This PDF is a selection from an out-of-print volume from the National Bureau of Economic Research

Volume Title: Financial Adjustments to Unemployment

Volume Author/Editor: Philip A. Klein

Volume Publisher: NBER

Volume ISBN: 0-87014-407-3

Volume URL: http://www.nber.org/books/klei65-1

Publication Date: 1965

Chapter Title: Front matter, Financial Adjustments to Unemployment

Chapter Author: Philip A. Klein

Chapter URL: http://www.nber.org/chapters/c1648

Chapter pages in book: (p. -12 - 0)

## PHILIP A. KLEIN THE PENNSYLVANIA STATE UNIVERSITY

# FINANCIAL ADJUSTMENTS TO UNEMPLOYMENT

OCCASIONAL PAPER 93



NATIONAL BUREAU OF ECONOMIC RESEARCH

NEW YORK 1965

Distributed by COLUMBIA UNIVERSITY PRESS
LONDON AND NEW YORK

#### Copyright © 1965 by

National Bureau of Economic Research, Inc.

261 Madison Avenue, New York 16, N.Y.

All Rights Reserved

Library of Congress Catalog Card Number: 65-11220

Price \$2.50

Printed in the United States of America

# RELATION OF THE DIRECTORS TO THE WORK AND PUBLICATIONS OF THE NATIONAL BUREAU OF ECONOMIC RESEARCH

- 1. 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 National 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 National 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 to 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, as revised February 6, 1933, and February 24, 1941)

#### NATIONAL BUREAU OF ECONOMIC RESEARCH

#### 1965

#### OFFICERS

Frank W. Fetter, Chairman Arthur F. Burns, President Theodore O. Yntema, Vice President Donald B. Woodward, Treasurer

Solomon Fabricant, Director of Research Geoffrey H. Moore, Associate Director of Research Hal B. Lary, Associate Director of Research William J. Carson, Executive Director

#### DIRECTORS AT LARGE

Robert B. Anderson, New York City
Wallace J. Campbell, Nationwide Insurance
Erwin D. Canham, Christian Science Monitor
Solomon Fabricant, New York University
Marion B. Folsom, Eastman Kodak Company
Crawford H. Greenewalt, E. I. du Pont de Nemours
& Company
Gabriel Hauge, Manufacturers Hanover Trust
Company
A. J. Hayes, International Association of Machinists
Walter W. Heller, University of Minnesota
Albert J. Hettinger, Jr., Lazard Frères and Company
Nicholas Kelley, Kelley Drye Newhall Maginnes &
Warren

H. W. Laidler, League for Industrial Democracy
Geoffrey H. Moore, National Bureau of Economic
Research
Charles G. Mortimer, General Foods Corporation
J. Wilson Newman, Dun & Bradstreet, Inc.
George B. Roberts, Larchmont, New York
Harry Scherman, Book-of-the-Month Club
Boris Shishkin, American Federation of Labor and
Congress of Industrial Organizations
George Soule, South Kent, Connecticut
Gus Tyler, International Ladies' Garment Workers'
Union
Joseph H. Willits, Langhorne, Pennsylvania
Donald B. Woodward, A. W. Jones and Company

#### DIRECTORS BY UNIVERSITY APPOINTMENT

V. W. Bladen, Toronto Francis M. Boddy, Minnesota Arthur F. Burns, Columbia Lester V. Chandler, Princeton Melvin G. de Chazeau, Cornell Frank W. Fetter, Northwestern R. A. Gordon, California Harold M. Groves, Wisconsin Gottfried Haberler, Harvard Maurice W. Lee, North Carolina Lloyd G. Reynolds, Yale Paul A. Samuelson, Massachusetts Institute of Technology Theodore W. Schultz, Chicago

Willis J. Winn, Pennsylvania

#### DIRECTORS BY APPOINTMENT OF OTHER ORGANIZATIONS

Percival F. Brundage, American Institute of Certified Public Accountants Nathaniel Goldfinger, American Federation of Labor and Congress of Industrial Organizations Harold G. Halcrow, American Farm Economic Association

Murray Shields, American Management Association Willard L. Thorp, American Economic Association W. Allen Wallis, American Statistical Association Harold F. Williamson, Economic History Association Theodore O. Yntema, Committee for Economic Development

