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211(d) Draft Annual Report: 1974

Date: August 15, 1974

**Title:** To Strengthen and Expand Within the University of Minnesota Research and Training Competence in Policy Problems of Agricultural Development

**Grantee:** University of Minnesota

Program I -- Agricultural Economics Research and Training Program -  
Department of Agricultural and Applied Economics

Program II -- Development Policy Program - University of Minnesota  
Economic Development Center

**Director:** Martin E. Abel

#### STATISTICAL SUMMARY

**Period of Grant:** July 1, 1970 to September 30, 1975 (as amended)

**Amount of Grant:** July 1, 1970 to September 30, 1975

Program I -	\$230,000
Program II -	<u>570,000</u>
Total -	\$800,000

**Expenditures for Report Year:** July 1, 1973 to June 30, 1974

Program I -	\$ 61,936
Program II -	<u>128,100</u>
Total -	\$190,036

**Accumulated Expenditures:** July 1, 1970 to June 30, 1974

Program I -	\$171,648
Program II -	<u>407,667</u>
Total -	\$579,315

**Committed Expenditures:** July 1, 1974 to September 30, 1975

Program I -	\$ 40,183
Program II -	<u>77,835</u>
Total -	\$118,018

## NARRATIVE SUMMARY

The grant was made to "Strengthen and Expand Within the University of Minnesota Research and Training Competence in Policy Problems of Agricultural Development."

The research effort has been focused in four major areas: (1) population and labor markets in development; (2) trade and development: inter-regional and international; (3) commodity and factor markets in developing countries; and (4) technical change and resource use. In addition to the training opportunities associated with the research program itself the Center has facilitated the development of workshops for graduate students and staff in the areas of (a) Agricultural Trade and Development, (b) Human Capital, (c) Trade and Development, (d) Resource and Regional Economics, and (e) Science and Technology. A detailed report of the research and training activities of the University of Minnesota Economic Development Center is contained in the draft Annual Report: 1974.

On June 30, 1974, the Center completed its fourth year of funding under the AID 211(d) Grant. Several projects initiated during earlier years of the Grant were completed and the results made available in the form of theses, staff papers and journal reprints. The completed studies are listed below:

Population and Labor Markets in Development

Michael Hay, An Economic Analysis of Rural-Urban Migration in Tunisia

Uri Ben-Zion and Assaf Razin, An Intergenerational Model of Population Growth

Assaf Razin, International Differences in Growth Rates and Education

Trade and Development: Interregional and International

Sudhin K. Mukhopadhyay, Source of Variation in Agricultural Productivity: A Cross-Section-Time-Series Study of India

Tercan Baysan, Economic Implications of Turkey's Entry into the Common Market

Joseph Schwartzberg, Economic, Social and Demographic Maps for an Historical Atlas of South Asia

Commodity and Factor Markets in Developing Countries

Bai Yung Sung, The Demand for Fertilizer in Korea

Technical Change and Resource Use

Clayton Ogg, Sources of Agricultural Productivity Differences in North America

Uri Ben-Zion and Vernon W. Ruttan, The Effects of Aggregate Demand on Technological Change

Hans Binswanger, A Microeconomic Approach to the Theory of Induced Innovation

Mitoshi Yamaguchi and Hans P. Binswanger, The Role of Sectoral Technical Change in Development

Richard N. Blue and Yashwant Junghare, Political and Social Factors Associated with the Public Allocation of Agricultural Inputs in a Green Revolution Area: The Case of Rajasthan

The results of these completed studies are summarized in the draft Annual Report: 1974. The results of a number of these studies have direct and significant implications for agricultural development policies.

DETAILED REPORT: 1973/74

Background and Objectives

The general objective of the AID 211(d) Grant was to strengthen and expand within the University of Minnesota research, training and service capacity in policy problems of agricultural development. This was to be accomplished through two complementary programs: (a) an Agricultural Economics Research and Training Program (Program I) and (b) a Development Policy Program (Program II).

It was anticipated that the two programs would contribute to the supply of economists with analytical skills and operational experience in the policy problems of agricultural and economic development; expand the research and operational involvement of new and existing faculty on problems of agricultural and economic development policy; and enlarge the research opportunities of graduate students interested in economic development. These objectives have been achieved in a significant way.

It was also anticipated that the program to be developed at the University of Minnesota would give particular emphasis to intersector economic relationships--through the intersector labor and product markets and through the public institutions which link the agricultural and non-agricultural sectors of the developing economies. This objective has also been realized.

Expenditures by program area during 1973/74 are shown in the attached table, "Program Expenditures by Program Areas, 1973/74." The activities within each program area are described more fully in Annual Report: 1974.

## PROGRAM EXPENDITURES BY PROGRAM AREAS, 1974/75

	<u>Program I</u>		<u>Program II</u>	
	<u>Amount</u>	<u>%</u>	<u>Amount</u>	<u>%</u>
Population and Labor Markets in Developing Countries	\$ 6,372.80	10	\$ 30,546.07	24
Trade and Development: Inter- regional and International	2,536.79	4	55,147.60	43
Commodity and Factor Markets in Developing Countries	26,400.71	43	968.21	1
Technical Change and Resource Use	15,531.70	25	4,292.44	3
Public Enterprises and Develop- ment	--		2,041.60	1
Graduate Training	313.92	1	3,413.98	3
Program Support and Administration	<u>10,779.64</u>	<u>17</u>	<u>31,591.65</u>	<u>25</u>
Total	\$61,935.56	100%	\$128,101.55	100%

Accomplishments, 1973/74

The accomplishments under the AID 211(d) Grant to the University of Minnesota during 1973/74 are reported in the UM Economic Development Center draft Annual Report: 1974 (enclosed).

The initial section of the draft Annual Report: 1974 contains short summaries of research recently completed or currently under way, including Ph.D. theses.

The second section of the draft Annual Report: 1974 describes related projects, programs, and activities in which members of the Departments of Economics and Agricultural and Applied Economics are involved. This section of the report describes (a) research activities which are complementary to those financed from 211(d) funds and (b) the involvement of staff in developmental activities for developmental institutions and in developing countries.

The final sections of the draft Annual Report: 1974 deal with (a) the Graduate Program in Economic Development at the University of Minnesota, including graduate course offerings, staff, and staff developments; (b) Center publications; and (c) workshops and seminars.

Utilization of Institutional Resources in Development

In addition to the activities supported directly by the AID 211(d) Grant, the Department of Agricultural and Applied Economics and the Department of Economics are engaged in a wide spectrum of development programs and activities in developing countries. These activities are discussed on pp. 71-73 of the draft Annual Report: 1974.

