

Kansas Agricultural Experiment Station Research Reports

Volume 0

Issue 3 *Director's Report (2001-2014)*

Article 10

2002

Director's report of research in Kansas 2001

Kansas State University. Agricultural Experiment Station

Follow this and additional works at: <http://newprairiepress.org/kaesrr>

 Part of the [Other Animal Sciences Commons](#)

Recommended Citation

Kansas State University. Agricultural Experiment Station (2002) "Director's report of research in Kansas 2001," *Kansas Agricultural Experiment Station Research Reports*: Vol. 0: Iss. 3. <https://doi.org/10.4148/2378-5977.3328>

This report is brought to you for free and open access by New Prairie Press. It has been accepted for inclusion in Kansas Agricultural Experiment Station Research Reports by an authorized administrator of New Prairie Press. Copyright 2002 Kansas State University Agricultural Experiment Station and Cooperative Extension Service. Contents of this publication may be freely reproduced for educational purposes. All other rights reserved. Brand names appearing in this publication are for product identification purposes only. K-State Research and Extension is an equal opportunity provider and employer.



Director's report of research in Kansas 2001

Abstract

This report contains the title, author, and publication information for manuscripts published by station scientists. It also contains a list of the research projects that were active during that period and a financial statement for the fiscal year.

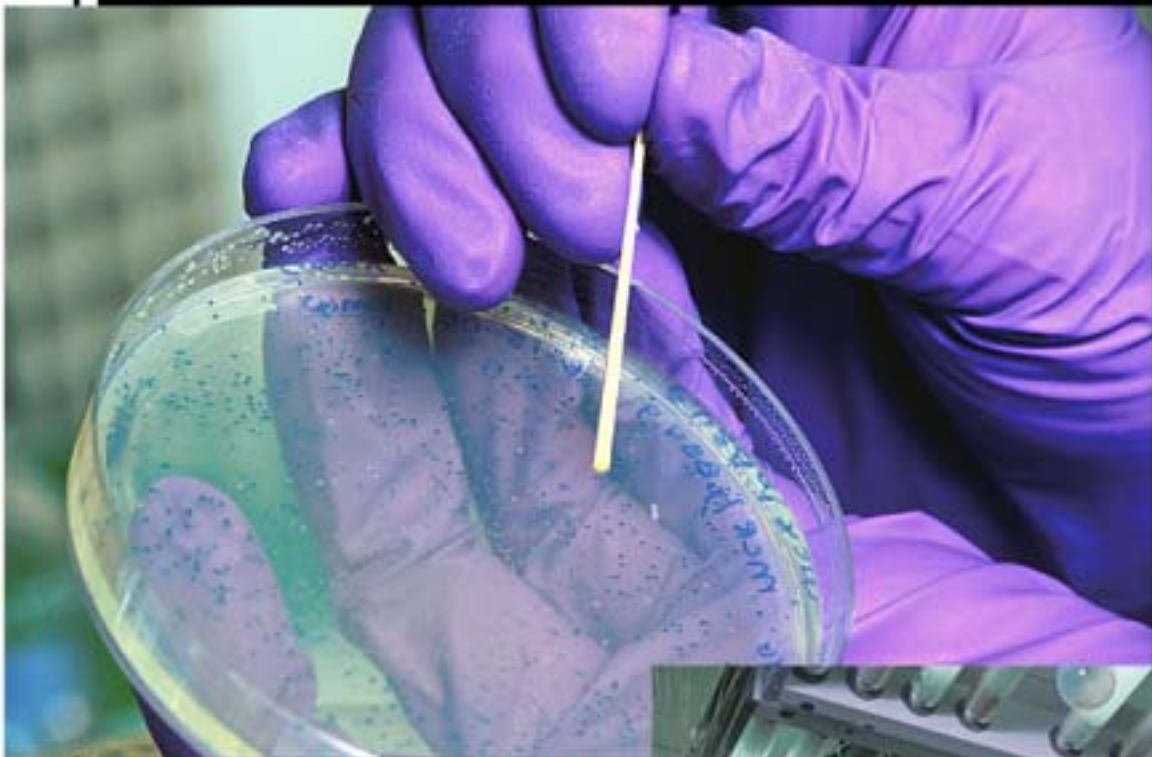
Keywords

Kansas; Agricultural Experiment Station; Research; Publications; Finances; Projects

Creative Commons License



This work is licensed under a [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/).



2001



2001
Director's Report
of Research
in Kansas

July 1, 2000 to June 30, 2001
Agricultural Experiment Station
Kansas State University



Letter of Transmittal

Office of the Director

*To the Honorable William Graves,
Governor of Kansas*

It is my pleasure to transmit herewith the report of the Agricultural Experiment Station of the Kansas State University of Agriculture and Applied Science for the fiscal year ending June 30, 2001. This report contains the title, author, and publication information for manuscripts published by station scientists. It also contains a list of the research projects that were active during that period and a financial statement for the 2001 fiscal year. The report was published only in electronic format.

Marc A. Johnson, Director

A Message from the Director

We are pleased to provide this 2001 Director's Report of Research in Kansas. The report is intended to inform you about our research programs underway and some of our accomplishments for 2001. Agriculture continues to be vitally important to Kansans, and research is vital to maintaining Kansas' place as a leader in agriculture.

