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THE AGRICULTURAL EXPERIMENT STATION
INSTITUTE OF AGRICULTURE
AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA-LINCOLN 68583



July 1981 Vol. 14 No. 12

Agricultural Experiment Station News

From the Director's Desk

Gudmundsen Sandhills Research Center

The Gudmundsen Sandhills Research Center near Whitman was formally dedicated on June 26. This outstanding resource, made available by Mr. and Mrs. Elmer Gudmundsen through the generous gift of their ranch to the University of Nebraska Foundation, will provide a permanent site for range and livestock research programs in the Sandhills.

It is anticipated that the Gudmundsen Sandhills Research Center also will serve IANR extension and teaching programs.

A multidisciplinary planning committee has been appointed to develop plans for this research location. Persons who have served in this planning effort to date include: Neal Baxter, John Campbell, Donald Clanton, Gene Deutscher, Robert Gast, Gary Hergert, Don Hudson, Donald Huls, James Nichols, Robert Oltjen, Irvin Omtvedt, George Pfeiffer, Patrick Reece, Ivan Rush, Warren Sahs, Charles Strasia, James Stubbendieck, Lavon Sumption, John Ward, and John Weihing. As programs are developed at the center, additional persons may be added to this group. A lay advisory committee of Sandhills ranchers and businessmen will be appointed soon.

An executive committee, consisting of Lavon Sumption, John Weihing and Warren Sahs, has had responsibility for broad policy and management decisions regarding this facility. Dr. Donald Clanton has been designated Program Coordinator, and Michael Knott is the resident Ranch Manager.

Initiating research activity at a new location is both a challenge and an opportunity. The Gudmundsen facility provides IANR with an opportunity to develop new and innovative research programs of importance to the Nebraska Sandhills. The Planning Committee is developing research projects and facilities plans which will allow IANR to make effective use of this outstanding resource.

Except for a small area involved in intensive research on crop production, soil fertility and irrigation research, the Sandhills Agricultural Laboratory leases will not be renewed beyond their expiration at the end of 1981. A negotiated extension of the lease on this small area for an additional three years is pending approval.

Widaman Trust

Distinguished Graduate Assistant Stipends

The Agricultural Experiment Station has awarded seven Widaman Trust Distinguished Graduate Assistant

Stipends to outstanding graduate students for the 1981-82 year. Recipients, and their graduate study areas and thesis topics are:

David J. Foster, Agronomy; Disease resistance to viruses in maize

Romanus G. Monji, Agricultural Economics; Impact of inheritance tax laws and various forms of business organization upon the resultant structure of agriculture

Jimmie Lee Nelssen, Animal Science; Effect of nutrition on the reproductive performance of sows

Thomas McAdam Perring, Entomology; Effects of microenvironment and corn physiology on the population dynamics of the banks grass mite

Nancy E. Pfeiffer, Biochemistry; Investigation of the proteolytic enzymes of soybean root nodules and their role in regulation of the nitrogen fixation process occurring in root nodules

Geraldine Marie Russo, Plant Pathology; Characterization of a major protein found in *Sclerotia of Sclerotinia sclerotiorum* study of the regulation of its synthesis and regradation

John B. Solie, Agricultural Engineering; Application of herbicide subsurface to control weeds and leave residue on the surface to control soil erosion

Experiment Station Advisory Council

Four new members were elected recently to the Experiment Station Advisory Council. They are:

Dale G. Anderson, Professor, Agricultural Economics

Marvin B. Rhodes, Associate Professor, Veterinary Science

Khem M. Shahani, Professor, Food Science and Technology

D. Murray Danielson, Professor, Animal Science, North Platte Station

They will join the following staff to make up the Experiment Station Advisory Council for 1981-82;

Gerald R. Bodman, Associate Professor, Agricultural Engineering - Chairman

Robert A. Olson, Professor, Agronomy

Ralph E. Neild, Professor, Horticulture

John K. Ward, Professor, Animal Science

Eric D. Kerr, Professor, Plant Pathology, Panhandle Station

Sincere thanks goes to the following staff just completing their terms on the Council:

Ray Supalla, Agricultural Economics

Lowell Satterlee, Food Science and Technology

Don Ferguson, Veterinary Science

Leroy Peters, Entomology, South Central Station

**Reorganization of
Science and Education Administration**

ARS, CSRS, and Extension administrators will head their agencies and report to the Director of Science and Education. The NAL will be headed by a Director.