The Rockefeller Foundation funded in 1974 a training and research workshop program in economic demography and development. The grant will be used for graduate student stipends and associated research support,

workshops, postdoctoral support and limited faculty support. The program is administered by T. Paul Schultz in the Department of Economics.

Dale Dahl continues to be actively engaged in the Korean Fertilizer Study and visited Korea to discuss research results and future directions of work with several agencies of the Government of Korea and Korean economic research institutes. Discussions of the work have also been conducted with T.V.A. and persons working on the Michigan State University Agricultural Sector Analysis for Korea.

W. B. Sundquist visited Tunisia on two occasions to confer with the University of Minnesota Tunisia team.

Philip Raup participated in a workshop at the East-West Center in Honolulu on the topic, "Role of Rural Institutions in Technology Transfer for the Small Farm Sector in Asia"; he attended a conference on "Land Reform and Industrialization" in Taipei, Taiwan at the invitation of the China Research Institute of Land Economics; and he spent one month in Indonesia for MUCIA surveying training and research programs in land use planning.

Willard Cochrane visited Saudi Arabia twice during 1973/74 to consult with that government on agricultural development planning.

Malcolm Purvis spent time in Tunisia and Syria as a consultant on agricultural development for the World Bank.

Kenneth Egertson was a MUCIA-supported participant in Indonesia on agricultural development problems.

Finally, Lee R. Martin was in Thailand as a member of a MUCIA faculty team making a study of agricultural and veterinary education, research, and extension in Thailand for the World Bank.

Impact of Grant-Supported Activities on Developing Institutional Capabilities

The 211(d) Grant to the University of Minnesota has clearly resulted in expanded capacity for graduate training in policy problems of agricultural development. As a result of the Grant, the Departments of Economics and Agricultural and Applied Economics were able to offer expanded programs of research workshops and seminars to graduate students supported by 211(d) funds as well as to students receiving support from other resources. This capacity has been augmented by the addition of two new permanent staff members, visiting staff, and increased participation of existing staff in the field of development in each department (see Annual Reports: 1972, 1973, and 1974).

The graduate training function is an integral part of the UM Economic Development Center Research Program. During 1973/74 continued progress was made in giving the research program a clearer focus around the four areas of (1) population and labor markets in development, (2) trade and development (3) commodity and factor markets, and (4) technical change and resource use. Each of these areas represents critical problems in the developing countries.

The focus of the performance of population and intersector labor markets is directed to the problems of population growth, labor force absorption, and income distribution. The problem of rationalizing trade relations among countries and the performance of domestic factor and product markets in the face of strong protectionistic policies in both developing and developed countries is critical to the sustained growth of output and productivity in both the agricultural and nonagricultural sectors. The management of science and technology, including agricultural

science and technology, to achieve both growth and equity among sectors, regions, communities, and individuals is one of the most serious problems facing policy makers in developing countries.

To date the 211(d) Grant has provided support to 13 students who have completed Ph.D. degrees and 16 other students, most of whom are in the process of completing degrees. The names of the students, their native countries, status of work and project assignments are presented in tables 1 and 2. As can be seen from the data presented, strong emphasis has been given to training of foreign students and involving students, both foreign and domestic, directly in some work in the developing countries. In addition, the 211(d) Grant has contributed importantly to the training of a large number of graduate students in development whose research was not supported from 211(d) funds. These students benefited greatly from the various workshops and seminars and from the expanded staff involvement in economic development made possible by the 211(d) Grant.

The 211(d) Grant has also made possible the expansion of permanent staff, the involvement of existing staff, and the use of visiting staff members in problems of economic development. Table 3 provides a list of faculty in the Departments of Agricultural and Applied Economics, Economics, Geography and in the Center for Comparative Studies who have received project support from the 211(d) Grant. This involvement and research output is substantial, by almost any measure. In addition, numerous staff members have worked with development agencies and governments of developing countries on problems of agricultural development. These activities are detailed in the sections of Annual Reports: 1972, 1973, and 1974 dealing with "Related Projects, Programs, and Activities."

Table 1. Students who received AID 211(d) support for completed Ph.D. dissertations

Name	Citizenship	Origin of data	Dissertation title
1. Edgardo E. Barandiaran	Argentina	Field work in Argentina	The Control of Money and Bank Credit in Argentina, 1972
2. Sudhin K. Mukhopadhyay	India	Available India data	Sources of Variation in Agricultural Productivity: A Cross-Section-Time-Series Study of India, 1974
3. Surjit S. Sidhu	India	Field work in India	Economics of Technical Change in Wheat Production in Punjab (India), 1974
4. Mitoshi Yamaguchi	Japan	Published time-series data	Technical Change and Population Growth in the Economic Development of Japan, 1973
5. Sachiko Yamashita	Japan	Published international data	An Exploration of the Economics of Taste and Demand for Food, 1973
6. Bai Yung Sung	Korea	Field work in Korea and project provided survey data	The Demand for Fertilizer in Korea, 1974
7. Tercan Baysan	Turkey	Published data	Economic Implications of Turkey's Entry into the Common Market, 1974
8. A. John DeBoer	U. S.	Field work in Thailand	Technical and Economic Constraints on Bovine Production in Three Villages in Thailand, 1972
9. Michael J. Hay	U. S.	Field work in Tunisia	An Economic Analysis of Rural-Urban Migration in Tunisia, 1974
10. Terry Monson	U. S.	Field work in Turkey and Germany	Migration, Experience-generated Learning and Infant Industries: A Case Study of Turkey, 1972
11. Clayton W. Ogg	U. S.	Published U.S., Canada, and Mexico data	Sources of Productivity Differences in North America, 1974

Table 1.--Continued

Name	Citizenship	Origin of data	Dissertation title
12. John H. Sanders	U. S.	Field work in Brazil	Mechanization and Employment in Brazilian Agriculture, 1950-1971, 1973
13. William W. Wade	U. S.	Published time-series data	Institutional Determinants of Technical Change and Agricultural Productivity Growth: Denmark, France, and Great Britain, 1973

Table 2. AID 211(d) supported students with dissertations in progress and students terminated without degrees

