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Agricultural Experiment Station News August 1977

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FROM THE DIRECTOR'S DESK

Just off the press is a report entitled "World Food and Nutrition Study -- The Potential Contributions of Research", the product of a study by the National Research Council of the National Academy of Sciences. It presents an analysis of the world food and nutrition situation in detail, and outlines the special role that accelerated research and development can play in attacking these problems. It also contains a listing of the most promising areas of research and development, based on studies made by 12 teams of experts. Finally it makes recommendations concerning the mechanisms for getting the job done.

I was privileged to hear a briefing on this study by Dr. Joel Bernstein, the Study Director. My impressions were as follows:

--The report is cautiously optimistic about reducing world hunger by 2000 AD, despite the estimate of 2 billion more people to be fed by that time.
--An average increase in average crop yields of 2.5% annually will be required, compared to the past average of 1.9%.
--The ability of the Developing Countries to address their food problem has increased; several factors are cited, including potential to increase food production; a favorable turn in population growth rates; better understanding by the leadership of these countries; and new technical possibilities on the horizon. But, political will is the key to mobilizing these favorable factors.
--The report stresses the role of research in addressing the world food problem; it identifies 22 priority areas of research which have the potential for important advances, and which would contribute significantly to improving the world food and nutrition situation. The 22 areas fall into four categories: nutrition, food production, food marketing, and policies and organizations. Increased U. S. research support is recommended for these 22 areas.
--Strategic themes underlying the recommendations included the following:
(1) The need to focus on nutritional needs of individuals; (2) A need to shift U. S. food producing strategy toward more biological improvement as opposed to the application of more capital; (3) A need to increase the division of labor and sharing of results in research; (4) The role of governmental policies in providing incentives toward increasing food production and the needed analysis of alternative policies.
--The mobilization of research resources is discussed; the report suggests that the U. S. agricultural research establishment needs to work with the science community and the world research community to a greater degree.
--Title XII needs strengthening; foreign aid is not the answer for mobilizing research sources.

From Nebraska William Splinter and Carl Leopold served on study teams in this effort.

This report is available from the Printing and Publishing Office, National Academy of Sciences, 2101 Constitution Avenue, N.W., Washington, D.C., 20418.
PERSONNEL ACTIONS

Beals, Dale J. - Instructor, Prod. Ag. Tech. (UNSTA) - Appointment
Chollet, Raymond - Assoc. Prof., Biochemistry - Appointment
Combs, Elizabeth - Assist. Prof., Ed. and Family Resources - Appointment
Cross, Otis - Assoc. Prof., Ag. Engineering - Resignation
Erickson, Eric - Assist. Prof., Veterinary Science - Appointment
Frey, Mervin - Professor, Veterinary Science - Appointment
Hamilton, Ricky - Assist. Prof., Forestry and District Extension Forester - Resignation
Handel, A. Philip II - Assist. Professor, Food Science and Technology - Appointment
Loveday, Hugh - Assist. Prof., Animal Science & Ext. Meats Specialist - Appointment
Schinstock, Jack - Assist. Prof., Ag. Engineering - Appointment
Spalding, Mary - Assist. Prof., Research Chemist, Conservation and Survey - Appointment
Wallen, Stanley - Assist. Prof., Food Science and Technology - Appointment

GRANTS AND CONTRACTS

Anderson, F. N., Agronomy (PH Sta.) - TransAgra Corporation $1,000
Ball, H. J., Entomology - FMC Corporation 2,000
Brandle, J. R., Forestry - Nebraska Railroad Association 1,000
Burnside, O. C., Agronomy - Mobil Chemical Company & Shell Oil Company 1,400
Clanton, D. C., Animal Science (NP Sta.) - International Minerals & Chemical Co. 2,000
Daly, J. M. and H. W. Knoche, Biochemistry - Nebr. Wheat Division--Dept. of Ag. 7,800
Ellington, E. P., Animal Science - Chevron Chemical Co. 4,500
Flowerday, A. D., Agronomy - Olin Chemicals 1,200
Hudson, D. B. - Vet. Science (NP Sta.) - Norden Laboratories 1,090
Kerr, E. D., Plant Pathology (PH Sta.) - Olin Chemical 600
Klopfenstein, T. J., Animal Science - Chevron Chemical 5,000
Mattern, P. J., Agronomy - Nebr. Wheat Division --Dept. of Agriculture 10,800
Mayo, Z. B., Entomology - Mobil, Chemagro and FMC 3,500
Peters, L. L. Entomology (SC Sta.) - FMC, Chemagro, & Gulf Oil Corporation 2,700
Rhodes, M. B., Vet. Science - Miscellaneous Donors 927
Roeth, F. W., Agronomy - BASF Wyandotte Corporation 500
Schmidt, J. W., Agronomy - Nebr. Wheat Division--Department of Agriculture 12,000
Steelman, R. L., Plant Pathology - Olin Chemicals 1,500
Trimmer, W. L., Agricultural Engineering (PH Sta.) Misc. Donors (3) 900
Watkins, J. E. & B. L. Doupnik, Plant Path. - Miscellaneous Donors (4) 2,300
Wicks, G. A., Agronomy (NP Sta) - Chemagro 750
Williams, J. H., Agronomy - Archer Daniels Midland Company 5,500
Wilson, R. C. Jr., Agronomy (PH Sta.) Miscellaneous Donors (5) 2,500

GENERAL NOTES

1. Early Warning on New CSRS Grants! The FY 1978 federal appropriations bill for Agricultural Research will likely include a $15 million basic research grants program for the areas of human nutrition, photosynthesis, nitrogen fixation and genetic engineering. It is not too early to generate thinking about proposal possibilities.

2. Dr. R. R. Oltjen, distinguished beef nutrition scientist, will become the new Director of the US MARC. For the past five years, he has been Chief of the Ruminant Nutrition Laboratory at Beltsville. We look forward to working with him in our many cooperative activities with MARC.

3. Congratulations to Dr. Keith Gregory for the high honor of election as an Honorary Fellow of the ASAS and to Dr. Bill Splinter, the new President Elect of the ASAE.

R. W. Kleis
Journal Articles (contact authors for more information)


5354. Factors Affecting Atrazine Adsorption on Soil at 0.3 and 0.1 Bar Moisture Contents. T. H. Dao and T. L. Lavy. Weed Science.


-over-
Journal Abstracts (contact authors for more information)

77-897. Evaluation of Western Corn Rootworm, *Diabrotica virgifera* LeConte, Adult Control on an Individual Field Basis as an Alternative to the Use of Soil Insecticides in Eastern Nebraska. Bruce W. Beardmore and Z. B. Mayo. 32nd Annual Meeting, North Central Branch of the Entomological Society of America.


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