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ANNUAL REPORT 1969-70

SAR/AID Repas-12

Introduction

At its inception in July 1962, contract SAR/AID/Repas-12 called for the Economic Growth Center to undertake a broad program of country studies, data improvements, and inter-country analyses in order to measure and understand better the process of economic growth. As later agreed upon, twenty-one (21) of the world's major less developed countries were selected for this exploration and evaluation. They included Argentina, Brazil, Ceylon, Chile, Colombia, Egypt, Greece, Iran, Israel, Ivory Coast, Korea, Mexico, Nigeria, Pakistan, Peru, Philippines, Taiwan, Thailand, Tunisia, Turkey, and Venezuela.

Scheduled to expire in 1969, the Repas-12 contract was extended without additional cost until July 1, 1970, in order to continue support for the work of several country analysts whose monographs were still in preparation. It is the purpose of this final report to summarize not only their work but other research related to the country studies program which continued in this final year of the contract. The current report will include as well a summary of expenditures during the 1969-1970 fiscal year with respect to the approximate \$54,000 remaining as of July 1, 1969.

Country Studies Program

In the course of carrying out their research, the Growth Center Staff has found increasing value in the preparation of relatively short but more numerous research papers which have explored in depth specialized areas of the country studies. These papers have, in most instances, had a preliminary and informal circulation as Center Discussion Papers in order to stimulate comment and criticism from other members of the research staff. Subsequently most of them have appeared as Center Reprints following their publication in professional journals; some of them have been incorporated in the body of the broader country study monographs; and all of them have been submitted to A.I.D. under the contract.

A complete list of the country study-related papers presented during 1969-70 appears in the section titled "Cross-Sectional and Analytic Studies." The sum total of papers, reprints and monographs prepared between 1962-70 and emanating from the Country Studies Program, listed by country is attached as Schedule A.

The end-products of these intensive comparative and sectoral studies are the country monographs, all of which have or soon will enter their final pre-publication phase. In addition to the seven monographs already completed and published as part of the series, six others are nearing completion in first draft and have been or soon will be delivered to AID prior to final revision. These latter include Chile (Mamalakis), Tunisia (Hervé), Taiwan (Ho), Korea (Kuznets), and the first of two volumes each on Colombia (Berry) and Turkey (Land).

Of the eight monographs remaining, three (Pakistan, the Philippines and Thailand) are expected in early 1971. Four more (Peru, Iran, Venezuela, and Ivory Coast) will follow in the next year with the expectation that, in all, an additional seven will have been completed by spring 1972. Although Jan Tumlrir's study on Greece up to World War II was submitted to AID, the intended extension and updating to the post-war was interrupted by his appointment to GATT in 1967 and it has been difficult for him to resume the study in the current Greek political climate. It is uncertain, therefore, when the entire monograph will be completed, although Mr. Tumlrir is committed to doing so.

Cross-Sectional and Analytic Studies

Although the extension of Repas-12 was intended and utilized to support further work on the country monographs, it is important to note that the comparative and analytic work initiated earlier under the contract continued to yield results. For example, Richard Cooper continued his research in the field of currency devaluation and exchange rates, while Lloyd Reynolds carried out the studies that will appear in a forthcoming book entitled Models of Early Economic Growth. Gustav Ranis and John Fei extended their collaboration in a joint effort to establish theoretical models and testable hypotheses to explain growth performance in various types of developing economies, i.e., labor surplus, export-oriented, natural resource rich/poor, etc.

Benjamin Cohen has continued his examination of tariff policy in LDC's in a study to be published in the Journal of Political Economy. Concurrently Stephen Resnick has been identifying and quantifying structural changes for several developing economies and giving special attention to a detailed quantitative cross-country study of development in Burma, Malaysia, Indonesia, the Philippines, and Thailand. A comparative study, "A Socio-Economic Interpretation of the Decline of Rural Industry Under Export Expansion: A Comparison Among Burma, Philippines and Thailand, 1870-1938," was presented by Resnick.

The theoretical and empirical analyses of patterns of growth begun by Thomas Birnberg in 1968 have continued under auspices other than AID while he attempts to construct models that reflect key aspects of the development process and to analyze the functional relationships between major variables in LDC development.