**Roy G. Arnold
Dean and Director**

Experiment Station Letter 1603, dated June 19, 1981, reports the following:

A USDA reorganization was announced by Secretary John R. Block on June 17. SEA has been split into four program agencies: Agricultural Research Service, Cooperative State Research Service, Extension Service, and National Agricultural Library. Block said he decided to delegate greater authority to the administrators of the major science and education programs in an effort to strengthen the effectiveness of these programs and make them more efficient.

Sahs Sez

Update on Integrated Energy Farm, Field Laboratory

1. Landscaping has been completed on the planned farm site.
2. Irrigation is underway using alcohol for two internal combustion engines which power the pumps.
3. Bids on the alcohol building are to be reviewed July 8.

Grants and Contracts

Anderson, B. (Agronomy) - Osler Farms and Philip Geertson	505
Arnold, R. G. (Director's Office) - USDA/SEA/CR	203,947
Bashford, L. L. (Ag Engineering) - Nebraska Energy Office	249,992
Boosalis, M. G. (Plant Pathology) - USDA/SEA	2,000
Brandle, J. R. (Forestry, Fisheries & Wildlife) - Nebraska Railroad Association	2,460
Brink, D. (Animal Science) - A. H. Robins Company	10,000
Bullerman, L. B. (Food Science & Technology) - General Mills, Inc.	1,000
Burnside, O. C. (Agronomy) - Mobil Chemical Company	1,500
Burnside, O. C. (Agronomy) - Velsicol Chemical Company	750
Burnside, O. C. (Agronomy) - Shell Development Company	3,900
Burnside, O. C. (Agronomy) - Stauffer Chemical Company	1,000
Burnside, O. C. (Agronomy) - Rohm and Haas	1,000
Campbell, J. B. (North Platte Station) - ICI Americas, Inc.	500
Campbell, J. B. (North Platte Station) - Dow Chemical Company	1,000
Campbell, J. B. (North Platte Station) - Philips Roxane, Inc.	2,000
Chollet, R. (Ag Biochemistry) - U. S. Department of Energy	50,000
Clanton, D. C. (North Platte Station) - Hoffmann-La Roche Inc.	6,000
Compton, W. A. (Agronomy) - North American Plant Breeders	40
Compton, W. A. (Agronomy) - Pioneer Hi-Bred International, Inc.	40
Compton, W. A. (Agronomy) - Columbiana Seed Company	20
Compton, W. A. (Agronomy) - Northrup King Company	40
Compton, W. A. (Agronomy) - Asgrow Seed Company	40
Compton, W. A. (Agronomy) - DeKalb Ag Research, Inc.	40
Compton, W. A. (Agronomy) - O's Gold Seed Company	20
Compton, W. A. (Agronomy) - O's Seed Company, Ramy Seed Company, Caisse Nationale De Credit Agricole	100
Coyne, D. P. (Horticulture) - Rocky Mountain Bean Dealers Association	4,000
Danielson, D. M. (North Platte Station) - Hoechst-Roussel Pharmaceutical, Inc.	2,000
Deutscher, G. H. (North Platte Station) - American-International Charolais Ass'n.	1,750

