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General research advisory Panel  
General information 1978

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Those listed below

March 3, 1978

Armeane M. Choksi, VPD

Annex to the Board Document on Research

In the attached folder you will find a few tables and notes which relate to the annual report on research. They have been prepared for possible use at the Board meeting on March 7.

Attachment

Distribution: Messrs. Chenery  
Grimes  
Karaosmanoglu  
B. King  
Little  
van der Tak

AChoksi:tr

UNIVERSITY



## ANNEXES

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LIST OF RESEARCH PROJECTS

<u>Project No.</u>	<u>Project Title</u>	<u>Project No.</u>	<u>Project Title</u>
0-01	Development Strategies in Semi-Industrial Countries	670-20	Industrialization & Trade Policies for the 1970s
-02	Country Programming Study: Chile	-21	Export Promotion & Preferences: India
-03	Patterns of Demand & Savings in the Development Process	-22	Economies of Scale & Tariff Levels
-04	Study in Multi-Level Programming: Ivory Coast	-23	Scope for Capital-Labor Substitution in the Mechanical Engineering Industry
-05	Cross-Section Analysis of the Development Process	-24	Programming in the Manufacturing Sector
-06	Short-run & Long-run Influences upon Income Distribution	-25	Industrial Capacity Utilization in Selected Latin American Countries
-07	International Model	-26	Substitution of Labor & Equipment in Civil Construction
-08	Project Appraisal & Shadow Prices	-27	Highway Design Study, Phase II
-09	Size Distribution of Income	-28	Measurement of Road Width/Vehicle Speed Relationships
-10	Survey of Economy-Wide Planning Models	-29	Yemen Arab Republic Feeder Road Study
-11	Prospects for Jute & Competition from Synthetics	-30	Impact on Port Congestion of Ship Rescheduling.
-12	Reappraisal of Credits for Financing Farm Mechanization in Pakistan	-31	Promotion of Domestic Construction Industry in Developing Countries
-13	Evaluation of Alternative Methods for Specifying Agricultural Sector Development Strategies: Portugal & Brazil	-32	Compilation of Highway Design Standards
-14	Agriculture Mechanization Study in India	-33	Railway Traffic Costing Study
-15	Agricultural Research & Productivity Changes	-34	Urban Transport & the Automobile
-16	Agricultural Sector in Mexico	-35	Criteria for Choice between Electricity & Diesel Traction in Project Evaluation
-17	Livestock Simulation Model	-36	Property Values & Water Supply
-18	Rural Development in Africa	-37	Village Water Supply
-19	Expansion in Manufacturing for Exports in Developing Countries	-38	Analysis of Problems & Issues in Village Electrification

<u>Project No.</u>	<u>Project Title</u>	<u>Project No.</u>	<u>Project Title</u>
670-39	Pricing & Investment in Electricity Supply	670-59	The Future Prospects of Hard Fibers
-40	Economic Models of Internal Migration	-60	Case Study of Alternative Methods of Project Appraisal
-41	The Urban Data Needs of the World Bank	-61	Analysis of Farmers' Response to New Rice Varieties in East Pakistan
-42	Professional Structure in Southeast Asia	-62	Cost Patterns of Official Family Planning
-43	Labor Market in Malaysia	-63	Demographic Projection & Analysis
-44	Education Finance and Income Distribution	-64	Family Planning Programs - Evaluation of Results
-45	Labor Force Participation, Income, & Unemployment	-65	Development Strategies & Employment Considerations
-46	Cost Effectiveness of Alternative Learning Technologies in Industrial Training	-66	Bank Lending & Employment
-47	Costa Rica Employment Survey	-67	Standards of Reliability of Urban Electricity Supply
-48	Economic Issues of Health	-68	International Comparison Project
-49	International Hotel Comparison	-69	Growth & Income Distribution in Brazil
-50	Mechanization in India: Its Extent & Effect on Hired Labor	-70	Urban Public Finance and Administration
-51	Survey of Non-Formal Rural Education	-71	Ethiopia Feeder Road Study
-52	Study of Underutilization of Manpower in Northeast Brazil	-72	Study of Irrigation Water Charge
-53	Computer Simulation Models for Use in Agriculture Appraisal Work	-73	Rural Development in Northeast Brazil
-54	Employment & Capital-Labor Substitution	-74	Analysis of Income & Consumption (ECIEL)
-55	The Growth Potential of Iron Ore Export from Developing Countries	-75	Rural & Urban Public Works
-56	Expansion of Sugar Production in Developing Countries	-76	Pricing & Investment in Telecommunications
-57	Outlook for World Import Demand for Bauxite	-77	Financing of Small Scale Industry
-58	Trade Prospects for Tropical Hardwood in the Asia-Pacific Region	-78	Project Evaluation Methodology: Education Attainments
		-79	Economic Development of East & Southeast Asia



<u>Project No.</u>	<u>Project Title</u>	<u>Project No.</u>	<u>Project Title</u>
0-80	Land Reform in Latin America	670-99	Economic Aspects of Household Fertility Behavior & Labor Supply in Northeast Brazil
-81	Comparative Analysis of Resource Allocation in Cocoa Production		
		671-01	Country Concentration
-82	Seminar on Inflation & Commodity Prices	-02	Population Growth & Rural Poverty
-83	Evaluation of Latin American Data on Income Distribution	-03	Maximizing Usefulness of Household Surveys
-84	Growth, Employment & Size Distribution of Income	-04	Rural Savings & Investment
-85	Urban Income Distribution in Latin America	-05	Patterns of Industrial Development
-86	Prototype Models for Country Analysis	-06	Employment Models & Projections
-87	Industrial Policies & Economic Integration in West Africa	-07	Council for Asian Manpower Studies (CAMS)
-88	Agriculture Sector in Indonesia	-08	Evaluation of Asian Data on Income Distribution
-89	Development Strategies for Smallholder Agriculture in Yugoslavia	-09	Natural Resources & Planning-Issues in Trade & Investment
-90	Labor Market in a Rapidly Growing Economy	-10	Promotion of non-Traditional Exports
-91	Benefits of Schooling for Workers	-11	Public Utility Pricing & Investment
-92	Conferences	-12	Reduction in Waste Water
-93	Evaluation of Lilongwe Land Development Program	-13	Port Pricing & Investment Policies for Developing Countries
-94	Employment & Income Distribution in Malaysia	-14	Madagascar Feeder Road Study
-95	Industrial Capacity Utilization	-15	Effects of Health & Nutrition Standards on Worker Productivity
-96	Distributive Impact of Public Expenditures	-16	Standards for Site & Services Projects
-97	Urban & Regional Subsystems in West Malaysia	-17	The Analytics of Change in Rural Communities
-98	Urban Land Use Policies: Taxation & Control		



<u>Project No.</u>	<u>Project Title</u>	<u>Project No.</u>	<u>Project Title</u>
71-18	Pricing & Financing of Urban Public Services: Water Supply & Sewage Disposal	671-36	Income Distribution in Thailand
-19	Economic Development & Educational Reform	-37	Analyzing the Effects of Urban Housing Policies in Developing Countries
-20	Urban Traffic Restraint (Singapore)	-38	Narangwal Population & Nutrition
-21	Foodgrain Production in Asia	-39	Price Intervention in Agriculture
-22	Raising the Productivity of Small Farms	-40	International Review Group on Research in Population and Development
-23	Agricultural Commodity Projections	-41	Indirect Estimation of the Size Distribution of Income
-24	Simulation of Buffer Stocks	-42	Country Case Studies of Agricultural Prices and Subsidies
-25	Commercial Bank Behavior	-43	The Consequences of Risk for Agricultural Policy
-26	Migration Patterns in West Africa	-44	Agricultural Innovation and Rural Development
-27	Social Accounts & Development Models	-45	Programming & Designing Investment: Indus Basin
-28	Linkage of Commodity & Country Models	-46	Appropriate Technology for Water and Waste Disposal
-29	Agricultural Pricing & Storage Policies in East Africa	-47	Strategic Planning to Accommodate Rapid Growth in Cities of Developing Countries ("City Study")
-30	Structure of Rural Employment, Income, & Labor Markets	-48	Urban Labor Markets in Latin America
-31	A Comparative Analysis of Rural-Urban Labor Market Interactions	-49	Education and Rural Development in Nepal and Thailand
-32	A Comparative Study of the Sources of Industrial Growth & Structural Change	-50	Economic Role of Railways
-33	Ability Characteristics as Factors of Production	-51	Appropriate Industrial Technology
-34	Management and Organization of Irrigation Projects	-52	Occupational Structures of Industries
-35	Export Incentives in Developing Countries		

