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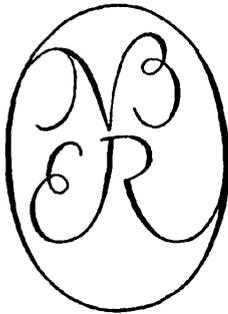
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The Postwar Residential Mortgage Market

BY
SAUL B. KLAMAN



A STUDY BY THE
NATIONAL BUREAU OF ECONOMIC RESEARCH



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Saul B. Klamman

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

CONTENTS

FOREWORD BY RAYMOND W. GOLDSMITH	<i>xxi</i>
PREFACE	<i>xxvii</i>
1. PLAN OF THE BOOK AND SUMMARY OF FINDINGS	
Plan of the Book	3
Summary of Findings	5
Postwar Changes in the Structure of Mortgage Debt	5
Pattern of Mortgage Flows and Underlying Influences	7
Pattern of Mortgage Interest Rates	12
Institutional Framework of Mortgage Markets	15
2. SURVEY OF POSTWAR CHANGES IN MORTGAGE DEBT STRUCTURE AND IN MORTGAGE FLOWS	
Long-Term Position of Mortgage Debt in the Economy	25
Mortgage Debt before and after Two World Wars	30
Structure of Mortgage Debt at Beginning of Post-World War II Decade	30
Net Flow of Mortgage Funds in Postwar Decade	39
Structure of Mortgage Debt at End of Postwar Decade	45
3. ELEMENTS IN THE CHANGING POSTWAR MORTGAGE MARKET	
Expansionary Influences at Work, 1946–1950	49
Demand for Mortgage Credit	50
Liquidity of Financial Institutions	50
Federal Mortgage Programs and Policies	52
Mortgage Markets in a Changing Setting, 1951–1956	55
Mortgage Markets under Restraint, 1951–1953	56
Resumption of Expansionary Forces, 1953–1956	66
Mortgage Markets Once Again under Restraint, 1955–1956	69
4. POSTWAR PATTERN OF MORTGAGE INTEREST RATES	
Course of Conventional Mortgage Interest Rates	74
Amplitude of Conventional Mortgage Interest Rate Movements	75
Lag in Mortgage Interest Changes	78
Comparison of Interest Rates on Home and Income Property Loans	80

CONTENTS

Longer-Term Movements in Conventional Mortgage Interest Rates	82
FHA and VA Mortgage Interest Rates and Prices	83
Discounts and Premiums	85
Yield Differentials between FHA, VA, and Conventional Mortgages	90
Geographic Variation in Mortgage Yields	95
5. FLOW OF FUNDS INTO MORTGAGE MARKETS	
Net Flow of Mortgage Funds Under Expansionary Influences, 1946-1950	99
Mortgage Flows Relative to Other Capital Market Flows	100
Flows into Various Mortgage Market Sectors	107
Home Mortgage Flows, by Type of Mortgage and Financial Institution	110
Net Flow of Mortgage Funds in a Changing Capital Market Framework, 1951-1956	120
Mortgage Flows Relative to Other Capital Market Flows	121
Flows into Various Mortgage Market Sectors	123
Home Mortgage Flows, by Type of Mortgage and Financial Institution	125
6. MORTGAGE LENDING POLICIES OF FINANCIAL INTERMEDIARIES	
Beginnings of Mortgage Lending	135
Financial Intermediaries and Mortgage Markets	136
Life Insurance Companies	137
Factors in Mortgage Investment Decisions	138
Mortgage Lending Policies and Practices	141
Mutual Savings Banks	147
Factors in Mortgage Investment Decisions	148
Mortgage Lending Policies and Practices	149
Savings and Loan Associations	156
Background and Development	156
Mortgage Lending Policies and Practices	158
Commercial Banks	165
Significance of Real Estate Loans	165
Mortgage Lending Policies and Practices	166
Other Financial Institutions in the Mortgage Market	172

CONTENTS

7. MORTGAGE MARKET TECHNIQUES AND CHARACTERISTICS	
Time Lags in Mortgage Lending	175
Relationship between Construction, Interim, and Permanent Mortgage Financing	176
Mortgage Commitment Techniques	178
Interim Financing Developments	182
Variations in Technique	182
Data on Interim Financing	190
Primary and Secondary Mortgage Market Characteristics and Relationships	195
Concepts and Definitions	196
Statistics on Secondary Market Activity	200
Marketing Organization, Costs, and Prices	213
The Federal National Mortgage Association	217
Junior Mortgage Financing	227
Size of the Market	227
Nature and Purpose of Junior Mortgage Financing	230
Market Participants	232
Market Organization and Techniques	233
Prices and Terms of Junior Mortgages	235
8. THE POSTWAR RISE OF MORTGAGE COMPANIES	
Nature and Characteristics of Mortgage Companies	239
Regulation of Activities	243
Sources of Income	244
Relationship to Investors and Borrowers	245
Age, Growth, and Geographic Distribution	248
Mortgage Operations	255
Mortgage and Construction Loans	256
Types of Mortgage Loans	258
Principal Purchasers of Mortgage Company Loans	260
Loan Closings and Investor Commitments	262
Financial Structure	264
Asset-Size Distribution	264
Uses and Sources of Funds	266
Short-Term Movements in Uses and Sources of Funds, 1953-1955	274
Concluding Comments	278