Deutscher, G. H. (North Platte Station) - International Minerals & Chemical Corporation	50,000
Dickason, E. A. (Entomology) - FBC Chemical, Inc.	500
Dickason, E. A. (Entomology) - Mobay Chemical Corporation	500
Dickinson, E. O. (Vet Science) - Nebraska SPF Swine Accrediting Agency	583
Dillon, R. (Ag Education) - Nebraska Department of Education	18,557
Dreier, A. F. (Agronomy) - Nebraska Soybean Development Utilization & Marketing Board	49,250
Eisenhauer, D. E. (South Central Station) - Little Blue Natural Resources District	24,106
Eldridge, F. (Animal Science) - American Breeder's Service	1,185
Eldridge, F. (Animal Science) - Lincoln Vet Clinic	40
Fenster, C. R. (Panhandle Station) - Mobay Chemical Corporation	800
Fenster, C. R. (Panhandle Station) - Velsicol Chemical Corporation	750
Fenster, C. R. (Panhandle Station) - American Hoechst Corporation	1,000
Ferguson, D. L. (Vet Science) - Merck and Company, Inc.	12,293
Fischbach, P. E., Splinter, W. E., Thompson, T. L. (Ag Engineering) - MIT	30,500
Flowerday, A. D. (Agronomy) - Olin Corporation	3,840
Flowerday, A. D. (Agronomy) - BASF Wyandotte Corporation	700
Frank, K. (South Central Station) - Dow Chemical Company	2,000
Gold, R. E. (Environmental Programs) - The Dow Chemical Company	1,000
Gustafson, W. A. (Southeast Extension & Research Center) - Cyril Bish	50
Hergert, G. W. (North Platte Station) - Georgia-Pacific Corporation	500
Hergert, G. W. (North Platte Station) - Dow Chemical Company	2,000
Hudson, D. (North Platte Station) - Norden Laboratories	480
Johnson, R. K., Zimmerman, D. R. (Animal Science) - Nebraska Pork Producers Ass'n.	4,500
Johnson, V. A. (Agronomy) - USDA/SEA	40,000
Kelling, C. L. (Vet Science) - Nebraska Pork Producers Association	3,935
Kerr, E. D., Yonts, C. D., Wilson, R. G. (Panhandle Station) - Grower-G. W. Joint Research Committee, Inc.	10,000
Klopfenstein, T. (Animal Science) - Eli Lilly and Company	3,600
Klopfenstein, T. (Animal Science) - Hoffmann-LaRoche Inc.	10,000

Klopfenstein, T. (Animal Science) - Amax Inc.	4,800	Steadman, J. R. (Plant Pathology) - E. I. DuPont deNemours & Company	1,500
Knoche, H. W., Daly, J. M., Gross, M. L. (Ag Biochemistry) - National Science Foundation	31,000	Steadman, J. R. (Plant Pathology) - Rohm and Haas Company	500
Lindgren, D. T. (North Platte Station) - The O. M. Scott & Sons Company	1,000	Stetson, L. E. (Ag Engineering) - Nebraska Energy Office	10,000
Loveday, H. D. (Animal Science) - Houston Livestock Show & Rodeo	500	Sullivan, T. W. (Animal Science) - International Minerals & Chemical Corporation	7,500
Martin, A. R. (Agronomy) - BASF Wyandotte Corporation	600	Torres-Medina, A. (Vet Science) - World Health Organization	15,000
Martin, A. R. (Agronomy) - Stauffer Chemical Company	1,500	Vogel, K. P. (Agronomy) - Anna H. Elliott Fund	6,500
Martin, A. R. (Agronomy) - 3M Company	500	Waller, S. S. (Agronomy) - Webster County Natural Resources	675
Martin, A. R. (Agronomy) - North Dakota State/Old West Regional Commission	15,928	Watkins, J. E. (Plant Pathology) - Rohm and Haas	500
Mayo, Z. B. (Entomology), Witkowski, J. (Northeast Station) - Dow Chemical Company	11,000	Watkins, J. E. (Plant Pathology) - Ciba-Geigy	500
Mayo, Z. B. (Entomology) - Dow Chemical Company	2,000	Wicks, G. A. (North Platte Station) - Chevron Chemical Company	1,250
Mayo, Z. B. (Entomology) - Mobil Chemical Company	1,500	Wicks, G. A. (North Platte Station) - E. I. DuPont de Nemours & Company	1,000
Moomaw, R. (Northeast Station) - Mobil Chemical	600	Wicks, G. A. (North Platte Station) - Monsanto Agricultural Products Company	750
Moomaw, R. (Northeast Station) - Shell Development Company	1,250	Wicks, G. A. (North Platte Station) - Shell Development Company	5,000
Moomaw, R. (Northeast Station) - Monsanto	1,000	Wilson, R. G. (Panhandle Station) - Rocky Mountain Bean Dealers Association	1,500
Moomaw, R. (Northeast Station) - American Hoechst Corporation	1,000	Wilson, R. G. (Panhandle Station) - Velsicol Chemical Corporation	1,000
Moomaw, R. (Northeast Station) - Uniroyal	1,000	Wilson, R. G. (Panhandle Station) - BASF Wyandotte Corporation	1,000
Moomaw, R. (Northeast Station) - 3M	500	Wilson, R. G. (Panhandle Station) - Rohm and Haas Company	500
Moomaw, R. (Northeast Station) - Dow Chemical Company	250	Wilson, R. G. (Panhandle Station) - The Dow Chemical Company	500
Partridge, J. E. (Plant Pathology) - Stauffer Chemical Company	15,000	Wilson, R. G. (Panhandle Station) - E. I. DuPont de Nemours & Company	770
Penas, E. J. (Southeast Extension & Research Center) - Dow Chemical Company	1,000	Wilson, R. G. (Panhandle Station) - Monsanto Company	1,750
Peo, E. R. (Animal Science) - Crows Hybrid Corn Company	19,900	Wilson, R. G. (Panhandle Station) - FBC Chemicals, Inc.	1,000
Peters, L. L. (South Central Station) - Dow Chemical Company	1,250	Wilson, R. G. (Panhandle Station) - Nor-Am Ag. Products Inc.	500
Rhodes, M. B. (Vet Science) - A. V. L. Inc.	65	Wilson, R. G. (Panhandle Station) - American Hoechst Corporation	1,500
Rhodes, M. B. (Vet Science) - Nebraska Pork Producers Association	5,000	Wilson, R. G. (Panhandle Station) - Agricultural Products Company	500
Roeth, F. W. (South Central Station) - Shell Chemical Company	650	Wilson, R. G. (Panhandle Station) - Uniroyal	1,000
Roeth, F. W. (South Central Station) - Rohm and Haas Company	250	Witkowski, J. (Northeast Station) - Shell Development Company	300
Roeth, F. W. (South Central Station) - Stauffer Chemical Company	1,200	Witkowski, J. (Northeast Station) - Chevron Chemical Company	750
Sander, D. H. (Agronomy), Rehm, G. W. (Northeast Station) - Potash and Phosphate Institute	6,840	Witkowski, J. (Northeast Station) - Dow Chemical Company	1,500
Schneider, N. R. (Vet Science) - Nebraska Pork Producers Association	2,000	Witmuss, H. D. (Ag Engineering) - Eli Lilly and Company	1,500
Schulte, D. (Ag Engineering) - Blount Agribusiness, Donation/Gift	110,000	Woodward, J. (Director's Office) - USDA/SEA/CR	29,059
Schuster, M. L. (Horticulture) - The Popcorn Institute	4,000	Yonts, C. D. (Panhandle Station) - Anna H. Elliott Fund	9,170
Shearman, R. C. (Horticulture) - E. I. DuPont deNemours & Company	500		

