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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. 9, No. 12, June 1977

FROM THE DIRECTOR'S DESK

Information Retrieval

DIALOG--A new service: The Current Research Information System (CRIS) is now available on-line through Lockheed DIALOG. Technical data from some 24,000 projects are available in this system, which can be accessed from any location in the United States. CRIS on-line contains the same information as the USDA-CRIS master file except for financial and manpower information.

Here at Nebraska, this service is available through C. Y. Thompson Library. The cost is \$40 per hour for on-line searching, and 10 cents for each project description printed off-line, to be paid by the user.

The principal advantage of DIALOG over the present service through CSRS is speed. If speed is not a consideration you will probably not be interested. For further information please call Mr. Wayne Collings in C. Y. Thompson Library.

In the meantime CRIS is available as usual: It can provide you with the name of the principal investigator, performing institution, department, title, objectives, plan of work, current progress, and publications for any project in the system. Included in the bank are projects from ARS, FS, ERS, FCS, CSRS, and SRS, from the USDA, and from 53 State Agricultural Experiment Stations and 25 other cooperating state institutions. To request this free service, you need CSRS form AD 427; call us if you need one. We request that you search CRIS any time that you are writing a new project, or revising an old one. Call us for a leaflet describing CRIS.

Smithsonian Science Information Exchange: A few staff members have used SSIE to retrieve information on research projects. It includes information on more than 200,000 research projects, including more than 30,000 projects in agricultural sciences. The system includes entries relating to agriculture from such organizations as AID, the Department of Interior, and others, as well as the agencies contributing to CRIS. Custom searches as well as information packages are available, on a fee basis. We can provide you with further information.

Additional Terminal Service in C. Y. Thompson Library: Through a special allocation to the C. Y. Thompson Library from the Station a terminal for the retrieval of literature search information will now be available five days per week rather than two days a week as has previously been the case.

Howard W. Ottoson

PERSONNEL ACTIONS

Arthaud, Vincent - Professor, Animal Science - Retirement
Evans, T. A. - Professor, Food Science and Technology - Retirement
Hanway, Donald G. - Professor, Agronomy - Return from Leave of Absence
Gold, Roger - Assoc. Prof., Entomology & Coordinator of Environ. Programs - Appt.
Kerrey, Elinor F. - Asst. Professor, Food and Nutrition - Retirement
Koopmann, Charles - Asst. to Vice Chancellor Business & Finance - Resignation
Round, George S. - Professor, Ag. Communications - Retirement
Rush, Ivan G. - Assoc. Professor, Animal Science - Resignation

GRANTS AND CONTRACTS

Bullerman, L. B. - Food Sci & Tech - Cudahy Foods Co.	3,500
Burnside, O. C. - Agronomy - U. S. Borax Research	700
Christenson, R. K. & D. R. Zimmerman - An. Sci. - USDA, CSRS	78,000
Clanton, D. C. & J. T. Nichols - An. Sci. (NP Sta) - USDA, CSRS	125,000
Farlin, S. D. - An. Sci. - University of Pennsylvania	1,000
Fenster, C. R. - Agronomy (PH Sta) - Rohm & Haas Co.	500
Gilley, J. R. - Ag. Engineering - U of N Foundation	10,000
Haderlie, L. C. - Agronomy - Monsanto Co.	750
Hagen, A. F. - Entomology (PH Sta) - Fisons Corporation	500
Leopold, A. C. - Agronomy - National Soybean Improvement Council	12,000
Moomaw, R. S. - Agronomy (NE Sta) - Shell Chemical Co.	500
Roeth, F. W. - Agronomy (SC Sta) - Chevron Chemical and Shell Chemical Co.	1,300
Steadman, J. R. - Plant Path. - E. I. duPont de Nemours	1,100
Wilson, R. G., Jr. - Agronomy (PH Sta) - U.S. Borax Rsch & Am. Hoechst Co.	1,500
Wilson, R. G., Jr. - Agronomy (PH Sta) - CIBA-Geigy	1,000
Wilson, R. G., Jr. - Agronomy (PH Sta) - Velsicol Chemical	1,500

GENERAL NOTES

1. Dr. Robert Gast will be assuming the Chairmanship of the Department of Agronomy on July 1. We look forward to having him on board. Dr. & Mrs. (Mary Lou) Gast will be residing at 2110 So. 80th Street. Our special thanks to Francis Haskins for a fine performance as Acting Chairman.
2. Sahs sez - The Field Laboratory will lose the services of its longest term employee with the retirement of R. B. York, Staff Assistant, on July 1, 1977. Mr. York became a part of the Experiment Station when we acquired the Field Lab. He has been a highly dedicated and versatile employee serving many valuable functions during the development of this unique facility. We wish him much happiness in his retirement.
3. We would like to add our congratulations to the many others offered Bob Klein of Red Willow County upon his receiving the USDA Superior Service Award.
4. The Department of Veterinary Science has moved into its fine new facilities on the northeast corner of the campus.
5. Schnieder on safety - Going on vacation? A safe car and a careful driver are important ingredients. Alcohol, fatigue, stress or rushing can turn enjoyment into tragedy.
6. The Lancaster County 4-H'ers would like your newspapers in boxed, tied or sacked form turned in to their recycling collection box behind the Champlin Station at Cotner and Holdrege.
7. Tractor Power and Safety Day - Field Laboratory - July 28.