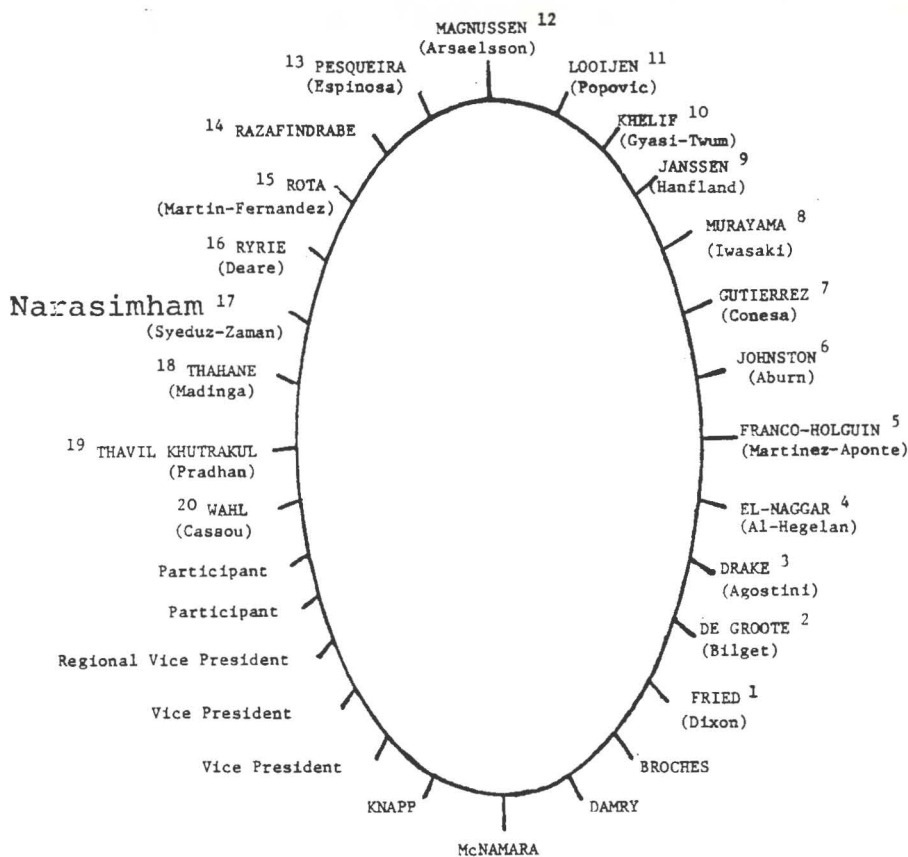
<u>Project No.</u>	<u>Project Title</u>	<u>Project No.</u>	<u>Project Title</u>
671-53	El Salvador Health Study	671-71	Public Enterprise Project
-54	Economics of Educational Radio	-72	Growth, Poverty and Basic Needs
-55	Retention of Literacy/ Numeracy Skills Among School Leavers	-73	Kenya - Health, Nutrition and Worker Productivity Studies
-56	Marketing Manufactured Exports	-74	The Economics of Schistosomiasis Control Activities
-57	Distribution of Income through the Extended Family System		
-58	A General Algebraic Modeling System (GAMS)		
-59	Small-Scale Enterprise Development		
-60	Textbook Availability and Educational Quality		
-61	Socio-Economic Aspects of Fertility Behavior in Rural Botswana		
-62	India--Impact of Agricultural Development on Employment and Poverty: Phase I		
-63	Labor Migration and Manpower in the Middle East and North Africa		
-64	Food Deficits of Target Groups		
-65	Small Enterprise Financing: Role of Informal Credit Market		
-66	Research Support for the World Development Report		
-67	Effects of Increased Imports of Manufactured Goods from Developing Countries		
-68	Key Institutions and Expansion of Manufactured Exports		
-69	Capital Market Imperfections and Economic Development		
-70	Case Studies of Determinants of Recent Fertility Decline		

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# ANNEX 2

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT - INTERNATIONAL DEVELOPMENT ASSOCIATION

## EXECUTIVE DIRECTORS - SEATING CHART



- |  |  |  |  |
|--|--|--|--|
| <p>1. United States</p> <p>2. Austria<br/>Belgium+<br/>Luxembourg<br/>Turkey++</p> <p>3. Bahamas*#<br/>Barbados*#<br/>Canada+<br/>Grenada<br/>Guyana++<br/>Ireland<br/>Jamaica*</p> <p>4. Bahrain*#<br/>Egypt, Arab Rep. of+<br/>Iraq<br/>Jordan<br/>Kuwait<br/>Lebanon<br/>Pakistan<br/>Qatar*#<br/>Saudi Arabia++<br/>Syrian Arab Rep.<br/>United Arab Emirates*<br/>Yemen Arab Rep.</p> <p>5. Brazil<br/>Colombia+<br/>Dominican Rep.++<br/>Ecuador<br/>Philippines</p> | <p>6. Australia+<br/>New Zealand++<br/>Papua New Guinea<br/>Western Samoa</p> <p>7. Argentina++<br/>Bolivia<br/>Chile<br/>Paraguay+<br/>Uruguay*</p> <p>8. Japan</p> <p>9. Germany</p> <p>10. Afghanistan<br/>Algeria+#<br/>Ghana++<br/>Greece<br/>Iran<br/>Libya<br/>Morocco<br/>Oman<br/>Tunisia<br/>Yemen, People's Dem.<br/>Rep. of#</p> | <p>11. Cyprus<br/>Israel<br/>Netherlands+<br/>Romania*#<br/>Yugoslavia++</p> <p>12. Denmark<br/>Finland<br/>Iceland++<br/>Norway+<br/>Sweden</p> <p>13. Costa Rica<br/>El Salvador<br/>Guatemala<br/>Haiti<br/>Honduras<br/>Mexico+<br/>Nicaragua<br/>Panama<br/>Peru++<br/>Venezuela*</p> | <p>14. Benin, People's Rep. of #<br/>Cameroon<br/>Central African Empire#<br/>Chad#<br/>Congo, People's Rep. of#<br/>Gabon<br/>Ivory Coast<br/>Madagascar+<br/>Mali#<br/>Mauritania<br/>Mauritius<br/>Niger#<br/>Rwanda<br/>Senegal<br/>Somalia<br/>Togo<br/>Upper Volta<br/>Zaire</p> <p>15. Italy+<br/>Portugal*<br/>Spain++</p> <p>16. United Kingdom</p> <p>17. Bangladesh++<br/>India+<br/>Sri Lanka</p> <p>18. Botswana#<br/>Burundi*<br/>Equatorial Guinea#<br/>Ethiopia<br/>Gambia, The#<br/>Guinea#<br/>Kenya<br/>Lesotho+<br/>Liberia<br/>Malawi++<br/>Nigeria<br/>Sierra Leone<br/>Sudan<br/>Swaziland<br/>Tanzania<br/>Trinidad &amp; Tobago<br/>Uganda<br/>Zambia</p> <p>19. Burma<br/>Fiji#<br/>Indonesia<br/>Korea<br/>Lao People's<br/>Dem. Rep.#<br/>Malaysia<br/>Nepal++<br/>Singapore*<br/>Thailand+<br/>Viet Nam</p> <p>20. France</p> |
|--|--|--|--|

Bank - 131 Members  
IDA - 120 Members  
IFC - 107 Members

\*Not an IDA Member  
#Not an IFC Member

+Country of Executive Director  
++Country of Alternate Executive Director

(Cambodia#, Rep. of China, The Comoros#, Guinea-Bissau, Maldives#, Sao Tome and Principe# and South Africa are not formally represented on the Board)

Secretary's Department  
January 16, 1978





Annex 3

Staff Expected to Attend Board Meeting

Research Committee

DPS

-

CPS

Jaycox  
van der Tak

Regions and Others

Dubey  
Lerdau  
Picciotto  
Vergin

Other Staff

DPS

Candler  
Pyatt  
Hughes  
Stoutjesdijk

CPS

Donaldson  
Rovani  
Willoughby  
Kanagaratnam

Hultin  
F. Moore

Others

Merriam  
(de Tchihatchef)

Special Categories

A. To be seated in anteroom  
if space in Board Room  
not available:

Westphal  
Leiserson  
T. King  
Keare

B. To attend if additional  
space permits:

Hazzah

February 27, 1978

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ANNEX 4a

DEPARTMENT PROFILE OF EXTERNAL RESEARCH PROGRAM  
(\$'000)

	<u>FY74</u>	<u>FY75</u>	<u>FY76</u>	<u>FY77</u>	<u>FY78</u> <u>1/</u>
I. <u>Development Policy Staff</u>	<u>1187.3</u>	<u>1211.0</u>	<u>1559.1</u>	<u>1193.1</u>	<u>1821.8</u>
Development Economics Department	445.6	421.4	545.2	327.1	1037.4
<del>Economic</del> Analysis and Projections Department	110.2	136.8	165.3	233.0	94.9
Development Research Center	631.5	652.8	848.6	633.0	689.5
II. <u>Central Projects Staff</u>	<u>507.0</u>	<u>713.6</u>	<u>505.9</u>	<u>787.3</u>	<u>880.5</u>
Transportation Department	199.4	324.2	253.7	261.6	173.8
Urban Projects Department	-	176.3	137.7	7.3	-
Energy, Water & Telecommunications Department	123.3	82.8	37.4	232.7	400.7
Agriculture and Rural Development Department	74.8	61.5	55.5	269.0	157.3
Industrial Projects Department	50.0	-	-	-	12.5
Projects Advisory Staff	13.0	17.3	2.9	-	14.9
Education Department	46.5	51.5	18.7	16.7	121.3
III. <u>Regions</u>	<u>26.5</u>	<u>52.0</u>	<u>3.9</u>	<u>39.4</u>	<u>206.4</u>
IV. <u>Other</u>	<u>20.9</u>	<u>9.2</u>	-	<u>19.4</u>	<u>55.8</u>
Total	<u>1741.7</u>	<u>1985.8</u>	<u>2068.9</u>	<u>2039.2</u>	<u>2964.5</u>

1/ Based on Authorizations up to February 17, 1978 totalling 2,964,500.

March, 1978.

ANNEX 4b

DEPARTMENT PROFILE OF EXTERNAL RESEARCH PROGRAM  
(in Percentage)

	<u>FY74</u>	<u>FY75</u>	<u>FY76</u>	<u>FY77</u>	<u>FY78</u>	<u>1/</u>
I. <u>Development Policy Staff</u>	<u>68.2</u>	<u>61.0</u>	<u>75.4</u>	<u>58.5</u>	<u>61.5</u>	
Development Economics Department	25.6	21.2	26.4	16.0	35.0	
Economic Analysis and Projections Department	6.3	6.9	8.0	11.4	3.2	
Development Research Center	36.3	32.9	41.0	31.1	23.3	
II. <u>Central Projects Staff</u>	<u>29.1</u>	<u>35.9</u>	<u>24.5</u>	<u>38.6</u>	<u>29.7</u>	
Transportation Department	11.4	16.4	12.3	12.8	5.9	
Urban Projects Department	-	8.8	6.7	0.4	-	
Energy, Water & Telecommunications Department	7.1	4.2	1.8	11.4	13.5	
Agriculture and Rural Development Department	4.3	3.1	2.7	13.2	5.3	
Industrial Projects Department	2.8	-	-	-	0.4	
Projects Advisory Staff	0.7	0.8	0.1	-	0.5	
Education Department	2.8	2.6	0.9	0.8	4.1	
III. <u>Regions</u>	<u>1.5</u>	<u>2.6</u>	<u>0.1</u>	<u>1.9</u>	<u>6.9</u>	
IV. <u>Other</u>	<u>1.2</u>	<u>0.5</u>	<u>-</u>	<u>1.0</u>	<u>1.9</u>	
Total	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	

1/ Based on Authorizations up to February 17, 1978 totalling 2,964,500.

March, 1978.

