Indonesian Economic History in the Dutch Colonial Era

Anne Booth W. J. O'Malley Anna Weidemann



Monograph Series 35/Yale University Southeast Asia Studies Yale Center for International and Area Studies

Indonesian Economic History in the Dutch Colonial Era

Edited by

ANNE BOOTH W.J. O'MALLEY ANNA WEIDEMANN Yale University Southeast Asia Studies James C. Scott, Chairman Marvel Kay Mansfield, Editor

Consulting Editors
Hans-Dieter Evers, Universität Bielefeld
Hùynh Sanh Thông, Yale University
Sartono Kartodirdjo, Gadjah Mada University
Lim Teck Ghee, Institute for Advanced Studies, Kuala Lumpur
Alfred W. McCoy, University of New South Wales
Anthony Reid, Research School of Pacific Studies
Benjamin White, Institute for Social Studies, The Hague
Alexander Woodside, University of British Columbia

Library of Congress Catalog Card Number: 89-51449 International Standard Book Number: 0-938692-42-9

© 1990 by Yale University Southeast Asia Studies New Haven, Connecticut 06520

Distributor: Yale University Southeast Asia Studies Box 13A Yale Station New Haven, Connecticut 06520

Printed in the U.S.A.

The Editors

Anne Booth is currently Senior Research Fellow in the Southeast Asian Economic History Project at the Australian National University. She has published extensively on the Indonesian economy in the colonial and post-colonial periods, and edited the *Bulletin of Indonesian Economic Studies* from 1983 to 1989.

W.J. O'Malley has published on several aspects of Southeast Asian economic and social history and is currently analysing Indochinese affairs for the Office of National Assessments in Canberra.

Anna Weidemann was research assistant to the Indonesia Project in the Research School of Pacific Studies from 1980 to 1987; from 1983 to 1987 she was also assistant editor of the *Bulletin of Indonesian Economic Studies*. She is currently a University administrator at the Australian National University in Canberra.

Preface

Most of the papers in this volume were first delivered at the conference on Indonesian Economic History in the Dutch Colonial Era, held at the Australian National University in December, 1983. We are most grateful to Professor R.G. Ward, the Director of the Research School of Pacific Studies, Australian National University, and to Professors W.M. Corden and J.A.C. Mackie, for their support and encouragement, without which the conference could not have taken place. We are also grateful to the Australian Department of Foreign Affairs, whose assistance made possible the participation of several Indonesian scholars in the conference. The typing of the conference papers and their subsequent revision for inclusion in this volume were done with cheerful efficiency by Hilda Heidemanns and Claire Smith. Evelyn Winburn assisted with the final word-processing of the text. Lorraine Dearden prepared the charts. We would like to thank them, and all the contributors, for their cooperation.

Anne Booth Bill O'Malley Anna Weidemann

Canberra, June 1989.

Contents

List o	of Tables	vi
List o	of Figures	ix
Prefac	ce	xiii
1.	Introduction	1
	William J. O'Malley	
2.	Peasant Poverty and Prosperity under the Cultivation System in	
	Java	24
	R.E. ELSON	
3.	The Peasantry and the Cultivation of Sugar Cane in	
	Nineteenth-Century Java: A Study from Pekalongan Residency;	
	1830-1870	49
	G.R. Knight	
4.	The Legacy of the Cultivation System for Subsequent	
	Economic Development	67
	Robert van Niel	
5.	The Cultivation System in West Sumatra: Economic Stagnation	
	and Political Stalemate	90
	Kenneth R. Young	
6.	Changing Measures and Measuring Changes: Regional	
	Agricultural Growth in Java, 1815-1875	111
	Peter Boomgaard	
7.	Plantations 1830-1940: An Overview	136
	William J. O'Malley	
8.	Peasant and Coffee Cultivation in Cirebon Residency,	
	1800-1900	171
	M.R. Fernando, William J. O'Malley	
9.	Government and the Emerging Rubber Industries in Indonesia	
	and Malaya 1900-1940	187
	COLIN BARLOW, JOHN DRABBLE	
10.	The Evolution of Fiscal Policy and the Role of Government in	
	the Colonial Economy	210
	Anne Booth	
11.	Between the Java Bank and the Chinese Moneylender: Banking	
	and Credit in Colonial Indonesia	244
	Jan T.M. van Laanen	