Name	Citizenship	Present status	Data source	Project assignment
1. Jose A. Cerro	Argentina	Terminated	Field work in Argentina	Regional Development in Argentina (thesis not yet filed)
2. Enrique O. Scala	Argentina	Terminated	Field work in Argentina	The Efficiency of Import Substitution in the Argentine Automobile Industry (thesis not yet filed)
3. Peter Pollak	Austria	In progress	Field work in Thailand	Economic Analysis of Oilseed Markets in Thailand
4. Cristian Zegers	Chile	In progress	Field data from Chile	Productivity in Multiple Output Dairy Farms in Southern Chile
5. Armeane Choksi	India	--	--	Trade and Development Workshop
6. Gershon Rudish	Israel	In progress	Published data	Balance of Payment Policy
7. Chong Nam	Korea	In progress	Published data	Economic Costs of Interest Rate Differentials in Korea
8. Elio Ndosu	Tanzania	In progress (currently supported by MUCIA)	Published data	Economic Decision-making in Public Enterprises
9. Salem Gafsi	Tunisia	In progress (currently supported by CIMMYT)	Field work in Tunisia	Adaption of the New Wheat Varieties in Tunisia
10. Norman Fox	U. S.	Project terminated	--	Regional Development in India
11. Richard Fraenkel	U. S.	In progress	Field work in Tunisia	Class Structure and Technical Change: A Case Study of a Farming Locality in Northern Tunisia

Table 2.--Continued

Name	Citizenship	Present status	Data source	Project assignment
12. Dale Good	U. S.	In progress	Field work in Tunisia	Price and Distribution System for Fertilizer in Tunisia
13. Robert Latham	U. S.	In progress	Field work in Central America	Economics of Forestry Information: Case Studies in Central America
14. William Meyers	U. S.	Temporary- completed	Published data	Induced Innovation in Agricultural Development
15. John Scarborough	U. S.	In progress	Published data	Equilibrium Model of International Production and Trade
16. Gary Skoog	U. S.	In progress	Published data	Equilibrium Model of International Production and Trade

Table 3. Faculty in Departments of Agricultural and Applied Economics, Center for Comparative Studies, Economics, and Geography receiving or who have received project support from AID 211(d) grant

Name	Department	Project title	Publications
1. Martin E. Abel	Ag. and Appl. Economics	Regional Agricultural Planning in India	with K. William Easter, <u>Cropping Regions in India</u> , Econ. Dev. Center Bull. 73-1, June 1973  with Delane E. Welsch and Robert W. Jolly, "Technology and Agricultural Diversification," Staff Paper 73-10, Jan. 1973  with Delane E. Welsch, "Technology and the Agricultural Output Mix," Staff Paper 73-26, Oct. 1973
		Projects and Principles Underlying the Economic Decision Making in Public Enterprises	
		Administrative and Staff Training Program	
2. Osama Al-Zand	Ag. and Appl. Economics	International Olive Oil Economy	"The Economics of Olive Oil and Oilseeds in the Mediterranean Region," Staff Paper 73-5, Jan. 1973  "Exploration and Analysis of Producer Prices of Olives in Tunisia--A Case of Pricing Imperfection," Staff Paper 73-6, Jan. 1973
3. Uri Ben-Zion	Economics	The Effect of Aggregate Demand on Technological Change	
		Family Size and Intergenerational Transfer	with Assaf Razin, "An Intergenerational Model of Population Growth," Discussion Paper 34, July 1973

Table 3.--Continued

Name	Department	Project title	Publications
4. Hans P. Binswanger	Ag. and Appl. Economics	Induced Innovation in Agricultural Development	<p>"The Measurement of Biased Technical Change in the Many Factor Case: U.S. and Japanese Agriculture," Staff Paper 72-28, Oct. 1973</p> <p>"Induced Innovation: A Critical Review of the Theory and Conclusions from New Evidence," Staff Paper 72-29, Dec. 1972</p> <p>"A Cost Function Approach to the Measurement of Factor Demand Elasticities of Substitution," Staff Paper 73-12, Jan. 1973</p> <p>"The Measurement of Technical Change Biases with Many Factors of Production," Staff Paper 73-25, Oct. 1973</p> <p>"A Microeconomic Approach to Induced Innovation," Staff Paper 74-3, Mar. 1974</p> <p>with Mitoshi Yamaguchi, "Some Structural Changes in the United States and Japanese Economies," Staff Paper 74-6, Apr. 1974</p> <p>with Mitoshi Yamaguchi, "The Role of Sectoral Technical Change in Development: Japan 1880-1965," Staff Paper 74-7, Apr. 1974</p> <p>"A Cost Function Approach to the Measurement of Elasticities of Factor Demand and Elasticities of Substitution," <u>Am. J. Ag. Ec.</u>, Vol. 56, No. 2, May 1974, pp. 377-386</p>

Table 3.--Continued

Name	Department	Project title	Publications
5. Richard N. Blue	Center for Comparative Studies	Political and Social Factors Associated with the Public Allocation of Agricultural Inputs in a Green Revolution Area: The Case of Rajasthan	
6. Peter K. Clark	Economics	Models of Speculative Markets: Instability in Commodity and Money Markets	"A Competitive Market Model for 'Futures' Price Determination," Discussion Paper 21, Aug. 1972
7. Dale C. Dahl	Ag. and Appl. Economics	Fertilizer Use, Distribution, and Manufacture in South Korea	with Bai Y. Sung and Young K. Shim, "Projection of the Demand for Fertilizer--Time Series Data Analysis," <u>J. Agr. Ec. (Korea)</u> , Vol. 15, Dec. 1973, pp. 21-32
8. K. William Easter	Ag. and Appl. Economics	Regional Agricultural Planning in India	with Martin E. Abel, <u>Cropping Regions in India</u> , Econ. Dev. Center Bull. 73-1, June 1973  "Improving Irrigation in India: The Neglected Opportunity," Staff Paper 73-33, Dec. 1973  "Returns from Investments in Improving Village Irrigation Systems: An Example from India," Staff Paper 74-13, July 1974
9. Peter Gregory	Economics	Labor Markets in Japan and Brazil	<u>Industrialization and Wages in Japan</u> , Geneva: International Labour Office, Second Impression, 1973  "Wage Structure in Latin America," Discussion Paper 4, July 1970