CONTENTS

APPENDIX	
Supplementary Tables to Text Charts	283
EXHIBIT	
Facsimile of Questionnaire on Mortgage Market Activity of Savings and Loan Associations	291
SUBJECT INDEX	295
AUTHOR INDEX	300

TABLES

1. Real Estate Wealth and Mortgage Debt, Selected Years, 1900–1956	28
2. Nonfarm Mortgage Loans and Total Assets Held by Main Types of Financial Institutions, Selected Years, 1900–1956	29
3. Structure of Mortgage Debt and Net Mortgage Flows, by Type of Property Mortgaged, 1945–1956	32
4. Structure of Residential Mortgage Debt and Net Residential Mortgage Flows, 1945–1956	33
5. Structure of Mortgage Debt and Net Mortgage Flows, by Type of Holder, 1945–1956	35
6. Percentage Distribution: Ownership of Mortgage Debt, by Type of Property and Mortgage, 1945–1956	36
7. Percentage Distribution: Composition of Mortgage Portfolios of Main Types of Financial Institutions, 1945–1956	37
8. Structure of Mortgage Debt and Net Mortgage Flows, by Type of Borrower, 1945–1956	39
9. Percentage Distribution: Net Flow of Mortgage Funds from Lenders, by Type of Property and Mortgage, 1945–1956	43
10. Net Sale of Federal Government Securities and Net Acquisition of Mortgages by Four Main Types of Financial Institutions, 1946–1956	51
11. Terms of Mortgage Lending Under Regulation X	59
12. Turning Points in Interest Rates and Yields on Capital Market Securities	79
13. Regional Prices for VA-Guaranteed Mortgages, by FNMA Agency Area, January and June, 1953–1956	97
14. Mortgage Loans Acquired by New York State Mutual Savings Banks Within the State and Out-of-State, 1946–1955	151
15. Mortgage Loans Held by Mutual Savings Banks Within Their States and Out-of-State, Selected Dates, 1954 and 1955	152
16. Savings and Loan Association Loans for Construction of Homes, by Size of Mortgage Portfolio, Fifty-five Reporting Associations, 1955	160
17. Proportion of Savings and Loan Association Home Construction Loans Made to Builders, by Size of Mortgage Portfolio, Fifty-five Reporting Associations, 1955	161
18. Relationship between Proportion of Savings and Loan Association Loans Made to Builders and Proportion of Their	

TABLES

Loans Made for Home Construction, Fifty-five Reporting Associations, 1955	161
19. Percentage of Savings and Loan Association Loans to Builders Resulting in Permanent Mortgage Loans, Fifty-five Reporting Associations, 1955	162
20. Outstanding Interim Financing Credits Extended by Commercial Banks to Mortgage Lenders, by Type of Borrower and Type of Loan, Selected Periods, 1950-1956	192
21. Percentage Distribution of Outstanding Interim Financing Credits Extended by Commercial Banks to Mortgage Lenders, by Type of Borrower and Type of Loan, Selected Periods, 1954-1956	194
22. First Mortgages Originated and Purchased on Owner-Occupied Properties, by Type of Holder, 1950	201
23. First Mortgages Originated and Purchased on Rental Properties, by Type of Holder, 1950	202
24. Primary and Secondary Market Activity of Main Types of Financial Institutions in FHA-Insured Home Mortgages, 1947-1956	204
25. Purchases and Sales of FHA-Insured Home Mortgages as Per Cent of Total Transfer Activity, by Type of Institution, 1945-1956	205
26. Mortgage Loans Purchased by Life Insurance Companies, 1946-1955	209
27. Primary and Secondary Mortgage Market Activity of Savings and Loan Associations, 1952-1955	210
28. Percentage Distribution of Amounts of Mortgage Purchases and Sales by Savings and Loan Associations, 1953-1955	212
29. Percentage Distribution of Sellers of Mortgages to FNMA, 1949-1956	224
30. Number of Purchasers and Amount of Purchases of Mortgages from FNMA, and Percentage Distribution of Each, August 1949-June 1955	225
31. Geographic Distribution of FNMA Mortgage Purchases, 1954, and Sales, 1949-1955	226
32. First and Junior Mortgages on Residential Properties, 1950 and 1956	228
33. First and Junior Mortgages on Owner-Occupied One-Family Unit Properties, 1950 and 1956	229
34. Mortgage Companies Classified by Asset Size in 1946 and 1954	251

