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9. ABSTRACT

THE PROJECT: Facilitates communication among international and regional centers and institutions of the developed and developing nations via mutually supportive networks. Research, information and technical assistance linkages afford maximum research productivity, and maximum support for the expansion of the lesser-developed countries' research capabilities.

DURATION: 1973-1975

DEVELOPMENTS: Each of the seven publications in this series charts the major linkages within a particular network, and gives the function, services, and fund source for each of the network components. The reports include both AID and regional support projects, and a list of pertinent institutions and their addresses. To improve the situation of the lesser-developed countries farmer, the massing of resources is critical; these publications provide guidance on how useful linkages can be established.

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INTERNATIONAL AGRICULTURAL RESEARCH NETWORK

for

BARLEY

MAY, 1974

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International Agricultural Research Network

for

Barley

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Washington, D. C. 20523

INTERNATIONAL BARLEY RESEARCH NETWORK

General

The Office of Agriculture, Technical Assistance Bureau (TA/AGR)^{1/} is responsible for fostering the development of mutually supporting agricultural research, information, and technical assistance networks among research and development institutions in the lesser developed countries (LDCs), international and regional research centers, and research institutions in the developed countries. While network building is most advanced for the primary food grains -- rice, wheat and maize -- it is also being rapidly developed for other major food crops as well as for selected areas of ruminant livestock.

Agency policy is to encourage network building with special efforts to link the least developed countries into the networks. Emphasis also is placed on regional research networks, such as the East and West Africa Cereals Projects. This overall policy reflects the following three sets of facts:

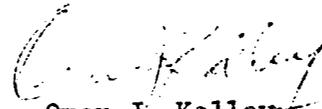
1. Agricultural research calls for talent and money in amounts exceeding the scarce resources available to individual LDCs and required to achieve significant breakthroughs.
2. Research on common problems at widely separated locations can be mutually reinforcing, if suitable facilities for exchange of information exist.
3. The great mass of research facilities and capabilities exists in the developed countries, especially in the U.S. This can be utilized to accelerate the development of the research capabilities in the LDCs. Widespread LDC participation, in turn, brings faster and more effective research results.

Networks are established to achieve the critical massing of resources essential to solve the important agricultural problems of the LDCs. The need to coordinate and integrate all related international research on specific crops, crop diseases, pests, weeds, soils, animals, etc.,

^{1/} Organizations and their acronyms mentioned are listed at the end of this publication.

led to emphasis by AID on the strengthening of worldwide research networks. Maximum research productivity and the avoidance of duplication, as well as maximum support for expansion of the LDC's own research capabilities, are the goals of this network approach. The ultimate goal of the research networks is, of course, to improve the situation of the rural poor. This publication is intended to provide guidance on how useful linkages can be established and to suggest agencies that may be contacted to explore new linkages.

Users of this material are encouraged to comment on the overall content of the bulletin and to offer suggestions that may prove useful in the contemplated periodic updating of the publication. Communications should be addressed to this Office.



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Director
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Technical Assistance Bureau
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Washington, D. C. 20523

BARLEY RESEARCH NETWORK

The Barley Research Network is made up of the participating research institutions and the linkages among them. The chart immediately following shows the major linkages and the sources of funds provided by donors in support of the International Research Network for Barley. All linkages are not shown or may be shown inadequately and, since this is a dynamic system, changes can be expected in the network over time. Internal linkages within LDCs are not explored.

