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THE AGRICULTURAL EXPERIMENT STATION
INSTITUTE OF AGRICULTURE
AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA-LINCOLN
H. W. OTTOSON, DIRECTOR

Agricultural Experiment Station



Vol. 7, No. 10, April 1975

AGRICULTURE COMPUTING NETWORK (AGNET)

On August 21, 1974, Vice Chancellor Acker appointed a faculty committee to delineate the potential use of computers and computer terminals in the research, teaching, and extension programs of the Institute of Agriculture and Natural Resources. The committee concluded that there was a potential for increased computer usage in all phases of IANR activities and that the need to provide computer access to research and extension staff at outstate locations was particularly acute. The committee recommended that an Institute-wide agriculture computing network be established to serve Institute computing needs and that as a first step in providing expanded computer access at outstate locations a pilot project be established to assess the cost-benefit relationships of increased computer usage.

With funds from the current IANR budget and the University Computer Network, and a grant from the Nebraska Bankers Association, a pilot project was begun in February at the Panhandle Station. Equipment at the Station includes three dial-up computer terminals (two portable and one permanent). The terminals can be used to access the CMS interactive time-sharing system on the IBM 370 computer in the Statehouse or the NUROS system on the IBM 360 computer in Nebraska Hall. Several workshops have been conducted by Dr. Tom Thompson and Dr. Jim Kendrick to acquaint area staff with the use of available computer programs and to discuss the development of additional program modules.

In addition to the terminals at Scottsbluff, there are nine dial-up computer terminals as well as batch (card input) computing capabilities available in the Statistical Laboratory on the Lincoln campus. These terminals are available to all staff and students and are being used extensively in the teaching programs in both agriculture and home economics.

In March, Vice Chancellor Acker appointed an AGNET Advisory Committee consisting of Dr. John Weihing, Chairman; Dr. Will Schutz, Vice Chairman; Dr. Tom Thompson, Dr. Jim Kendrick, Mr. Mick Evertson, Dr. Ivan Rush, Mr. Ron Gaddis, Dr. Don Swoboda, Dr. Larry Bitney, Dr. Richard Douglass, and Dr. Roberta Sward. The committee is charged with coordinating and reflecting user needs as the network develops, evaluation of the pilot project, and monitoring of the role of AGNET in the Institute. Users who wish to know more about the computing capabilities available in AGNET or who have computing needs that are not currently being satisfied are invited to contact the committee for assistance. There are presently more than twenty major program modules available under the interactive CMS system and more are under development.

Although interactive computing has been available for a relatively short time, users have found a wide variety of applications in research, extension, and teaching. After a rather late start, Institute staff now have an opportunity to utilize computing as a tool in more effectively performing their assigned tasks.

W. M. Schutz

PERSONNEL ACTIONS

Clark, Ralph B. - Professor of Agronomy, ARS (courtesy appointment)
Haderlie, Lloyd C. - Assistant Professor of Agronomy (new appointment)
Hergert, Gary W. - Assistant Professor of Agronomy (new appointment)

Johnson, Bruce B. - Assistant Professor of Agricultural Economics (new appointment)
Leviticus, Louis I. - Prof. of Ag. Eng.--Tractor Testing (appointment)
Steinegger, Donald H. - Assoc. Prof. of Hort. and Ext. Horticulturist (new appt.)

GRANTS AND CONTRACTS

Klopfenstein, T. - Animal Science - Grass Valley Farms	\$ 5,000
Klopfenstein, T. - Animal Science - Eli Lilly and Company	2,000
Lavy, T. L. - Agronomy - Office of WRR, U. S. Dept. of Interior	40,687
Rehm, G. W. - Agronomy (Northeast Station) - U. S. Gypson Co.	3,000 ✓
Rosenberg, N. J. - Agricultural Engineering - National Science Foundation	95,000
Twiehaus, M. J. - Veterinary Science - Burns-Biotec Laboratory	2,650

GENERAL NOTES

1. You have each received Vice Chancellor Acker's letter announcing that Dr. J. L. Adams will be moving to a different assignment from the position of Director of Cooperative Extension on July 1. The ten years of Jack's vigorous leadership in extension has indeed been characterized by marked progress in development of personnel and programs in extension and close collaboration with the Experiment Station. We will look forward to working with him in some other function when he has completed the recovery from his health problem.
2. Ground has been broken for the Production Agriculture/Veterinary Technology building at Curtis and for the Plant Materials facility at North Platte.
3. The East Campus Union building bids have been received and are substantially over original budget estimates. What happens now is not certain but efforts have been initiated to increase the funding to permit letting the contract. Funds involved are not from general-state revenue.
4. It seems that the number of modest but important industrial grants to Station staff and projects may be dropping off some. On the other hand major grant opportunities from federal agencies appear improved. In either case staff efforts in procurement of grants are important to sustaining this significant supplementation of appropriated funds for our programs.
5. Schnieder on safety--Unlike the situation with many industrial jobs, agricultural work changes throughout the season. Thus, familiarity with jobs is less and changing safety requirements require more attention. Many blunder into new jobs without safety forethought. This can lead to personal injury and/or equipment damage.
6. The University has requested bids for selling 240 acres of land north of Havelock and west of 84th. These receipts will be used to develop swine research facilities at the Field Laboratory and permit completing the Animal Science transfer out of the Havelock area. This then will vacate the land south of Adams Street for subsequent sale.
7. Don't let yesterday use up too much of today.