TABLES

35. Distribution of Mortgage Loans Sold by Selected Mortgage Companies to Institutional and Other Investors, 1953-1955	261
36. Distribution of Mortgage Companies and Assets, by Asset-Size Class in Selected Years, 1946-1954	264
37. Combined Balance Sheet of Mortgage Companies, 1945-1955	268
38. Percentage Distribution: Combined Balance Sheet of Mortgage Companies, 1945-1955	269
39. Percentage Distribution: Combined Quarterly Balance Sheet of Sixty-six Selected Mortgage Companies, December 31, 1952 through 1955	275
40. Percentage Changes in Mortgage Inventory of Mortgage Companies and One- to Four-Family Mortgage Debt Outstanding, 1953-1955	278

APPENDIX TABLES

A-1. VA and FHA Gross Mortgage Flows, and Yield Differentials Between Contract Interest Rates on VA and FHA Mortgages and Yields on New Issues of Aaa Corporate Bonds, Quarterly, 1951-1958	283
A-2. Ratios of Nonfarm Mortgage Debt to Gross National Product and to Total and Private Debt, 1900-1956	284
A-3. Relative Position of Nonfarm and Farm Mortgage Debt in the United States Economy Before and After Two World Wars	284
A-4. Comparison of Interest Rates and Yield on Mortgages and Other Capital Market Securities, Quarterly Averages, 1946-1956	285
A-5. Comparison of Average Interest Rates on Conventional Mortgage Loans Closed on Homes and Income Properties, Quarterly, 1951-1956	286
A-6. Comparison of Average Interest Rates on Conventional Mortgage Loans Closed on Homes and Income Properties, Annually, 1920-1956	287
A-7. Comparison of Calculated Yields on FHA and VA Home Loans and Contract Interest Rates on Conventional Home Loans, Quarterly, 1953-1956	288
A-8. Comparison of Net Mortgage Flows and Other Net Capital Market Flows, 1946-1956	288
A-9. Percentage Ratios of Net Mortgage Flows to Total Net Capital Market Flows Through Main Financial Institutions, 1946-1956	289
A-10. Gross Mortgage Credit Extended to Finance House Purchases, and Number of Houses Purchased, 1950-1956	289
A-11. Typical Disbursement of Mortgage Funds Following Date of Commitment	290

CHARTS

1. Comparison of FHA and VA Gross Mortgage Flows, with Differentials between Contract Interest Rates on FHA and VA Mortgages and Yields on New Aaa Corporate Bond Issues, Quarterly, 1951-1958	14
2. Ratios of Nonfarm Mortgage Debt to GNP and Total and Private Debt, 1900-1956	27
3. Mortgage Debt in the United States Economy—Before and After Two World Wars	31
4. Net Flow of Funds into Main Capital and Money Market Sectors, 1946-1956	40
5. Net Flow of Mortgage Funds, 1946-1956	41
6. Comparison of the Structure of Postwar Mortgage Debt, December 31, 1945, and December 31, 1956	46
7. Interest Rates and Yields on Mortgage Loans and Other Capital Market Securities, Quarterly, 1946-1956	76
8. Conventional Mortgage Interest Rates on Home and Income Property Loans Closed, Quarterly, 1951-1956	81
9. Conventional Mortgage Interest Rates on Home and Income Property Loans, 1920-1956	83
10. Average Prices of FHA and VA Four and One-Half Per Cent Mortgages, Monthly, 1953-1956	91
11. Comparison of Average Yields on VA-Guaranteed Mortgages, FHA-Insured Home Mortgages, and Average Contract Interest Rates on Conventional Home Mortgages, Quarterly, 1953-1956	92
12. Net Flow of Funds into Capital Markets, 1946-1956	101
13. Ratios of Net Mortgage Flow to Total Net Capital Market Flow Through Main Types of Financial Institutions, 1946-1956	102
14. Net Flow of Mortgage Funds from Main Types of Financial Institutions, 1946-1956	103
15. Net Flow of Mortgage Funds from Broad Lender Groups, 1946-1956	108
16. Net Flow of Mortgage Funds for Loans on Main Classes of Property, 1946-1956	109
17. Net Flow of Home Mortgage Funds, by Type of Mortgage, 1946-1956	112