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Annex 5: Co-Financing of External Research Projects

<u>Category/Title</u>	<u>Project Code</u>	<u>Co-financier</u>	<u>Amount (\$Million)</u>	<u>Period</u>	<u>Type</u>	<u>Comments</u>
<u>Development Policy &amp; Planning</u>						
A. <u>General/Planning</u>						
B. <u>Income Distribution</u>						
Evaluation of Latin American Data on Income Distribution	670-83	ECLA	N.A.	FY 74-77	Parallel	
Evaluation of Asian Data on Income Distribution	671-08	ESCAP	N.A.	FY 75-78	Parallel	
C. <u>Growth/Country Economic Analysis Development Strategy</u>						
International Comparison Project	670-68 <u>1/</u>	U.N. Statistical Office	0.418	FY 68-78	Executor	mostly salaries
		Germany	0.162	FY 75-78	Joint	part technical assistance from Deutsches Institut fur Wirtschaftsforschung
		Netherlands	0.413	FY 68-78	Joint	Includes Netherlands Trust Fund at U.N.
		U.K.	0.118	FY 76-77	Parallel	36 manmonths of technical assistance

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Each of the participating countries contributes staff resources to ICP work; no accounting of amounts of such time has been maintained.

<u>Category/title</u>	<u>Project Code</u>	<u>Co-financier</u>	<u>Amount (\$Million)</u>	<u>Period</u>	<u>Type</u>	<u>Comments</u>
International Comparison Project (Cont'd.)	670-68	USAID	0.315	FY 68-78	Parallel & Joint	parallel before FY 74
		Denmark	0.045	FY 75-78	Joint	
		Others	0.030	FY 68-78	Joint	Includes Hungary, Norway
		Ford Foundation	0.385	FY 68-73	Parallel	
		Social Science Research Council	0.006	FY 68-73	Parallel	
<u>II. International Trade &amp; Finance</u>						
Linkage of commodity and country models	671-28	UNCTAD	0.020	FY 76-78	Parallel	
<u>III. Agriculture &amp; Rural Development</u>						
Agriculture Commodity Projections	671-23	Ford Foundation	0.090	FY 74-78	Parallel	
<u>V. Transportation</u>						
Substitution of Labor and Equipment in Civil Construction	670-26	USAID	0.4	FY 75-76	Joint	
		Germany	0.4			
		Japan	0.2			
		U.K.	0.4			
		Canada	0.2			
		Nordic Countries	0.3			

<u>Category/title</u>	<u>Project Code</u>	<u>Co-financier</u>	<u>Amount (\$Million)</u>	<u>Period</u>	<u>Type</u>	<u>Comments</u>
<u>Transportation (Cont'd.)</u>						
Substitution of Labor and Equipment in Civil Construction	670-26	Governments of Kenya, Honduras	N.A.	FY 75-76	Joint	
Highway Design Study Phase III	670-27	UNDP (Brazil)	2.4		Parallel and	
		Government of Brazil	5.9	FY 76-79	Executor	
		Government of India	0.6			Tentative
VII. <u>Urbanization &amp; Regional Development</u>						
Urban Traffic Restraint, Singapore	671-20	UNEP	0.055	FY 75-76	Joint	
		U.S. Dept. of Transportation	0.060	FY 76-77	Joint	
VIII. <u>Population and Human Resources</u>						
A. <u>Education</u>						
B. <u>Labor &amp; Employment</u>						
Migration Patterns in West Africa	671-26	OECD (Franco-phone countries)	0.030	FY 76-77	Executor	
Case Studies of Determinants of Recent Fertility Decline	671-70	(UNFPA) United Nations Fund for Population Activities	0.040	FY 78-79	Joint	

<u>Category/title</u>	<u>Project Code</u>	<u>Co-financier</u>	<u>Amount (\$Million)</u>	<u>Period</u>	<u>Type</u>	<u>Comments</u>
VIII. <u>Population and Human Resources (Cont'd.)</u>						
C. <u>Population and Health</u>						
Population Growth & Rural Poverty	671-02	(U.S.) Population Council	0.116	FY 74-77	Parallel	
		(U.K.) Population Bureau (ODA)	0.058	FY 74-77		
International Review Group on Research in Population and Development	671-40	Norwegian Agency for International Development	0.038			
		Ford Foundation	0.050			
		Rockefeller Foundation	0.050			
		SIDA	0.040			
		USAID (through Population Council)	0.050	FY 76-77	Parallel	
		U.K.	0.017			
		International Development Research Centre (IDRC)	0.050			
		UN Fund for Population Activities	0.050			

March 1, 1978

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Annex 6

Policy/Issues Papers Related to External Research Projects

<u>Subject</u>	<u>Report and Date</u>	<u>Research Project Code</u>	<u>Title of Research Project</u>
<u>General</u>			
Promotion of LDC Exports of Manufactures (I11G76)	June 1976	670-01	Development Strategies in Semi-Industrial Countries
		671-10	Promotion of Non-Traditional Exports
		671-35	Export Incentives in Developing Countries
Public Works as a Policy Instrument (I06G76)	SecM76-231, April 1976	670-75	Rural & Urban Public Works
Economic Evaluation of Public Utility Projects (P03P74)	March 1975	670-39	Pricing & Investment in Electricity Supply
<u>Agriculture &amp; Rural Development</u>			
Land Reform (P03A74)	R74-87, May 1974	670-80	Land Reform in Latin America
Comparative Analysis of Cocoa Production in Selected Countries (P07A74)	SecM74-528, July 1974	670-81	Comparative Analysis of Resource Allocation in Cocoa Production
Issues in Rural Electrification (P02P74)	Report No. 517, July 1974	670-38	Analysis of Problems and Issues in Village Electrification
Rural Development Sector Policy Paper (P05A74)	(Sector Policy Paper), February 1975	670-12	Reappraisal of Credits for Financing Farm Mechanization in Pakistan
		670-13	Evaluation of Alternative Methods for Specifying Agricultural Sector Development Strategies: Portugal & Brazil
		670-14	Agriculture Mechanization Study in India
		670-15	Agricultural Research and Productivity Changes

<u>Subject</u>	<u>Report and Date</u>	<u>Research Project Code</u>	<u>Title of Research Project</u>
<u>Agriculture &amp; Rural Development (cont'd.)</u>			
		670-18	Rural Development in Africa
		670-51	Survey of Non-Formal Rural Education
		670-96	Distributive Impact of Public Expenditures
Attacking Rural Poverty How Non-Formal Educa- tion can Help (IO3E74)	Published as book 1974	670-51	Survey of Non-Formal Rural Education
Farm Technology (IO3A77)	Staff Level Distribution, February 1977	670-12	Reappraisal of Credits for Financing Farm Mechanization in Pakistan
Fertilizer Production (IO8174)	R74-109 May 1974	670-24	Programming in the Manu- facturing Sector
Bank Lending for Food- grain Output (P10A76)	Dist. to President December 1976	671-21	Foodgrain Production in Asia
Policy Paper on Agri- cultural Prices and Subsidies (P12A77)	Dist. to President, December 1977	671-42	Country Case Studies of Agri- cultural Prices & Subsidies
Issues Paper on Agri- cultural Prices and Subsidies (IO5A77)	Staff Level Distribution, December 1976	671-42	Country Case Studies of Agri- cultural Prices & Subsidies
Country Food Security Strategies (P14A78)	Staff Level Distribution April 1978	671-21 671-64	Foodgrain Production in Asia Food Deficits of Target Groups
<u>Industry</u>			
Promotion of Domestic Construction Industry (PO6G74)	R73-291, January 1974	670-31	Promotion of Road Construction Industry in Developing Countries

<u>Subject</u>	<u>Report and Date</u>	<u>Research Project Code</u>	<u>Title of Research Project</u>
<u>Transportation</u>			
Criteria for Employment of Departmental Forces (Force Accounts) in Bank-Financed Civil Works (P12G74)	CPS Guidelines No.711 September 1974	670-31	Promotion of Road Construction Industry in Developing Countries
Bank Policy in Urban Transport (PO2U74)	(Sector Policy Paper) May 1975	670-34	Urban Transport and the Automobile
Highway Design Standards (IO5G74)	F.W. Cron, A Review of Highway Design Practices in Developing Countries, May 1975	670-32	Compilation of Highway Design Standards
<u>Trade</u>			
Integrated Program for Commodities and Common Fund (PO3X77)	Distributed to President May 1977	670-82	Seminar on Inflation and Commodity Prices
<u>Energy, Water &amp; Telecommunications</u>			
Issues in Village Water Supply (PO1W74)	Report No. 793, June 1975	670-37	Village Water Supply
<u>Urbanization</u>			
Urban Land Policy (IO2U77)	Staff Level Distribution, January 1977	670-98	Urban Land Use Policies: Taxation and Control
		671-18	Pricing and Financing of Urban Public Services: Water Supply & Sewage Disposal
<u>Education</u>			
Education Sector Policy Paper (PO1E75)	Sector Policy Paper, December 1974	670-44	Education Finance & Income Distribution
		670-46	Cost Effectiveness of Alternative Learning Technologies in Industrial Training
		670-51	Survey of Non-Formal Rural Education

<u>Subject</u>	<u>Report and Date</u>	<u>Research Project Code</u>	<u>Title of Research Project</u>
<u>Education (cont'd.)</u>			
Third Education Sector Working Paper (PO2E77)	Sector Working Paper November 1977	670-44	Education Finance and Income Distribution
		670-46	Cost Effectiveness of Alternative Learning Technologies in Industrial Training
		671-19	Economic Development and Educational Reform
Issues in Higher Education (104E77)	Staff Level Distribution April 1977	671-55	Retention of Literacy/ Numeracy Skills Among School Leavers
<u>Basic Needs</u>			
Nutrition (PO4B78)	Staff Level Distribution October 1978	671-15	Effects of Health & Nutrition Standards on Worker Productivity
Health (PO7B78)	Staff Level Distribution November 1978	670-48	Economic Issues of Health
Water and Sanitation (PO8B78)	Staff Level Distribution November 1978	671-46	Appropriate Technology for Water Supply & Waste Disposal

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## Annex 7

Working Papers Arising from  
External Research Projects

<u>Working Paper No.</u>	<u>Research Project No.</u>	<u>Author</u>	<u>Date</u>	<u>Title</u>
96	670-27	Moavenzadeh	January 1971	Highway Design Study Phase I: The Model
125	670-04	Vaurs/Goreux/ Condos	March 1972	An Agricultural Model from the Ivory Coast Programming Study
126	670-39	Anderson/ Tarkan, et al	March 1972	Optimum Development of the Electric Power Sector in Turkey
128	670-08	Lal	March 1972	Adjustment for Trade Distortions in Project Analysis
129	"	"	"	Employment, Income Distribution & a Poverty Redressal Index
130	"	"	"	On Estimating Income Distribution Weights for Project Analysis
134	670-19	Ozawa	August 1972	Labor Resource Oriented Migration of Japanese Industries to Taiwan, Singapore & South Korea
138	670-54	Singh	January 1973	Aggregate Production Function Causes of Growth, & Measures of Dynamic Efficiency
141	670-05	Chenery/ Carter	February 1973	Internal & External Aspects of Development Plans & Performance, 1960-70



