columbia University; Research Staff, National Bureau of Economic Research
- SHEPARD MORGAN-Vice-President, The Chase National Bank; Chairman of Board of Directors, National Bureau of Economic Research
- WILLIAM I. MYERS-Dean, College of Agriculture, Cornell University
- JACK H. RIDDLE-Economic Adviser, Bankers Trust Company
- GEORGE BASSETT ROBERTS...Vice-President, The National City Bank; Treasurer. National Bureau of Economic Research
- WOODLIEF THOMAS—Director, Division of Research and Statistics, Board of Governors of the Federal Reserve System
- DONALD S. THOMPSON—Research Staff, National Bureau of Economic Research
- ROBERT B. WARREN-Institute for Advanced Study
- JOHN H. WILLIAMS—Dean, Graduate School of Public Administration, Harvard University; Vice-President, Federal Reserve Bank of New York
- LEO WOLMAN-Columbia University; Research Staff, National Bureau of Economic Research
- DONALD B. WOODWARD—Second Vice-President, Mutual Life Insurance Company of New York

SELECTED PUBLICATIONS of the NATIONAL BUREAU OF ECONOMIC RESEARCH

FINANCIAL RESEARCH PROGRAM

ıI.	A Program of Financial Research	• .
	1. Report of the Exploratory Committee on Fina (1937)	ncial Research 96 pp., \$1.00
	2. Inventory of Current Research on Financial	
II.	STUDIES IN CONSUMER INSTALMENT FINANCIN	G
	2. Sales Finance Companies and Their Credit P	ractices (1940)
	Wilbur C. Plummer and Ralph A. Young	324 pp., \$3.00
	3. Commercial Banks and Consumer Instalment	Credit (1940)
	John M. Chapman and Associates	342 pp., \$3.00
ī,	4. Industrial Banking Companies and Their Cre (1940)	edit Practices
	R. J. Saulnier	216 pp., \$2.00
	5. Government Agencies of Consumer Instalme	ent Credit (1940)
	J. D. Coppock	240 pp., \$2.50
	6. The Pattern of Consumer Debt, 1935-36 (19	40)
-	Blanche Bernstein	256 pp., \$2.50
	7. The Volume of Consumer Instalment Credit Duncan McC. Holthausen in collaboration Merriam and Rolf Nugent	
	8. Risk Elements in Consumer Instalment Finar	
	David Durand	128 pp., \$1.50
		n, 186 pp., \$2.00
	 Comparative Operating Experience of Con Financing Agencies and Commercial Banks, 	sumer Instalment
	Ernst A. Dauer	240 pp., \$3.00
III.	STUDIES IN BUSINESS FINANCING	
	Term Lending to Business (1942) Neil H. Jacoby and R. J. Saulnier	184 pp., \$2.00
	Financing Small Corporations in Five Manufac	
	1926-36 (1942), Charles L. Merwin	192 pp., \$1.50
	Accounts Receivable Financing (1943)	-
•	R. J. Saulnier and Neil H. Jacoby	176 pp., \$2.00

	The Financing of Large Corporations, 1920-39 (Albert R. Koch			\$1.50
	Financing Equipment for Commercial and Indust (1944)	rial E	nte r ţ	rise
	R. J. Saulnier and Neil H. Jacoby	112	PP.,	\$1.50
	Financing Inventory on Field Warehouse Receipt	•	•	
	Neil H. Jacoby and R. J. Saulnier		• •	\$1.50
	The Pattern of Corporate Financial Structure: View of Manufacturing, Mining, Trade, and Co (1945)			
	Walter A. Chudson	164	pp.,	\$2.00
	Corporate Cash Balances, 1914-43 (1945)			
	Friedrich A. Lutz	148	pp.,	\$2.00
	Business Finance and Banking (1946) Neil H. Jacoby and R. J. Saulnier		(in)	press)
IV.	Occasional Papers			
	 The Effect of War on Business Financing: Ma and Trade, World War I (November 1943) R. A. Young and C. H. Schmidt 	·		.50
	11. The Effect of War on Currency and Deposits 1943)	(Septe	embe	
	Charles R. Whittlesey	, ,		.35
	 British and American Plans for International Stabilization (January 1944) J. H. Riddle 	u Cui	renc	y .35
	19. Canada's Financial System in War (April 194	44)		.,,,
	B. H. Higgins	-		.50
	20. Nazi War Finance and Banking (April 1944) Otto Nathan			.50
	22. Bank Liquidity and the War (May 1945) Charles R. Whittlesey			.50
CO	nference on research in income ani) WE	ALT	H
	Studies in Income and Wealth			
	Vol. I (1937)	370	pp.,	\$2.50
	Vol. VI (1944)	302	рр. ,	\$3.00
Vol. VII: Changes in Income Distribution during the Great D				
	pression (1946), Horst Mendershauen	_		\$2.50
	Vol. VIII (1946)	320	pp.,	\$3.00

STUDI	ES IN BUSINESS CYCLES	
	The Problem and Its Setting (1927) Wesley C. Mitchell	510 pp., \$5.00
, 2 .	Measuring Business Cycles (1946) A. F. Burns and Wesley C. Mitchell	592 pp., 8 x 12, \$5.00
TWEN	TY-FIFTH ANNIVERSARY SERIES	
1.	National Income: A Summary of Findin Simon Kuznets	ngs 160 pp., \$ 1.50
2.	Price-Quantity Interactions in Business C Frederick C. Mills	Cycles (in press)
TECHN	NICAL PAPERS	* m
1.	A Significance Test for Time Series an Observations (September 1941) W. Allen Wallis and Geoffrey H. Moor	
3.	Basic Yields of Corporate Bonds, 1900-1 David Durand	
GENEI	RAL SERIES	
38.	Residential Real Estate, Its Economic Values, Rents, Family Incomes, Finance Together with Estimates for All Real Est D. L. Wickens	ing, and Construction,
39.	The Output of Manufacturing Industrie	
	Solomon Fabricant	710 pp., \$4.50
41.	Employment in Manufacturing, 1899-19 Relation to the Volume of Production ([1942]
	Solomon Fabricant	382 pp., \$3.00
42.	American Agriculture, 1899-1939: A Stument and Productivity (1942)	
42	Harold Barger and Hans H. Landsberg	• •
43.	The Mining Industries, 1899-1939: A ployment and Productivity (1944)	Sinay of Onipui, Em-
	Harold Barger and Sam H. Schurr	474 pp., \$3.00
· 44.	National Product in Wartime (1945)	1 2 (1 0 00
45	Simon Kuznets	174 pp., \$2.00
4),	Income from Independent Professional Milton Friedman and Simon Kuznets	636 pp., \$4.50