12.	Foreign Trade and Domestic Development in the Colonial Economy	267
	Anne Booth	
13.	Interisland Trade, Economic Integration, and the Emergence of the National Economy HOWARD W. DICK	296
14.	Dutch Colonialism in Indonesia: A Comparative Perspective Angus Maddison	322
15.	Directions for Further Research	336
	THEE KIAN WIE, ANNE BOOTH	
Biblio	ography	340
	shed Colonial Statistical Sources	368
т:	-4 - f T-1-1- a	
	st of Tables	
2.1	Financial results of the cultivation system, 1840-1859	26
2.2	Relationship between land rent and crop payments: sugar,	
	1837-1851	36
2.3	Relationship between land rent and crop payments: indigo, 1837-1851	37
2.4	Crop payment for coffee as a percentage of total land rent assessments per residency, and coffee planting households	
	as a percentage of agricultural households per residency,	
	1837-1860	39
2.5	Some patterns of expenditures and consumption, Java-	5)
2.3	Madura, 1830-1860	41
2.6	Cultivable land and rice production, 1837-1851	42
3.1	Crop payment and land rent in the Wonopringo Kring,	12
3.1	1839-1866	58
5.1	Government coffee sales, West Sumatra, 1842-1906	100
6.1	A comparison between "expected" growth during the seven	
0.1	years a survey was conducted and the recorded increase	
	over the same period	117
6.2	Area under rice per standardized household	118
6.3	Rice production per capita	120
6.4	Rice production per unit of land under rice	124
6.5	Average number of buffaloes per household	125
6.6	Average percentage of households employed for cultivation	
•	services, 1835-1870	126

6.7	Percentage of agriculture families and land-owning families,	
	1815/30 and 1870	129
6.8	Demographic indicators	130
6.9	Agricultural production indicators, 1835-1874	130
7.1	Government sugar 1836-1870: number of mills and area	
	under cane	140
7.2	Government sugar industry, 1836-1870	142
7.3	Total sugar exports (1840-1940) and sugar production on	
	government estates (1840-1870)	143
7.4	Sugar mills working with government, 1870-1890	144
7.5	Private sugar estates, 1875-1895	146
7.6	Number and area of sugar plantations in Java, 1900-1929	148
7.7	Sugar estates in the 1930s Depression	150
7.8	Payments to Indonesians from sugar plantations in Java,	
	1920.	152
7.9	Government coffee on Java	153
7.10	Government coffee on Java: households per residency,	
	selected years	154
7.11	Value of government exports of coffee and sugar from Java,	
	1835-1870	155
7.12	Java—area of estate lands	157
7.13	Value of agricultural exports from Indonesia and of estate	
	exports from Java/Madura and the other islands	161
7.14	Major plantation crops on the east coast of Sumatra	163
7.15	East coast of Sumatra: number of plantations and estate area	
	under cultivation in 1938	164
9.1	Planted area and production of rubber, Indonesia and	
	Malaya, 1900-40	188
9.2	Value of exports from Indonesia and Malaya, 1912/13-1937	189
9.3	Extent of production of rubber on estates and	
	smallholdings,Indonesia, 1922	192
9.4	Extent and production of rubbber on estates and	
	smallholdings, Malaya, 1921	194
9.5	Rubber production in Indonesia and Malaya, 1922-33	204
10.1	Revenue and expenditure components as a percentage of	
	total revenues	215
10.2	Percentage breakdown of budgetary expenditures, 1871-95	215
10.3	Percentage breakdown of revenues, 1871-95	216
10.4	Percentage breakdown of tax revenues, 1912-16 and	
	1936-40	223
10.5	Percentage breakdown of budgetary expenditures, 1905-21	224