Journal Articles - Submitted for Publication (contact authors for more information)

6137. Soil Loss and Sediment Produced from an Area of Severely Eroded Loessal Soil in Southeastern Nebraska. D. T. Lewis and M. J. Lepele. *Journal of Soil and Water Conservation*.
6138. Anthelmintic Activity of Albendazole Premix Against Adult *Metastrongylus apri* in Swine. D. L. Ferguson. *Journal of Parasitology*.
6139. The Rediscovery of Faith and Hope in Dealing with Crises. Barbara Chesser. *Journal of Orthopsychiatry*.
6140. Systems of Fallowing for Winter Wheat in Western Nebraska. C. R. Fenster and G. A. Wicks. *Agronomy Journal*.
6141. Indirect Solid-Phase Microradioimmunoassay for Detection of *Ascaris suum* Antibodies in Swine Sera. M. B. Rhodes, L. A. Staudinger and R. A. Hart. *American Journal of Veterinary Research*. v42 (5):868-870, 1981.
6142. Antitumor Component(s) of Yogurt. I. Fractionation. A. D. Ayebo, K. M. Shahani and R. Dam. *Journal of Dairy Science*.
6143. Performance of Blends of Short, Medium, and Tall Sorghum. H. J. Gorz and F. A. Haskins. *Crop Science*.
6144. Windbreaks and Crops. S. N. Ogbuehi. *Crops and Soils Magazine*.
6145. Niacin/Pantothenic Acid/Protein Interrelationships Affecting the Nutritive Values of Winter Wheat for Humans. B. Unver, C. Kies and H. M. Fox. *Nutrition Reports International*.
6146. Moisture Storage, Water Use and Corn Yields for Seven Tillage Systems Under Water Stress. Howard Wittmuss and Attila Yazar. *Proceedings of ASAE Conference*.
6147. Effects of Relative Planting Dates in Bean (*Phaseolus vulgaris* L.) and Maize (*Zea mays* L.) Associated Cropping Systems. C. A. Francis, Martin Prager and Gerardo Tejada. *Field Crops Research - Netherlands*.
6148. Transformation of *Pseudomonas syringae* with Non-conjugative R-factor Plasmids. Dennis C. Gross and Anne K. Vidaver. *Canadian Journal of Microbiology*.
6149. Irrigation Management - Energy. James R. Gilley, Dale F. Heerman and LaVerne E. Stetson. *Proceedings, Second National Irrigation Symposium*.
6150. The Role of Microclimate in Energy Use Efficiency. James R. Brandle. *Proceedings: Tree Crops for Energy Production on Farms*.
6151. A Search for Genetic Markers Linked to the m_2 Locus in Soybeans. J. W. Keaschall, J. E. Specht and J. H. Williams. *Crop Science*.
6152. Population Dynamics of the Stable Fly, *Stomoxys calcitrans* (L.) Under Field Conditions. R. L. Rasmussen and J. B. Campbell. *Environmental Entomology*.
6153. Heat-Induced Gelation and Protein-Protein Interaction of Actomyosin. J. C. Acton, M. A. Hanna and L. D. Satterlee. *Food Biochemistry*.

