The UK Economy A Manual of Applied Economics

Eighth Edition

Editors: A.R. Prest and D.J. Coppock

Contributors: J. R. Cable, N. J. Gibson, M. C. Kennedy,

The UK Economy A Manual of Applied Economics

Eighth Edition

Edited by

A.R. Prest M.A. Ph.D.

Professor of Economics, London School of Economics and

D.J. Coppock B.A. (Econ.)

Stanley Jevons Professor of Economics, University of Manchester

- © 1966, 1968, 1970, 1972, 1974, 1976, 1978, 1980 by A.R. Prest, D.J. Coppock, M.C. Kennedy, N.J. Gibson, J.R. Cable
- © 1972, 1974, 1976, 1978, 1980 by David Metcalf and Ray Richardson
- © 1974, 1976, 1978, 1980 by J.S. Metcalfe

First published 1966
Second impression 1967
Third impression 1968
Second edition 1968
Second impression 1969
Third edition 1970
Second impression 1971
Fourth edition 1972
Fifth edition 1974
Sixth edition 1976
Seventh edition 1978
Eighth edition 1980

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the copyright owner.

Weidenfeld and Nicolson 91 Clapham High St, London SW4

ISBN 0 297 77858 7 cased ISBN 0 297 77859 5 paperback

Text set in 10/11 pt IBM Press Roman, printed and bound in Great Britain at The Pitman Press, Bath

ABBREVIATIONS

(1) Economic Terms

CAP Common Agricultural Policy
CET Common External Tariff

c.i.f. Cost including Insurance and Freight

DCE Domestic Credit Expansion FIS Family Income Supplement

f.o.b. Free on Board

GDP Gross Domestic Product
GNP Gross National Product

MCA Monetary Compensation Adjustments

MLH Minimum List Headings NSA Non Sterling Area

NS North Sea

OSA Overseas Sterling Area

PAYE Pay as you Earn

PDI Personal Disposable Income PRT Petroleum Revenue Tax

PSBR Public Sector Borrowing Requirement

R and D
Research and Development
RPM
Resale Price Maintenance
SDRs
Special Drawing Rights

SIC Standard Industrial Classification
SITC Standard Industrial Trade Classification

TCF Total Currency Flow

TFE Total Final Expenditure at Market Prices

(2) Organizations, etc.

CBI Confederation of British Industry
CSO Central Statistical Office (UK)
DE Department of Employment
DI Department of Industry

ECE Economic Commission for Europe
ECSC European Coal and Steel Community
EEA Exchange Equalization Account
EEC European Economic Community

EFTA European Free Trade Area

FAO Food and Agriculture Organization
GATT General Agreement on Tariffs and Trade
IFC International Finance Corporation
IMF International Monetary Fund

MC Monopolies Commission

NBPI National Board for Prices and Incomes

NEB National Enterprise Board

xvi Abbreviations

NEDC(O) National Economic Development Council (Office)
NIESR National Institute of Economic and Social Research

NRDC National Research Development Corporation

OECD Organization for Economic Cooperation and Development

OPCS Office of Population Census and Surveys

OPEC Organization of Petroleum Exporting Countries

PC Price Commission
TUC Trades Union Congress

UN United Nations

UNCTAD United Nations Commission for Trade and Development

WB World Bank

(3) Journals, etc.

AAS Annual Abstract of Statistics (HMSO)

AER American Economic Review

BB British Business (formerly Trade and Industry)

BEQB Bank of England Quarterly Bulletin
BJIR British Journal of Industrial Relations

BLS British Labour Statistics, Historical Abstract (HMSO)

BTJ Board of Trade Journal (HMSO)

DEG Department of Employment Gazette (HMSO)

EC Economica

EJ Economic Journal

ET(AS) Economic Trends (Annual Supplement) (HMSO)

FES Family Expenditure Survey (HMSO)

FS Financial Statistics (HMSO)
IFS International Financial Statistics
JIE Journal of Industrial Economics
JPE Journal of Political Economy
JRSS Journal of Royal Statistical Society

LBR Llovds Bank Review

LCES London and Cambridge Economic Service

MBR Midland Bank Review

MDS Monthly Digest of Statistics (HMSO)