CHARTS

18. Gross Flow of Federally Underwritten Mortgage Loans, 1946-1956	113
19. Net Flow of VA-Guaranteed Mortgage Funds from Main Types of Financial Institutions, 1946-1956	117
20. Net Flow of FHA-Insured Home Mortgage Funds from Main Types of Financial Institutions, 1946-1956	118
21. Net Flow of Conventional Home Mortgage Funds from Main Types of Financial Institutions, 1946-1956	119
22. Gross Mortgage Credit Extended to Finance House Purchases, 1950-1956	127
23. Mortgage Portfolio Composition of Life Insurance Companies, 1945-1956	142
24. Percentage Distribution: Typical Life Insurance Company Disbursement of Mortgage Funds Following Month of Commitment	146
25. Mortgage Portfolio Composition of Mutual Savings Banks, End of Year, 1945-1956	154
26. Mortgage Portfolio Composition of Savings and Loan Associations, End of Year, 1945-1956	164
27. Mortgage Portfolio Composition of Commercial Banks, End of Year, 1945-1956	171
28. Mortgage Purchases of FNMA Under Reorganized Secondary Market Program, November 1, 1954-1956	223
29. Asset Growth of Mortgage Companies, by 1954 Asset-Size Class, 1945-1955	250
30. Mortgage versus Construction Loans Held and Closed by Mortgage Companies, 1953-1955	257
31. Types of Mortgage Loans Held and Closed by Mortgage Companies, 1953-1955	259
32. Lorenz Curves of Assets of Mortgage Companies, 1946, 1950, and 1954	265
33. Total Assets, Mortgage Loans, and Notes Payable of Mortgage Companies, 1945-1955	267
34. Relationships Among Mortgage Loans, Notes Payable, and Total Assets of Mortgage Companies, 1945-1955	270
35. Main Assets and Liabilities of Mortgage Companies, 1946, 1950, and 1955	272
36. Total Assets, Mortgage Loans, and Notes Payable of Sixty-six Companies; Quarterly, December 31, 1952 through 1955	275

FOREWORD

IN OUR admiration for technological achievements—giant dams, steel mills, and cyclotrons—we may fail to recognize that residential real estate, though changing but slowly in form and efficiency, has been and is still the largest single component of national wealth, in the postwar decade as well as throughout the nineteenth century and in the United States as well as in foreign countries. At the present time, residential structures account for almost one-third of the total value of all reproducible tangible wealth in this country, and residential real estate (including land) represents practically as high a fraction of total national wealth.¹ Similarly, expenditures on residential structures are the largest single component of capital formation, gross or net. During the 1950's, these expenditures accounted, on the average, for one-fifth to one-fourth of national and for one-fourth to one-third of private capital formation. Residential real estate is also the most important single investment nonfarm consumers own, representing about one-fourth of their total assets. Since the proportion of borrowing to owners' equity investment is higher for residential real estate than for most other forms of capital formation (excluding consumer durables), the extension of residential mortgage credit and the increase in the residential mortgage debt constitute a large proportion of total debt financing and a still larger proportion of external long-term financing. In the decade ending in 1955, the volume of residential mortgage debt outstanding increased by almost \$80 billion. This is considerably more than the increase in most other forms of financial assets (disregarding pure valuation changes). The volume of corporate bonds outstanding and of consumer credit, for instance, each increased by only slightly more than \$40 billion during the same decade. The debt of state and local governments rose by only \$30 billion and total net sales of corporate stock aggregated less than \$20 billion, while the volume of federal government debt available to the public remained virtually unchanged. The growth in residential mortgage debt also exceeded the increase in financial assets, such as the premium reserves of life insurance companies (\$36 billion), or the time deposits with commercial banks (\$20 billion) and mutual savings banks (\$10 billion), and share accounts with saving and loan associations (\$25 billion).

¹ The figures used in this Foreword, for illustration purposes only, have been rounded. Sources are not specifically cited, nor is attention drawn to the usually well-known limitations of the estimates.

FOREWORD

Even if residential mortgage loans did not constitute so large a proportion of the entire capital market, the development and operation of the residential mortgage market during the postwar period would still be of great interest within the framework of a general analysis of the American capital market. For in the market for residential mortgages we can observe, through the detailed discussion of its quantitative and qualitative aspects provided in Saul Klamann's book, several of the basic features and trends that have characterized the American capital market in the postwar period. We can observe them possibly with more clarity, and certainly on the basis of more adequate statistical data and qualitative first-hand information, than in almost any other segment of the American capital market.

The first of the basic tendencies exemplified by developments in the residential mortgage market during the postwar period is its institutionalization. At the end of 1956 nearly 90 per cent of all outstanding residential mortgages were held by financial institutions, 83 per cent of them by the four types of institutions which dominate the market—saving and loan associations, mutual savings banks, commercial banks, and life insurance companies. Financial institutions also absorbed over 90 per cent of the net increase in residential mortgage debt during the postwar period.

The second characteristic which the market for residential mortgages shares with many other segments of the capital market is the delayed fruition during the postwar period of a crop from seeds planted in the mid-thirties—the large-scale adoption of government guaranteed mortgages. This process involved the use of legal and technical forms and of facilitating government agencies which were created as part of the far-reaching reconstruction of American finance under the New Deal—a development that is still often underrated in its long-term significance, possibly because many of the present-day users of these new instruments and organizations would like to forget their origin.