<u>Working Paper o.</u>	<u>Research Project No.</u>	<u>Author</u>	<u>Date</u>	<u>Title</u>
142	670-08	Balassa	February 1973	Estimating the Shadow Price of Foreign Exchange in Project Appraisal
143	670-20	Hughes	February 1973	Trade & Industrialization Policies: The Political Economy of the Second Best
144	670-08	Blitzer	February 1973	On the Social Rate of Discount and Price of Capital in Cost-Benefit Analysis
151	670-40	Brigg	March 1973	Some Economic Interpretations of Case Studies of Urban Migration in Developing Countries
152	670-26	Karyadi/ Basta	April 1973	Nutrition & Health of Indonesian Construction Workers: Endurance & Anemia
153	670-48	Newman	May 1973	A Conceptual Framework for the Planning of Medicine in Developing Countries
154	670-05	Carter	June 1973	A Handbook of Expected Values of Structural Characteristics
156	670-11	Grilli	June 1973	The Future for Hard Fibers and Competition from Synthetics
157	670-44	Jallade	July 1973	The Financing of Education: An Examination of Basic Issues

<u>Working Paper No.</u>	<u>Research Project No.</u>	<u>Author</u>	<u>Date</u>	<u>Title</u>
158	670-08	Lal	July 1973	Alternative Project Selection Procedure for Developing Countries: A Critical Survey Without Tears
162	670-34	Owen	September 1973	Automobile & Cities Strategies for Developing Countries
168	670-31	de Wilde & Associates	November 1973	A Framework for the Promotion of Construction Industries in the Developing Countries
169	670-46	Zymelman	December 1973	Cost Effectiveness of Alternative Learning Technologies in Industrial Training - A Study In-Plant Training & Vocational Schools
172	670-26	Harral	February 1974	Substitution of Labor & Equipment in Civil Construction Vols. I-III
173	670-91	Simmons, John	March 1974	The Determinants of Earnings: Towards an Improved Model
175	670-26	Basta/Churchill	April 1974	Iron Deficiency Anemia & The Productivity of Adult Males in Indonesia
176	670-95	Winston	April 1974	The Theory of Capital Utilization & Idleness
179	670-98	Grimes	May 1974	Urban Land & Public Policy: Social Appropriation of Betterment
180	670-16	Norton	May 1974	A Quantitative Agricultural Planning Methodology

<u>Working Paper No.</u>	<u>Research Paper No.</u>	<u>Author</u>	<u>Date</u>	<u>Title</u>
182	670-44	Jallade	June 1974	Student Loans in Developing Countries: An Evaluation of the Colombian Performance
184	670-16	Norton/ Bassoco/Silos	August 1974	Appraisal of Irrigation Projects & Related Policies & Investment
186	670-24	Balassa/ Stoutjesdijk	September 1974	Economic Integration: Among Developing Countries
189	671-05	Prakash	September 1974	Statistical Indicators of Industrial Development: A Critique of the Basic Data
190	670-09	Jain	November 1974	Size Distribution of Income: Compilation of Data
191	670-77	Kochav et al	November 1974	Financing the Development of Small Scale Industries
194	670-08 (2nd generation)	van der Tak/ Squire	February 1975	Economic Analysis of Projects
195	670-18	Emp. & Rural Dev. Div.	January 1975	African Experiences with Rural Development: A Digest Report on the Africa Rural Development Study
197	670-45	Mazumdar	February 1975	The Rural-Urban Wage Gap, Migration & the Shadow Wage
198	670-45	Mazumdar	February 1975	The Theory of Urban Under-employment in Less Developed Countries

<u>Working Paper No.</u>	<u>Research Project No.</u>	<u>Author</u>	<u>Date</u>	<u>Title</u>
200	670-91	Simmons	March 1975	How Effective is Schooling in Promoting Learning? A Review of the Research.
204	670-05	Syrquin	May 1975	The Effect of Sample Composition on the Estimation of Development Pattern
207	670-96	Heller	June 1975	Issues in the Costing of Public Sector Outputs: the Public Medical Service of Malaysia
210	670-12	McInerney	February 1975	The Consequences of Farm Tractors in Pakistan
211	670-45	Mazumdar	July 1975	The Urban Informal Sector
216	670-44	Hultin/ Jallade	May 1975	Costing and Financing Education in LDC's: Current Issues
217	670-09	Kipnis	September 1975	Size Distribution of Income Bibliography of Basic Sources
219	671-24	Reutlinger	November 1975	Simulation of Worldwide Buffer Stocks of Wheat
223	670-26	Bose	November 1975	Some Aspects of Unskilled Labor Markets for Civil Construction in India: Observations Based on Field Investigation
224	670-75	Burki/Davies/ Hook/Thomas	February 1976	Public Works Programs in Developing Countries: A Comparative Analysis
225	671-05	Prakash	February 1976	Measuring Industrial Export A Comparative Statistical Study of Variations Arising from Differences of Definition
231	670-87	Balassa	March 1976	The "Effects Methods" of Projects Evaluation

<u>Working Paper No.</u>	<u>Research Project No.</u>	<u>Author</u>	<u>Date</u>	<u>Title</u>
235	670-70 671-18	J. F. Linn	3/76	The Distributive Effects of Local Govt. Finances in Colombia: A Review of the Evidence
237	670-90	A. M. Sant'Anna T. W. Merrick D. Mazumdar	6/76	Income Distribution and the Economy of the Urban Household: The Case of Belo Horizonte
242	670-95	H. Hughes R. Bautista/DLim DMorawetz/FThoumi	9/76	Capital Utilization in Manufacturing in Developing Countries
244	671-24	S. Reutlinger D. Eaton, D. Bigman	9/76	Should Developing Nations Carry Grain Reserves?
246	671-52	M. Zymelman	11/76	Patterns of Educational Expenditure
248	671-35	B. Balassa	1/77	Export Incentives & Export Performance in Developing Countries: A Comparative Analysis
249	671-51	L. Westphal	2/77	Korea's Experience with Export-Led Industrial Development
254	670-98	W. Doebele (cons.) O. Grimes	3/77	Valorization Charges as a Method for Financing Urban Public Works; The Example of Bogota, Colombia
259	670-37	J. Saunders J. Warford P. Mann (cons.)	5/77	Alternative Concepts of Marginal Cost for Public Utility Pricing: Problems of Application in the Water Supply Sector
260	670-96	J. Meerman	4/77	Meeting Basic Needs in Malaysia: A Summary of Findings
264	671-18	J. F. Linn	8/77	The Incidence of Urban Property Taxation in Developing Countries; A Theoretical and Empirical Analysis Applied to Colombia

<u>Working Paper No.</u>	<u>Research Project No.</u>	<u>Author</u>	<u>Date</u>	<u>Title</u>
266	671-54	P. Spain D. Jamison E. McAnany	5/77	Radio for Education and Development: Case Studies (Vols. I & II)
268	670-44	J. Jallade	6/77	Basic Education and Income Inequality in Brazil: The Long-Term View
269	670-24	A. Choksi A. Meeraus A. Stoutjesdijk	7/77	A Planning Study of the Fertilizer Sector in Egypt
270	671-37	B. Renaud	11/77	Economic Fluctuations and Speed of Urbanization: A Case Study of Korea 1955-1975
271	671-15	L. Latham M. Latham S. Basta	9/77	The Nutritional and Economic Implica- tions of Ascaris Infection in Kenya

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Annex 8

State-of-the Art Papers Arising from  
RPO and Non-RPO Research  
(1970-1978)

I. Development Policy and Planning

1. Acharya, S., "Fiscal/Financial Intervention, Factor Prices and Factor Proportions: A Review of Issues" Bank Staff Working Paper No. 183, August 1974.
2. Agarwala, R., "A Survey of the World Bank's Macro Models" January 1972, mimeo. (Comparative Analysis and Projections Division, Economic Analysis and Projections Department).
3. Ahluwalia, M. S., J. H. Duloy and F. G. Pyatt, "Income Distribution: The Available Evidence" February 1975, mimeo (Background for President's speech to Board of Governors), DRC.
4. Ahluwalia, M. S. and J. Cauas, "Policy Instruments and Planning Models for Income Distribution" December 1973, mimeo. DRC Discussion Paper No. 5.
5. Altimir, O., "A Data File on Income Distribution Based on Household Surveys in Latin American Countries" January 1974, mimeo, DRC (RPO No. 670-83)
6. Artus, K., "Cross Country Data on Government Expenditure Classified by Functions," December 1973, mimeo. Studies in Domestic Finance No. 3 (Public and Private Finance Division, Development Economics Department).
7. Bhatia, K. B., "Index - Linking of Financial Contracts: A Survey of the State of the Arts," Bank Staff Working Paper No. 192, November 1974.
8. Blitzer, C. R., "On the Social Rate of Discount and Price of Capital in Cost-Benefit Analysis". Bank Staff Working Paper No. 144, February 1973, (RPO No. 670-08).
9. Blitzer, C. R., P. B. Clark and L. Taylor (eds.) Economy-Wide Models and Development Planning, London: Oxford University Press, 1975. (RPO No. 670-10).
10. Carter, N., "Population, Environment and Natural Resources: A Critical Review of Recent Models" Bank Staff Working Paper No. 174, April 1974.
11. Condos, A., "Macroeconomic Projections: A Survey of Some Issues & Models," January 1970, mimeo, DRC.
12. Gandhi, V., "Wagner's Law of Public Expenditures: Do Recent Cross-Section Studies Confirm it?" Bank Staff Working Paper No. 69, March 1970.