10.6	Trends in the budget surplus/deficit and debt changes in	
	relation to national income, 1921-39	230
10.7	Revenues as a percentage of national income: Indonesia and	
	selected comparisons	234
10.8	Categories of expenditures as a percentage of GDP:	
	Indonesia and selected comparisons	235
10.9	Percentage breakdown of government revenues: Indonesia	
	and selected comparisons	236
10.10	Public foreign debt outstanding as a percentage of national	
	income and exports: Indonesia and selected comparisons	237
11.1	Foreign private investment in Indonesia by country of	
	origin, 1922 and 1940	249
11.2	Consequences of DJB's gold exchange policy, 1891-1939	253
11.3	Relative share of production of enterprises owned by	
	agricultural banks in total production or total exports,	
	Indonesia, 1933	256
11.4	Extension of credit by the People's Credit System in	
	Indonesia, 1905-1940	260
11.5	Savings and borrowings by the indigenous community in	
	Indonesia, 1915-1940	261
11.6	The People's Credit System: estimated rates of interest,	
	1905-37	262
11.7	Net income of the indigenous community from official	
	credit, 1929-1934	264
11.8	The pawnshop service: rates of interest, 1901-1940	264
12.1	Growth in volume and price of export productions,	
	1830-1910	273
12.2	Percentage breakdown of exports from Java by commodity,	
	1830-70	275
12.3	Indexes of export output and prices, 1920-40	277
12.4	Percentage import and export shares of major trading	
	partners, 1875-1935	278
12.5	Index of net barter terms of trade: Indonesia and selected	
	comparisons, 1913-38	279
12.6	Annual average rates of growth of rice production, exports,	
	imports, government expenditures, and money supply,	
	1877-1913	284
12.7	Area of irrigated riceland (sawah), harvested area of wetland	
	paddy (padi sawah), and harvested area of sugar, 1885-1940	285
13.1	Interisland trade in selected items by value	304
13.2	Interisland trade in selected items by value	305

13.3	Interisland trade in selected items by tonnage	306
13.4	Cargoes carried by KPM	308
13.5	Interisland and foreign trade by value and tonnage	309
13.6	Foreign and interisland trade in rice	311
13.7	Flow of indentured labour to and from Java	312
13.8	Indentured labour brought in and re-engaged	313
13.9	Net outflows from Java of labourers and transmigrants	314
14.1	The dimensions of foreign presence under colonialism	324
14.2	Average ratio of exports (f.o.b.) to imports (c.i.f.)	327
14.3	Ratio of merchandise exports to GDP at current prices	328
14.4	Indonesian balance of payments 1929-38	329
14.5	Items in India's balance of payments 1929-38	330
14.6	Per capita net foreign capital position of developing	
	countries in 1938 (portfolio and direct investments)	331
14.7	Exchange depreciation of other currencies against the NEI	
	guilder	333
14.8	Net domestic product deflators	334
	APPENDIX TABLE	
6.1	Excessive population increase between 1815 and 1875	135
Lis	st of Figures	
5.1	Analysis of trend of coffee sales in West Sumatra,	
	1840-1907, five year moving average	99
8.1	Number of agricultural households engaged in coffee	
	cultivation	176
8.2	Percentage of coffee-cultivating households of all	
	agricultural households engaged in cultivation of	
	commercial crops	177
8.3	Amount of coffee delivered to the government	180
8.4	Crop payment per household	183
9.1	Average annual spot prices (buyers') of RSSI in London,	
	1900-40	191
10.1	Commodity trade balance and fiscal balance, 1834-1873	212
10.2	Net revenue surplus and fiscal balance, 1846-1873	213
10.3	Growth of real government expenditures, 1848-1913	218
10.4	Index of expenditures, revenues, and prices, 1913-1939	221
10.5	Revenues, expenditures, and taxes as a percentage of	
	national income, 1921-39	222

10.6	Defence, debt service, and extraordinary expenditures as a	
	percentage of total expenditures, 1900-1940	227
12.1	Index of income terms of trade, 1874-1938	276
12.2	Index of export volume growth, 1900-1938	281
12.3	Exports as percentage of national income, 1921-1939	282
12.4	Export surpluses as a percentage of exports 1834-1940	287
12.5	Export surpluses as a percentage of national income,	
	1921-1939	292

Introduction

William J. O'Malley

A quarter of a century ago, in his contribution to an important symposium on Indonesian historiography, the Indonesian economic historian F.J.E. Tan made a number of points about his field of study that still merit consideration today (Tan 1964). In his brief, somewhat elusive, and rather pessimistic essay, Tan noted:

- 1. that the economic historian of Indonesia had to be "a kind of hybrid," one who was "at the same time a good theoretical economist and a professional historian" (p. 401);
- 2. that Indonesian economic history had somehow to keep developments in the village in sight; and
- 3. that the sociological approach would have to be tied in to economic history if the results were to be adequate.