Table 3.--Continued

Name	Department	Project title	Publications
10. Jerome W. Hammond	Ag. and Appl. Economics	Price Distribution System for Fertilizer in Tunisia	
11. James N. Henderson	Economics	General Equilibrium Model of Trade and Development	
12. Ralph H. Hofmeister	Economics	Travel grant	"Growth and Unemployment in Latin America: Some Implications for Asia," Paper prepared for AID, NESA Employment Conference, Kathmunda, July 6-9, 1970
13. Leonid Hurwicz	Economics	Projects and Principles Under- lying the Economic Decision Making in Public Enterprise	
14. Yashwant unghare	Center for Comparative Studies	Political and Social Factors Associated with the Public Allocation of Agricultural Inputs in a Green Revolution Area: The Case of Rajasthan	
15. Anne O. Krueger	Economics	Optimal and Non-optimal Balance of Payment Policy	
16. Lee R. Martin	Ag. and Appl. Economics	Administrative and Staff Training Program	
17. Malcolm J. Purvis	Ag. and Appl. Economics	Class Structure and Technical Change: A Case Study of a Farm- ing Locality in Northern Tunisia	

Table 3.--Continued

Name	Department	Project title	Publications
18. Assaf Razin	Economics	International Differences in Growth Rates and Education	<p>"Investment in Human Capital under Uncertainty," Discussion Paper 19, July 1972</p> <p>with Uri Ben-Zion, "An Intergenerational Model of Population Growth," Discussion Paper 34, July 1973</p>
19. Terry L. Roe	Ag. and Appl. Economics	Staff Training Program	
20. Vernon W. Ruttan	Ag. and Appl. Economics	Induced Innovation in Agricultural Development	<p>with Yujiro Hayami, <u>Agricultural Development: An International Perspective</u>, Baltimore: The Johns Hopkins Press, 1971</p> <p>"Research Institutions: The Organization Questions," <u>Institutions in Agricultural Development</u>, ed. Melvin G. Blase, Ames: Iowa State University Press, 1971</p>

Table 3.—Continued

Name	Department	Project title	Publications
Ruttan (continued)			<p><u>Technology Transfer, Institutional Transfer, and Induced Technical and Institutional Change in Agricultural Development</u>, Proceedings of Conference on Agriculture in Development Theory, Bellagio, Italy, May 23-29, 1973</p> <p>'<u>Induced Technical and Institutional Change and the Future of Agriculture The Future of Agriculture: Theme Papers</u>, Oxford: Institute of Agricultural Economics for I.A.A.E., University of Oxford, Aug. 1973, pp. 16-35</p> <p>with Yujiro Hayami, "Factor Prices and Technical Change in Agricultural Development: The United States and Japan, 1860-1960," <u>J. Pol. Ec.</u>, Vol. 78, Sept./Oct. 1970, pp. 1115-1141</p> <p>with Yujiro Hayami, "Agricultural Productivity Differences Among Countries," <u>Am. Ec. Rev.</u>, Vol. 60, Dec. 1970, pp. 895-911 (EDC Reprint 70-4)</p> <p>with Yujiro Hayami, "Korean Rice, Taiwan Rice, and Japanese Agricultural Stagnation: An Economic Consequence of Colonialism," <u>Quar. J. Ec.</u>, Vol. 60, Dec. 1970, pp. 563-589 (EDC Reprint 70-3)</p> <p>"<u>Technology and the Environment</u>," <u>Am. J. Ag. Ec.</u>, Vol. 53, Dec. 1971, pp. 707-717 (EDC Reprint 71-3)</p>

Table 3.--Continued

Name	Department	Project title	Publications
Ruttan (continued)			with Yujiro Hayami, "Strategies for Agricultural Development," <u>Food Res. Inst. Stud.</u> , Vol. 11, No. 2, Dec. 1971, pp. 129-148 (EDC Reprint 72-3)
			with Yujiro Hayami, "Professor Rosenberg and the Direction of Technical Change. A Comment," <u>Econ. Dev. &amp; Cul. Change</u> , Vol. 21, Jan. 1973, pp. 352-355
			with Yujiro Hayami, "Technical Transfer and Agricultural Development," <u>Tech. &amp; Cult.</u> , Vol. 14, Apr. 1973, pp. 119-151 (EDC Reprint 73-2)
21. T. Paul Schultz	Economics	Staff Training Program, including Workshops	"Determinants of Fertility: A Micro Economic Model of Choice," Oct. 1973 (available from author only)
			"Explanation of Birth Rate and Changes over Space and Time," <u>J. Pol. Ec.</u> , Vol. 81, Mar./Apr. 1973, pp. 823-874 (EDC Reprint 73-1)
			"A Preliminary Survey of Economic Analyses of Fertility," <u>Ag. Econ.</u> , Vol. 63, May 1973, pp. 71-78 (EDC Reprint 73-3)
22. Joseph E. Schwartzberg	Geography	Economic, Social and Demographic Maps for a Historical Atlas of South Asia	
23. Young Kim Shim	Ag. and Appl. Economics	Fertilizer Use, Distribution and Manufacture in South Korea	with Eai Y. Sung and Dale C. Dahl, "Projection of the Demand for Fertilizer--Time Series Data Analysis," <u>J. Ag. Econ. (Korea)</u> , Vol. 15, Dec. 1973, pp. 21-34

Table 3.—Continued

Name	Department	Project title	Publications
24. Surjit S. Sidhu	Ag. and Appl. Economics	Technical Change in Wheat Production in the Punjab Regional Agricultural Development Planning in India	"Economies of Technical Change in Wheat Production in the Indian Punjab," <i>Am. J. Ag. Ec.</i> , Vol. 56, No. 2, May 1974, pp. 217-226 "Relative Efficiency in Wheat Production in the Indian Punjab," Staff Paper 73-11, Jan. 1973
25. Lance Taylor	Economics	Staff Training Program	with Marcelo Selowsky, "The Economic of Malnourished Children: A Study of Disinvestment in Human Capital," Discussion Paper 13, Dec. 1971
26. Besim Ustünel	Economics	Economic Growth in Sweden, Japan and Turkey	
27. Adolf Weber	Ag. and Appl. Economics	Induced Innovation in Agricultural Development	"Productivity Growth in German Agriculture: 1850 to 1970" and "Appendix: Data on Productivity Growth in German Agriculture: 1850 to 1970," Staff Paper 73-1, Revised Aug. 1973

It is clear that the IM Economic Development Center is directing its capacities to a series of significant problems. It is also clear that we have achieved an integrated approach to these problems and a balanced portfolio of research projects and other developmental activities. Further progress toward these ends will be made in 1974/75.