6154. Fuel Alcohol Production from Waste Materials. B. A. Friend and K. M. Shahani. Chapter in impending book entitled "Fuels from Agricultural Products."
6155. Maize (*Zea mays* L.) and Bush Bean (*Phaseolus vulgaris* L.) Density Interactions in Tropical Intercropping Systems. C. A. Francis, M. Prager and G. Tejada. Field Crops Research.
6156. Effect of Herbicide and Manure Applications on Root Rot and Growth of Fieldbeans (*Phaseolus vulgaris*). L. S. Quakenbush and R. G. Wilson. Weed Science.
6157. The Nebraska Farm Accident Example 1970-1979. Rollin D. Schnieder. ASAE Winter Meeting Proceedings, 1980.
6158. A Review of a 1972 Safety Research Needs Study. Rollin D. Schnieder. ASAE Winter Meeting Proceedings, 1980.
6159. Effect of Item Arrangement, Knowledge of Arrangement, and Test Anxiety on Two Scoring Methods. Barbara S. Plake, Patricia Thompson and Stephen R. Lowry. Journal of Experimental Education.
6160. Biological Aspects of Iron in Plants. R. B. Clark, J. C. Brown, R. A. Olsen and J. H. Bennett. Iron Document for EPA.
6161. Hydrocyanic Acid Potential of Sorghum Seedlings Grown Under Two Radiation Levels. F. A. Haskins, H. J. Gorz and R. B. Clark. Crop Science.
6162. Reducing the Incidence of Short Estrous Cycles in Beef Cows with Norgestomet. J. A. Ramirez-Godinez, G. H. Kiracofe, R. M. McKee, R. R. Schalles and R. J. Kittok. Theriogenology.
6163. Changing Weed Problems with Conservation Tillage. O. C. Burnside. Transactions of the American Society of Agricultural Engineers.
6164. Pesticide Application Methodology. Leonard L. Bashford. Proceedings for the Colorado Crop Protection Institute. 10th Annual Proceedings, November 12-13, 1980.
6165. Distribution of a Barley Stripe Mosaic Virus-Precipitating Lectin on Purified Virus Particles. L. Giunchedi and W. G. Langenberg. Journal of General Virology.
6166. Evaluation of Fungicides for Control of Blackspot, 1980. J. A. Houfek, J. E. Watkins and D. H. Steinegger. Fungicide & Nematicide Tests.
6167. Fungicide Control of Leaf Rust & Tan Spot of Winter Wheat, 1980. J. E. Watkins and B. L. Doupnik, Jr. Fungicide & Nematicide Tests.
6168. Control of Stem Rust on a Kentucky Bluegrass Turf, 1980. J. E. Watkins, J. A. Houfek and R. C. Shearman. Fungicide & Nematicide Tests.
6169. Spotted Alfalfa Aphid (*Therioaphis maculata* (Buckton)): Water Stress Amino Acid Content, and Plant Resistance. Nancy E. Lorenz DeVries and George R. Manglitz. Journal of Kansas Entomological Society.