When taking stock now of the condition of Indonesian economic history, it is useful to bear in mind how valid those points have been. It is also necessary, however, to recall that the writing of that history has not proceeded in the way that Tan had in mind. His view that economic and social questions had to be raised together in considering Indonesia's past is one that few would challenge. But Tan was thinking that economic historians would be stretching themselves beyond their traditional concerns with trade and production figures to include means of social inquiry. Instead, things have generally been the other way around. The major advances in our understanding of Indonesia's economic history, both before Tan was writing and since, have come about not through the innovations or initiatives of economic historians, but through discoveries made by scholars interested in social history who found that they needed to understand the economic side of things better if they were to see more clearly the social changes they were intent on studying. Likewise, the tie between villages and economic history has turned out to be strong in Indonesian historical studies. But, once again, the lead has been taken not by economic historians making efforts to keep village developments in view, but by those interested in the past and present status of villages who came to appreciate the value of economic data—and sometimes the value of economic methods of analysis—in their work.

If Tan got things somewhat back-to-front in his comments on the relationship between Indonesian economic history and sociological, especially rural sociological, research, his observation that an economic historian of Indonesia would need to be both historian and economist, and, moreover, one equipped with

splendid language skills (Tan 1964, p. 400), was surely right on target. And among both Indonesians and foreigners who study the country, that "hybrid" combination has ever been rare. To attempt the task of writing economic history demands a certain confidence in one's data-collecting, analytical, and expository skills; to do the job correctly requires those skills plus unusual combinations of training, of abilities, and of experience; to have the results received well means passing the scrutiny of professionals from different disciplines with different standards and different needs. Under these circumstances, it is not surprising that the number of people who would ever have called themselves Indonesian economic historians is minute, and that the economic history of Indonesia is still comparatively backward. What is surprising is the extent to which what we do know of Indonesia's economic past suffuses our general view of Indonesian history. For in fact, far more than is the case with other Southeast Asian countries, the way in which the history of Indonesia is perceived and taught relies heavily on parameters of commerce and of administration established by considerations that are largely economic in nature.

A measure of how deeply ingrained economic considerations have become in the treatment of Indonesian history can be gained by comparing the two most useful introductory textbooks on the subject, J.D. Legge's Indonesia (1964) and M.C. Ricklefs' A History of Modern Indonesia (1981). Legge's book is analytical in its approach and focuses on issues of immediate interest to economists and economic historians. Ricklefs' book, on the other hand, is essentially a narrative concentrating on political events and political forces, and it has practically nothing to say about the economic side of Indonesian history. In concerning himself almost exclusively with what happened in the political sphere, and with why things happened there in the sequence they did, Professor Ricklefs has produced a book that was badly needed and is very much up-to-date. It is, moreover, a book that is refreshingly different. Different, because Legge and others in recent decades have been directing their efforts not so much at uncovering what happened in Indonesia, but at attempting to understand and clarify how things worked among the people in the archipelago. 1 This aim led Legge to adopt social-science methods of analyzing conditions and developments in Indonesia, whether economic, cultural, or political. It also led him, given the small size of his book (only some 60,000 words, less than half the length of Ricklefs' text), to chart his course through Indonesia's past by fixing on, inspecting, and evaluating the views of earlier authors. Where to Ricklefs the key figures in introducing Indonesian history are such important leaders as Pakubuwana II, Mangkubumi, and Sukarno, to Legge they are such important scholars as van Leur, Boeke, and Wertheim, none of whom Ricklefs lists in his extensive bibliography. Ricklefs, then, was writing outright history, featuring a clear chronology and a detailed narrative, while Legge's work has about it many

Introduction 3

of the elements of an extended historiographical essay. Educational experts can debate the relative utility of these methods of introducing a new subject to students, but for those interested primarily in economic history, two aspects of Legge's book stand out strikingly. First, in trying to analyze certain important questions in Indonesia's development which have their roots in the past, Legge was compelled to handle issues directly related to economic history. And second, in adopting an historiography-based approach and deliberately tapping into the lode of previous historical writings, Legge was able to mine a wealth of long-standing discussions, debates, and arguments connected with the economic past. For though the number of *echt* economic historians working on Indonesia may have been small, there is nonetheless a rich tradition of valuable contributions made by those writing with the economy in mind.