The standardization of mortgage contract terms, with its limitations on length of life, interest rate, and loan-to-value ratios, and the introduction of regular amortization may well be regarded as a separate third characteristic of the postwar market for residential mortgages, even though it is but the outstanding example of the rise to predominance of techniques that were actually introduced during the 1930's. It is only since guaranteed mortgages became standardized and almost fungible instruments that a true secondary market in residential mortgages could develop, a market comparable in essence to that existing for government

FOREWORD

and corporate securities, even though during the postwar decade it was still limited to a wholesale market among financial institutions.

The market for residential mortgages, fourthly, has provided some very interesting examples of financial innovation, the mechanism of challenge and response operating more clearly here than in most other segments of the capital market. The first of these innovations is the rise of the technique of forward commitments, primarily between large lenders such as the insurance companies and large-scale builders of single-family homes and apartment houses. This technique, described in detail in Chapter 7 of Klamán's book, has had far-reaching influence, not only on the timing of residential building and on the portfolio management of financial institutions (to say nothing of its effect on the interpretation of current mortgage statistics), but also on the behavior of the capital market and beyond that on the timing and width of the business cycle. A second innovation is the development of a new type of financial institution, the mortgage company, which acts as an agent of large-scale institutional investors and is closely tied in its growth and operations to the market in guaranteed home mortgages. This innovation is summarized in Chapter 8, a condensation of the fuller description in his *Postwar Rise of Mortgage Companies*.

This is not the first time that the National Bureau of Economic Research has turned its attention to the market for residential real estate. One of its first publications dealing with it, Wickens' *Residential Real Estate* of 1941, may well be regarded as one of the starting points of serious detailed statistical study in the field. The six volumes reporting the Studies in Urban Mortgage Financing, mostly published from 1950 to 1952, and *Capital Formation in Residential Real Estate*, by Grebler, Blank, and Winnick, published in 1956, represented later substantial contributions to our knowledge of that market. They deal, however, primarily with developments before or immediately after World War II. Klamán's book, in keeping with the program of the Postwar Capital Market Study, concentrates on the financial side of the market for residential real estate, and within that field is limited to the use of credit in financing the construction and sale of dwellings, and deals only peripherally with owners' equity investment and with changes in it that represent realized or unrealized capital gains.

Klamán's study reported here and in two papers previously published by the National Bureau, apart from providing the first reasonably complete, statistically founded study of the market for residential mortgages during the postwar period, makes several contributions to the

FOREWORD

analysis of this segment of the capital market. It provides the most consistent and detailed analysis of mortgage holdings and flows and—very important for cyclical analysis—puts them on a quarterly basis. It originates a series of interest rates on conventional mortgages which, we hope, will be continued and improved by some of the organizations with practical or research interests in the field. It supplies a detailed description and analysis of institutional arrangements and market techniques and a discussion of the economic problems they raise. It presents for the first time a comprehensive discussion of the mortgage portfolio policies of the main types of financial institutions. Finally, it provides a substantial body of new material on the growth and operation of mortgage companies.

Much, however, still remains to be done before a complete analysis of past and current developments in the residential mortgage market will be possible, and Klamann is careful to point out, particularly in the preface, the gaps in our information and the deficiencies of the material he has been dealing with, most of them entirely beyond remedy in this study.

Even in the narrow field of straightforward statistical information on flows and holdings of residential mortgages the gaps in our knowledge are still wide and serious. We are still unable to present an adequate picture of mortgage flows on a gross rather than a net basis, as we are unable to separate for each of the involved major groups of lenders and borrowers new mortgage loans made, contractual and other repayments. We cannot as yet separate, on either a gross or a net basis, mortgage flows for new and old structures or owner-occupied and rented properties. We also have very little information on current terms of lending. Moreover, virtually all of our market information on mortgage lenders is limited to the administration of and transactions in residential mortgages by financial institutions. To be sure, there is every indication that financial institutions now account for at least four-fifths of all residential mortgages, but the remaining fifth is still large enough compared to many other segments of the capital market to merit more than to be clouded in almost complete statistical obscurity.

