

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)

Spatial policy problems of the British economy

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)

Spatial policy problems of the British economy

edited by **MICHAEL CHISHOLM**

Reader in Geography, University of Bristol

and **GERALD MANNERS**

Reader in Geography, University College London

CAMBRIDGE at the University Press 1971

Cambridge University Press
978-0-521-11339-7 - Spatial Policy Problems of the British Economy
Edited by Michael Chisholm and Gerald Manners
Frontmatter
[More information](#)

CAMBRIDGE UNIVERSITY PRESS
Cambridge, New York, Melbourne, Madrid, Cape Town, Singapore, São Paulo, Delhi

Cambridge University Press
The Edinburgh Building, Cambridge CB2 8RU, UK

Published in the United States of America by Cambridge University Press, New York

www.cambridge.org
Information on this title: www.cambridge.org/9780521113397

© Cambridge University Press 1971

This publication is in copyright. Subject to statutory exception
and to the provisions of relevant collective licensing agreements,
no reproduction of any part may take place without the written
permission of Cambridge University Press.

First published 1971
This digitally printed version 2009

A catalogue record for this publication is available from the British Library

Library of Congress Catalogue Card Number: 70-160090

ISBN 978-0-521-08235-8 hardback
ISBN 978-0-521-11339-7 paperback

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)

Contents

<i>List of tables</i>	<i>page</i> vii
<i>List of figures</i>	ix
<i>Preface</i>	xi
1 Geographical space: a new dimension of public concern and policy	
MICHAEL CHISHOLM AND GERALD MANNERS	1
2 Employment mobility in Britain	
DAVID KEEBLE, <i>Lecturer in Geography, University of Cambridge</i>	24
3 Leads and lags in inter-regional systems: a study of the cyclic fluctuations in the South West economy	
PETER HAGGETT, <i>Professor of Urban and Regional Geography, University of Bristol</i>	69
4 Spatial structure of metropolitan England and Wales	
PETER HALL, <i>Professor of Geography, University of Reading</i>	96
5 Poverty and the urban system	
RAYMOND PAHL, <i>Senior Lecturer in Sociology, University of Kent at Canterbury</i>	126
6 Some economic and spatial characteristics of the British energy market	
GERALD MANNERS, <i>Reader in Geography, University College London</i>	146
7 Growth, technical change and planning problems in heavy industry with special reference to the chemical industry	
KENNETH WARREN, <i>Lecturer in Geography, University of Oxford</i>	180
8 Freight transport costs, industrial location and regional development	
MICHAEL CHISHOLM, <i>Reader in Geography, University of Bristol</i>	213
<i>Index</i>	245

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)

Tables

[Note: all quantities are expressed in metric units unless otherwise specified]

2.1	United Kingdom: mean factory size and movement to central and peripheral areas	page 51
2.2	United Kingdom: gravity model data and movement to the peripheral regions, 1945–65	54
2.3	United Kingdom: Spearman's rank correlation coefficients (r_s) for predicted migration indices against actual migrant employment in the peripheral areas, 1945–65	56
2.4	South East England: intra-regional movement, radial migration and labour availability model predictions, 1945–65	63
3.1	Types of feedback situation for the difference equation model $X_{1t} = A + b_{13}b_{32}b_{21}X_{1t-1}$ applied to a three-region system	92
5.1	England and Wales: industrial structure of employment in 1951, 1961 and 1966, and Greater London in 1966	127
5.2	Great Britain: the growth of the proportion of less-skilled workers in the service sector, 1951–61	128
5.3	Great Britain: the twenty lowest paid occupations, September 1968	129
6.1	United Kingdom: inland energy consumption, 1949, 1959 and 1969	152
6.2	National Coal Board Areas: costs and profits, 1967/8, 1968/9 and 1969/70	158
6.3	Great Britain: trends in nuclear power costs	162
6.4	United Kingdom: inland demand for energy 1966–9, and forecasts for 1970 and 1975	172–3
7.1	United Kingdom: chemicals as a proportion of all manufacturing, 1963 and 1968	182
7.2	United Kingdom: industrial structure of general chemicals and all manufactures, 1963	183
7.3	United Kingdom: concentration of production in large enterprises, chemicals and other heavy trades, 1958 and 1963	183
7.4	United Kingdom: net output, wage payments and transport costs for three basic industries and all manufactures, 1963	184
7.5	United Kingdom: ethylene production capacity, 1958, 1964 and 1968	193
7.6	United Kingdom and Newfoundland: estimated costs of production for phosphorus, circa 1968	202
7.7	United Kingdom: estimated costs of production for ammonia in a plant of 330,000 tons capacity, circa 1969	203
7.8	United Kingdom: employment in chemicals and other industries, by standard regions, 1963	206