MS The Manchester School of Economic and Social Studies

NIBB National Income Blue Book (HMSO) NIER National Institute Economic Review

NWBQR National Westminster Bank Quarterly Review

OEP Oxford Economic Papers

QJE Quarterly Journal of Economics
RES Review of Economic Studies
REST Review of Economics and Statistics

ROT Report on Overseas Trade (HMSO)
SJPE Scottish Journal of Political Economy

ST Social Trends (HMSO)
TBR Three Banks Review

TER Treasury Economic Report (HMSO)

TI Trade and Industry (HMSO)

Foreword to the Eighth Edition

In 1966, when the first edition of this book was published, the foreword began as follows:

The central idea behind this book is to give an account of the main features and problems of the UK economy today. The hope is that it will fulfil two functions simultaneously, in that it will be as up to date as possible and yet will not be simply a bare catalogue of facts and figures. There are many sources of information, official and otherwise, about the structure and progress of the UK economy. There are also many authors to whom one can turn for subtle analyses of the problems before us. Our effort here is based on the belief that there is both room and need for an attempt to combine the functions of chronicler and analyst in the confines of a single book.

The contributors to these pages subscribe rather firmly to the belief that economists should practise, as well as preach, the principle of the division of labour. The complexity of a modern economy is such that, whether one likes it or not, it is no longer possible for any individual to be authoritative on all its aspects; so it is inevitable that the burden of producing work of this kind should be spread among a number of people, each a specialist in his or her particular field. Such a division carries with it obvious dangers of overlap and inconsistency. It is hoped that some of the worst pitfalls of this kind have been avoided and there is reasonable unity of purpose, treatment and layout. At the same time, it is wholly undesirable to impose a monolithic structure and it is just as apparent to the authors that there are differences in outlook and emphasis among them as it will be to the readers.

The general intention was to base exposition on the assumption that the reader would have some elementary knowledge of economics — say a student in the latter part of a typical first year course in economics in a British university. At the same time, it is hoped that most of the text will be intelligible to those without this degree of expertise. We may not have succeeded in this; if not, we shall try to do better in the future.

Despite the usual extensive re-writing, we should still regard this as an accurate description of our intentions.

Chapter 1, 'The Economy as a Whole', is concerned with questions of applied macroeconomics: fluctuations in demand and employment, the management of demand, inflation and economic growth. The chapter ends with a section on the economic prospects in the near future. Chapter 2, 'Monetary, Credit and Fiscal Policies', starts with a brief discussion of the general theoretical background and then analyses in detail the theory and practices of monetary, credit and fiscal policies in the UK in recent years. The final section discusses the policy record and some policy implications of membership of the EEC. Chapter 3, 'Foreign Trade and the Balance of Payments', deals with the importance of foreign trade and payments to the UK economy and assesses UK balance of payments performance over the last two decades or so. It then looks at current problems and policies in this field and ends with a discussion of the reform of the international monetary system. Chapter 4, 'Industry and Commerce', starts with a brief summary of

various theories of the behaviour of firms and the structural characteristics of UK industry. Various aspects of public policy towards nationalized industries, competition policy and consumer protection, regional problems and so on are then discussed, all with due regard to the implications of EEC membership. A final section deals with industrial efficiency, including such issues as planning agreements and price control. The last chapter, 'Labour', analyses employment and unemployment among the UK labour force, and then discusses problems of wealth, income distribution and pay. The final sections are concerned with trade unions and wage inflation.

Whilst we try to minimize unnecessary overlapping between chapters, we quite deliberately aim at complementary treatment of some topics. Thus different aspects of EEC membership are discussed in the relevant chapters; similarly, wages-inflation relationships appear in both Chapter 1 and Chapter 5. To minimize the use of space, factual material or definitions appearing in one chapter but relevant to another are not always duplicated and so it must be understood that to this extent any one chapter may not be self-contained.

Each chapter is accompanied by a list of references and further reading. The Statistical Appendix has seven tables dealing with different aspects of the UK economy. There is an index as well as the detailed list of headings and sub-headings given in the Contents pages.

We acknowledge the great help given to us by all those who have rendered secretarial or computing assistance.