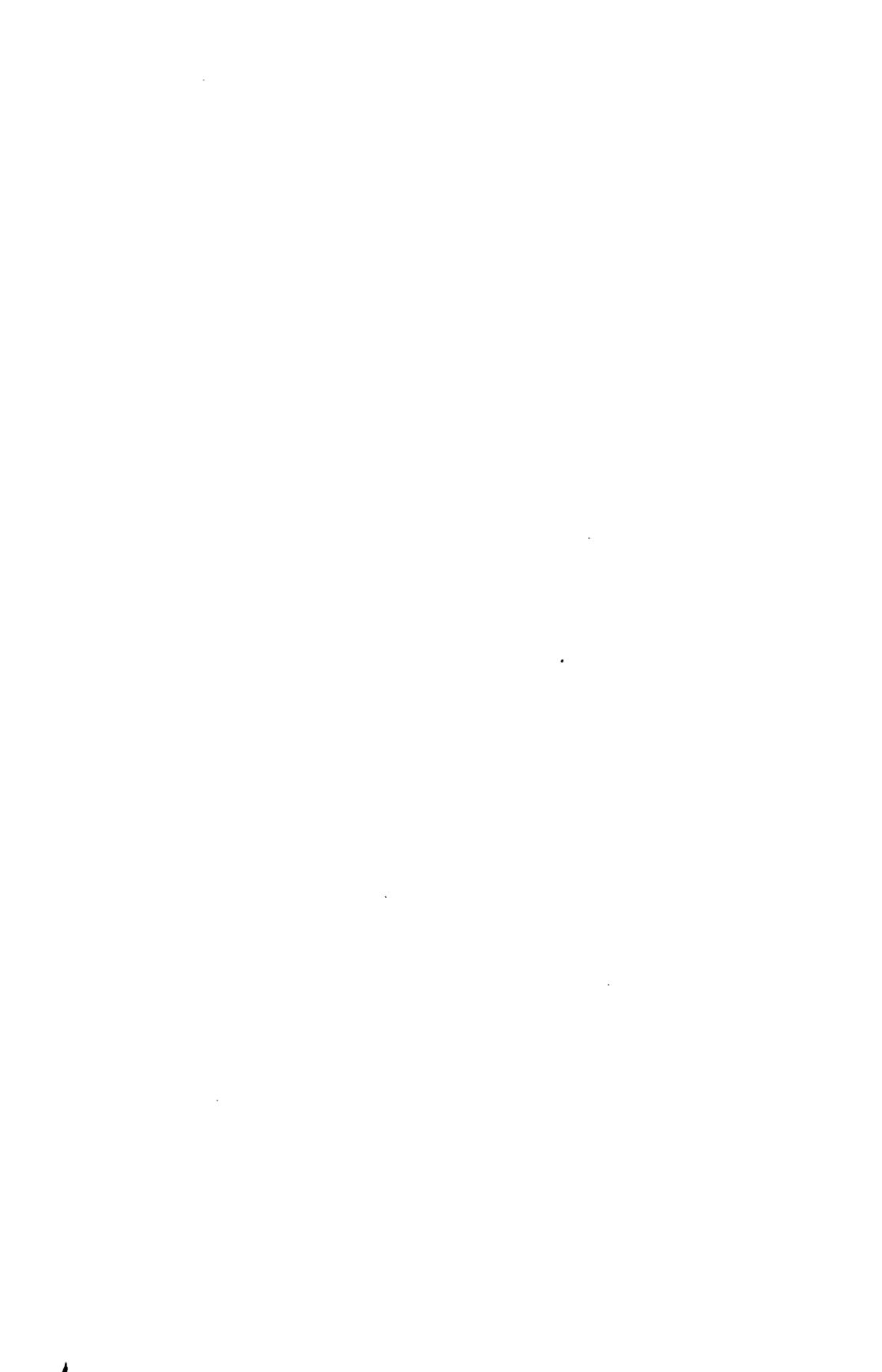
Turning to broader aspects of the market for residential mortgages, we know as yet very little about the demand for mortgage loans. Klamann's book, as virtually all the literature in the field, concentrates on the supply side, partly because, as he suggests, it has been supply rather than demand that has determined volume and price in the postwar residential mortgage market. As a result, our knowledge is scant about

FOREWORD

consumers' decisions to buy or rent housing facilities; about the selection of types of shelter; and—what is more pertinent—the way in which the acquisition of a home, the provision of the initial equity, and the later servicing and repayment of the mortgage loan fit into the consumer's over-all financial picture.

Finally, we are not yet able to integrate what we have learned about the residential mortgage market into the picture of the whole American capital market. This deficiency, which is felt particularly when we try to explain the level and movements of residential mortgage interest rates and the differentials between them and other yield rates, is due, of course, less to deficiencies in our statistics of the residential mortgage market and their analysis than to the still greater gaps in our information and analysis in several other important sectors of the capital market. Outstanding among them is the market for nonresidential nonfarm mortgages. In view of the size and importance of that market the degree of our lack of relevant statistics and the almost complete absence of analysis of what happens in that market is truly astonishing. Not the least to be gained from reading a description and analysis of the market for residential mortgages, which Klamann's book provides, is the realization of how great is the need for a similar study of the market for nonresidential nonfarm mortgages.

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PREFACE

WHEN this study was undertaken in 1956 it was clear that it would have to deal selectively with the broad and complex subject of postwar real estate finance. Several earlier studies of the National Bureau of Economic Research had already dealt with various aspects of real estate markets,¹ and also the time available for the study was limited essentially to one year.