Former country analyst Carlos Diaz-Alejandro has concentrated on comparative and sectoral studies in Latin America since his return to the Center in 1969, while fellow analyst Markos Mamalakis, early in the year, completed a study titled "The Theory of Sectoral Clashes" which appeared in the Latin American Research Review, Fall 1969.

For informational purposes, we include here a list of papers and reprints which were circulated during the 1969-70 report year and which relate to the work described above. Discussion Papers analytic in content included the following:

"Some Aspects of the Brazilian Experience with Foreign Aid," October 1969, Carlos Diaz-Alejandro.

"Bilateral Foreign Aid and Multilateral Foreign Aid," November 1969, Benjamin Cohen.

"Finance, Capital Markets and Economic Growth in Japan," January 1970, Hugh Patrick.

"International Trade and Uneven Development," January 1970, Stephen Resnick and Stephen Hymer.

"The Andean Common Market: Gestation and Outlook," June 1970, Carlos Diaz-Alejandro.

"Exports of Developing Countries in the 1960's," June 1970, Benjamin Cohen and Daniel Sisler.

"A Marxian-Malthusian View of Poverty and Exploitation with a Corresponding Typology of Social Classes," November 1969, Herman Daly.

"The Historical Determinants of Underdevelopment in Thailand," February 1970, Peter Bell.

"Multinational Corporations and Dependent Underdevelopment in Mineral-Export Economies," June 1970, Norman Girvan.

Reprints dealing with theoretical topics appeared during 1969-70 as follows:

- No. 138. "Some Welfare Aspects of International Migration" by R. Albert Berry and Ronald Soligo, Journal of Political Economy, Vol. 77, No. 5, October 1969.

- No. 139. "Intertemporal Equity and Elasticity of Marginal Utility from Consumption," by Anisur Rahman, Oxford Economic Papers, Vol. 21, No. 1.
- No. 140. "A Model of an Agrarian Economy with Nonagricultural Activities" by Stephen Hymer and Stephen Resnick, The American Economic Review, Vol. LIX, No. 4, part 1, September 1969.
- No. 142. "Interactions Between the Government and the Private Sector: An Analysis of Government Expenditure Policy and the Reflection Ratio" by Stephen Hymer and Stephen Resnick, Economic Development and Structural Change, ed. I. G. Stewart.
- No. 144. "A Note on the Capacity to Transform and the Welfare Cost of Foreign Trade Fluctuations" by R. Albert Berry and Stephen Hymer, The Economic Journal, December 1969.
- No. 145. "Uncertainty and Diversification in International Trade" by W. C. Brainard and R. N. Cooper, Studies in Agricultural Economics, Trade, and Development, Vol. VIII, No. 3, 1968.

Country Data System

One of the first objectives of Repas-12 was the formulation of a country data system that would provide a consistent framework within which the basic statistics of each developing economy could be arranged and analyzed so as to emphasize the interrelationships among

them. In fulfillment of this goal, the Growth Center provided such a system, documented by the list of publications attached hereto as Schedule B.

Data from six country studies (Brazil, Ceylon, Egypt, Nigeria, Argentina, and Chile) have been assembled, coded, punched and edited in accordance with the Ruggles guidelines. Mechanization of the statistics on the agricultural sector in Colombia is also nearly complete. Originally, the Yale Economic Information Retrieval System was developed for use on the 7090/7094 DCS computer. A later decision in favor of the flexibility and sophistication of IBM's 360/50 computer led to attempts to develop new programs that would facilitate search, retrieval, and manipulation on this equipment.

Late in 1969, prompted by another pending change in computer facilities at Yale, the Center reviewed various aspects of the data project to evaluate 1) the ultimate worth of continued mechanization of statistical appendices and 2) the desirability of updating the basic statistics at regular intervals in the future. It was decided 1) to continue to include the basic data of the appendices in the monographs but to delay further mechanization pending revisions in the current program for output and 2) not to attempt to update the statistics on the grounds that other agencies are better able to fulfill that function.