London School of Economics University of Manchester

A.R. PREST D.J. COPPOCK

April 1980

Contents

	FOREWORD	Page xvii
1	THE ECONOMY AS A WHOLE M.C. KENNEDY	1
I	Introduction	1
I.1	Methodological Approach	1
I.2	Gross Domestic Product	3 6
I.3 I.4	Gross Domestic Product at Constant Prices Personal Income and Personal Disposable Income	10
П	Fluctuations in Total Output and Expenditure	10
II.1	Fluctuations in Output and Employment	10
II.2	Expenditure in the Cycle	13
Ш	The Determinants of Demand	13
III.1	Consumers' Expenditure	14
III.2	Gross Fixed Investment	17
III.3 III.4	Stocks and Stockbuilding Other Expenditures	21 23
IV	The Management of Demand	25
IV.1	Objectives and Instruments	25
IV.2	The Effects of Policy Instruments: Government Expenditure	27
IV.3	The Effects of Tax Changes and Other Instruments	29
IV.4	Economic Forecasts	31
IV.5	Criticisms of Demand Management	32
IV.6	Demand Management and the PSBR	36
V	Inflation	37
V.1	Inflation and its Causes	37
V.2	Imported Inflation	40
V.3	Demand-pull Inflation	41
V.4	Wage-push Inflation	44
V.5 V.6	Inflation in the 1970s: a Summary	44
v.o V.7	Monetary Explanations of Inflation Inflation and Economic Policy	46 47
¥ ./	inflation and Economic Foncy	4/
VI	Economic Growth	48
VI.1	The Growth of Productive Potential	48
VI.2	Economic Growth and Policy	52
VII	Economic Prospects and Policies 1978-80	52

viii Contents

2	MONETARY, CREDIT AND FISCAL POLICIES N.J. GIBSON	56
I	Introduction: The Policy Dilemma	56
II II.1 II.2 II.3	Some Theoretical and Empirical Background Certain Keynesian and Monetarist Positions Views of the Bank of England Some Empirical Work	51 51 60 62
III III.1 III.2 III.3 III.4 III.5 III.6	The Banking and Financial Structure and Money and Credit Control The UK Banking Sector The Bank of England The Authorities and Monetary and Credit Control The Discount Market The London Clearing Banks Accepting Houses, Other British Banks, Overseas Banks and Consortium Banks Finance Houses and Other Consumer Credit Companies Building Societies	63 64 67 72 75 79 82 84
III.9 IV IV.1 IV.2 IV.3 IV.4 IV.5 IV.6 IV.7 IV.8 IV.9 IV.10	Other Financial Institutions The Taxation System Introduction The Size of Government The Budget and Borrowing Requirements Income Taxation Capital Gains Taxation and Development Land Tax Corporation Tax, Depreciation and Other Allowances and PRT Value Added Tax Excise Duties and Protective Duties Capital Transfer Tax and Wealth Tax Taxation and the European Community	85 87 87 89 94 98 102 103 104 105
V V.1 V.2 V.3	Policy in Retrospect and Prospect The 1960s and 1970s Policy and the European Community Conclusions	106 106 113 114
3	FOREIGN TRADE AND THE BALANCE OF PAYMENTS J.S. METCALFE	116
I I.1 I.2 I.3 I.4	Introduction The Concept of the Balance of Payments Equilibrium and Disequilibrium in the Balance of Payments	116 116 116 123 124