The selection of areas for investigation was guided, of course, by what had been developed in earlier studies. Attention was centered on fields either previously neglected or for which new or later information had become available. The economic and statistical framework in which the study was cast as part of the National Bureau's Postwar Capital Market Study, moreover, was fundamental in determining its nature and organization. As such, this study is oriented economically towards capital market analysis and statistically towards flow-of-funds accounts. Therefore, it differs basically in subject matter and orientation from earlier National Bureau studies of real estate finance.

It differs in yet another important respect. Compared with the earlier investigations of basic long-run developments over several decades, this study is concerned with the recent relatively short period of postwar economic history from 1945 to 1956. The concern with short-run market changes and their causes results in an analytical approach fundamentally different from that associated with longer-run trend analysis.

Within the basic guideposts established for the selection of subject matter and organization of the study, a wide choice still remained. The final form and content of the report reflects in part personal preferences and interests of the author, and in part the relative feasibility of developing new information about previously uncharted areas. Each of these elements acted to limit the full realization of the other. As a result, several important subdivisions of real estate finance—both statistical

¹ Published by the National Bureau of Economic Research: David L. Wickens, *Residential Real Estate: Its Economic Position as Shown by Values, Rents, Family Incomes, Financing, and Construction, Together with Estimates for All Real Estate* (1941); Raymond J. Saulnier, *Urban Mortgage Lending by Life Insurance Companies* (1950); Miles L. Colean, *The Impact of Government on Real Estate Finance in the United States* (1950); Ernest M. Fisher, *Urban Real Estate Markets: Characteristics and Financing* (1951); and Carl F. Behrens, *Commercial Bank Activities in Urban Mortgage Financing*; also Edward E. Edwards, "Urban Real Estate Financing by Savings and Loan Associations" (1950, unpublished). Published by Princeton University Press for the National Bureau: J. E. Morton, *Urban Mortgage Lending: Comparative Markets and Experience* (1956); Leo Grebler, David M. Blank, and Louis Winnick, *Capital Formation in Residential Real Estate: Trends and Prospects* (1956); and Raymond J. Saulnier, Harold G. Halcrow, and Neil H. Jacoby, *Federal Lending and Loan Insurance* (1958).

PREFACE

and economic—remain yet to be explored. Among these subjects are nonresidential finance, gross mortgage flows, terms of mortgage lending, mortgage borrower analysis, and real estate market transactions. Some were ruled out early in the study, others were discarded only after strong efforts were made to develop new information.

Among these subjects, perhaps the one developed furthest, yet not far enough to yield well-rounded results for inclusion here, was that on gross mortgage flows. Considerable progress was made in achieving a framework for gross mortgage flow analysis, by main types of lender and type of mortgage. The work done indicates the feasibility of maintaining—on an annual basis at least—detailed gross mortgage flow accounts for life insurance companies, mutual savings banks, and savings and loan associations. Only for commercial banks, among the main types of financial institutions, are basic data inadequate to support estimates of gross mortgage lending. For other less important mortgage lenders, not only are estimates of gross mortgage flows impracticable at present, but also data on net flows are inadequate.² Notwithstanding the many shortcomings in the data, it is unfortunate that circumstances prevented the completion of even a truncated framework for gross mortgage flow analysis. It is to be hoped that the preliminary unpublished data developed in this study will be amplified by others and incorporated into a useful set of accounts.

The advantage of gross over net financial flows for analysis of market developments is clear. By distinguishing between credit extension and repayment, gross figures permit a more complete analysis and understanding of the response of various market participants to shifting forces at work in capital markets. Moreover, breaking down mortgage debt repayment between contractual obligations and prepayments provides further insight into the nature of real estate market activity. Limiting analysis to net changes in outstanding indebtedness, on the other hand, obscures the distinction between incurrence of debt and its repayment, and between types of debt repayment. Changes in the net flows of mortgage funds from various types of financial institutions reflect not only shifts in response to relative yields and other factors, but also differences in rates of repayment between time periods and types of institutions.

Another basic statistical gap hampering analysis of mortgage markets relates to the inadequacy of comprehensive series on mortgage lending terms—loan-to-value ratios, amortization provisions, maturities, downpayments, and interest rates. A serious attempt was made in the present

² See Saul B. Klamann, *The Volume of Mortgage Debt in the Postwar Decade*, Technical Paper 13, New York, National Bureau of Economic Research, 1958.

PREFACE

study to develop current information on this subject, so that the National Bureau's series carried through 1947 could be extended. It proved feasible, however, to obtain data only on conventional mortgage interest rates, and these were not as comprehensive as desired. For a fuller understanding of shifts in mortgage flows and of movements in mortgage interest rates, it is essential that current reporting of data on contract mortgage terms be developed.