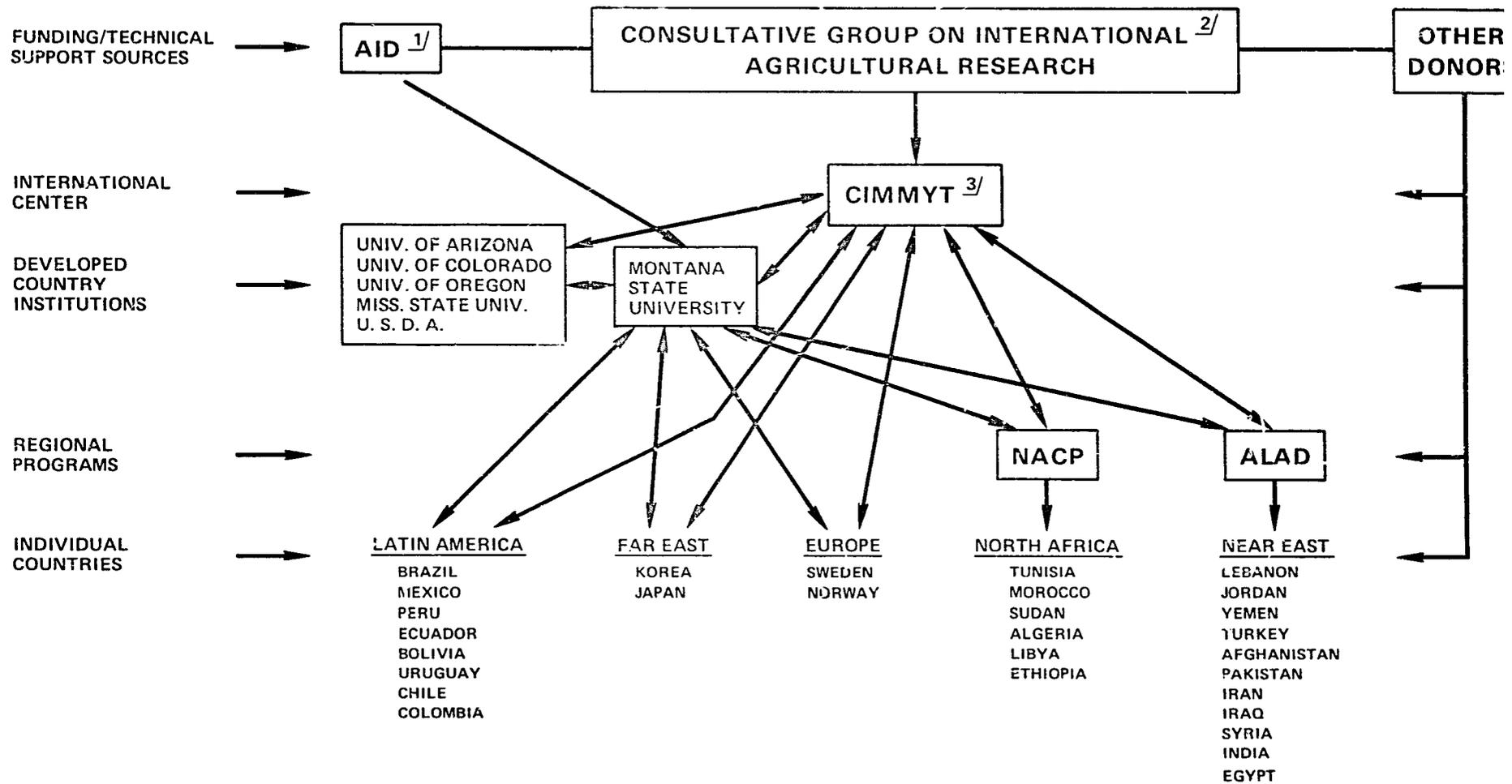
The basic information on the Barley Network, needed by operational personnel, is presented in descriptive form in the table immediately following the chart. The "Components" column refers to the individual research institutions or systems which are working towards development of the needed technology. CIMMYT represents the heart of the Barley Research Network, with Montana State University playing a crucial role in the provision of essential basic supporting research. Regional and national institutes also form important components, receiving benefit from, as well as contributing to, the worldwide Barley Network. Other columns show "Functions" performed at each unit in the network, "Services Available" from each, and how each is financed.

The next section views the Network in terms of AID support.

Finally, to facilitate communication, a list of the various institutions mentioned and their addresses is appended.

INTERNATIONAL BARLEY RESEARCH NETWORK

Major Linkages



^{1/} AID IS SHOWN APART IN ORDER TO INDICATE FUNDING LINKAGES TO U.S. RESEARCH INSTITUTIONS. AID ALSO CONTRIBUTES THROUGH BILATERAL ARRANGEMENTS TO INDIVIDUAL COUNTRY PROGRAMS. OTHER DONOR MEMBERS OF CGIAR HAVE CORRESPONDING ADDITIONAL LINKAGES.

^{2/} THE DONOR MEMBERS SUPPORTING CIMMYT ARE FORD FOUNDATION, ROCKEFELLER FOUNDATION, UNDP, WORLD BANK, CANADA, GERMANY, AND U.S. OTHER CGIAR DONORS INCLUDE AUSTRALIA, BELGIUM, DENMARK, FRANCE, JAPAN, NETHERLANDS, NORWAY, SWEDEN, SWITZERLAND, UNITED KINGDOM, AND KELLOGG FOUNDATION. ALL CGIAR MEMBERS ARE POTENTIAL FINANCIERS OF OPERATING LINKAGES WITHIN THE NETWORK.

^{3/} THE LINKS BETWEEN CIMMYT AND THE INDIVIDUAL COUNTRIES TAKE THE FORM OF INFORMATION AND MATERIALS EXCHANGE, THE CONDUCT OF SEMINARS AND WORKSHOPS, COOPERATIVE RESEARCH PROJECTS, ADVISORY SERVICES AND TRAINING.