In the years since Indonesia gained independence, we have seen major changes wrought in the way that Indonesian history before European contact is interpreted. Combining economic ideas with archaeological and linguistic work, prehistorians have set up far more plausible theories to account for the peopling of the islands of Indonesia (Bellwood 1979). Views of the early history of maritime Indonesia have also been turned around, largely through the work done by Professor Wolters on Srivijaya using trade-based sources and considerations (Wolters 1967). And the study of ancient kingdoms, both in Java and outside, has spread from the establishing of dates and the measuring of Hindu influence to questions focusing on means of production and control (van Naerssen and de longh (1977); van Setten van der Meer (1979).

Economic considerations have been important in reshaping the study of early Indonesian history, but they are bound to play an even more important part when the history of Indonesia since 1950 is written. The amount of material dealing with the economic conditions and performance of independent Indonesia is already astoundingly large, and it is growing. Daily newspapers in many languages report constantly on all sorts of items connected with the Indonesian economy. Weekly news magazines, both inside and outside the country, regularly cover the economic beat. Official reports—monthly, quarterly, semi-annual, and yearly, from the Indonesian government, foreign governments, international organizations—overflow library shelves. And the number of economists and other professionals who analyze the Indonesian economy in print is on the increase. Problems for future economic historians will focus on the reliability of data and methods for handling a surplus of materials rather than, as has been the case all too often previously, on shortages of sources.

If economic questions and slants have helped recently to illuminate Indonesian history before Dutch rule, and if economic materials are going to pose new and different challenges for those writing histories of Indonesia since Dutch rule, what about the position of the economic history of Indonesia under Dutch

rule, which is the subject of most of the essays in this volume? How has this history fared since Indonesian independence? What has been its role in shaping the general way in which Indonesia's past is comprehended?

A distinguishing feature of the economic history of colonial-era Indonesia is that the study of that history had already made considerable strides while the Dutch were still governing the archipelago. Unlike the situation with pre-European economic history, there were both sources for, and concerns occasioning, deeper treatments of economic issues in the colonial era. As Van Niel notes in his essay below, the system of forced deliveries known as the *Cultuurstelsel* (Cultivation System) had already roused sufficient ire among its critics to draw forth, by the second half of the nineteenth century, serious writings on economic developments in Java. Those writings contributed significantly to the record, but they were also generally partisan, and they were limited in their coverage with regard to time, place, and problem. Those shortcomings were not characteristics of the more professional works on the economic history of Indonesia under the Dutch, which began to appear early in the twentieth century.

Pride of place in the more modern school goes to the American scholar, Clive Day. In the way that Raffles' History of Java (1817) and Crawfurd's History of the Indian Archipelago (1820) are given credit, at least by English speakers, for establishing a worthy precedent that Dutch historians would later follow in contemplating their colony, Day's The Policy and Administration of the Dutch in Java (1904) set a certain standard of informed and measured analysis against which subsequent works had to gauge themselves. Day was an economic historian by both training and profession. Though he apparently never travelled to Asia himself, whatever he missed in the way of feel for the colony, he more than made up for with his wide-ranging use of sources and his ability to link economic analysis with a careful chronological treatment. While it is probably fair to say that Day's views were not original—he reflected a turn-of-the-century American belief in free enterprise, and was building on themes already established in more policy-oriented Dutch writings—he nonetheless brought a degree of scholarly detachment to his writing that, for the first time, made the economic history of Indonesia a subject intended to inspire contemplation as well as to stimulate political action.

If Day set a useful example for the writing of Indonesia's economic history, the next major figure to have an impact on the field, J.H. Boeke, managed to draw far more responses in his own time than Day was able to do. This was, no doubt, partly because Boeke was a social scientist rather than an economic historian. Thus he was interested in the past more for the purpose of seeing what general lessons he would discover there than for its own sake. Boeke also drew responses because the most important of those general lessons—one he set out in his 1910 dissertation (Boeke 1910), and tried to adapt and re-apply in the remaining forty-