	Contents	ix
П	Foreign Trade of the UK	130
II.1	Structure and Trends, 1955-79	130
II.2	The Decline in Competitive Performance	132
Ш	Economic Policy and the Balance of Payments	138
III,1	Introduction	138
111.2	The Exchange Market Framework	139
III.3	External Economic Policy with a Floating Exchange Rate	141
111.4	The Exchange Rate and the Balance of Payments 1972-9	145
III.5 III.6	Management of the Exchange Rate	149
III.7	Short-term Capital Flows and Balance of Payments Policy Long-term Capital Flows and Balance of Payments Policy	153
III.8	The UK and the European Economic Community	159
III.9	The Reform of the International Monetary System	162 169
	The 1020th of the international Monetary Bystem	109
4	INDUSTRY AND COMMERCE	181
	J.R. CABLE (assisted by I. Tonks)	
I	Introduction: Some Theoretical Background	181
II	The Size Structure of Industries and Trades	183
Ш	Industrial Output Growth 1957-78	185
III.1	General Output Trends	185
III.2	Agricultural Development and Policy	187
III.3	Energy	191
III.4	Transport	193
IV	Policy Towards the Nationalized Industries	196
IV.1	Background	196
IV.2 IV.3	Price and Investment Policy: Theory	197
IV.3 IV.4	Price and Investment Policy: Practice	199
1 V .4	Organization, Control and Productive Efficiency in the Nationalized Industries	201
IV,5	EEC Provisions	201
.,,,,	250 110/10/016	203
V	Competition Policy and Consumer Protection	205
V.1	The Case for Policy Measures	205
V.2	Structural Conditions in UK markets	208
V.3	Policy Measures	211
V.4	Policy Impact	214
V.5	EEC Provisions	215
VI	Regional Policy and the Location of Industry	217
VI.1	The Regional Problem and the Rationale for Government Action	217
VI.2	Regional Policy Measures	218
VI.3	Some Issues in Regional Policy	220
VI,4 VI 5	The Effectiveness of Regional Policy EEC Provisions	223
vı)	P.P. FLOVISIONS	224

x	Contents
x	Content

VII.1 VII.2 VII.3 VII.4 VII.5 VII.6	Introduction R and D and Technical Progressiveness Scale, Unit Cost and Structural Reorganization Finance for Investment Information Exchange and Planning Some Microeconomic Implications of Price Controls	225 225 225 228 230 232 234
5	LABOUR DAVID METCALF AND RAY RICHARDSON	237
I	Employment	237
I.1	The Working Population	237
I.2	Aggregate Employment Patterns	241
I.3	Spatial Employment Patterns	242
I.4	Employment by Industry and Occupation	243
I.5	Hours Worked	244
I.6	The Quality of the Labour Force	245
II	Unemployment	247
П.1	Composition of the Unemployed	247
II.2	Why has Unemployment Risen?	251
II.3	Moderating Unemployment	255
Ш	Wealth, Income and Pay	350
III.1	Distribution of Wealth	258
III.2	Distribution of Income	258 259
III.3	Distribution of Earnings	261
III.4	Wage Structure by Occupation	265
III.5	Wage Structure by Industry	267
III.6	Wage Structure by Sex	270
III.7	Local Labour Markets	275
III.8	Poverty	277
III.9	Low Pay	283
IV	Trade Unions and Industrial Relations	205
IV.1	Trade Unions	285 285
IV.2	Economic Analysis of Unions	285 286
IV.3	Strikes and Industrial Relations	287
V	Wage Inflation and Public Policy	291
V.1	Explanations of Wage Inflation	292
V.2	Incomes Policy	296
	Statistical Appendix	301
	Index	312

TABLES

Chapter		т.
1,1	GDP and GNP at Current Prices, UK, 1978	Page
1.2	Personal Income, UK, 1978	-
1.3	Changes in Output, Employment and Unemployment, UK, 1972-9	8
1.4	Growth Rates of Expenditure during the Main Cyclical Phases, UK, 1955-78	1:
1.5	Gross Domestic Fixed Capital Formation, UK, 1978	17
1.6	Domestic Output Content of Total Final Expenditure at Market Prices, 1973	24
1.7	Stages in the Multiplier Process	28
1.8	Short-term Targets and Forecasting Errors, UK, 1955-79	34
1.9	Changes in Import and Retail Prices, UK, Selected Years	41
1.10	Inflation 1955-79: Possible Contributors	45
1.11	Economic Growth, UK, 1900-78	48
1.12	Rates of Growth, 1967-77	50
Chapter	2	
2.1	Issue Department (selected items), 12 December 1979	65
2.2	Banking Department (selected items), 12 December 1979	65
2.3	Discount Market (selected items), 12 December 1979	73
2.4	London Clearing Banks, 12 December 1979	77
2.5	Accepting Houses, Other UK Banks, Overseas Banks and Consortium	
	Banks, 12 December 1979	81
2.6	General Government: Total Expenditure on Goods and Services	
	as a Percentage of GNP at Market Prices, 1968-78	89
2.7	General Government: Total Government Expenditure as a	
	Percentage of GNP at Market Prices, 1968-78	90
2.8	Central Government Revenue, 1980-1 (Forecast)	91
2.9	Central Government Supply Services and Consolidated Fund Standing	
	Services, 1980-1 (Forecast)	92
2.10	National Loans Fund, 1980-1 (Forecast)	94
Chapter	3	
3.1	UK Summary Balance of Payments, 1975-9	118
	Trends in the UK Balance of Payments, Annual Averages for Selected	110
	Periods and Annual Average Growth Rates of Real GDP, etc.	125
3.3	Area Composition of UK Merchandise Trade, Selected Years 1955-79	129
3.4	Commodity Composition of UK Imports, Selected Years 1955-79	130
	Commodity Composition of UK Exports, Selected Years 1955-79	131
	, ~	-01

