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UNIVERSITY OF NEBRASKA-LINCOLN
COLLEGE OF AGRICULTURE
THE AGRICULTURAL EXPERIMENT STATION
E. F. FROLIK, DEAN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station



Vol. 5, No. 10, April 1973

DEAN FROLIK'S VIETNAM STUDY

Dean E. F. Frolik of our College of Agriculture and Dr. George B. Alcorn, Director of the University of California Agricultural Extension Service, Berkeley, spent January and February reviewing and making suggestions for improving and developing the agricultural research and extension programs in South Vietnam. They were on a special assignment for the United States Agency for International Development under arrangements made by the U. S. Department of Agriculture Extension Service.

They went to Washington for orientation prior to departing for Saigon and then returned by way of Washington for purpose of reporting. In addition to the seven weeks spent in Vietnam they made brief visits to agricultural research installations at Kuala Lumpur, Malaysia, and at New Delhi, India. They had been in Vietnam for three weeks prior to the time of the "cease fire" and remained there for four weeks afterwards.

In the course of making the study, Alcorn and Frolik traveled over 3000 miles within country by plane, helicopter, and automobile. Their visits took them from Hue on the north to fairly close to the southern tip of the Mekong Delta. They visited numerous farms, 4-T Clubs (patterned after our 4-H Clubs), farm and home demonstrations, provincial agricultural offices, and a number of experiment stations.

Virtually all crops imaginable can be grown in Vietnam. The climate in the entire country is tropical. Rainfall varies from that of the average at Lincoln, Nebraska, to over 200 inches annually. The highest elevation is about 7000 feet. Frost has never been known to occur anywhere in South Vietnam.

Principal types of livestock produced are hogs and poultry (both chickens and ducks). The country also has about 1 1/2 million cattle and 1 million water buffalo. Sixty percent of the farm income comes from rice, of which 75 percent is produced on the Delta. Rubber is the second most important crop.

The potential for increased agricultural production is very great. Strengthening of both the agricultural research and extension programs is needed.

REGIONAL PROJECT SUPPORT

Regional research funds for the Nebraska Agricultural Experiment Station are reduced by \$73,572 in the pending federal budget for 1973-74. These funds and programs involved are similar to grant programs and have been handled as such at this Station. While most of the recent distress, discussion, and action have focused on the ARS and Hatch appropriations reductions, the RRF cut is also real and those of you with projects receiving regional fund support should be alerted.

It is anticipated that this reduction will be met by: (a) projects expiring this year, (b) not funding replacement or new projects, (c) critical examination of RRF funding of projects in regions other than NC, and (d) reduction of support of continuing projects as necessary.

PERSONNEL ACTIONS

Dietrich, Allen R. - ARS, Instructor in Agr'l Eng. (courtesy appointment resignation)
Glimp, Hudson A. - ARS, Assoc. Prof. of Animal Science (courtesy appointment resignation)
Hultquist, Joe H. - ARS, Instructor in Agronomy (courtesy appointment resignation)
Janike, Edward L. - Dean of Extension and Professor of Agr'l Extension Emeritus (retirement)
Stockland, Alan E. - Asst. Prof. of Entomology (courtesy appointment)
Streeter, Charles L. - ARS, Assoc. Prof. of An. Sci. (courtesy appointment resignation)
Tolman, Walter L. - Assistant Professor of Animal Science Emeritus - NE Sta. (retirement)
Zikmund, Dale G. - Asst. Prof., Agr'l Education (courtesy appointment resignation)

GRANTS AND CONTRACTS

Burnside, O. C. - Agronomy - Shell Oil Company	\$ 500
Fenster, C. R. - Agronomy (SB Sta.) - Shell Oil Company	1,000
Kleis, R. W. - Ag Experiment Station - Deere & Company (equipment)	31,287
Klopfenstein, T. J. - Animal Science - Miscellaneous Donors	800
Klopfenstein, T. J. - Animal Science - Corn Products Corporation	5,000
Lucas, L. E. - North Platte Station - Miscellaneous Donors	800
Lucas, L. E. - North Platte Station - American Cyanamid Company	1,000
Moline, W. J. - Agronomy - Terra Chemicals International	800
Rhodes, M. B. - Veterinary Science - USDA, CSRS	76,922
Satterlee, L. D. - Food Science and Technology - VioBin Corporation	1,875
Twiehaus, M. J. - Veterinary Science - USDA, APHIS	9,091
Twiehaus, M. J. - Veterinary Science - American Cyanamid Co.	2,000
Vidaver, A. K. - Plant Pathology - DHEW, NIH	23,715
White, R. and J. Campbell - Vet. Sci. and Ent. (NP) - Alley-Johnson Co. (Equip.)	735

GENERAL NOTES

1. Dr. Warren Sahs is currently on a special two week assignment for the Rockefeller Foundation and the Turkish Government. He is advising them on the development of a new experimental farm near Ankara. They will be planning an operations organization, operations facilities, field layouts and land development for a wheat research and training center.
2. The recent removal of the administration annex building near the 38th Street entrance is to provide for the widening of Holdrege Street and the related improvement of that campus entrance. This project is currently planned for 1974.
3. Please be reminded that the University operates a pool of surplus furnishings and equipment. This is under inventory officer Louis Legg. You may turn in items which have become excess to your needs. But more importantly they have many good items which you may obtain at no cost or very nominal cost. Likewise we have surplus gear at the Field Laboratory. To determine what is available or to see it, contact Clarence Kreps (2678) and/or Chick Hastert.
4. The Current Research Information System (CRIS) is available to each of you for printouts concerning research on topics which you identify. We encourage you to make use of it for background in project development, keeping abreast of related work in the US, manuscript preparation, etc. Mrs. Jellsey, in our office, can provide the request forms if you do not have them.
5. He who asks questions cannot avoid answers.