Nonresidential real estate finance was recognized in the preliminary phases of investigation as too vast a subject to treat adequately within the framework adopted. The over-all statistics on nonresidential mortgage flows are presented in Chapter 2, but thereafter the report is devoted principally to residential mortgage markets. Postwar institutional lending policies and general market techniques have been significantly different in nonresidential from those in residential transactions. Financing of nonresidential building and transfers by other means than mortgages has become increasingly important in recent years. Equity financing, sale-leaseback arrangements, and directly placed bond issues, among other financing techniques, have for one reason or another been better suited than mortgage financing to some transactions. Thus, the decision to concentrate in this study upon the residential sector resulted partly from its orientation towards real estate mortgages rather than real estate finance generally, and partly from the fact that the bulk of postwar mortgage flows has been associated with residential transactions. In addition, the development of the relevant information on nonresidential market developments was beyond the scope of the work as planned.

A broad aspect of mortgage market analysis given only minor consideration in this monograph concerns the mortgage borrower or demand side of the market. Demand factors are, of course, basic to developments in any market, and in the summary appraisal of major elements influencing the postwar mortgage market those factors have been taken into account. Summary data on mortgage debt by type of borrower are also presented. But in the more detailed appraisal of shifts in mortgage flows and of institutional aspects of mortgage markets, the analysis deals largely with the supply side of the equation. This course was taken mainly because the supply of mortgage funds—its availability and terms—has been a much greater factor than the demand for mortgage funds in influencing postwar changes in the residential mortgage market. Moreover, information bearing on mortgage demand, including borrower characteristics, is fairly limited compared with data on mortgage supply.

This is not to suggest that analysis of the demand side of mortgage

PREFACE

markets is unimportant. On the contrary, in view of the paucity of data and of analysis in this area—compared to other sectors of the capital market, for example—it would seem eminently worthwhile for students of real estate finance to devote more attention to it. There is outstanding need for improvement of knowledge and for appraisal of the economic position of mortgage borrowers, and measuring the forces underlying demands for mortgage funds in both residential and nonresidential markets.

In the investigation reported here, I have incurred debts to many individuals and organizations. My indebtedness to some has already been recorded in two previous reports published by the National Bureau.³ I am happy to acknowledge here the assistance and guidance of others. The staff reading committee, Leo Grebler, Richard Selden, and Raymond W. Goldsmith, carefully reviewed the preliminary manuscript and their suggestions and comments were the basis for improvement and revision of the final draft. Wallace J. Campbell, Harold G. Halcrow, and Gabriel Hauge, all of the National Bureau's Board of Directors, rendered helpful criticism. The influence of Raymond Goldsmith, as director of the Postwar Capital Market Study, upon the report throughout its development and his constant support and interest are gratefully acknowledged.

Grateful acknowledgment is also made to the Advisory Committee on the Postwar Capital Market Study, which assisted in drafting plans for this investigation. Members were: W. A. Clarke, George T. Conklin, Jr., W. Braddock Hickman, Norris O. Johnson, Arnold R. LaForce, Aubrey G. Lanston, Robert P. Mayo, Roger F. Murray, James J. O'Leary, Winfield W. Riefler, Robert V. Roosa, R. J. Saulnier, William H. Steiner, Donald B. Woodward, and Eugene C. Zorn, Jr.

I am indebted to many individuals for sharing with me their time and knowledge, through interview and correspondence, in my search for factual and interpretive information about institutional arrangements, market techniques, and lender policies in the postwar residential mortgage market. Among them are George Bliss, R. Manning Brown, Jr., Norman Carpenter, Thomas P. Coogan, George Conklin, Harry Held, John Jewett, William Keesler, Robert M. Morgan, Raymond T. O'Keefe, John Traynor, King Upton, and William Yoars.

James J. O'Leary, besides paving the way for interviews with officers of several financial institutions, provided valued counsel and encouragement throughout the study. The painstaking job of editing done by Margaret

³ *Ibid.*, and *The Postwar Rise of Mortgage Companies*, Occasional Paper 60, New York, NBER, 1959.

PREFACE

T. Edgar has greatly improved the readability of the book. The charts were drawn by H. Irving Forman, who did his usual peerless job.

I would not have been able to conduct this investigation without the generosity of the Board of Governors of the Federal Reserve System and of Ralph A. Young, now Advisor to the Board, in permitting me a year's leave of absence from my post as staff economist. To them I am deeply grateful.

These acknowledgments would be incomplete without recognition of the contribution of my former colleagues in the Federal Reserve System who were a constant source of intellectual stimulation and challenge through twelve years of association. In this regard I am especially indebted to Ramsay Wood and Frank Garfield, who instilled in me—not without pain—a respect for high standards, which I hope they will find reflected in this monograph.

It remains only to absolve all who have provided generous assistance from any responsibility for the analyses and conclusions of this study and from the inadequacies which undoubtedly remain. Moreover, the views that I have presented do not necessarily reflect those of the Federal Reserve Board, with which I was associated during most of the study, nor the National Association of Mutual Savings Banks, with which I am now associated.

SAUL B. KLAMAN