INTERNATIONAL BARLEY RESEARCH NETWORK

COMPONENTS	FUNCTIONS	SERVICES AVAILABLE	SOURCE OF FUNDS
ALAD - ARID LANDS AGRICULTURAL DEVELOPMENT PROGRAM, BEIRUT, LEBANON	Research and development directed towards the improvement of agriculture under arid conditions.	Support in research and production programs; training	Ford Foundation.
CIMMYT - INTERNATIONAL CENTER FOR MAIZE AND WHEAT IMPROVEMENT, EL BATAN, MEXICO	Serves as hub of international network; multi-disciplinary production-oriented research.	Source of improved seed; technical information, consultant services; training; also, support in national research and production programs; and, assistance with workshops and seminars.	CGIAR, bilateral arrangements.
MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA	Research on yield improvement, pest resistance and control, improvement of protein content and quality, resistance to arid conditions.	Support in research and production programs; training.	AID

INTERNATIONAL BARLEY RESEARCH NETWORK

COMPONENTS	FUNCTIONS	SERVICES AVAILABLE	SOURCE OF FUNDS
NACP - NORTH AFRICAN CEREALS PROGRAM, TUNIS, TUNISIA	Research addressed to needs of North African area. Cooperative research, production activities.	Support in research and production programs; training.	CTMMYT, AID, FORD and East Africa Foundation
USDA - UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.	Maintenance of germplasm; multidisciplinary research to meet U.S. needs in production, handling, storage, and utilization; cooperative USDA-State research programs.	Source of germplasm, technical information, consultant services, training.	Federal and State appropriations; AID.
LESS DEVELOPED COUNTRY AND OTHER DEVELOPED COUNTRY RESEARCH INSTITUTIONS AND PROGRAMS	Development of technology required by the country concerned, training, liaison with extension.	Source of germplasm, technical information, consultant services; training and management.	Country appropriations; support for LDC programs from outside donors such as AID, UNDP, FAO, IBRD, Ford and Rockefeller Foundations, etc.

AID SUPPORTING PROJECTS

TA/AGR Supporting Projects

Research

1. Barley Improvement for Semi-Arid Regions, Montana State University.
2. Water Management Research in Arid and Sub-Humid Lands (2 projects), Colorado State University (Asia) and Utah State University (LA).
3. Agronomic-Economic Research on Tropical Soils, North Carolina State University.
4. Soil Fertility Requirements to Attain Efficient Production on Extensive, Deep Well-drained, but Relatively Infertile Soils of the Humid Tropics, Cornell University.
5. Control of Weeds, Oregon State University.

General Technical Services

1. Budget support to CIMMYT.
2. Pest Management and Related Environmental Protection, University of California.
3. Fertilizers, Technical Assistance, Survey, Training and Consultations, T.V.A.
4. Seed Program and Industry Development, Mississippi State University.
5. Plant and Seed Materials for Development of Potential Crops, USDA.
6. Technical Assistance in Food Grain Drying, Storage, Handling and Transportation, Kansas State University.

Regional Bureau Supporting Projects

Latin America

1. Grant to the Castellar Graduate School (Argentina) for advanced training in agriculture, covering, among other subjects, crop improvement.
2. Soil Fertility Project, North Carolina State University -- provides cooperative research support to national programs working on fertility problems in Latin America.

Africa

Support to North African Regional Wheat Project.

Mission Level Support

Support is provided to strengthen country-level research programs and supporting activities such as training. Other activities supported at this level are international testing and seed exchange; cooperative production and/or research programs; and seminars and workshops combined with exchange of information.

MAILING ADDRESSES OF INSTITUTIONS MENTIONED

AID Agency for International Development
Department of State
Washington, D. C. 20523

ALAD Arid Lands Agricultural Development Program
P. O. Box 2379
Beirut, Lebanon

CGIAR Consultative Group on International Agricultural Research
International Bank for Reconstruction and Development
1818 H Street, N. W.
Washington, D. C. 20433

CIMMYT Centro Internacional para el Mejoramiento de Maiz y Trigo
(International Center for Corn and Wheat Improvement)
Apartado 6-641, Londres 40
Mexico 6, D. F. Mexico

FAO Food and Agriculture Organization of the United Nations
Via delle Terme di Caracalla
00100 Rome, Italy

FORD The Ford Foundation
320 East 43rd Street
New York, New York 10017

IBRD International Bank for Reconstruction and Development
1818 H Street, N. W.
Washington, D. C. 20433

MAILING ADDRESSES OF INSTITUTIONS MENTIONED

IDB	Inter-American Development Bank 808 17th Street, N. W. (Annex A) Washington, D. C. 20577
NACP	Office of Cereals North African Cereals Program Tunis, Tunisia
NEAR EAST FOUNDATION	Near East Foundation 54 East 64th Street New York, New York 10021
ROCKEFELLER	The Rockefeller Foundation 111 West 50th Street New York, New York 10020
TA/AGR	Office of Agriculture Technical Assistance Bureau Agency for International Development Washington, D. C. 20523
TA/DA	Office of Development Administration Technical Assistance Bureau Agency for International Development Washington, D. C. 20523
UNDP	United Nations Development Program 799 United Nations Plaza New York, New York 10017
USDA	U. S. Department of Agriculture Agricultural Research Service Washington, D. C. 20250

MAILING ADDRESSES OF INSTITUTIONS MENTIONEDU.S. UNIVERSITIES

ARIZONA	The College of Agriculture University of Arizona Tucson, Arizona 85721
COLORADO	The College of Agricultural Sciences Colorado State University Fort Collins, Colorado 80521
MONTANA	The College of Agriculture Montana State University Bozeman, Montana 59715
MISSISSIPPI	The College of Agriculture Mississippi State University State College, Mississippi 39762