Introduction 5

five years of his working life—had serious policy implications. This was the idea that there were difficulties in using general economic laws, laws derived from Western experience and arrived at through Western rationality, to predict or to explain phenomena in Indonesia. Instead, Boeke posited that social rather than purely economic drives motivated many of the economic actions of Indonesians, and that the imposition of an advanced colonial economy on the more primitive local economy had made it impossible for that local economy to evolve along a predictable Westernizing path. What were needed then, in policy terms, were special government programs to coddle Indonesians or to prod them, to preserve them in their cultural shells or to encourage them to break out. In any event, the indigenous peoples could not simply be left on their own to face the storms of the modern world. In the wake of this key observation, Boeke and his critics argued for decades about the roots, the value, and the implications of his discovery (Indonesian Economics 1961). But what was just as important for economic history was that, by emphasizing the significance of the impact of Western capitalism on local pre-capitalist societies, Boeke's ideas stimulated new lines of historical inquiry into just how that impact had occurred in the past, and what had thereafter transpired.

A number of important economic-history studies appeared in the years after Boeke put forth his thought-provoking challenge, but the most important of them came from three government officials in colonial Indonesia. Dr. van Doorn writing on Purworejo (1926) and Dr. de Vries studying Pasuruan (1931), produced full-length treatments of economic developments at the local level, and their early interest in regional research has come back into vogue again in the past decade. Another early practitioner of local economic-history research was D.H. Burger, who had already begun in the 1920s to look below the regency level, with which de Vries and van Doorn were mainly concerned, and to explore changes directly at the district and even the village level (Burger 1929; 1930; 1933). Burger expanded his focus in the late 1930s to write a dissertation on Java from the end of the V.O.C. (Vereenigde Oostindische Compagnie) period up to the Great Depression. In that work he combined elements of political, social, and economic history to explore the way in which the expansion of the money-economy affected life in Java (Burger (1939).²

At the same time that these strides forward were being made in the study of more recent economic history in Indonesia, a light fueled by economic-history ideas was reflecting glaring defects in the way that earlier Indonesian history had been perceived. J.C. van Leur, in his 1934 doctoral thesis and subsequent essays (van Leur 1955), took issue with the way in which seemingly unanswerable cultural questions and then exclusively Dutch concerns had been given preeminence in writings about earlier Indonesian history. By combining economic and sociological insights with a shrewd appreciation of trade data, van Leur was

able to take an approach which emphasized processes of change rather than merely static elements in history, and at the same time helped to restore Indonesians to the centre of the stage in the drama of their own past.

Almost simultaneously with van Leur's insistence that the nature of trade and production be borne in mind by those working in Indonesian history, an important move was made in Batavia to insure that such a course could be more easily followed. This was a project initiated by W.M.F. Mansvelt, the head of the colonial government's Central Bureau of Statistics, to compile and publish lists of data connected with commerce and development in the colony. A few of these works, some of them only provisional in nature, had already appeared in print when the Second World War put a halt to this endeavour (C.E.I., Vol. 1, p. 7).

The pre-war advances in Indonesian economic history had been initiated by one English-language writer. They were capped by another. Perhaps it is an indication of how far the field had advanced in four decades that, while Clive Day seems to have felt he could do much of his work on his own in Europe and North America, J.S. Furnivall's work benefited greatly from his being able to rely on substantial amounts of assistance and encouragement both in Indonesia and in The Netherlands. Following a political-economy line of enquiry that stressed the relationship between official policy and socio-economic change, Furnivall wrote a book on the development of the colonial economy. This work still stands out among the best efforts thus far made to describe and explain the changes that Indonesian society had undergone (Furnivall 1944). Furnivall's particular insight was that the Dutch colony, like others he had known, constituted a plural society, one in which different groups of people lived separate social and economic lives under one political unit. This insight enabled him to make sense, within a single framework, of changes occurring in the European, Chinese, and Indonesian spheres of life in the Indies. Moreover, Furnivall's determination to keep both the systems of internal production and the significance of foreign trade in the forefront of his study meant that he could firmly locate the changes occurring inside the colony within the context of changes taking place in the wider world.

In the final four decades of Dutch rule, then, several important contributions had been made toward the understanding of Indonesian economic history, particularly in the study of that period in which Europeans were prominent in the area. Instead of simply broadening the extent of knowledge about the economic past, however, the scholars from Day to Furnivall were progressively developing an appropriate framework for thinking about the colonial period in Indonesian history. They were also setting out something of an agenda for future thought and research. Their framework has been modified only slightly by later writers, and their agenda has had an important influence on post-independence writing and thinking about modern Indonesian economic history.