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - March 1975

Journal Articles (contact authors for more information)

3949. Effect of Bacillus thuringiensis on Nosema-infected Midgut Epithelium of Loxagrotis albicosta (Lepidoptera: Noctuidae). T. J. Helms and John L. Wedberg. Journal of Invertebrate Pathology.
3950. Lead Toxicosis in Cattle. Clair M. Hibbs. Proceedings, 78th Annual Meeting of the United States Animal Health Association.
3951. Color and Flavor Stability of Mechanical Deboned Poultry Meat. G. W. Froning. Proceedings of Second European Symposium on Poultry Meat.
3952. Ruminal Histamine, Lactate and Animal Performance. W. C. Koers, R. Britton, T. J. Klopfenstein and W. R. Woods. Journal of Animal Science.
3953. Recent Advances in Chemistry and Physics of Milk and Milk Products for Standardization of Processing & Manufacturing Techniques. Khem M. Shahani. Proc. XIX Intern'l. Dairy Congress.
3954. Distillers Feeds As Protein Sources in Ruminant Rations - I. Whitney Rounds and Terry Klopfenstein. Journal of Animal Science.
3955. Brewers Dried Grains As A Protein Source In Ruminant Rations. Whitney Rounds and Terry Klopfenstein. Journal of Animal Science.
3956. Distillers Feeds As Protein Sources In Ruminant Rations - II Rumen Bypass of DDGS. Whitney Rounds and Terry Klopfenstein. Journal of Animal Science.
3957. Chemicals For Treating Crop Residues. Whitney Rounds, Tom Messersmith, Norman Barney, John Waller and Terry Klopfenstein. Journal of Animal Science.
3958. Storage Characteristics and Feeding Value of Mechanically Stacked Loose Hay. S. A. Weeks, F. G. Owen and G. M. Peterson. ASAE Transactions.
3959. Differential Reaction of Kentucky Bluegrass Cultivars to the Bluegrass Billbug, Sphenophorus parvulus Gyllenhal. S. D. Kindler and E. J. Kinbacher. Crop Science.
3960. Mechanical Properties Affecting Lodging of Sorghum. L. L. Bashford, J. W. Maranville, S. A. Weeks and R. Campbell. Transactions of the ASAE.
3961. Effect of Depth of Nitrogen Fertilizer Placement on Nitrogen Availability to Wheat (Triticum aestivum L.). L. A. Daigger and Donald Sander. Agronomy Journal.
3962. The Physiology of Soybean Nodule Senescence. Robert Klucas. Rhizobium Newsletter.
3963. Vitamin/Protein Interrelationships Influencing the Apparent Protein Nutritive Value of a Soy TVP Product for Humans. Constance Kies and Hazel Metz Fox. Journal of Food Science.
3964. Atrazine and Picloram Mobility in an Irrigated Loamy Fine Sand. L. E. Wilson and T. L. Lavy. Journal of Environmental Quality.

3965. Injecting and Sampling Equipment for Studying Mobility of Pesticides in a Soil Profile. L. E. Wilson and T. L. Lavy. Proceedings, Soil Science Society of America.
3966. Isolation and Purification of Clostridium perfringens Enterotoxin by Affinity Chromatography. H. M. Barnhart, L. B. Bullerman, Ellen M. Ball and Fred W. Wagner. Journal of Food Science.
3967. Effect of Repeat Application of Certain Herbicides on the Stand of Green Sagewort in the Nebraska Sandhills. L. A. Morrow and M. K. McCarty. Journal of Range Management.
3968. Evaluation of Greenbug Resistance in S₂ Progenies of Grain Sorghum. K. D. Kofoid, W. M. Ross, H. L. Hackerott, T. L. Harvey and S. D. Kindler. Crop Science.
3969. Handling, Storage and Land Application of Animal Manure for Maximum Crop Production. T. M. McCalla. Waste Management Conference, Michigan State University, April 2-3, 1975.
3970. Light-Stimulated Toxin Production in Helminthosporium maydis Race T, Cultures. Balwant S. Bhullar and J. M. Daly. Canadian Journal of Botany.

Journal Abstracts (contact authors for more information)

- 75-416. Influence on Human Chorionic Gonadotropin on Calving Rates in Lactating Dairy Cows. L. L. Larson. Journal of Dairy Science.
- 75-417. Comparison of Calcium, Magnesium and Phosphorus Contents of Cultured and Acidified Cottage Cheese and Whey. D. K. Sinha, K. M. Shahani, A. Kilara and R. M. Hill. Journal of Dairy Science.
- 75-418. Inhibitory Effect of Yogurt Components Upon the Proliferation of Ascites Tumor Cells. R. E. Farmer, K. M. Shahani and G. V. Reddy. Journal of Dairy Science.
- 75-419. Vitamin-B Content of Cultured and Acidified Sour Cream. A. M. Joe, K. M. Shahani and A. Kilara. Journal of Dairy Science.
- 75-420. Affinity Chromatography as a Tool for the Isolation of Milk Phosphatase. Y. Kuzuya, A. Kilara, F. W. Wagner and K. M. Shahani. Journal of Dairy Science.

BULLETINS PRINTED

- SB 519. Vegetable Gardening in Nebraska. R. E. Neild.
- RB 268. Survival Factors of Plant Pathogenic Bacteria. M. L. Schuster and D. P. Coyne.
- RB 269. A Rate/Cost Analysis of Nebraska Meat Trucking Activities with Livestock Trucking Cost Comparisons. Dale G. Anderson and Wayne W. Budt.
- OTC 167. Millet Variety Tests 1974. L. A. Nelson.