Journal Articles (contact authors for more information)

3580. Ribonucleic Acid Polymerase Activity Associated with Bacteriophage ϕ 6. J. L. Van Etten, A. K. Vidaver, R. K. Koski and J. S. Semancik. *Virology*.
3581. Computation of Dielectric Properties from Short-Circuited Waveguide Measurements of High- or Low-Loss Materials. S. O. Nelson, C. W. Schlaphoff, and L. E. Stetson. *IEEE Transactions on Microwave Theory and Techniques*.
3582. Solid Phase Radioimmunoassay for Plant Viruses. Ellen M. Ball *Virology*.
3583. Managing the Young Dairy Calf. R. D. Appleman and F. G. Owen. *Proceedings, National Dairy Housing Conference*.
3584. Windbreaks and Shelter Effect. Norman J. Rosenberg. Invited Chapter for "Progress in Biometeorology," L. P. Smith, ed., Suets & Zeitlinger, the Netherlands, Pubs.
3585. Light Transmission in Field Communities of Sorghum. Max D. Clegg, William W. Biggs, Jerry D. Eastin, Jerry W. Maranville and Charles Y. Sullivan. *Agronomy Journal*.
3586. Cytogenetics of Stem-Rust Resistance in an Agrotricum Line. A. R. Shank, J. W. Schmidt, and R. Morris. *Crop Science*.
3587. Influence of Different Formulations and Rates of DCPA and EPTC on Weed Control and Performance of Garden Chrysanthemums. S. S. Salac, W. C. Whitney, and J. D. Furrer. *Hort Science*.
3588. The Effect of Ration on Engineering Properties of Beef Cattle Manure. G. A. Frecks and C. B. Gilbertson. *American Society of Agricultural Engineers Journal*.
3589. Influence of Weeds on Combine Harvesting Losses in Soybeans. O. C. Burnside. *Weed Science Journal*.
3590. Effects of Heterosis on Maternal Performance and Milk Production in Hereford, Angus and Shorthorn Cattle. Larry V. Cundiff, Keith E. Gregory, Frank J. Schwulst and Robert M. Koch. *Journal of Animal Science*.
3591. Competition of Common Milkweed with Sorghum. L. L. Evetts and O. C. Burnside. *Agronomy Journal*.
3592. A Sex Attractant of the Western Cron Rootworm. Harold J. Ball and M. F. B. Chaudhury. *Environmental Entomology*.
3593. The Occurrence of Sooty Stripe or Sorghum in Nebraska. Gary N. Odvody, Larry D. Dunkle and Michael G. Boosalis. *Plant Disease Reporter*.
3594. An Electrophoretic Mutant of Cowpea Mosaic Virus. G. D. McLean and J. S. Semancik and J. B. Dixon. *Virology*.
3595. Comparative Value of L-, DL- and D- Methionine Supplementations of Diets for Humans. C. Kies, H. Fox, and S. Aprahamian. *Journal of Nutrition*.
3596. Comparative Value of Various Sources of Nonspecific Nitrogen for the Human. C. Kies. *Journal of Agriculture and Food Chemistry*.

3597. An Analysis of Nutrition Information Presented in Daytime TV Serials. J. Stoedter and C. Kies. Journal for Nutrition Education.
3598. A Method for Simulating the Direct Solar Radiation Regime in Sunflower, Jerusalem Artichoke, Corn and Soybean Canopies Using Actual Stand Structure Data. R. Lemeur. Agricultural Meteorology.

Journal Abstracts (contact authors for more information)

- 73-163. Technique for Doing Longissimus Muscle Biopsies in Porcine. T. E. Socha, P. J. Cunningham, C. H. Naber and R. W. Mandigo. Journal of Animal Science.
- 73-164. Cross-Fertilization of Alfalfa in Relation to Forage Yield. W. R. Kehr. Proceedings Central Alfalfa Improvement Conference.
- 73-165. Control of Anthracnose Root Rot of Alfalfa with Fungicides. L. T. Palmer and W. R. Kehr. Phytopathology.
- 73-166. Effect of an Antifungal, Pimaricin, Upon the Retardation of Food Spoilage and Incidence of Toxins. K. M. Shahani, L. B. Bullerman, H. M. Barnhart, and T. E. Hartung. Proceeding--International Congress for Bacteriology.
- 73-167. Comparative B-Complex Vitamin Content of Cottage Cheese Made by Culture and Direct Acidification Methods. W. Moscoso, A. M. Joe, and K. M. Shahani. Journal of Dairy Science.
- 73-168. Nitrogen Metabolism in Soybean Nodule Bacteroids. Stanley Dunn and Robert Klucas. Proceeding of the Nebraska Academy of Sciences.
- 73-169. Factors Affecting Dystocia in Beef Cows. John K. Ward. Journal of Animal Science.
- 73-170. Anatomical and Orientation Studies of the "Crookneck" Rogue Fruit in Butternut Squash (Cucurbita Moschata). Aly M. Ibrahim and Dermot P. Coyne. Hort. Science.

BULLETINS PRINTED

- SB 522. Yield and Food Value of Selected Silage Crops Fed To Calves. D. C. Clanton and J. F. Karn.
- RB 253. Motion and Time Studies of Milking Parlors and Routines. R. D. Appleman and C. F. Micke.
- MP 24. Nebraska Computer, Feed Formulation Data, Feed Ingredient Analysis and Ration Specifications and Restrictions. E. W. Gleaves, P. Q. Guyer, J. G. Kendrick, F. G. Owen, E. R. Peo, Jr., and T. W. Sullivan.