Seminar Series

The Growth Center has continued its sponsorship of a seminar series that presents guest speakers from Yale and outside institutions

to both faculty and students of economics and allied subjects at Yale. The series during 1969-70 included the following speakers and topics:

- October 20, 1969: Professor Anne O. Krueger, University of Minnesota, "Evaluating Restrictionist Trade Regimes: Theory and Measurement."
- October 27, 1969: Professor Dudley Seers, Institute of Development Studies, "Can We Construct a Political Economy of Development?"
- December 8, 1969: Professor Yujiro Hayami, University of Minnesota, "Green Revolution in Historical Perspective: The Experience of Japan, Taiwan, and Korea."
- February 9, 1970: Professor Daniel M. Schydrowsky, Harvard University, "Benefit-Cost Analysis of Foreign Investment Proposals: The Viewpoint of the Host Country."
- February 23, 1970: Professor John Fei, Economic Growth Center, "Development in the Open Dualistic Economy."
- March 2, 1970: Professor Bela Balassa, Johns Hopkins University, "Industrial Planning in Developing Countries."
- March 9, 1970: Professor Robert Evenson, Economic Growth Center, "The Research Basis for the Green Revolution."
- April 6, 1970: Professor Charles Frank, Princeton University, "Debt Servicing Capacity."

- April 20, 1970: Lord Thomas Balogh,
"The Pearson-Jackson Report and the
Reform of the International Bureaucracy."
- May 4, 1970: Professor Raymond Vernon, Harvard Univer-
sity, "Prospects for the Multinational
Enterprise."
- May 11, 1970: Professor Robert Baldwin, University of
Wisconsin-Madison, "Determinants of the
Commodity Structure of U. S. Trade: The
Leontief Paradox Revisited."
- May 25, 1970: Professor Lloyd Reynolds, Economic Growth
Center, "The Relevance of Western Economic
Theory to Non-Western Economies."
- June 1, 1970: S. K. Singh, World Bank, "Overall Employ-
ment Prospects in Less Developed Countries."

Short-term Visitors

The practice of receiving short-term visitors anxious to take advantage of the Center's library, informal discussion groups, seminars, etc. continued this year. Professor Armand Fabella, an Eisenhower Fellow and Acting Secretary to the President of the Philippines, was welcomed in September to explore the functions of private institutions in relation to the economic and administrative sciences.

In May and June of this year a Japanese scholar, Professor Kenichi Miyazawa of Hitotsubashi University, spent several weeks at

the Center in order to carry out research in sectoral analysis. During his stay, Professor Miyazawa prepared a paper analyzing "The Interdependence Between the Service- and Goods-Producing Sectors" to be presented in the Discussion Paper series.

Dr. Hai Tat Lin of Taiwan, a senior economist in the Council for International Economic Cooperation and Development, and a participant in the State Department's International Visitor Program, was welcomed at the Center for a series of meetings with the Center Director, Professors John Fei, Richard Nelson, Howard Pack, and Samuel Ho.

Staff and Administration

Professor Gustav Ranis completed the third year of his appointment as Center Director and was re-appointed to a second three-year term by unanimous vote of the Executive Committee in May. Professor Benjamin Cohen completed a second year as Assistant Director before resigning effective July 1. He will be succeeded by Professor R. Albert Berry, who held the same office from 1966 through 1968, and who returned to the Center this year after a year's leave in his subject country, Colombia.

In addition to Professor Berry, seven country analysts continued in Center appointments. They include Professor Carlos Diaz-Alejandro, who returned to Yale following his resignation from the faculty at the University of Minnesota and his service as a member of the Pearson Commission. Others of the country analysts who were Center residents while continuing work under AID contracts were Howard Pack (employment), Stephen Resnick (Philippines), Vahid Nowshirvani

(Iran), Samuel Ho (Taiwan), J. Dirck Stryker (Ivory Coast), and Ammar Siamwalla (Thailand). Both Nowshirvani and Siamwalla will be on leave during the coming year in order to return to their subject countries to gather the final data necessary for their monographs. In addition, summer 1969 and 1970 appointments were granted to Paul Kuznets (Korea) to support continuing work on his country study.

During 1969-70, the Center's research staff was augmented by five long-term visitors holding appointments as either Research Associates or Post-Doctoral Fellows. They included Herman Daly of the University of Louisiana (demography), Laurence Stifel of the Rockefeller Foundation (Thailand), Daniel Sisler of Cornell University (agriculture), Peter Bell of the University of Vancouver (Thailand), and Norman Girvan of the University of the West Indies (the multinational corporation).