Plan of Work, 1974/75

Several projects initiated during earlier years will be completed during 1974/75. These include:

- (a) Economic Determinants of Fertility--T. Paul Schultz
- (b) Internal Migration and Economic Development--T. Paul Schultz
- (c) Regional Agricultural Development Planning in India--Martin E. Abel and K. William Easter
- (d) Multi-Country Trade and Development: A Programming Analysis--James M. Henderson and John E. Scarbrough
- (e) Economies of Scale and Production Functions in Korean Manufacturing--Chong H. Nam
- (f) Determinants of the Diffusion of New Production Activities in a Farming Locality in Northern Tunisia--Malcolm J. Purvis and Richard Fraenkel
- (g) Optimal and Non-Optimal Balance of Payments Policy--Gershon Rudish
- (h) Fertilizer Use, Distribution, and Manufacturing in Korea: An Economic Analysis--Dale C. Dahl, Young K. Shim, and Sang Woo Park
- (i) The Price and Distribution System for Fertilizer in Tunisia--J. W. Hammond and Dale Good
- (j) Economic Analysis of Oilseed Markets in Thailand--Peter K. Pollak

(k) Green Revolution: The Tunisian Experience--Willard W. Cochrane  
and Salem Gafsi

The projects in progress together with other expenditures will nearly exhaust the unspent funds in the AID 211(d) Grant. We do not anticipate initiating during 1974/75 any long-term projects requiring 211(d) funding. Small amounts of support may be provided to a few new, short-term projects.

The budgetary implications of the 1974/75 work plan are outlined in tables I and II, attached.

The present Grant was originally scheduled to terminate on June 24, 1975, but has been extended to September 30, 1975. As yet, formal discussion concerning renewal of the present Grant beyond its termination date have not been initiated. Therefore, discussions of the program of work for 1974/75 will be treated as if the present Grant expires on September 30, 1975 and there will be no renewal of the Grant. Under these assumptions, the implications of non-renewal of the Grant will be clear.

The primary focus of activities under the Grant in 1974/75 will be on completion of current projects and activities discussed earlier.

It is also anticipated that a small amount of funding will be provided to new activities initiated in the 1974/75 year. However, these activities will be of a short-term nature which will not permit either faculty or students to make a significant impact on any major problem area. Most of the short-term work would be directed toward rounding out and concluding projects already in progress. No commitments can be made to longer-term activities which would extend beyond the terminal date of the present Grant.

The substantial accomplishments of the UM Economic Development Center

under the 211(d) Grant have already been discussed and need not be repeated here.

The resources of the Grant have also enabled the University of Minnesota to supplement activities in agricultural development financed from other sources and to develop linkages with institutions in developing countries. The Grant has permitted us to engage in activities which complemented those financed from such sources as the University of Minnesota-AID contract in Tunisia, the Ford Foundation, the Rockefeller Foundation, and the Agricultural Development Council. Resources from the Grant have helped to develop or strengthen relationships with institutions in developing countries such as Korea, Tunisia, Thailand, the International Rice Research Institute and CIMMYT.

The activities during the first year of the present Grant can be characterized mainly as developing the groundwork for teaching, research, and service activities in subsequent years. The main thrust of these activities was to expand the interest of faculty members and graduate students in activities related to the economic problems of agricultural development. As can be seen from this and previous Annual Reports, peak activity at the University of Minnesota was not achieved until the third and fourth years of the Grant.

We are no longer in a position to make additional long-term commitments to faculty or graduate students because (a) most of the funds remaining under the present Grant have been committed to completion of ongoing work and (b) there is no firm basis at this time for assuming that the present Grant will be renewed. Put simply, we cannot commit money we don't have. Furthermore, we will not be able to pursue and expand linkages between the University and institutions in developing countries.

It is very important to the University of Minnesota that the 211(d) Grant in agricultural economics be renewed and that such a renewal be completed by January 1, 1975 if the University is to maintain and possibly increase its level of commitment to teaching, research, and service work in economic problems relating to agricultural development. This is so for several reasons. In the absence of firm indications about renewal of the Grant, faculty members who have been engaged in agricultural development work will redirect their time and energy to other areas of activity. Faculty members usually develop their own work plans at least a year in advance of engaging in such work. Unless the University of Minnesota can provide some assurance to its faculty by January 1, 1975 that there will be 211(d) resources for continued work in agricultural development, it is very likely that many of them will switch their involvement away from agricultural development. There are a large number of important domestic issues which are competing for limited faculty resources. And, many of these domestic issues require the same skills that one would want to engage in studies in problems related to agricultural development. Domestic areas which are receiving high priority include agricultural product and factor markets, land and water resource use, energy, and rural development.

The timing of renewal of the present Grant is also very important with respect to the University of Minnesota making commitments to graduate students who are interested in agricultural development. The critical period for deciding upon admission of students to graduate work and financial support for the 1975/76 academic year takes place in the January-March period of 1975. Unless we can be assured that there will be continued resources under the 211(d) Grant, we will have to drastically reduce the

number of students entering the University for the 1975/76 year with interests in agricultural development, particularly those from developing countries. This would have serious implications for the level of training activity carried out by the University of Minnesota. Also, a large number of graduate students presently at the University with interests in agricultural development will not pursue dissertation research in this area if funding of such research is not available. A reduction in support for graduate students would reinforce the reduction and support for faculty activities and further drive faculty members away from engaging in problems of agricultural development.

The problems of continuing graduate training programs at a high level is particularly serious. There are 11 graduate students who have completed one year of graduate work and 21 who are expected to commence graduate work in the fall of 1974 in the Department of Agricultural and Applied Economics with expressed interests in agricultural development problems of developing countries (see table 4). In addition, there are a number of graduate students in the Department of Economics with similar interests. While several of these students have assured funding for their graduate studies and research projects, most do not. In the absence of a timely renewal of the 211(d) Grant, a great many of these students would either have to go without support or, more likely, would have to find support in areas other than agricultural development.

In the absence of timely renewal of the Grant, a serious loss of graduate student support together with a loss of faculty interest will greatly reduce the capacity of the University of Minnesota to effectively do teaching, research, and training in agricultural development as well as

Table 4. Partial list of graduate students  
who have indicated interest in  
foreign (ag.) development

Students in residence a year as of 6/30/74	Students coming in for 1974/75 academic year
Amamou, Habib	Abramovich, Ester
Ben Brahim, Ahmed	Bredvold, Craig
Burke, Patricia	Choi, Jong K.
Hamilton, Milo	Christopherson, David
Huh, Shin-Haeng	Chu, W. H.
Konjing, Khaisri	Hu, Gregory
Norton, George	Jensen, James
Pederson, Glenn	Jewett, Carolyn
Phan, Phan	Langrish, Philip
Ramakrishnaiah, D.	Ludewig, David
Spriggs, John	Martin, Michael
	Okusanya, Cole
	Palvia, Pankaj
	Ribeiro, Jose
	Seyama, Syuhei
	Shei, Shun-Yi
	Sim, Robert
	Thomas, Fredrick
	Todd, Richard
	Tvedten, Audun
	Ullrich, Helmut

to have faculty resources engaged directly on problems of agricultural development through work with development agencies or with the developing countries directly.