13. Hansen, J.R., "A Summary of Principal Methods of Project Evaluation," December 1972, mimeo. (Economics of Industry Division, Development Economics Department).
14. Hazell, P. and Kennes, W., "A Review of Tree Crop Models," September 1977, mimeo. DRC
15. Kipnis, J., "Size Distribution of Income: A Bibliography of Basic Sources," March 1975, mimeo. DRC. (RPO No. 670-09).
16. Lal, D., Methods of Project Analysis: A Review, Baltimore & London: Johns Hopkins University Press, 1974.
17. Marris, R., "The Competitive Efficiency of Public Enterprises: A Survey of the Literature," February 1978, mimeo. DRC
18. Meerman, J., "The Definition of Income in Studies of Budget Incidence and Income Distribution," in Review of Income and Wealth, series 20, no. 4, December 1974.
19. Norton, R. D., Bassoco, L.M. and Silos, J. S., "Appraisal of Irrigation Projects and Related Policies and Investments," in Water Resources Research, Vol. 10, No. 6, December 1974.
20. Norton, R. D. and Celasun, M., "Prototype Country Models: A Preliminary Overview," Working Note No. 1, April 1975.
21. Prakash, V., "Statistical Indicators of Industrial Development: A Critique of the Basic Data" Bank Staff Working Paper No. 189, September 1974 (RPO No. 671-05).
22. Saito, K., "The Determinants of Savings Behaviour: A Survey of the Evidence," March 1977, mimeo. (Public Finance Division, Development Economics Department).
23. Seagraves, J.A., "Agricultural Production & Supply Response Research: A Review for Project Planners in Developing Countries". Bank Staff Working Paper No. 57, January 1970.

### III. Agriculture & Rural Development

1. Espades, O.T., "Selected Bibliography on Agricultural Project Evaluation," August 1972, mimeo. EDI (Prepared for seminar).
2. Vasiliades, K. C. and C. Shannon, "Bibliography for Programming for Agriculture" 1973, mimeo. EDI. (Prepared for seminar).
3. Velji, S., "Bibliography for African Rural Development Study," January 1974, mimeo. (Employment and Rural Development Division, Development Economics Department) (RPO No. 670-18).

IV. Industry

1. Mitra, J., "Micro-Studies on Choice of Technique" (in progress, Economics of Industry Division, Development Economics Department).
2. Winston, G., "The Theory of Capital Utilization and Idleness" Bank Staff Working Paper No. 176, April 1974.
3. Mahoney, R., "Bibliography of Public Enterprise Economics" June 1974, mimeo. (Economics of Industry Division, Development Economics Department).

V. Transportation

1. Yucel, N., "A Survey of the Theories and Empirical Investigations of the Value of Travel Time Savings" Bank Staff Working Paper No. 199, February 1975.

VII. Urbanization and Regional Development

1. Bird, R., "Intergovernmental Fiscal Relations," January 1978, mimeo. (Urban and Regional Economics Division, Development Economics Department).
2. Brigg, P. H., "Some Economic Interpretations of Case Studies of Urban Migration in Developing Countries" Bank Staff Working Paper No. 151, March 1973.
3. Cohen, M., Renaud, B., Beier, G. and Churchill, A., "The Task Ahead for the Cities of the Developing Countries" Bank Staff Working Paper No. 209, July 1975.
4. Doebele, W., "Selected Issues in Urban Land Tenure," Urban Land Issues background paper, February 1977.
5. Grimes, O., "Housing for Low-Income Urban Families," January 1976, forthcoming.
6. Linn, J., "The Incidence of Urban Property Taxation in LDCs: A Theoretical and Empirical Analysis Applied to Colombia" Bank Staff Working Paper No. 264, August 1977.
7. Mazumdar, D., "The Urban Informal Sector World Development," August 1976, mimeo. (Employment and Rural Development Division, Development Economics Department).
8. Mera, K., "A Framework for Urban Transport Studies" Bank Staff Working Paper No. 73, March 1970.
9. Mohan, R., "Toward Modelling Poor Cities: A Review of Urban Economic and Planning Models". Bank Staff Working Paper No. 232, April 1976.

10. Rawski, T., "Industrialization, Technology and Employment in the People's Republic of China," 1977, mimeo (Employment and Rural Development Division, Development Economics Department).
11. Richardson, H., "City Size and National Spatial Strategies in Developing Countries" World Bank Staff Working Paper No. 252, April 1977.
12. Sabot, R. and Berry, A., "Labor Market Performance in Developing Countries: A Survey," 1977, forthcoming.
13. Shoup, D., "Land Taxation and Government Participation in Urban Land Markets: Policy Alternatives in LDCs," December 1977, forthcoming.
14. Townroe, P., "Alternative Policy Instruments for Employment Decentralization from Large Metropolitan Areas in Less Developed Countries," September 1977, forthcoming.

#### VIII. Population and Human Resources

1. Birdsall, N. and Faruqee, R., "Population-Development Relationships: Approaches to Analysis," April 1977, mimeo. (Population and Human Resources Division, Development Economics Department).
2. Cochrane, S., "Education and Fertility: What do we know," June 1977, mimeo. (Population and Human Resources Division, Development Economics Department).
3. Faruqee, R., "Sources of Fertility Decline: A Selective Review of Studies and Further Inter-Country Analysis," February 1978, mimeo. (Population and Human Resources Division, Development Economics Department).
4. Kohlhagen, S. W., "Quantitative Analysis of Employment in Developing Countries: An Annotated List of Selected Books and Articles" Bank Staff Working Paper No. 85, August 1970.
5. Morawetz, D., "Employment Implications of Industrialization in Developing Countries" Bank Staff Working Paper No. 170, January 1974.
6. Shields, N., "Female Labor Force Participation and Fertility: Review of Empirical Evidence from L.D.C.," February 1977, mimeo. (Population and Human Resources Division, Development Economics Department).



7. Simmons, J. "How Effective is Schooling in Promoting Learning? A Review of the Research" Bank Staff Working Paper No. 200, March 1975.
8. Turnham, D. J., and E. K. Hawkins, "The Employment Problem and World Bank Activities" Bank Staff Working Paper No. 148, March 1973.
9. Velji, S. "Bibliography on Labor, Employment and Related Topics, 1970-75, "November 1975, mimeo. (Employment and Rural Development Division, Development Economics Department).
10. Yap, Y. L. "Internal Migration in LDCs: A Survey of the Literature" Bank Staff Working Paper No. 215, September 1975.

IX. Other

1. Simmons, J., "Economic Research on the Middle East & North Africa: A Review of the State of the Art," August 1975, mimeo. (Population and Human Resources Division, Development Economics Department).

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## Annex 9

### Characteristics of Research Included and not Included in External Research Program

1. The three main types of research not usually considered by the Research Committee involve studies that:

- a. are of a technical or scientific nature, e.g., soils studies or feasibility studies, typically funded from Bank loans or IDA credits;
- b. answer a country-specific or project-specific operational question even though they may involve the application of research methodologies previously developed (examples include architectural guidelines for education projects and computer materials for analyzing road and rail project alternatives);
- c. involve core support to individuals and institutions outside the Bank on a "program grant" basis.

Such research is funded through discretionary budgets of Departments, as an adjunct to loans or credits, or from outside sources.

2. In contrast, research that is eligible for consideration by the Research Committee:

- a. addresses socio-economic problems of development by formulating and testing hypotheses, using a variety of analytical techniques, in topics of sector-wide importance (small farm production, income distribution, water supply);
- b. typically has a relatively long gestation period, permitting more comprehensive treatment;
- c. is applicable to more than one country and therefore best funded from a general reserve;
- d. uses "external" resources (consultants, travel, computing) requiring contracts with individuals or institutions outside the Bank;
- e. is larger than some minimum size, currently about \$10-15,000 for "external" expenditures.



ANNEX 10

SELECTED REPORTS FROM DPS  
DEPARTMENTAL STUDIES, 1975-1976

I. Development Policy and Planning

- Ahluwalia, Montek, "Income Distribution and Development: Some Stylized Facts," American Economic Review, Papers and Proceedings, May 1976.
- . Ahluwalia, Montek, "Inequality, Poverty and Development," Journal of Development Economics, December 1976.
- Balassa, Bela, "Accounting for Economic Growth: The Case of Norway," DRC Discussion Paper No. 18, August 1976.
- Balassa, Bela, and Ardy Stoutjesdijk, "Economic Integration Among Developing Countries," Journal of Common Market Studies, Sept. 1975. Spanish translation in El Trimestre Economico, Mexico, Julio-Septiembre, Vol. XLII (3), Num. 167, 1975.
- Balassa, Bela, "The Income Distributional Parameter in Project Appraisal." DRC Discussion Paper No. 14, March 1976.
- Balassa, Bela, "Types of Economic Integration," in Economic Integration: Regional and Sectoral (Fritz Machlup, ed.) Proceedings of the 4th Congress of the International Economic Association, Budapest, August 1974. London: Macmillan, forthcoming.
- Bisschop, Johannes, and Alexander Meeraus, "Efficient Updating of the Basis Inverse," presented at the IX. International Symposium on Mathematical Programming in Budapest, August 22-27, 1976.
- Byron, R.P., "A Reinterpretation of Two and Three Stage Least Squares," International Economic Review, October 1976.
- Byron, R.P., "Efficient Estimation and Inference for Large Econometric Systems," Econometrica, July 1977.
- Candler, Wilfred and Roger Norton, "Linear Transformations in Mathematical Programming," DRC Discussion Paper No. 21, January 1977.
- Candler, Wilfred and Roger Norton, "Multi-Level Programming," DRC Discussion Paper No. 20, January 1977.

Cauas, Jorge and Marcelo Selowsky, "Potential Distributive Effects of Nationalization Policies, The Economic Aspects," in Income Distribution: Policy Alternatives in Developing Countries, edited by Charles Frank and Richard Webb, Brookings Institution, forthcoming.

Duloy, J.H., and R. D. Norton, "Prices and Incomes in Linear Programming Models," American Journal of Agricultural Economics, November 1975.

Guisinger, Stephen, and D. Papageorgiou, "Selection of Appropriate Border Prices in Project Evaluation," Oxford Bulletin of Economics and Statistics 38 (May 1976), pp. 79-98.

Kakwani, N.C., "An Alternative Econometric Approach to the Permanent Income Hypothesis, A Comment," The Review of Economics and Statistics.

Kakwani, N.C., "Applications of Lorenz Curves in Economic Analysis". DRC Discussion Paper No. 12, August 1975.

Kakwani, N.C., "A Note on the Efficiency of the New Measures of Income Inequality," Econometrica, Vol. 42, May 1974.

Kakwani, N.C., and N. Podder, "Efficient Estimation of the Lorenz Curve and Associated Inequality Measures from Grouped Observations," Econometrica, January 1976.

Kakwani, N.C., "Measurement of Poverty and Negative-Income Tax". DRC Discussion Paper No. 13, August 1975.

Kakwani, N.C., "On the Estimation of Income Inequality Measures from Grouped Observations," Review of Economic Studies, forthcoming.

Linn, J. and Squire, L. "Improving the Theory of Project Analysis", Finance and Development, March 1977.