#### DIRECTORS EMERITI

Shepard Morgan, Norfolk, Connecticut

N. I. Stone, New York City

Jacob Viner, Princeton, New Jersey

#### RESEARCH STAFF

Moses Abramovitz
Cary S. Becker
William H. Brown, Jr.
Gerhard Bry
Arthur F. Burns
Phillip Cagan
Frank G. Dickinson
James S. Earley
Richard A. Easterlin
Solomon Fabricant
Albert Fishlow
Milton Friedman
Victor R. Fuchs

H. G. Georgiadis
Raymond W. Goldsmith
Jack M. Guttentag
Challis A. Hall, Jr.
Daniel M. Holland
Thor Hultgren
F. Thomas Juster
G. Harry Kahn
John W. Kendrick
Irving B. Kravis
Hal B. Lary
Robert E. Lipsey
Ruth P. Mack

Jacob Mincer
Ilse Mintz
Geoffrey H. Moore
Roger F. Murray
Ralph L. Nelson
G. Warren Nutter
Richard T. Selden
Lawrence H. Seltzer
Robert P. Shay
George J. Stigler
Norman B. Ture
Herbert B. Woolley
Victor Zarnowitz

# CONTENTS

Acknowledgments	ix
Foreword, by Robert P. Shay	xi
Introduction and Summary of Findings	1
Characteristics of the Sample	1
Summary of Findings	2
Adjustments in the Aggregate	2
Relative Importance of Specific Types of Adjustment	5
Some Implications of the Findings	6
I. Characteristics of the Sample and Data	8
Representativeness of the Sample	9
II. Aggregate Adjustments to Unemployment	13
Empirical Estimates	15
Limitations of Estimates	19
Analysis of Aggregate Adjustments	20
Impact of Duration of Unemployment	22
Debt and Asset Adjustments	24
III. Specific Adjustments to Unemployment	29
Relative Importance of Adjustive Techniques	
Measured by Frequency of Use	30
Relative Importance of Adjustment Techniques	
Measured by Dollar Volume	33
Effect of Duration of Unemployment on the	
Specific Pattern of Financial Adjustment	37
IV. Factors Affecting the Adjustments to Unemployment	42
Presence or Absence of Liquid Assets at	
Beginning of Survey Year	42
Size of Assets	44

vi		CONTENTS

Influence of Prior Debt and Duration of	
Unemployment on the Role of Liquid Assets	46
Presence or Absence of Debt at Beginning	
of Survey Year	48
Size of Prior Debt	48
Interaction of Factors Affecting Adjustment	
to Unemployment	54
Dependent Variables	54
Independent Variables	54
Interactions	55
Impact of Beginning-Year Assets on the	
Pattern of Specific Adjustment	57
Impact of Recessions on the Pattern of	
Adjustment to Unemployment	58
Conclusions	60
Appendix A: Limitations of the Data	62
Appendix B: Dependent Variables (Adjustive Techniques) for Which Data Were Available	74

•

### **TABLES**

1.	Unemployment-Induced Changes in Income, Net Worth, and Consumption Expenditure of Unemployed	
	Households	18
2.	Unemployment-Induced Changes in Income, Expenditure,	
	Debt, and Liquid Assets, by Duration of Unemployment	23
3.	Unemployment-Induced Changes in Income, Total Debt,	
	and Debt Components, by Duration of Unemployment	25
4.	Unemployment-Induced Changes in Income, Total	
	Liquid Assets, and Liquid-Asset Components, by	
	Duration of Unemployment	26
5.	Major Adjustments to Income Reduced by Unemployment	27
	Principal Techniques of Adjustment to Unemployment	31
	Total Dollar Amounts Involved in Thirteen Techniques	
	of Adjustment to Unemployment	34
8.	Change in Percentage of Unemployed Persons Using	
	Selected Techniques of Adjustment, by Duration of	
	Unemployment	38
9.	Unemployment-Induced Changes in Income, Expenditure,	
	Debt, and Liquid Assets Among Unemployed Persons, by	
	Duration of Unemployment	43
10.	Unemployment-Induced Changes in Income,	
	Expenditures, Debt, and Liquid Assets Among 319	
	Unemployed Persons, by Duration of Unemployment	45
11.	Ratio of Liquid-Asset Change to Beginning-Year Asset	
	Level	47
12.	Unemployment-Induced Changes in Income,	
	Expenditures, Debt, and Liquid Assets, Unemployed	
	Persons With and Without Debt, by Duration of	
	Unemployment	49