#### Talent Sharing

During the past year efforts have been made to increase the participation of University of Minnesota faculty members in the Talent Sharing Arrangement of the 211(d) Grant; i.e., direct participation of faculty members in the program of work of the Agricultural Economics and Sector Analysis Division, Technical Assistance Bureau of AID.

Discussions concerning talent sharing were held this past year between the staff of AID and representatives of the six institutions that are recipients of 211(d) grants in agricultural economics. Both substantive and administrative aspects of the Talent Sharing Arrangement were discussed, as well as possible changes in the program which would make it more attractive to University faculty to work directly in the Agricultural Economics and Sector Analysis Division. These discussions were most helpful in improving mutual understanding of the importance of the Talent Sharing Arrangement and existing problems which have made for difficulty in implementing it. A number of positive steps to improve the functioning of the Talent Sharing Arrangement have been taken. One involves certain modifications in the application of the Intergovernmental Personnel Act (IPA) arrangement under which University faculty can serve in AID. Efforts are under way to eliminate some of the administrative and financial constraints imposed by current regulations. This should make it much more attractive for University personnel to serve in Washington. A second step has been

to make more specific the substantive areas of work that faculty members would be engaged in. This greater specificity of tasks has made it easier to align the professional interests of individual faculty members with priority interests of AID.

Discussions were initiated between AID and Professor Lee R. Martin concerning arrangements for Professor Martin to spend time in Washington on the staff of the Agricultural Economics and Sector Analysis Division. These discussions are continuing with the possibility that Professor Martin might join the Agricultural Economics and Sector Analysis Division on or about January 1, 1975.

Preliminary discussions have also taken place concerning the possibility of Professor Terry Roe serving on the staff of the Agricultural Economics and Sector Analysis Division at some future date. Professor Roe has been in Tunisia for two years on the AID-University of Minnesota contract to strengthen the agricultural development planning capabilities of the Tunisian Ministry of Agriculture. Professor Roe is interested in continuing his work on sector analysis, with a particular focus on appropriate methodologies in countries where there are severe data limitations. Professor Roe will be returning to the University of Minnesota on about August 1, 1974. It is planned that he will initiate discussions with the staff of the Agricultural Economics and Sector Analysis Division in the near future about his interests in the sector analysis work and the possibility of working directly for the Division.

Discussions with AID were also held this past year concerning the International Agricultural Economics Panel. Further discussions are required to determine the future of the Panel.

Index Linking Detailed Budget Statements in Tables I(a) and I(b) to

Annual Report: 1974

Table I(a)

- Induced Innovation in Agricultural Development  
 pp. 50, 54 (Binswanger, and Binswanger-Yamaguchi)  
 p. 59 (Gafsi)  
 p. 46 (Tollak)
- Fertilizer Use, Distribution and Manufacture in South Korea  
 p. 42 (Dahl, Sung, et al.)
- The Price and Distribution System for Fertilizer in Tunisia  
 p. 43 (Good-Hammond)
- Determinants of the Diffusion of New Production Activities in a Farming  
 Locality in Northern Tunisia  
 p. 36 (Purvis, Fraenkel)
- Source of Productivity Differences in North America  
 p. 47 (Ogg)
- An Economic Analysis of Rural-Urban Migration in Tunisia  
 p. 13 (Hay)

Table I(b)

- Regional Agricultural Development in India: A Comparative Study  
 p. 20 (Abel, Easter, Mukhopadhyay)
- Family Size and Intergenerational Transfer  
 p. 16 (Ben-Zion, Razin)
- Economic, Social, and Demographic Maps for a Historical Atlas of South Asia  
 p. 72 (Schwartzberg)
- A General Equilibrium Model of International Production and Trade  
 pp. 27, 29 (Henderson, Baysan, Scarbrough)
- Political and Social Factors Associated with the Public Allocation of  
 Agricultural Input in a Green Revolution Area: The Case of Rajasthan  
 p. 58 (Blue, Junghare)
- Economies of Scale and Production Function in Korean Manufacturing  
 p. 33 (Nam)
- Optimal and Non-optimal Balance of Payment Policy  
 p. 39 (Krueger, Rudish)

**Public Enterprise as an Institutional Form for Development**  
p. 67 (Hurwicz, Abel)

**Economic Demography, Development, and Human Capital**  
pp. 8, 11 (Schultz)

Table I(a)  
 Budget Detail for AID Program I  
 Agricultural Economics Research and Training Program I  
 July 1, 1973 - June 30, 1974

Research Projects	Personnel	AID 211(d) Grant Support				Other Support	
		Salary and fringe benefits	Computer and data processing	Travel and expenses	Supplies and equipment	Totals	Amount Source
<b>Induced Innovation in Agricultural Development</b>							
Assistant Professor	Hans Binswanger	\$ 4,168.35	\$ 441.83		\$ 213.92	54,824.10	
Research Assistant	Yik-Ching Sun	455.00				455.00	
Research Assistant	S. Mukhopadhyay		2.66		11.31	13.97	
Research Assistant	Salem Gafsi	2,364.00			30.93	2,394.93	
Research Assistant	Peter Pollak	299.04	470.42		213.43	962.39	
<b>Fertilizer Use, Distribution and Manufacture in South Korea</b>							
Staff (U of M)	Dale C. Dahl			\$2,266.57	10.40	2,276.97	
Research Assistant	Bai Yung Sung	5,484.48	560.83	1,899.38	235.85	8,181.54	
Secretarial Services		271.17				271.17	
Staff (Korea)	Young K. Shim	*1,299.00	*310.05	*692.47		2,301.52	
Research Assistant	H. Oh	*452.53				452.53	
Research Assistant	M. Joung	*352.92		*67.94		420.86	
Interviewers-Enumerators		*935.77		*302.80		1,238.57	
Secretarial Services		*352.67				352.67	
Supplies					*1,153.31	1,153.31	