Podder, N. and N.C. Kakwani, "Distribution of Wealth in Australia," The Review of Income and Wealth, March 1976.

- Pyatt, Graham, "Economic Strategies for Growth with Equity," a review of REDISTRIBUTION WITH GROWTH by Chenery et al., in Economic Development and Cultural Change, forthcoming.
- Pyatt, Graham, "On International Comparisons of Inequality," presented at the American Economic Association Meeting, Atlantic City, September 16-18, 1976.
- Pyatt, Graham, "On the Interpretation and Disaggregation of Gini Coefficients," Economic Journal, June 1976.
- Scandizzo, Pasquale, "Mathematical Programming Models of Market Equilibrium With Risk: Equivalent Quantity and Price Formulations and Purified Duality," presented at the European Meetings of the Econometric Society, August 22-27, 1976.
- Scandizzo, Pasquale, "Optimum Stabilization Policies Under Pervasive Uncertainty," presented at the UNCTAD seminar on Price Stabilization Policies.
- Singh, S.K., and G.S. Maddala, "A Function for Size-Distribution of Incomes," Econometrica, September 1976.
- Singh, S.K., and G.S. Maddala, "A Stochastic Process for Income Distribution and Tests of Income Distribution Functions," 1975 Proceedings of the Business and Economic Statistics Section, American Statistical Association.
- Singh, S.K., "Characterization by Decay-Rule," 1975 Proceedings of the Business and Economic Statistics Section, American Statistical Association.
- Squire, L. and van der Tak, H.G. Economic Analysis of Projects. Baltimore and London: Johns Hopkins University Press, 1975.
- Squire, L. and Barnum, H.N. "Technology and Relative Economic Efficiency", Studies in Employment and Rural Development No. 34, December 1976.
- Webb, R. "Dualism and Inequality in Less Developed Countries", In K. Farmanfarmanian, Ed. The Social Sciences and Problems of Development. Princeton: Princeton University Press, 1976.
- Zusman, P., "The Incorporation and Measurement of Social Power in Economic Models," International Economic Review, forthcoming.



## II. Finance and Trade

Balassa, Bela, "On Some Effects of Commercial Policy on International Trade, the Location of Production, and Factor Movements," Nobel Symposium on the International Allocation of Economic Activity (forthcoming). Bank Staff Working Paper No. 236, June 1976.

Blitzer, C., A. Meeraus and A. Stoutjesdijk, "A Dynamic Model of OPEC Trade and Production," Journal of Development Economics, December 1975.

Sharpston, Michael, "Export Incentives: Some Practical Issues for Policies in Developing Countries" (mimeo, July 1975).

Sharpston, Michael, "Export Processing Zones" (mimeo, June 1976).

Sharpston, Michael, "International Subcontracting," World Development 4 (1976), pp. 333-337.

### Studies in Domestic Finance:

W. S. Kee, "Fiscal Decentralization and Economic Development," No. 10, November 1975.

V. V. Bhatt, "Guidelines for Incomes Policy in Developing Countries," No. 11, January 1976.

V. V. Bhatt, "Centre-States Financial Relations in the Context of Planned Development," No. 12, January 1976.

W. S. Kee, "Review of Tax Incentives in Selected Asian Countries," No. 13, January 1976.

V. V. Bhatt, "Development Banking: Structure and Functions," No. 14, January 1976.

V. V. Bhatt, "Economic Development: An Analytic-Historical Approach," No. 15, February 1976.

V. V. Bhatt, "On Development Problem and Strategy," No. 22, June 1976.

V. V. Bhatt and J. Meerman, "Resource Mobilization in Developing Countries: Financial Institutions and Policies," No. 23, September 1976.

S. Bery, "The OPEC Countries and the 'Absorption' of Oil Revenues: An Essay," No. 24, October 1976.

S. Bery, "Public Sector Enterprises in India: A Descriptive Survey," No. 25, October 1976.

Y. C. Park, "The Unorganized Financial Sector in Korea, 1945-75," No. 28, November 1976.

P. Shome, "Contractual Savings and the Mobilization of Resources," No. 29, November 1976.

J. N. Sharma, "Tax Evasion and Avoidance: A Crucial but Neglected Aspect of Taxation," No. 30, December 1976.

P. Shome, "The Incidence of the Corporation Income Tax: A Fixed Endowment, Specific Factor Model," No. 32, January 1977.

### III. Agriculture and Rural Development

Anderson, D. "Issues in the Monitoring and Evaluation of Rural Development Projects: A Progress Report", Studies in Employment and Rural Development, No. 30, March 1976.

Anderson, D. assisted by P. Videt-Yontrakich. "Non-Farm Employment and Earnings Opportunities in Rural Areas and Towns", (mimeo, August 12, 1976).

Barnum, H.N. and Squire, L. "An Economic Test of the Theory of the Farm Household" (mimeo, October 1976).

Barnum, H.N. and Squire, L. "Predicting Agricultural Output Response" (mimeo, October 1976).

Bell, C.L.G., and Pinhas Zusman, "A Bargaining Theoretic Approach to Cropsharing Contracts," American Economic Review, September 1976.

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ANNEX 10

Output from Departmental

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2. "Irrigation Water Charges, Benefit Taxes and Cost Recovery Policies", CPM 8.4, 1976.
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## OFFICE MEMORANDUM

TO: Mr. Anandarup Ray

DATE: February 10, 1977

FROM: Mats Hultin *Mats Hultin*SUBJECT: Studies Financed by the Education Department in 1975/1976

This is in response to your February 10, 1977 on the above named subject.

The list of studies, staff responsible, and completion or expected date of completion dates are given below. Please note that studies which began in the period concerned and which are expected to be completed in 1977 are included.

<u>Study</u>	<u>Staff</u>	<u>Completion Date</u>
1. Costing and Financing of Education in LDC's: Current Issues - World Bank Staff Working Paper No. 216	Hultin/ Jallade	May 1975
2. Patterns of Educational Expenditures - World Bank Staff Working Paper No. 246	Zymelman	Nov. 1976
3. Education and Training Programs and Projects for the Urban Poor	Phillips (Consultant)	July 1976
4. Operational Guidelines for School Mapping in Education Project Lending Work	Maas/Gould	Sept. 19, 1976
5. Priority in Education - Jointly with DPS	Smilansky (Consultant)	(mimeo, 1976)
6. Mass Media (Radio) for Rural and Adult Education	Futagami Jamison (Consultants)	All case studies completed 1976 Final report May 1977
7. Socio-Linguistic Studies in Selected Countries	Gilpin Consultants	All studies completed by Dec. 1976
8. Higher Education: Implication for Bank lending	Wodajo	January 1977
9. Unit Area and Unit Cost Estimates in Education Projects	Lewis Consultant	Feb. 1976
10. A Study of Basic Education in W. Africa and Sudan	U.I.E.	March 1977

Mr. Anandarup Ray

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February 10, 1977

<u>Study</u>	<u>Staff</u>	<u>Completion Date</u>
11. Use of Tracer Studies	Maas	April 1977

Table A: Selected Reports from  
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3. Manual on monitoring urban sites and services.

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## ANNEX 11

TOTAL RESOURCES DEVOTED TO PROJECTS EVALUATED DURING 1977

<u>Project Code</u>	<u>Project Title</u>	<u>Expen- diture (\$'000)</u>	<u>Profes- sional</u>	<u>Assist- ant</u>	<u>Total</u>
670-08	Project Appraisal & Shadow Prices	73.6	-	-	-
670-14	Agriculture Mechanization Study in India	90.1	10	8	18
670-44	Education, Finance and Income Distribution	33.1	22	8	30
670-69	Growth & Income Distribution in Brazil	114.7	3	6	9
670-90	Labor Market in a Rapidly Growing Economy	31.4	10	4	14
670-99	Economic Aspects of Household Fertility Behavior & Labor Supply in Northeast Brazil	42.7	26	18	44
671-11	Public Utility Pricing & Investment	23.2	2	1	3
671-16	Standards for Site & Services Projects	58.6	6	1	7

March 1, 1978

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## ANNEX 12

TOTAL RESOURCES DEVOTED TO MAJOR NON-RPO STUDIES, BY DEPARTMENT, FY 77

<u>DPS</u>	<u>Expenditure</u> <u>(\$'000)</u>	<u>Staff-Months</u>			<u>Total</u>
		<u>Profes-</u> <u>sional</u>	<u>Assis-</u> <u>tant</u>		
<u>Development Research Center</u>					
GAMS	3.0	1.4	-		1.4
Labor Markets	5.5	-	-		-
Rural Poverty in India	-	1.6	-		1.6
	Subtotal	<u>8.5</u>	<u>3.0</u>	-	<u>3.0</u>
<u>Economic Analysis and Projections</u>	-	-	-		-
<u>Development Economics</u>					
<u>Industry</u>					
LDC Exports of Manufactured Goods	3.9	8.3	1.3		9.6
Analysis of Small Scale Enterprises	1.1	1.1	1.9		3.0
	<u>5.0</u>	<u>9.4</u>	<u>3.2</u>		<u>12.6</u>
<u>Urban</u>					
Korea Migration	-	<u>1.2</u>	<u>2.3</u>		<u>3.5</u>
<u>Population and Human Resources</u>					
Case Studies of Family Planning Services	-	-	2.5		2.5
Policy Priorities for Preschool Child Development and Review of Education	1.5	3.2	-		3.2
Population and Savings	-	2.6	-		2.6
Labor Force Participation and Fertility	-	5.2	6.2		11.4
Fertility Behavior in Rural Botswana	-	1.6	-		1.6
Education and Fertility	-	3.2	1.0		4.2
Experimentation in Family Planning	2.8	-	1.5		1.5
Education and Agricultural Development	-	3.3	-		3.3
Women in Urban Labor Markets	0.3	1.9	3.0		4.9
	<u>4.6</u>	<u>21.0</u>	<u>14.2</u>		<u>35.2</u>