6170. An Unusual Large Subunit Multiple Polypeptide Composition of Perennial Ryegrass Ribulosebisphosphate Carboxylase/Oxygenase. Sarjit Johal and Raymond Chollet. FEBS Letters. v124 (1):75-78, February, 1981.
6171. Silicone Additive Facilitates Epoxy Plastic Sectioning. Willem G. Langenberg. Stain Technology.
6172. Reactions of Identity of a Barley Stripe Mosaic Virus-Precipitating Lectin Isolated from Wheat, Rye and Barley. W. G. Langenberg and L. Giunchedi. Biochemica et Biophysica Acta.
6173. Divergent Selection for Hydrocyanic Acid Potential in Sudangrass. H. J. Gorz, F. A. Haskins and K. P. Vogel. Crop Science.
6174. A Wet-Harvested Spore is Not a Native Spore. Kenneth W. Nickerson, Shelby N. Freer and James L. Van Etten. Experimental Mycology.
6175. Characterization of Biological Types of Cattle (Cycle II): V. Carcass Wholesale Cut Composition. R. M. Koch, M. E. Dikeman and L. V. Cundiff. Journal of Animal Science.
6176. Labor Time Analysis: Type A Versus A La Carte Meal Service in a Public School System. Marie E. Knickrehm, Rebecca Jo McConnell and Claire Anne Tunkel Berg. School Food Service Research Review.
6177. Use of a Diastase Enzyme Pre-Treatment for Determining Cell Wall Constituents in Corn and Sorghum Silages. D. H. Smith, G. C. Marten and R. A. Britton.
6178. Evidence for a Functional ATP-Citrate Lyase:NADP-Malic Dehydrogenase Pathway in Bovine Adipose Tissue: Enzyme and Metabolite Levels. Stephen B. Smith and Ronald L. Prior.
6179. Metabolic Pathways Involved in Lipogenesis from Lactate and Acetate in Bovine Adipose Tissue: Effects of Metabolic Inhibitors. Ronald L. Prior, Stephen B. Smith and J. J. Jacobson.
6180. Comparison of Ribosomal Proteins of Filamentous Fungi by Gel Electrophoresis and Immunochemical Cross-Reactions. J. E. Partridge, P. C. Entrekin and M. R. Marshall. Phytopathology.
6181. Enzymic and Physicochemical Characterization of Ribulose 1,5-Bisphosphate Carboxylase/Oxygenase from Diploid and Tetraploid Cultivars of Perennial Ryegrass. Joan M. Rejda, Sarjit Johal and Raymond Chollet. Archives of Biochemistry and Biophysics.
6182. Antitumor Component(s) of Yogurt. II. Purification and Properties. A. D. Ayebo, K. M. Shahani and R. Dam. Journal of Dairy Science.
6183. Developing Hybrids of Corn and Sorghum for Future Cropping Systems. Charles A. Francis. American Seed Trade Assn.
6184. A Comparison of Wicking Rates of Soft Braid Nylon Rope for Glyphosate and 2,4-D. William E. Lueschen, John D. Furrer and Alex R. Martin. North Central Weed Control Conference.