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - May 1977

Journal Articles (contact authors for more information)

5312. Micromorphology of Two Cattle Feedlots. C. R. Berdanier and L. N. Mielke. Soil Science.
5313. Soil Persistence of Corn, Sorghum, and Soybean Herbicides During the Year of Application. O. C. Burnside and M. E. Schultz. Weed Science.
5314. Pea Aphid: Interaction of Insecticides and Alfalfa Varieties. Jones M. Mueke, George R. Manglitz and William Kehr. Journal of Economic Entomology.
5315. Land Appreciation Rates and Economic Justification of Land Values. Glenn A. Helmers and Myles J. Watts. Western Ag. Economics Journal.
5316. Determination of 1000-kernel Weight in Sorghum Bicolor L. Moench. W. M. Ross and K. D. Kofoid. Crop Science.
5317. Characterization of Biological Types of Cattle. VI. Transmitted and Maternal Effects on Birth and Survival Traits in Progeny of Young Cows. David R. Notter, Larry V. Cundiff, Gerald M. Smith, D. B. Laster and Keith E. Gregory. Journal of Animal Science.
5318. Characterization of Biological Types of Cattle. VII. Milk Production in Young Cows and Transmitted and Maternal Effects on Prewaning Growth of Progeny. David R. Notter, Larry V. Cundiff, Gerald M. Smith, D. B. Laster and Keith E. Gregory. Journal of Animal Science.
5319. Turbulent Exchange Coefficients for Sensible Heat and Water Vapor Under Advection Conditions. Shashi B. Verma, Norman J. Rosenberg and Blaine L. Blad. Journal of Applied Meteorology.
5320. Progestogen Implants, GnRH and PGF_{2a} for Estrous Cycle Control in Cattle. John L. Lesmeister and Earl F. Ellington. Proceedings, Western Section, American Society of Animal Science.
5321. Extreme Evapotranspiration by Irrigated Alfalfa: A Consequence of the 1976 Midwestern Drought. Norman J. Rosenberg and Shashi B. Verma. Science.
5322. Production of Penicillic Acid and Patulin by an Atypical Penicillium roqueforti Isolate. F. J. Olivigni and L. B. Bullerman. Applied and Environmental Microbiology.
5323. Reactions of Patulin, Penicillic Acid with Glutathione or Cysteine and Toxicity of the Reaction Adducts. F. Y. Lieu and L. B. Bullerman. Milchwissenschaft.
5324. Imaginary Play Companions of Children. Violet Kalyan-Masih. Paper to Seventh Annual International Interdisciplinary Conference on Piagetian Theory.
5325. Curriculum Structure for Human Development and Interpersonal Relations in Secondary School Home Economics Programs. Shirley Kreutz, Gladys Helm and Sally VanZandt. The Family Coordinator.

Journal Abstracts (contact authors for more information)

- 77-873. Effect of B-Vitamins on In Vitro Wheat Fermentation. G. B. Huntington, R. A. Britton and M. K. Nielsen. *Journal of Animal Science*.
- 77-874. Inheritance and Breeding Strategy for White Mold Disease (Sclerotinia sclerotiorum) Resistance and Avoidance in Beans (Phaseolus vulgaris L.). Dermot P. Coyne, J. R. Steadman and Howard Schwartz. *HortScience*.
- 77-875. Changing Grain Sources in a Growing-Finishing Diet. D. M. Danielson, M. E. England and D. S. Pollmann. *Journal of Animal Science*.
- 77-876. Effects of Sodium Levels on Reproductive Performance and Progeny Development in Rats. D. S. Pollmann, T. L. Hanson, E. R. Peo, Jr. and B. D. Moser. *Journal of Animal Science*.
- 77-877. Fat, Choline and Thyroprotein Additions to the Diet of Lactating Swine. W. R. Cast, B. D. Moser, E. R. Peo, Jr. and P. J. Cunningham. *Journal of Animal Science*.
- 77-878. Effect of Energy Source Prior to Parturition and During Lactation on Milk Lipids, Piglet Survival and Growth. R. D. Boyd, B. D. Moser, E. R. Peo, Jr. and P. J. Cunningham. *Journal of Animal Science*.
- 77-879. Effect of Energy Source to Parturition and During Lactation on Tissue Lipids, Liver Glycogen and Some Plasma Metabolites in Piglets. R. D. Boyd, B. D. Moser, E. R. Peo, Jr. and P. J. Cunningham. *Journal of Animal Science*.
- 77-880. Starch Digestibility of Mutant Corn Varieties Fed to Rats and Pigs. T. D. Crenshaw, B. D. Moser, E. R. Peo, Jr. and P. J. Cunningham. *Journal of Animal Science*.
- 77-881. Effect of Wilting on the Nutritive Value of Alfalfa Meal. E. R. Peo, Jr., T. Crenshaw, B. D. Moser and P. J. Cunningham (UN-L) and A. L. Livingston, R. E. Knowles and G. Kohlers, USDA, ARS, WRRRL. *Journal of Animal Science*.
- 77-882. Efficacy of Ectiban^R ICI-US, Inc., A Synthetic Pyrethroid, Against Stable Flies and Horn Flies. J. B. Campbell, Jack I. Shugart and David Boxler.
- 77-883. A Pilot Project for Insect Pest Management in Nebraska Feedlots. C. D. McNeal, Jr. and J. B. Campbell.
- 77-884. Evaluation of European Corn Borer (Ostrinia nubilalis (Hubner)) Parasites in Nebraska. D. P. Carpino and R. E. Hill. 32nd Annual Meeting, North Central Branch, Entomological Society of America Cereal Insect Section.

BULLETINS PRINTED

- MP 34. Geographical Distribution of the Known Phyllophaga and Cyclocephala Species in the North Central States. K. S. Pike, R. L. Rivers and Z. B. Mayo.