	Expenditure (\$'000)	Staff-Months		
		Profes- sional	Assis- tant	Total
<u>Employment and Rural Development</u>				
Wage Structure and Wage Determination in Tanzania	<u>1.7</u>	<u>1.9</u>	<u>2.2</u>	<u>4.1</u>
<u>Public Finance</u>				
Promotion of New, Small and Medium Entrepreneurs - Gujerat Experiment	3.0	-	-	-
Tax Evasion and Avoidance: A Crucial but Neglected Aspect of Taxation	-	-	4.1	4.1
Social Security and Resource Mobilization	6.1	1.6	2.8	4.4
Rural Savings, Investment and Flow-of-Funds Analysis	5.0	-	1.1	1.1
An Estimation of the Household Sector Savings of Sri Lanka	-	-	2.2	2.2
The Determinants of Savings Behavior - A Survey of the Evidence	-	-	2.3	2.3
The Incidence of the Corporation Income Tax: A Fixed Endowment, Specific Factor Model	3.0	-	-	-
On Monetary Data & Analysis in Institutions & Policies	-	1.1	-	1.1
Enterprise Control in the Soviet Union and China: The Futility of Lessons	-	2.3	-	2.3
	<u>17.1</u>	<u>5.0</u>	<u>12.5</u>	<u>17.5</u>
Subtotal	<u>28.4</u>	<u>38.5</u>	<u>34.4</u>	<u>72.9</u>
Total DPS	<u>36.9</u>	<u>41.5</u>	<u>34.4</u>	<u>75.9</u>



<u>CPS</u>	<u>Expenditure</u> <u>(\$'000)</u>	<u>Staff-Months</u>		
		<u>Profes-</u> <u>sional</u>	<u>Assis-</u> <u>tant</u>	<u>Total</u>
<u>Agriculture and Rural Development</u>				
World Food Policies	-	1.3	-	1.3
ERTS - World	53.0	5.2	-	5.2
Small Scale Fisheries Development	13.7	1.7	-	1.7
ACC Rural Development Study	-	1.0	-	1.0
Subtotal	<u>66.7</u>	<u>9.2</u>	-	<u>9.2</u>
<u>Transportation</u>				
Socio-Economic Impact - Brazil	8.0	4.7	-	4.7
Highways Cost Breakdown	-	1.0	-	1.0
Subtotal	<u>8.0</u>	<u>5.7</u>	-	<u>5.7</u>
<u>Urban Projects</u>				
Urban Evaluation Site and Services: Senegal	37.7	-	3.0	3.0
Urban Evaluation Site and Services: El Salvador	34.4	-	4.5	4.5
Urban Evaluation Site and Services: Zambia	25.8	-	3.0	3.0
Urban Evaluation Site and Services: Philippines	-	2.2	-	2.2
Subtotal	<u>97.9</u>	<u>2.2</u>	<u>10.5</u>	<u>12.7</u>
<u>Energy, Water and Telecommunications</u>				
Economic Research	11.0	1.0	-	1.0
Energy and Rural Development	7.2	4.0	-	4.0
Urban Water Supply Studies	25.5	-	-	-
Manually Operated Handpumps	6.9	-	-	-
Water Supply to Urban Poor	-	1.0	-	1.0
Rural Water Supply	21.4	-	-	-
Waste Water Reuse	7.4	-	-	-
Waste Water Reuse Study	22.4	-	-	-
Domestic Water Meters	4.8	-	-	-
Reduction of Unaccounted Water	14.7	-	-	-
Pipeline: State of the Art	10.0	-	-	-
Subtotal	<u>131.3</u>	<u>6.0</u>	-	<u>6.0</u>

<u>Education</u>	<u>Staff-Months</u>			<u>Total</u>
	<u>Expenditure</u> <u>(\$'000)</u>	<u>Profes-</u> <u>sional</u>	<u>Assis-</u> <u>tant</u>	
Relationship between Teacher Training and Student Performance	35.0	35	50	85
Automatic Promotion	2.5	-	10	10
Educational Effects of Practical Activities in Science Education	7.5	15	20	35
Subtotal	<u>45.0</u>	<u>50</u>	<u>80</u>	<u>130.0</u>
<u>Industrial Projects</u>				
Fertilizer Research	42.6	6.5	-	6.5
Employment and Income Imports of Industrial Projects	6.3	-	-	-
Public Sector Enterprise in Selected Countries	-	2.8	-	2.8
World Phosphate Survey	6.1	10.8	-	10.8
Subtotal	<u>55.0</u>	<u>20.1</u>	<u>-</u>	<u>20.1</u>
<u>Tourism</u>				
Tour Incentive Study	-	1.0	-	1.0
Social Impact Study	45.8	7.2	-	7.2
Integration of Women in Development	17.4	6.9	-	6.9
Comparative Analysis of Economics and Society	4.3	-	-	-
Flows	3.2	-	3.8	3.8
Subtotal	<u>70.7</u>	<u>15.1</u>	<u>3.8</u>	<u>18.9</u>
TOTAL CPS	<u>474.6</u>	<u>108.3</u>	<u>94.3</u>	<u>202.6</u>

Source:

Table includes studies with at least 1 staff-month and/or an expenditure of \$1,000.

February 15, 1978



# OFFICE MEMORANDUM

ANNEX 13

TO: Mr. Hollis B. Chenery  
FROM: Orville F. Grimes, Jr. *OFG*  
SUBJECT: Research Project "Grades"

DATE: December 10, 1976

1. I attach herewith a set of tables and related information on the performance of research projects completed or nearing completion.

2. You earlier received a breakdown by RPO expenditure of 127 projects in the research program (copy attached). In the present tables these projects have been classified as ongoing or completed. Of the 75 ongoing, 21 are "middle ground" projects, for most of which report writing is well advanced. Rating these projects is particularly hazardous. I can do no more than make judgment calls about them, based on what is known. You will note that for seven of these, insufficient information was available even to make a guess.

3. More information exists for completed projects. Evaluation reports were, of course, the prime source for judgments about the 32 projects that so far have been subject to an organized evaluation. An additional eight projects have recently been completed and are scheduled for evaluation next year. Completion Reports were in the main relied upon in these cases, as they also were for the two projects whose results were absorbed in other ongoing research. Finally, when drawing up last year's list of evaluation candidates, we felt that for a number of projects, a formal evaluation would only confirm the obvious. These (with a few loners such as the country concentration exercise) make up the 10 "Not Evaluated" cases.

Attachments

cc: Mr. B. B. King



TABLE 1

## PROJECT "GRADES" BY CATEGORY AND COST

	No. of Projects	A				B				C				D			
		No. of Projects	\$'000	Years		No. of Projects	\$'000	Years		No. of Projects	\$'000	Years		No. of Projects	\$'000	Years	
				Prof.	Total			Prof.	Total			Prof.	Total			Prof.	Total
1. <u>Ongoing</u>	75																
1a. With FY77 Funding	54	(not graded)															
1b. Without FY77 Funding	21 <u>a/</u>	1	33.1	1.8	3.0	9	541.5	4.7	7.9	4	367.0	3.0	3.5	-	-	-	-
2. <u>Completed</u>	50	11	989.8	18.1	30.6	19	681.1	15.5	26.0	15	647.9	9.2	14.9	5	180.3	3.5	3.8
2a. Evaluated	32	10	966.6	17.9	29.3	14	510.8	14.1	23.5	5	288.8	2.5	4.5	3	76.5	1.0	1.3
2b. Evaluation Forthcoming	8	1	23.2	0.2	0.3	2	146.1	1.0	1.9	5	294.0	5.7	8.6				
2c. Not Evaluated	10	-	-	-	-	3	24.2	0.4	0.6	5	65.1	1.0	1.8	2	103.8	2.5	2.5
3. <u>Absorbed</u>	2	-	-	-	-	2	85.9	0.2	0.2	-	-	-	-	-	-	-	-
<u>Projects in Research Program</u>	127	12	1,022.9	19.9	32.6	30	1,308.5	20.4	34.1	19	1,014.9	12.2	18.4	5	180.3	3.5	3.8
4. <u>Discontinued</u>	18													18	25.1	4.8	6.9
4a. Commodity Studies, to EPD	5													5	9.1	1.5	2.0
4b. Other Discontinued Projects	13													13	16.0	3.3	4.9
(Total)	145																

Years = months/12

a/ Adequate information not currently available for 7 projects (see accompanying table).

Grades

- A successful or highly successful  
 B useful  
 C some positive elements but overall value doubtful  
 D failure or non-starter

TABLE 1 SUMMARIES

A. Distribution of Financial and Staff Resources of Projects Graded

	<u>Projects Graded</u>		<u>RPO Expenditure</u>		<u>Staff-years</u>	
	<u>No.</u>	<u>%</u>	<u>\$'000</u>	<u>%</u>	<u>Total</u>	<u>%</u>
A	12	14	1,022.9	29	32.6	43
B	30	36	1,308.5	37	20.4	27
C	19	23	1,014.9	28	12.2	16
D	<u>23</u>	<u>27</u>	<u>205.4</u>	<u>6</u>	<u>10.7</u>	<u>14</u>
	84	100.0	3,551.7	100.0	75.9	100.0

B. "Average" Project in Each Grade

	<u>Size (\$'000)</u>	<u>Staff-Years</u>	
		<u>Prof.</u>	<u>Total</u>
A	85.2	1.7	2.7
B	43.6	0.7	1.1
C	53.4	0.6	1.0
D	8.9	0.4	0.5



1a. Ongoing, with FY77 Funding

01	108	138
06	109	139
23	110	141
24	114	142
26	115	143
27	117	144
43	118	145
45	120	146
67	123	
68	124	
73	125	
76	126	
78	127	
83	128	
86	129	
87	130	
89	131	
92	132	
96	133	
98	134	
102	135	
105	136	
106	137	

1b. Ongoing, without FY77 Funding

	<u>Grade</u>	<u>\$'000</u>	<u>Months</u>	
			<u>Prof.</u>	<u>Total</u>
07	<u>1/</u>	39.6	2	2
22	<u>1/</u>	4.2	13	14
25	B	50.0	1.5	1.5
29	<u>1/</u>	53.2	28	39
44	A	33.1	22	35
70	C	66.9	26	26
71	<u>1/</u>	20.9	20	30
79	C	53.0	n.a.	
80	B	55.8	12	20
84	C	209.5	2.5	2.5
85	B	193.0	2.5	2.5
93	B	22.3	1	4
94	B	63.9	22	38
95	B	58.2	13	24
103	<u>1/</u>	14.3	4.5	6.5
107	B	50.0	1	2
112	<u>1/</u>	27.9	1.5	2
113	B	28.3	2	2
119	C	37.6	7	14
122	<u>1/</u>	30.0	2	2
140	B	<u>20.0</u>	<u>1</u>	<u>1</u>
		1,131.7	184.5	267