xii Tables

Chapter -	4
-----------	---

4.1	Size Structure and Growth of UK Industries, 1957-79	184
4.2	Relative Importance of Manufacturing Industries, UK and Selected	
	European Countries, 1975	185
4.3	Output Growth and GDP per head in the UK and EEC, 1957-78	186
4.4	Degree of Self-sufficiency in Agricultural Products in the UK and	
	EEC, 1976-7	187
4.5	Total UK Inland Energy Consumption, 1960-78	192
4.6	GB Inland Passenger Mileage, 1960-78	194
4.7	GB Inland Freight Transport, 1960-78	195
4.8	Seller Concentration: Selected UK Markets	209
4.9a	Seller Concentration in Selected Markets, UK and some EEC	
	Countries, 1963	210
4.9b	Seller Concentration in West Germany, 1975	211
4.10	Public Sector R & D, UK and Other Countries, 1970 and 1975	226
4.11	Size Distribution of Manufacturing Establishments, UK, 1976	229
4.12	Size Distribution of Manufacturing Enterprises, UK, 1976	230
Chapte	er 5	
5.1	Wives' Activity Rates by Age, GB, 1951 and 1976	239
5.2	Distribution of Personal Wealth held by Adult Population, UK,	
	1923 and 1976	259
5.3	Composition of Personal Income, UK, 1951 and 1978	260
5.4	Distribution of Personal Income before and after Income Tax, UK, 1976-7	261
5.5	Earnings by Occupation, Full-Time Adult Men, April 1979	261
5.6	Male-Female Hourly Earnings, April 1979	267
5.7		271
١٠١	Unemployment and Wage Inflation, 1955-79	293

FIGURES

Chapter 1

		Page
1.1	Employment, Unemployment and Vacancies, UK, 1960-79	9
1.2	Personal Saving as a Percentage of Personal Disposable Income,	
	UK, 1955-79	16
1.3	Manufacturing Investment and Capital Stock as Ratios of	
	Manufacturing Output, UK, 1955-78	19
1.4	Manufacturers' Stockbuilding and Stock Levels as Ratios of	
	Manufacturing Output, UK, 1955-78	22
1.5	Inflationary Processes	39

STATISTICAL APPENDIX

		Page
A-1	UK Gross Domestic Product, Expenditure (at 1975 prices)	Ū
	1969-79	302
A-2	UK Prices, Wages, Earnings, Productivity, 1969-79	
	(Index Numbers)	303
A-3	UK Personal Income, Expenditure and Saving, 1969-79	304
A-4	UK Population, Working Population, Unemployment, etc., 1969-79	306
A- 5	UK Money Stock, Domestic Credit Expansion and Public Sector	
	Borrowing Requirements, 1969-79	307
A- 6	UK General Government: Current Account, 1968-78	308
A- 7	UK Balance of Payments, 1969-79	310

The economy as a whole

M.C. Kennedy

I INTRODUCTION

I.1 Methodological Approach

This chapter is an introduction to applied macroeconomics. It begins with a brief description of the national income accounts and goes on to discuss the multiplier, the determination of national expenditure and output in the short run, the policy problems of maintaining full employment, the causes of inflation and of economic growth. It cannot claim to give all the answers to the questions raised, but aims to provide the reader with a basis for further and deeper study.

In principle there is no essential difference between applied economics and economic theory. The object of applied economics is to explain the way in which economic units work. It is just as much concerned with questions of causation (such as what determines total consumption or the level of prices) as the theory which is found in most elementary textbooks. The difference between theoretical and applied economics is largely one of emphasis, with theory tending to stress logical connections between assumptions and conclusions and applied economics the connections between theories and evidence. Applied economics does not seek description for its own sake, but it needs facts for the light they shed on the applicability of economic theory.