VIII TABLES

13.	Unemployment-Induced Changes in Income, Expenditure, Debt, and Liquid Assets, by Level of	
	Beginning-Year Debt and Duration of Unemployment,	
	Pittsburgh Sample of Unemployed Persons	50
14.	Unemployment-Induced Changes in Income,	
	Expenditure, Debt, and Liquid Assets of Unemployed	
	Persons, by Presence or Absence of Beginning-Year Debt	
	and Assets and by Duration of Unemployment	<b>5</b> 2
15.	Summary of Regression Data, Pittsburgh Sample of 319	
	Unemployed Persons	<b>5</b> 6
A-1.	Age Distribution of Civilian Labor Force, Unemployed	
	Persons, BLS Survey of Insured Unemployed Persons,	
	and BES Sample of Insured Unemployed Persons	65
A-2.	Marital Status of U.S. Adult Population, BLS Survey of	
	Insured Unemployed Persons, and BES Sample of Insured	
	Unemployed Persons	66
A-3.	Occupational Distribution of Experienced Civilian Labor	
•	Force, Unemployed Persons in Experienced Civilian	
	Labor Force, BLS Survey of Insured Unemployed Persons,	
	and BES Sample of Insured Unemployed Persons	67
A-4.	Disposable-Income Distribution of U.S. Population and	
	BES Sample of Insured Unemployed Persons	68
A-5.	Percentage of Spending Units with No Personal Debt	68
A-6.	Percentage of Spending Units with No Liquid Assets	69
A-7.	Percentage Distribution of Household Expenditures	
	Within Income Groups for All Households (1955-56) and	
	for the BES Sample of Insured Unemployed Persons	
	(1954–1958)	70
A-8.	Rank Correlation Between Sample as a Whole and	
	Indicated Subgroups, Nine Principal Techniques of	
	Adjustment to Unemployment	71
A-9.	Frequency of Use Related to Duration of Unemployment,	
	Selected Adjustments	72

#### **ACKNOWLEDGMENTS**

I AM INDEBTED to Leo Orwicz and R. G. Wagenet of the Bureau of Employment Security, who helped make arrangements for me to obtain the state survey data. For help in acquiring the data themselves, I am grateful to Robert B. Beasley of the Florida Industrial Commission; John W. Bowyer of Washington University, St. Louis; Virlyn A. Boyd, Clemson College; David H. Cameron, Commissioner of the Oregon Department of Employment Security; Abram J. Jaffe of the Institute of Applied Social Research, Columbia University; Keith B. Johnson, Washington University, St. Louis; Helen Kylie, Duquesne University; John S. O'Hara, Florida Industrial Commission; Buford B. Ruhl, Pan-American Consulting Corporation, Miami, Florida; and Wesley E. Zellner, Oregon Unemployment Compensation Commission.

At the National Bureau I have had the advice and assistance of many individuals. Geoffrey H. Moore and Robert P. Shay read the manuscript in several versions and made many helpful suggestions. I am especially grateful to F. Thomas Juster, who not only read the manuscript and suggested improvements but also supervised computations that I was unable to undertake when away from the National Bureau. I am grateful, too, to Arthur F. Burns, Jacob Mincer, Zvi Griliches, Alan Spiro, Victor Zarnowitz, and H. C. Passer, all of whom contributed advice at one stage or another. James F. McRee, Jr., edited the manuscript. The NBER Directors who read this study, Wallace J. Campbell, Marion B. Folsom, and T. O. Yntema, made a number of perceptive and useful suggestions, and it is a pleasure to record my gratitude to them.

Georgette Welscher was my assistant at the Bureau and contributed substantially to the collection and analysis of the basic data. Others who provided valuable assistance include Julia Clones, Bette Fishbein, Susan Fromm, Florence Liang, Martha Jones,

Esther Reichner, and Dora M. Thompson. Muriel DeMar has my special thanks for facilitating my work at the National Bureau in countless ways.