\*Under Memorandum of Agreement, Dr. Young K. Shim 7/1/73-6/30/74

Table I(a)—Continued

Research Projects	Personnel	AID 211(d) Grant Support				Other Support	
		Salary and fringe benefits	Computer and data processing	Travel and expenses	Supplies and equipment	Totals	Amount
<b>The Price and Distribution System for Fertilizer in Tunisia</b>							
Staff	Dale C. Dahl			300.33		300.33	
Research Assistant	Dale L. Good	5,581.67	67.16	2,090.43	140.25	7,879.51	
Interpreter-Translator		588.84				532.84	
<b>Class Structure and Technical Change: A Case Study of a Farming Locality in Northern Tunisia</b>							
Staff	Malcolm Purvis			61.41	26.13	87.54	
Research Specialist	Richard Fraenkel	2,420.46			14.82	2,435.28	
<b>Sources of Productivity Differences in North America</b>							
Research Assistant	Clayton Ogg	7,781.50			76.17	7,857.67	
<b>Rural-Urban Migration in Tunisia</b>							
Research Assistant	Michael Hay	5,956.78	400.00		16.02	6,372.80	
<b>Graduate Training:</b>							
Staff	Terry Roe						19,200 AID/Tu
Seminar Speakers	W. B. Sundquist			213.92		213.92	
	R. Devadas	100.00				100.00	

Table I(a)--Continued

Research Projects	Personnel	AID 211(d) Grant Support				Other Support	
		Salary and fringe benefits	Computer and data processing	Travel and expenses	Supplies and equipment	Totals	Amount
<b>Program Support and Administrations:</b>							
Staff	Martin E. Abel			209.67	170.99	380.66	
Secretarial Services	Mary Strait	3,337.69				3,337.69	
Editorial and Clerical Services	Barbara Miller	5,295.20				5,295.20	
Supplies and Equipment					564.47	564.47	
Printing Charges					1,201.62	1,201.62	
<b>TOTALS</b>		<b>\$47,497.07</b>	<b>\$2,252.95</b>	<b>\$8,104.92</b>	<b>\$4,080.62</b>	<b>\$61,935.56</b>	<b>\$19,200</b>

Unofficial Budget Summary  
 Department of Agricultural and Appl  
 Economics  
 August 1, 1974

Table I(b)  
 Budget Detail for AID Program II  
 Development Policy Program  
 July 1, 1973 - June 30, 1974

Research Projects	Personnel	AID 211(d) Grant Support				Other Support	
		Salary and fringe benefits	Computer and data processing	Travel and expenses	Supplies and equipment	Totals	Amount
Regional Agricultural Development in India: A Comparative Study							
Research Assistant	R. Jolly	\$ 2,364.00				\$2,364.00	
Research Assistant	S. Mukhopadhyay	6,278.45				6,278.45	
Research Assistant	G. Norton	1,838.63				1,838.63	
Research Assistant	Y. Sun	364.00				364.00	
Undergraduate Research Assistant	R. Nevins	1,114.70				1,114.70	
Data Processing			2,283.51			2,283.51	
Supplies					759.75	759.75	
Regional Agricultural Development in the Philippines							
	D. Antiporta						A/D/C
An Exploration of the Economies of Taste and Demand for Food							
Research Assistant	S. Yamashita	797.26				797.26	
Data Processing			14.30			14.30	
Supplies					156.65	156.65	

Table I(b)--Continued

Research Projects	Personnel	AID 211(d) Grant Support				Other Support	
		Salary and fringe benefits	Computer and data processing	Travel and expenses	Supplies and equipment	Totals	Amount
<b>Mechanization and Employment in Brazilian Agriculture 1950-1971</b>							
Research Assistant	J. Saunders	797.26				797.26	
Supplies					4.07	4.07	
<b>Family Size and Intergenerational Transfer</b>							
Research Assistant	Y. Mehra	1,117.50				1,117.50	
Senior Secretary	P. Broas	235.30				235.30	
Data Processing			318.19			318.19	
Supplies					3	3.45	
<b>Economic, Social and Demographic Maps for a Historical Atlas of South Asia</b>							
Professor	J. Schwartzberg	954.22				954.22	
Travel				1,690.89		1,690.89	
<b>A General Equilibrium Model of International Production and Trade</b>							
Professor	J. Henderson	8,464.20				8,464.20	
Research Assistant	T. Baysan	3,597.00				3,597.00	
Research Assistant	J. Scarbrough	7,655.15				7,655.15	
Research Assistant	G. Skoog	2,391.79				2,391.79	
Data Processing			802.23			802.23	
Travel				217.38		217.38	
Supplies					53.07	53.07	

Table I(b)--Continued

Research Projects	Personnel	AID 211(d) Grant Support				Other Support	
		Salary and fringe benefits	Computer and data processing	Travel and expenses	Supplies and equipment	Totals	Amount
<b>Political and Social Factors</b>							
Associated with the Public Allocation of Agricultural Input in a Green Revolution Area: The Case of Rajasthan							
Research Assistant	Y. Junghare	946.00				946.00	
<b>Science and Agricultural Progress:</b>							
The Japanese Experience							
	Y. Hayami D. Izumi }						10,255.40 FF
<b>Economies of Scale and Production Function in Korean Manufacturing</b>							
Research Assistant	C. Nam	7,664.00				7,664.00	
<b>Optimal and Non-Optimal Balance of Payment Policy</b>							
Professor	A. Krueger	2,695.00				2,695.00	
Research Assistant	G. Rudish	6,485.00				6,485.00	
Travel				119.74		119.74	
<b>Public Enterprise as an Institutional Form for Development</b>							
Research Assistant	A. Tansel						788.00 MUCIA
Research Assistant	E. Ndosi	2,036.00				2,036.00	1,576.00 MUCIA
Supplies					5.60	5.60	

Table I(b)--Continued

Research Projects	Personnel	AID 211(d) Grant Support				Other Support	
		Salary and fringe benefits	Computer and data processing	Travel and expenses	Supplies and equipment	Totals	Amount
<b>Economic Demography, Development and Human Capital</b>							
Professor	T. Schultz	27,792.88				27,792.88	
Research Assistant	M. Hay	271.76				271.76	543.51 RF
Research Assistant	R. Shakatko						197.00 RF
Data Processing			242.37			242.37	7.92 AF
Travel				479.19		479.19	264.26 RI
Supplies					85.43	85.43	345.77 AF
<b>Trade and Development Workshop</b>							
Research Assistant	E. Falaris	1,063.50				1,063.50	
Travel				2,030.48		2,030.48	
Supplies					300.00 <sup>a</sup>	300.00	
<b>Program Support and Administration:</b>							
Professor	M. Abel	13,725.27				13,725.27	
Professor	L. Martin	3,166.47				3,166.47	
Travel				250.77		250.77	
<b>Secretarial Services</b>							
Senior Secretary	L. Hendrickson	7,596.64				7,596.64	
Senior Secretary	M. Strait	3,308.94				3,308.94	
<b>General Program Support</b>							
			13.50	32.77	3,497.29	3,543.56	
<b>TOTAL</b>		<b>\$114,740.92</b>	<b>\$3,674.10</b>	<b>\$4,821.22</b>	<b>\$4,865.31</b>	<b>\$128,101.55</b>	<b>13973</b>

<sup>a</sup>Honoraria: \$150.00 for C. Frank; \$150 for A. Kelley.