Financial Summary

A report on budget estimates and actual expenditures for the 1969-70 fiscal year is attached. It discloses actual expenditures of \$54,169 against available funds totalling \$54,286.

It should be noted here that available funds at the start of 1969-70 exceeded our earlier estimates by approximately \$18,000. The underexpenditure for FY 1968-69, as noted in our prior annual report, was due to a delay in billings from the publisher. For various reasons, these billings are still incomplete. Accordingly, the funds available from this source were applied instead (per the

terms of Letter Amendment 7) to support for the country analysts.
Pending obligations for costs of publication will be met from other
sources.

The unbudgeted items identified as Supporting Faculty, Travel,
and Supplies, represent obligations incurred during or prior to
FY 1969 which were not debited until the start of FY 1970.

It must also be noted that actual overhead charges recorded
as of June 30, 1970, exceeded the 44.6% rate stipulated in Letter
Amendment 7. Accordingly, AID can expect a credit adjustment of
approximately \$2,329 in the final accounting under this contract.

COUNTRY DATA SYSTEMS AND ANALYSIS PROGRAM

Expenditures 1969-70

	<u>Budgeted</u>	<u>Actual</u>
SALARIES	(\$24,100)	(\$32,640)
Country Analysts	\$14,600	\$21,396
Supporting Faculty	--	1,665
Research Assistance	5,000	5,378
Secretarial	4,500	4,201
FRINGE BENEFITS	1,084	3,222
OVERHEAD	10,748	16,886
TRAVEL	--	897
SUPPLIES	--	524
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	\$35,932	\$54,169

COUNTRY STUDIES - DOCUMENTATION

Argentina

- "The Argentine State and Economic Growth," by Carlos Diaz-Alejandro, 1968.
- "Argentine Stop-Go Cycles and Inflation During 1945-66," by Carlos Diaz-Alejandro, 1968.
- "The Rural Sector in Argentine Growth," by Carlos Diaz-Alejandro, 1968.
- "Relative Prices, Industrialization and Capital Formation," by Carlos Diaz-Alejandro, 1968.
- "Stages in the Industrialization of Argentina," by Carlos Diaz-Alejandro, 1968.
- "The Growth and Structure of the Argentine Economy Before 1930," by Carlos Diaz-Alejandro, 1968.
- "The Argentine Tariff, 1906-1940," by Carlos Diaz-Alejandro (Oxford Economic Papers, Vol. 19, No. 1, March 1967).
- "An Interpretation of Argentine Economic Growth Since 1930," Parts I and II, by Carlos F. Diaz-Alejandro (Journal of Development Studies, Part I, October 1966, Part II, January 1967).

Brazil

- "Some Aspects of the Brazilian Experience with Foreign Aid," by Carlos Diaz-Alejandro, October 1969.
- "The Population Question in Northeast Brazil: Its Economic and Ideological Dimensions," by Herman Daly, September 1969.
- "Disequilibrium Systems, Industrialization and Inflation: The Brazilian Case," by Donald Huddle, July 1967.
- "Notes on the Brazilian Industrialization: Sources of Growth and Structural Change, 1947-1963," by Donald Huddle, June 1967.

"Furtado on Exchange Control and Economic Development: An Evaluation and Reinterpretation of the Brazilian Case," by Donald Huddle (Economic Development and Cultural Change, April 1967).

Industrialization and Economic Development in Brazil, Werner Baer, R. D. Irwin, Inc., Homewood, Ill., 1965.

"Political Obstacles to Economic Growth in Brazil," by Celso Furtado (International Affairs, April 1965).

"Transportation and Inflation: A Study of Irrational Policy Making in Brazil," by Werner Baer, Isaac Kerstenetzky, Mario Henrique Simonsen (Economic Development and Cultural Change, January 1965).

"Import Substitution and Industrialization in Brazil" by Werner Baer and Isaac Kerstenetzky (American Economic Review, May 1964).

"Regional Inequality and Economic Growth in Brazil," by Werner Baer (Economic Development and Cultural Change, Vol. XII, No. 3, April 1964).

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Ceylon

Ceylon: An Export Economy in Transition, Donald R. Snodgrass, R. D. Irwin, Inc., Homewood, Ill., 1966.

Chile

"Explanations of Chilean Economic Development: A Review and Synthesis," by Markos J. Mamalakis, 1969.