At one time it used to be thought that scientific theories were derived from factual information by a method of inference known as induction.¹ Thus it was supposed that general laws about nature could be deduced from knowledge of a limited number of facts. From the logical point of view, however, induction is an invalid procedure. For example, the fact that ten men have been observed to save one-tenth of their income does not entail the conclusion that the next man will do so. The conclusion may be true or false, but it does not rest validly on the assumptions. Inductive conclusions of this kind simply have the status of conjectures and require further empirical investigation.

More recently it has come to be accepted that scientific method is not inductive but hypothetico-deductive. A hypothesis may be proposed to explain a certain class of event. It will generally be of the conditional form 'if p then q', from which the deduction follows that any particular instance of p must be accompanied by an instance of q. Thus the hypothesis is tested by every observation of p; it is corroborated whenever p and q are observed together; and falsified if p occurs in the absence of q.

¹ For a highly readable introduction to the problems of scientific method the reader is referred to P.B. Medawar, Induction and Intuition in Scientific Thought, Methuen, 1969, and the more serious student to K.R. Popper, The Poverty of Historicism, Routledge and Kegan Paul, 1961, and Conjectures and Refutations, Routledge and Kegan Paul, 1963. For a treatment of methodological problems in economics, see I.M.T. Stewart, Reasoning and Method in Economics, McGraw-Hill, 1979.

It will be clear that this concept of scientific method places the role of factual information in a different light from the inductive approach. Facts, instead of being the foundation on which to build economic or scientific theories, become the basis for testing them. If a theory is able to survive a determined but unsuccessful attempt to refute it by factual evidence, it is regarded as well tested. But the discovery of evidence which is inconsistent with the theory will stimulate its modification or the development of a new theory altogether. One of the purposes of studying applied economics is to acquaint the theoretically equipped economist with the limitations of the theory he has studied. Applied economics is not an attempt to bolster up existing theory or, as its name might seem to imply, to demonstrate dogmatically that all the factual evidence is a neat application of textbook theory. Its aim is to understand the workings of the economy, and this means that it will sometimes expose the shortcomings of existing theory and go on to suggest improvements.

The discovery that a theory is falsified by factual observation need not mean that it must be rejected out of hand or relegated to total oblivion. Economists, as well as natural scientists, frequently have to work with theories that are inadequate in one way or another. Theories that explain part but not all of the evidence are often retained until some new theory is found which fits a wider range of evidence. Frequently the theory will turn out to have been incomplete rather than just wrong, and when modified by the addition of some new variable (or a more careful specification of the ceteris paribus clause), the theory may regain its status. The reader who notices inconsistencies between theory and facts need not take the line that the theory is total nonsense, for it may still hold enough grains of truth to become the basis for something better.

It is often argued that our ability to test economic theories by reference to factual observations is sufficient to liberate economics from value judgments, i.e. to turn into a positive subject. This position has more than an element of truth in it: when there is clear evidence against a theory it stands a fair chance of being dropped even by its most bigoted adherents. Nevertheless, it would be wrong to forget that a great deal of what passes for factual evidence in economics is infirm in character (e.g. the statistics of gross domestic product or personal saving), so that it is often possible for evidence to be viewed more sceptically by some than by others.

The discussion of economic policy which also figures in this chapter is partly normative in scope, and partly positive. The normative content of policy discussion consists in the evaluation of goals and priorities. But the means for attaining such goals derive from the positive hypotheses of economics. They involve questions of cause and effect, the hypothetical answers to which are appraisable by reference to evidence. In making recommendations for the achievement of policy goals, however, the economist treads on thin ice. This is partly because his positive knowledge is not inevitably correct, but also because it is seldom possible for him to foresee and properly appraise all the side-effects of his recommendations, some of which have implications for other policy goals. When economists differ in their advice on policy questions it is not always clear how much the difference is due on the one hand to diagnostic disagreements, and, on the other, to differences in value judgments. Indeed it is seldom possible for an economic adviser to reveal all the normative preferences which lie behind a policy recommendation. Thus policy judgments have to be scrutinized carefully for hidden normative assumptions. The reader of this chapter must be on his guard against the author's personal value judgments.