I acknowledge gratefully the help given me by the Advisory Committee of the Consumer Finance Study, which reviewed the findings at several stages and provided a number of useful suggestions: Paul W. McCracken, University of Michigan, chairman; Frank Barsalou, Pacific Finance Corporation; Dorothy S. Brady, University of Pennsylvania; E. Douglas Campbell, Associates Investment Company; John M. Chapman, Columbia University; Mona Dingle, Division of Research and Statistics, Board of Governors of the Federal Reserve System; Bertrand Fox, Harvard University; Raymond W. Goldsmith, Yale University; Robert E. Lewis, First National City Bank of New York; Roger F. Murray, Columbia University; Roland I. Robinson, Michigan State University; Herbert Stein, Committee for Economic Development; Van Buren Thorne, Jr., General Motors Acceptance Corporation; and William L. Wilson, C.I.T. Financial Corporation. Former members of the Advisory Committee include Willcox B. Adsit, George Dimmler, the late George W. Omacht, Sidney E. Rolfe, and LeRoy A. Weller.

A grant to the National Bureau from the International Business Machines Corporation of electronic computer time was utilized for computing the regressions in this study.

This report is part of a broad study of consumer credit being conducted by the National Bureau, made possible by research grants from Associates Investment Company, C.I.T. Financial Corporation, General Motors Acceptance Corporation, and Pacific Finance Corporation. These firms, however, are not responsible for any of the statements made or views expressed in this report.

P. A. K.

#### **FOREWORD**

In the planning stage of the Consumer Credit Study, some recurrent questions seemed to demand investigation. What happens to consumer debts among households hit by unemployment? Were those who became unemployed more heavily indebted than households in similar economic circumstances whose employment continued? Did the existence of indebtedness cause hardship among the unemployed? Finally, did consumer debt, through its effect upon unemployed households, accentuate business recessions and delay recovery, or did the availability of debt as a means of adjusting to recession offset its deflationary influences?

It was apparent that the relation between indebtedness and unemployment was complicated by other financial adjustments precipitated by changes in household income and expenditures. Hence, in order to analyze the behavior of consumer debt during periods of adversity, it was necessary to adopt a broad approach and study comparatively the expenditure patterns of households with varying amounts of income, debt, and liquid assets. Fortunately, an unusual body of data had become available through the efforts of the U.S. Department of Labor, which had made six regional studies of consumer expenditures of households between 1954 and 1958 in order to ascertain the adequacy of benefits under unemployment compensation systems. These surveys contained a wealth of information about the indebtedness of households experiencing unemployment.

Philip A. Klein's painstaking work on these data has resulted in findings of importance, not only to the objectives of the Consumer Credit Study, but to those interested in the economics of consumption and the impact of unemployment as well. Working closely with F. Thomas Juster, who is conducting a broader study of the effects of credit use upon consumer expenditures, Klein developed

xii FOREWORD

empirical evidence to support his major finding that both liquidasset holdings and consumer debt permit financial adjustments which enable unemployed households to maintain consumption expenditures. He shows that in addition to unemployment benefits, liquid assets primarily and consumer indebtedness to a lesser extent work as compensatory economic stabilizers against deflationary influences among unemployed households.

Klein's insights into debt adjustment patterns among the unemployed permit some further elaboration of the widely held view that cyclical fluctuations in instalment credit are destabilizing. Gottfried Haberler, in his 1942 National Bureau study Consumer Instalment Credit and Economic Fluctuations, reached this conclusion and it received further modification and support from Donald M. Humphrey in the Conference on Regulation held in 1956 by the National Bureau (proceedings published in 1957 by the Board of Governors of the Federal Reserve System in its report Consumer Instalment Credit). The relevant point made by Klein is that debt adjustments among families hit by unemployment exert a stabilizing influence by moderating the decline in their consumption expenditures. To the extent that this limited stabilizing influence occurs in the general population during recession, it would tend to moderate the general effects of income changes and associated destabilizing changes in the relation between credit extensions and repayments upon consumption expenditures.

Despite the customary difficulties of working with questionnaires designed for a purpose other than the objective of this study, Klein has uncovered many interesting aspects of the relation between unemployment, debt, and expenditures. His work on the debt adjustments undertaken by the unemployed represents, I believe, the first attempt of its kind. His findings, though tentative, are provocative. As a result of his work we have begun to progress beyond everyday notions of what happens to people in debt when they become unemployed.

ROBERT P. SHAY, Director Consumer Credit Study