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)*Tables*

7.9	United Kingdom: net output of chemicals and other industries, by standard regions, 1963	<i>page</i> 207
8.1	United Kingdom: payments made from net output by manufacturing industries, 1963	218
8.2	Great Britain: estimated work done by 'C' licensed road vehicles, analysed by type of work done, 1962	221
8.3	Great Britain: 'local' road freight in relation to all freight, 'C' licensed vehicles, 1962	222
8.4	Great Britain: distribution of road freight traffic by commodity and length of haul, 1962	223
8.5	Great Britain: road freight traffic, nine 'local' commodities, 1962	224
8.6	Great Britain: gravity model distance exponents and freight tonnage, road traffic by commodity, 1964	226
8.7	Great Britain: distribution of road freight by distance bands, 1962	227
8.8	Great Britain: estimated distribution of road freight traffic by ten-mile distance zones, 1964	227
8.9	Great Britain: distribution of consignments by length of haul, all modes, 1966-7	229
8.10	United Kingdom: selected data for production industries, 1963	231
8.11	West Cumberland Survey: average cost of consignments by public transport, 1966	234
8.12	Great Britain: road haulage charges in relation to length of haul, 1966	236
8.13	Great Britain: estimates of the relationship between terminal charges and movement charges for road freight (1962 freight volumes and 1966 charges)	238
8.14	Great Britain: the number of establishments and number employed in manufacturing industries, cumulated by the incidence of transport costs, 1963	239
8.15	Great Britain: the number of establishments, number employed and mean employment in manufacturing industries according to the incidence of transport costs, 1963	240
8.16	United Kingdom: proportion of family expenditure on transport and vehicles, 1965-7	241

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)

Figures*

2.1	United Kingdom: manufacturing mobility and growth, 1952–66	<i>page</i> 27
2.2	North West London: distance and movement frequency of manufacturing firms	31
2.3	United Kingdom: manufacturing movement rates, 1945–65	35
2.4	The packet of manufacturing functions	36
2.5	United Kingdom: local market orientation and manufacturing movement from North West London	39
2.6	United Kingdom: the spatial pattern of manufacturing movement, 1945–65	48
2.7	United Kingdom: the spatial pattern of manufacturing movement from the Greater London and West Midlands conurbations, 1945–65	50
2.8	United Kingdom: factory size and the dual-population hypothesis	52
2.9	United Kingdom: predicted migration indices and actual migrant employment in the peripheral areas: movement from South East England, 1945–65	57
2.10	United Kingdom: predicted migration indices and actual migrant employment in the peripheral areas: movement from the West Midlands Conurbation, 1945–65	58
2.11	United Kingdom: predicted migration indices and actual migrant employment in the peripheral areas: movement from the Greater London Council area, 1945–65	59
2.12	United Kingdom: predicted migration indices and actual migrant employment in the peripheral areas: movement from the Greater London Council area, 1945–65	60
3.1	Great Britain: cycles of industrial production and cycles of unemployment, 1952–69	70
3.2	Great Britain and the South West Region: network of areas for unemployment statistics	72
3.3	United Kingdom: quarterly unemployment data, 1952–63	75
3.4	South West Region: spectral analysis of quarterly unemployment levels, 1947–69	76
3.5	South West Region: unemployment, 1960–9	78
3.6	South West Region: arrays of monthly unemployment values for representative districts, 1960–9	79
3.7	South West Region: lead and lag areas for seven points on the sixty unemployment trend-cycle series, Bristol as datum	81
3.8	South West Region: cross-correlation values for pairs of unemployment series in the Bristol region, at various leads and lags relative to Bristol	83
3.9	Bristol, Bath and Swindon: spectral analysis of unemployment series and coherence profiles for two pairs of series	84