"Evolution and Transformation: 1840 to 1930," by Markos J. Mamalakis, 1969.

"The North, Nitrate, and Government: 1880-1930," by Markos J. Mamalakis, 1969.

"Growth and Performance of the Agricultural Sector," by Markos J. Mamalakis, 1969.

- "Industrial Evolution and Transformation: 1840-1968," by Markos J. Mamalakis, 1969.
- "Retreat, Recovery and Growth: 1930-1967," by Markos J. Mamalakis, 1969.
- "Saving and Investment in Chile: An Overall View," by Markos J. Mamalakis, 1969.
- "The Export Sector, Stages of Economic Development, and the Saving Investment Process in Latin America," by Markos J. Mamalakis, 1969.
- "The Service Sector: Trends in Income and Employment During 1940-1966," by Markos J. Mamalakis, 1969.
- "The Service Sector: Functions and the Need for Them," by Markos J. Mamalakis, 1969.
- "Historical Statistics of Chile, 1840-1967," by Markos J. Mamalakis, 1969.
- "An Analysis of the Financial and Investment Activities of the Chilean Development Corporation: 1934-1964," by Markos J. Mamalakis (Journal of Development Studies, January 1969).
- "The American Copper Companies and the Chilean Government, 1920-1967: Profiles of an Export Sector," by Markos J. Mamalakis, September, 1967.
- "Negative Personal Saving in the Chilean National Accounts: An Artifact or Reality," by Markos J. Mamalakis, August 1967.
- "The Changing Structure and Roles of the Chilean Agricultural Sector," by Markos J. Mamalakis, April 1967.
- Essays on the Chilean Economy, Markos J. Mamalakis and Clark W. Reynolds, R. D. Irwin, Inc., Homewood, Ill., 1965.

Colombia

- "Some Implications of Elitist Rule for Economic Development in Colombia," R. Albert Berry, April 1968.
- "An Introduction to the Key Issues in Colombian Agriculture," by R. Albert Berry, 1968.

- "Historical Development and Sources of Growth in Colombian Agriculture," by R. Albert Berry, 1968.
- "Process of Growth of Specific Inputs: Evidence on Their Contribution to the Growth of Output," by R. Albert Berry, 1968.
- "A Cross-Sectional and Micro Approach to an Understanding of the Productivity of the Agricultural Sector," by R. Albert Berry, 1968.
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Israel

- "Some Preliminary Observations on the Development of the Economy of Israel," by Howard Pack, 1969.
- "Factor Inputs, Output Growth and Productivity," by Howard Pack, 1969.
- "The Intersectoral Structure of the Growth Process," by Howard Pack, 1969.
- "Import Substitution and Export Growth in Manufacturing," by Howard Pack, 1969.
- "The Agricultural Sector," by Howard Pack, 1969.
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- "Macroeconomic Policy," by Howard Pack, 1969.
- "Conclusions on the Development of the Economy of Israel," by Howard Pack, 1969.

"Government Objectives and Achievements in Fostering Economic Development in Israel," by Howard Pack, 1968.

Korea

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"Income Consumption and Capital Formation," by Paul W. Kuznets, 1969.

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Mexico

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"Agrarian Revolution in Mexico: A History of Agricultural Production and Productivity, 1900-1960," by Clark W. Reynolds, 1968.

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- "Industrialization and Employment Generation in Nigeria,"
by Charles Frank (The Nigerian Journal of Economic
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- "Employment Objectives and Economic Development in Africa
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"On the Accuracy of Peruvian Foreign Trade Statistics," by Shane Hunt, April 1966.

Taiwan

"Colonial Taiwan: Economic Development Under Bureaucratic Entrepreneurship," by Samuel Ho, 1970.

"The Making of a Modern Agricultural Sector," by Samuel Ho, 1970

"Early Efforts at Industrialization," by Samuel Ho, 1970.

"The Colonial Economy: A Partial and Tentative Assessment," by Samuel Ho, 1970.

"Post War Growth and Structural Changes in Agriculture," by Samuel Ho, 1970.

"Agricultural Transformation Under Colonialism: The Case of Taiwan," by Samuel Ho (Journal of Economic History, September 1968).

"The Development Policy of the Japanese Colonial Government in Taiwan, 1895-1945," by Samuel Ho, 1968.

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