6185. Effectiveness of Glyphosate and 2,4-D for Controlling Sunflower, Kochia and Velvetleaf in Soybeans with New Generation Applicators. William E. Lueschen, Alex R. Martin and John D. Furrer. North Central Weed Control Conference.
6186. Screening Phytopathogenic Pseudomonads for a Double-stranded RNA Modification and Restriction System. Diane A. Cuppels, James L. Van Etten, Pat Lambrecht and Anne K. Vidaver. Current Microbiology.
6187. Immunochemical Identification of *Fusarium monliforme* Ribosomes from Diseased Corn (*Zea mays* L.) Stalk Tissue. Michael R. Marshall and J. E. Partridge. Physiological Plant Pathology.
6188. Protecting Corn from Herbicides Injury with R-25788. A. R. Martin and O. C. Burnside. Agronomy Journal.
6189. Genetics of Ovule Number, Seed Number Per Pod, Seed Weight and Association with Several Traits in Dry Edible Bean (*Phaseolus vulgaris* L.) Crosses and Implications in Breeding. Faisal A. Al-Mukhtar and Dermot P. Coyne. Journal of the American Society of Horticultural Science.
6190. Inheritance and Linkage of Flower Color, Pod Color, Pod Tip Shape, Days to First Flower, and Maturity in Dry Bean (*Phaseolus vulgaris* L.) Crosses. Faisal A. Al-Mukhtar and Dermot P. Coyne. Journal of the American Society of Horticultural Science.
6191. Effects of Water Stress Preconditioning on Net Carbon Exchange of Grain Sorghum. J. M. Bennett and C. Y. Sullivan. Photosynthetica.
6192. Standard Tests to Characterize Pest Resistance in Alfalfa Cultivars. W. R. Kehr. Insects and Diseases are Involved.
6193. Characterization of Biological Types of Cattle (Cycle III): III. Carcass Composition, Quality and Palatability. R. M. Koch, M. E. Dikeman and J. D. Crouse. Journal of Animal Science.
6194. Cyanogenesis in Dhurrin-Containing Forage Grasses. H. J. Gorz, F. A. Haskins and K. P. Vogel. Proceedings of the XIV International Grassland Congress.
6195. Loneliness Among Mexican American Migrant Children. Barbara Chesser and Dania Inguanzo. Social Science Quarterly.
6196. A State Soil For Nebraska. D. T. Lewis. Soil and Water Conservation.
6197. Relationship Between Training Methods and Labor Turnover. Marie E. Knickrehm and Cheryl S. Davis. Journal of the American Dietetic Association.
6198. Factors Affecting Puffing and Sensory Characteristics of Extruded Egg Products. G. W. Froning, Jane Clegg and Carol Long. Poultry Science Journal.
6199. Tractor Modification for Paraplegics. Leonard L. Bashford. 1980 Winter Meeting, American Society of Agricultural Engineers.
6200. Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase: Enzymic, Physicochemical and Nutritional Properties. Sarjit Johal and Raymond Chollet. What's New in Plant Physiology. vii (12);45-48, 1980.

6201. Canonical Correlation Analysis for Evaluating the Impact of Atmospheric Conditions on Feedlot Cattle Performance. Robert C. Balling, Jr. Canadian Journal of Animal Science.
6202. Drying Scheduling - A Procedure for Layer Filling Low-Temperature Corn Drying Systems. R. O. Pierce and T. L. Thompson. Transactions of the ASAE.
6203. Evaluation, Variation and Genetic Control of Seed-Coat Whiteness in Dry Beans (*Phaseolus vulgaris* L.). Safi S. Korban, Dermot P. Coyne and John L. Weihing. Journal of the American Society of Horticultural Science.
6204. Rate of Water Uptake and Sites of Water Entry in Seeds of Different Cultivars of Dry Beans (*Phaseolus vulgaris* L.). Safi S. Korban, Dermot P. Coyne and John L. Weihing. HortScience.
6205. Heritability Estimates for Caryopsis Weight, Seedling Weight, and First Year Forage Yield in Sand Bluestem (*Andropogon hallii*). K. L. Glewen and K. P. Vogel. Crop Science.
6206. Responses of Sorghum and Corn to Limited Irrigation. C. Y. Sullivan, D. G. Watts, D. P. Garrity and R. E. Maurer. Proceedings, 35th Annual Corn and Sorghum Research Conference.
6207. Value and Potential Use of Crop Residues and Byproducts in Dairy Rations. Terry Klopfenstein and Foster G. Owen. Journal of Dairy Science.
6208. A New Bacterium Pathogenic for Beans (*Phaseolus vulgaris* L.). M. L. Schuster, Anne M. Schuster and D. S. Nuland. Ann. Appl. Biol.
6209. Effect of Mechanical Tenderizing and Blade Size on Beef Round Steak Characteristics. Roger W. Mandigo and Dennis G. Olson. Journal of Food Science.
6210. Accelerated Degradation of EPTC in Soils with Prior Exposure to EPTC. T. Obrigawitch, R. G. Wilson, A. R. Martin and F. W. Roeth. Weed Science.
6211. Cytoplasmic Male Sterility and Restriction Endonuclease Analysis of Organelle DNAs in *Sorghum Bicolor*. M. F. Conde, D. R. Pring, K. F. Schertz and W. M. Ross. Crop Science.
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