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)*Figures*

3.10	Bristol and Bridgwater: monthly percentage changes in unemployment levels in Bridgwater related to Bristol, 1960–9	page 86
3.11	Hypothetical example of links between the time trajectory of unemployment values in one region and other regions expressed as a simple regression equation	87
3.12	Bristol sub-region: maximum correlation between unemployment levels in districts in the sub-region with average lead or lag relationship of each district to all others	89
3.13	Simple three-region system with lag relationships	91
3.14	Alternative paths of feedback situation and their effect upon regional trajectories	93
3.15	Great Britain: assumed feedback relations between unemployment levels in major regions as shown by correlations between residuals	93
4.1	England and Wales: Standard Metropolitan Labour Areas (SMLAs), 1961	110
4.2	England and Wales: Metropolitan Economic Labour Areas (MELAs), 1961	112
4.3	England and Wales: population of Standard Metropolitan Labour Areas, 1961	113
4.4	England and Wales: percentage population change by Standard Metropolitan Labour Areas, 1951–61	115
4.5	England and Wales: percentage population change by Standard Metropolitan Labour Areas, 1961–6	116
4.6	England and Wales: trends in population decentralisation from Standard Metropolitan Labour Area cores, 1951–61	118
4.7	England and Wales: trends in population decentralisation from Standard Metropolitan Labour Area cores, 1961–6	119
6.1	Great Britain: estimated marginal delivered costs of coal from National Coal Board mines, for large consumers, <i>circa</i> 1970	164
6.2	Great Britain: natural gas fields and primary transmission system, existing and planned, 1970	166
6.3	Great Britain: distribution of oil refining capacity and estimated delivered prices of fuel oil, <i>circa</i> 1970	168
6.4	Great Britain: significant elements in the geography of electricity generation, <i>circa</i> 1970	177
7.1	Great Britain: fertiliser production and marketing by Shell and Fisons, 1970	196
7.2	Great Britain: fertiliser production and distribution by four smaller firms 1967/8	197
8.1	The kinds of evidence relevant to industrial location decisions	216
8.2	The market area for an isolated firm	219
8.3	The market areas of firms in competition	219
8.4	Great Britain: road freight β values mapped as standard deviations about their mean, 1964	225

* All the figures for this volume were drawn by Miss Margaret E. Thomas in the Cartographic Unit of the Department of Geography, University College London.

[x]

Cambridge University Press

978-0-521-11339-7 - Spatial Policy Problems of the British Economy

Edited by Michael Chisholm and Gerald Manners

Frontmatter

[More information](#)

Preface

In preparing this collection of essays, we have tried to ensure that a coherent theme runs through all the contributions, namely, the importance of the spatial dimension in the formulation of public policy. Though the volume deals explicitly only with Britain, we are confident that readers will recognise the general nature of the issues that are raised, which have not in the past received their due recognition.

Apart from the common interest of the authors in this particular field of enquiry, there is another bond that we should like to record. All the contributors pursued their undergraduate studies in geography at St Catharine's College, Cambridge, under the guidance of Mr A. A. L. Caesar following his return to the College twenty years ago in 1951. It was under his guidance that all the contributors were first introduced to spatial policy problems of the British economy.

M.C.
G.M.