Unofficial Budget Summary, Off. of International Programs  
August 1, 1974

Table II(a)

## AID Program I - Agricultural Economics Research and Training Budget Summary, 1970/71 to 1972/73

Items	Actual July 1, 1970-June 30, 1971			Actual July 1, 1971-June 30, 1972				Actual July 1, 1971-June 30, 1972			
	Budgeted (1)	Spent (2)	Balance (3)=(1)-(2)	Budgeted (4)	Budgeted plus carryover (5)=(3)+(4)	Spent (6)	Balance (7)=(5)-(6)	Budgeted (8)	Budgeted plus carryover (9)=(7)+(8)	Spent (10)	Balance (11)=(9)-(10)
1. Salaries	31,032	4,435	26,547	33,265	59,812	39,771	21,041	37,354	58,395	43,990	14,405
2. Fringe Benefits	2,909	232	2,677	3,104	5,781	1,820	3,961	3,334	7,295	1,790	5,505
3. Computer and Data Processing	2,000	38	1,963	2,500	4,463	1,047	3,416	2,500	5,916	1,342	4,574
4. Travel and Expense	2,000	307	1,693	3,000	4,693	3,927	766	3,000	3,766	5,633	-1,867
5. Supplies and Equipment	2,500	119	2,681	600	3,281	2,702	579	600	1,179	3,510	-2,331
<b>TOTAL</b>	<b>40,741</b>	<b>5,181</b>	<b>35,561</b>	<b>42,469</b>	<b>78,030</b>	<b>48,266</b>	<b>29,763</b>	<b>46,788</b>	<b>76,551</b>	<b>56,265</b>	<b>20,286</b>

AID Program I - Agricultural Economics Research and Training Budget Summary, 1973/74 and 1974/75

Items	Actual July 1, 1973-June 30, 1974				Projected July 1, 1974-June 30, 1975*			
	Budgeted (12)	Budgeted plus carryover (13)=(11)+(12)	Spent (14)	Balance (15)=(13)-(14)	Budgeted (16)	Budgeted plus carryover (17)=(15)+(16)	Committed (18)	Balance (19)=(17)-(18)
1. Salaries	37,047	51,452	46,036	5,416	36,707	42,123	34,190	7,933
2. Fringe Benefits	3,525	9,030	1,461	7,569	-0-	7,569	4,493	3,076
3. Computer and Data Processing	-0-	4,574	2,253	2,321	-0-	2,331	-0-	2,321
4. Travel and Expense	3,000	1,133	8,105	-6,972	11,174	4,202	-0-	4,202
5. Supplies and Equipment	6,000	3,669	4,061	-412	3,000	2,588	1,500	1,088
TOTAL	49,572	69,858	61,936	7,922	50,881	58,803	40,183	18,620

\*The original grant which was due to expire on June 24, 1975 has been extended without additional funding until September 30, 1975.

Table II(b)

## AID Program II - Development Policy Program Budget Summary, 1970/71 to 1972/73

Items	Actual July 1, 1970-June 30, 1971			Actual July 1, 1971-June 30, 1972				Actual July 1, 1972-June 30, 1973			
	Budgeted (1)	Spent (2)	Uncommitted balance (3)=(1)-(2)	Budgeted (4)	Budgeted plus carryover (5)=(3)-(4)	Spent (6)	Uncommitted balance (7)=(5)-(6)	Budgeted (8)	Budgeted plus carryover (9)=(7)+(8)	Spent (10)	Uncommitted balance (11)=(9)-(10)
1. Salaries	41,904	36,641	5,263	90,557	95,820	85,555	10,265	96,970	107,235	118,101	-10,866
2. Fringe Benefits	3,353	2,669	684	7,075	7,759	6,052	1,707	7,596	9,303	8,592	711
3. Computer and Data Processing	2,600	87	2,513	3,500	6,013	1,410	4,603	3,054	7,657	1,987	5,670
4. Travel and Expenses	6,400	4,354	2,036	11,000	13,036	1,928	11,108	12,500	23,608	1,949	21,659
5. Supplies and Equipment	4,500	2,023	2,477	2,000	4,477	4,552	-75	2,000	1,925	3,657	-1,732
TOTAL	58,757	45,784	12,973	114,132	127,105	99,497	27,608	122,120	149,728	134,286	15,442

AID Program II - Development Policy Program Budget Summary, 1973/74 and 1974/75

Items	Actual July 1, 1973-June 30, 1974				Projected July 1, 1974-June 30, 1975*			
	Budgeted (12)	Budgeted plus carryover (13)=(11)+(12)	Spent (14)	Uncommitted balance (15)=(13)-(14)	Budgeted (16)	Budgeted plus carryover (17)=(15)+(16)	Committed (18)	Uncommitted balance (19)=(17)-(18)
1. Salaries	103,866	93,000	105,095	-12,095	111,282	99,187	55,176	44,011
2. Fringe Benefits	8,163	8,874	9,645	-771	15,775	15,004	8,159	6,845
3. Computer and Data Processing	6,500	12,170	3,674	8,496	6,954	15,450	7,000 <sup>a</sup>	8,450
4. Travel and Expenses	12,500	34,159	4,821	9,338 <sup>d</sup>	-0-	9,338	-0 <sup>b</sup>	9,338
5. Supplies and Equipment	2,000	268	4,865	-4,597	27,500	22,903	7,500 <sup>c</sup>	15,403
TOTAL	133,029	148,471	128,100	371	161,511	161,882	77,835	84,047

<sup>a</sup>Abel/Easter \$5,000 and program support \$2,000.

<sup>b</sup>No amount estimated yet.

<sup>c</sup>Abel/Easter \$3,500 and estimated program support \$4,000.

\*The original grant which was due to expire on June 24, 1975 has been extended without additional funding until September 30, 1975.

<sup>d</sup>\$2,000 from travel and expense amount was transferred to amount budgeted for supplies and equipment in 1974/75.

Unofficial Budget Statement  
Office of International Programs  
August 1, 1974