1/ = insufficient information

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2a. Evaluated

	<u>Grade</u>	<u>\$'000</u>	<u>Staff-months</u>			<u>Grade</u>	<u>\$'000</u>	<u>Staff-months</u>	
			<u>Prof.</u>	<u>Total</u>				<u>Prof.</u>	<u>Asst.</u>
03	A	104.9	53	103	51	A	250.0	n.a.	
04	B	132.6	68	104	75	C	235.7	9	9
05	A	79.8	14	53	77	B	34.7	4	4.5
09	A	31.8	7	29	81	C	21.8	7	14
10	B	30.5	13	13	91	B	32.9	10	10
12	B	10.2	5	13	104	C	10.9	3	5
13	B	37.6	56	110	121	D	<u>47.9</u>	<u>6</u>	<u>8.5</u>
15	A	29.6	0.5	0.5			1,842.7	426.5	702.5
16	A	62.6	38	46					
18a/	A	158.4	50	62					
19	C	4.5	0.5	0.5					
20	B	18.2	3	4					
21	D	21.9	1.5	1.5					
30	B	10.0	-	12					
31	B	99.2	4	6					
32	B	1.1	n.a.						
33	B	8.7	2	2					
34	B	23.0	n.a.						
36	B	34.6	2	2					
37	A	21.0	3	3					
38	A	193.5	24	28					
39	A	35.0	25	27					
41a/	C	15.9	11	25					
46	B	37.5	2	2					
48	D	6.7	5	5					

a/ Evaluation not organized by Research Committee

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2b. Evaluation Forthcoming

	<u>Grade</u>	<u>\$'000</u>	<u>Staff-months</u>	
			<u>Prof.</u>	<u>Total</u>
02	C	29.2	18	22
08	C	73.6		n.a.
14	C	90.1	10	18
69	B	114.7	3	9
90	B	31.4	10	14
99	C	42.5	34	56
111	A	23.2	2	3
116	C	<u>58.6</u>	<u>6</u>	<u>7</u>
		463.3	83	129

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2c. Not Evaluated

	<u>Grade</u>	<u>\$'000</u>	<u>Staff-months</u>	
			<u>Prof.</u>	<u>Total</u>
11	B	17.2	5	7
28	C	5.6	0.5	0.5
40	C	14.4	9	11
42	C	22.0	n.a.	
49	D	14.0	n.a.	
50	C	10.0	n.a.	
54	D	89.8	30	30
82	B	4.5	0.5	0.5
97	C	13.1	2	10
101	B	<u>2.5</u>	<u>      </u>	<u>      </u>
		193.1	47	59

3. Absorbed

47 (into 45) B	10.9	2	2
74 (into 85) B	75.0	n.a.	

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4. Discontinued a/

4a. Commodity Studies, to EPD

	<u>\$'000</u>	<u>Staff-months</u>	
		<u>Prof.</u>	<u>Total</u>
55	3.0 <u>b/</u>	n.a.	
56	1.0 <u>b/</u>	7	10.5
57	0.3 <u>b/</u>	3	4
58	4.0 <u>b/</u>	4	5.5
59	0.8 <u>b/</u>	3.5	4.5
	9.1	17.5	24.5

4b. Other Discontinued Projects

	<u>Subject Category</u>	<u>\$'000</u>	<u>Staff-months</u>	
			<u>Prof.</u>	<u>Total</u>
17	III	0.4	12	12
35	V	7.5	0.5	0.5
52	VIII B	1.2	n.a.	
53	III	-	-	-
60	IC	2.0 <u>b/</u>	6	6
61	III	-	4	8
62	VIII C	-	1	2
63	VIII C	4.1 <u>b/</u>	7	19
64	VIII C	-	3.5	4.5
65	VIII B	-	-	-
66	VIII B	-	4	6
72	III	0.8	1	1
88	III	-	-	-
		16.0	39	59

a/ Rough estimates in many cases.

b/ Not disbursed against External Research Program.

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NOTES ON PROJECTS GRADED "C" OR "D"

1b. Ongoing, without FY77 Funding

<u>Project</u>	<u>Grade</u>	<u>Remarks</u>
70	C	Weak project design; heavy focus on collection of data judged relevant for urban public finance. Planned comparative study, if completed, should improve usefulness.
79	C	Projections incomplete, of uncertain reliability, and now out of date.
84	C	Inadequate success at steering this "outside" project in desired directions. Data and methodological problems not resolved in final report.
119	C	Case studies of educational reform, though interesting, are quite disparate in coverage and method; comparative review could again improve usefulness.

2a. Evaluated

<u>Project</u>	<u>Grade</u>	<u>Remarks</u>
19	C	Supervisor left Bank shortly after start of project.
21	D	Two unfinished papers, judged analytically weak, which were not discernibly useful to bank specialists on India. Anticipated second stage was accordingly not funded.
41	C	(a) Shortcomings in urban data collected; (b) Bank not organized to develop and maintain comprehensive urban data system, and generally unwilling to do so.
48	D	Consultant failed to perform up to his own professional reputation or to terms of reference.
75	C	Questions at origin of study about terms of reference and qualifications of consultants. Not given normal Research Committee review.
81	C	Weak statistical base combined with non-uniform methodology.
104	C	Consultant, hired to "do our thinking for us," produced survey of limited usefulness.
121	D	Inadequate supervision; unclear methodology; shifting objectives; consultant inadequately qualified for task.

2b. Evaluation Forthcoming

<u>Project</u>	<u>Grade</u>	<u>Remarks</u>
02	C	Project not accorded high priority in Bank; shifts in policy in Chile reduced its potential impact; one of the consultants did not meet expectations.
08	C	Inadequate interchange between Bank staff and consultants; output highly variable and rather diffuse.
14	C	Inadequate sample design and survey procedures; communication problems caused in part by lack of central direction of field study teams.
99	C	Problems of data collection and coordination of the research with Brazilian agencies.
116	C	Narrow range of design options considered; data reliability unknown.

2c. Not Evaluated

<u>Project</u>	<u>Grade</u>	<u>Remarks</u>
28	C	Sample size too small; transferability beyond Kenya doubtful; issues too complicated for small study--Hwy Design Study (27) more appropriate.
40	C	Inadequate attention to project by consultant; lack of Bank supervisory staff due to depletion of urban research division.
42	C	Analytical weaknesses; little attention to policy implications of analysis.
49 ("International Hotel Comparison")	D	Delays and low response rate to questionnaire sent to sample of 400 hotels; disappointing performance by consultants.
50	C	Numerous administrative complications and delays (apparently also, inadequate Bank supervision.)
54	D	Lack of coherence among papers produced; relatively vague terms of reference; inadequate Bank supervision.
97	C	First stage mainly informational; lack of enthusiasm about report by Regional Programs Department and Malaysian Economic Planning Unit led to decision not to proceed with second phase.

Table A: Research Projects by Size  
(RPO Expenditure\*, \$'000)

<u>Category</u>	<u>Subject</u>	<u>No. of Projects</u>	<u>&lt; 25</u>	<u>25-50</u>	<u>50-75</u>	<u>75-100</u>	<u>100-200</u>	<u>&gt; 200</u>
IA	General Planning	3		2			1	
IB	Income Distribution	11	1	1	2		6	1 <u>b/</u>
IC	Economic Analysis/ Development Strategy	11		3		4	2	2 <u>c/</u>
II	Finance and Trade	12	6	1	3		2	
III	Agriculture and Rural Development	23	5	8	4	2	3	1 <u>d/</u>
IV	Industry	10	2	2	2	2	2	
V	Transportation	11	5	1	1	1	1	2 <u>e/</u>
VI	Public Utilities	9	2	4			3	
VII	Urbanization	10	4	2	3		1	
VIIIA	Education	8	2	4		1		1 <u>f/</u>
VIIIB	Employment	10	1	3	2	1	2	1 <u>g/</u>
VIIIC	Population/Health	7	3	2	1		1	
IX	Other <u>a/</u>	2	1		1			
	<b>Total</b>	<b>127</b>	<b>32</b>	<b>33</b>	<b>19</b>	<b>11</b>	<b>24</b>	<b>8</b>

a/ Conferences, country concentration

b/ Ranis

c/ Prototype, ICP

d/ NE Brazil

e/ Capital-Labor substitution; highway design

f/ Coombs (0-51)

g/ Public Works

\* Actual expenditures through FY76 plus FY77 authorizations.

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Table B: Research Project "Grades" by Subject

<u>Category</u>	<u>Subject</u>	<u>No. of Graded Projects</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
IA.	Gen. Planning	3		2	1	
IB.	Income Dist.	5	1	3	1	
IC.	Econ. Analysis/ Dev. Strategy	5	2	1	1	1 <u>a/</u>
II.	Finance and Trade	6		2	3	1 <u>b/</u>
III.	Ag. and Rural Dev.	11	3	4	3	1 <u>c/</u>
IV.	Industry	5		4		1 <u>d/</u>
V.	Transportation	6		5	1	
VI.	Public Utilities	5	4	1		
VII.	Urbanization	6		1	5	
VIIIA.	Education	6	2	2	2	
VIIIB.	Employment	4		3	1	
VIIIC.	Pop./Health	3		1	1	1 <u>e/</u>
IX.	Other	1		1		
	Total	66	12	30	19	5

Note: "Discontinued" projects not included

- a/ Employment and capital/labor substitution (54); C or D  
b/ Hotels (49)  
c/ Foodgrains (121)  
d/ Export Promotion (21)  
e/ Econ. Issues of Health - Newman (48)

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Table C: Grades for Research Projects Evaluated in FY78  
(As of March 2, 1978)

<u>Project Code</u>	<u>Project Title</u>	<u>Grade</u> <sup>1/</sup>	<u>Total Estimated Expenses</u> (\$10 <sup>3</sup> )	<u>Staff Months</u>		
				<u>Prof.</u>	<u>Asst.</u>	<u>Total</u>
670-44	Education Finance and Income Distribution	A --	41.0	22	8	30
670-90	Labor Market in a Rapidly Growing Economy	B +	32.4	10	4	14
670-08	Project Appraisal and Shadow Prices	B -	74.7	12	-	12
670-69	Growth & Income Distribution in Brazil	B -	102.5	3	6	9
671-16	Standards for Sites and Services Projects	B --	58.6	6	1	7
671-11	Public Utility Pricing & Investment	C	23.2	2	1	3
670-14	Agriculture Mechanization in India	D --	138.3	10	8	18
670-99	Economic Aspects of Household Fertility Behaviour and Labor Supply in North-east Brazil	D --	45.0	26	18	44

<sup>1/</sup> The grades are based on the evaluation reports for each project. They range from A++ through D-- and F (for absolute disasters). Projects graded with a ++ or -- are considered to be very close to the border line of two consecutive grades.