Beginning with this issue and in future years, an annual report instead of a biennial report will be produced and distributed in electronic format only. An annual report distributed via the Internet provides information in a more timely fashion, eliminates printing costs, and makes the report accessible to a broader audience. More detailed information about the accomplishments of our research programs are available in the 2001 Annual Report for K-State Research and Extension, which is available on our Web site (<http://www.oznet.ksu.edu>); under Quick Search, insert "2001 Annual Report."



The 2001 Director's Report of Research in Kansas provides a list of departments, centers, and fields; station publications; active K-State Research and Extension projects; commercial grants and contracts; and financial information.

The Agricultural Experiment Station is the research component of K-State Research and Extension. Our research programs provide the latest information used by our extension programs to address issues facing Kansas citizens.

A handwritten signature in black ink, which reads "Marc A. Johnson". The signature is written in a cursive, flowing style.

Marc A. Johnson
Dean and Director
Agricultural Experiment Station

Contents

Research Components	5	15. Food Animal Health and Management Center	27
Station Publications	6	16. Grain Science and Industry	28
Publications of Station Scientists	7	17. Horticulture, Forestry and Recreation Resources	30
1. Agricultural Economics	7	18. Hotel, Restaurant, Institution Management and Dietetics	31
2. Agronomy	9	19. Human Nutrition	32
3. Anatomy and Physiology	13	20. Plant Pathology	33
4. Animal Sciences and Industry	14	21. Sociology, Anthropology and Social Work	34
5. Apparel, Textiles and Interior Design	18	22. Statistics	34
6. Biochemistry	18	23. Agricultural Research Center–Hays	35
7. Biological and Agricultural Engineering	20	24. Northwest Research-Extension Center	36
8. Biology	22	25. Southeast Agricultural Research Center	37
9. Chemical Engineering	23	26. Southwest Research-Extension Center	39
10. Civil Engineering	23	Active Projects	41
11. Communications	24	Financial Statement	53
12. Diagnostic Medicine/Pathobiology	24		
13. Director's Office	25		
14. Entomology	25		

To find publications by a particular scientist, use the Find icon (binoculars) in the Acrobat tool bar in this document, and put the surname in the dialog box. Use Find Again until all relevant publications are found.

To minimize irrelevant items when searching for common names such as Smith or Martin, turn to the page for the scientist's department (or use the department's bookmark) to start your search.

Research Components of the Kansas State University Agricultural Experiment Station and Cooperative Extension Service

K-State Research and Extension

Agricultural Economics

Agronomy

provides soil testing service

Animal Sciences and Industry

includes International Meat and Livestock Program

provides chemical analyses of feedstuffs

Communications

includes Weather Data Library

Entomology

provides scanning electron microscope service

Grain Science and Industry

includes International Grains Program and

Food and Feed Grains Institute

Horticulture, Forestry and Recreation Resources

Plant Pathology

includes Wheat Genetics Resource Center and the

Plant Biotechnology Center

College of Arts and Sciences

Biochemistry

Biology

provides plant identification service

Sociology, Anthropology and Social Work

Statistics

provides statistical consultation and assistance

College of Engineering

Biological and Agricultural Engineering

Chemical Engineering

Civil Engineering

College of Human Ecology

Apparel, Textiles and Interior Design

Hotel, Restaurant, Institution Management and Dietetics

Human Nutrition

includes Sensory Analysis Center

School of Family Studies and Human Services

College of Veterinary Medicine

Anatomy and Physiology

Diagnostic Medicine/Pathobiology

Food Animal Health and Management Center

Research Centers

Agricultural Research Center–Hays

Horticulture and Forestry Research-Extension Center

John C. Pair Horticultural Center

Northwest Research-Extension Center

Southeast Agricultural Research Center

Southwest Research-Extension Center

Experiment Fields (see map, pg. 54)

East Central●

Harvey County●

Irrigation●▼

Kansas River Valley●▼

Cornbelt●

North Central●

Pecan Field■

Sandyland●▼

South Central●

South Central Annex●

● Agronomy

▼ Biological and Agricultural Engineering

■ Horticulture

Station Publications

Reports of Progress

- SRP 857 2000 Kansas Performance Tests with Winter Wheat Varieties
- SRP 858 Swine Day 2000
- SRP 859 2000 Evaluation of Postharvest Life of Selected Fresh-Cut Flowers and Greenery
- SRP 860 2000 Kansas Performance Tests with Corn Hybrids
- SRP 861 Dairy Day 2000
- SRP 862 2000 Great Plains Canola Research
- SRP 863 Seasonal Avian Use of Farmed Kansas Wetlands
- SRP 864 1999 Production and Postharvest Evaluations of Fresh-Cut Peonies
- SRP 865 2000 Kansas Performance Tests with Grain Sorghum Hybrids
- SRP 866 2000 Production and Postharvest Evaluations of Fresh-Cut Peonies
- SRP 867 2001 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
- SRP 868 Kansas Fertilizer Research 2000
- SRP 869 2000 Kansas Performance Tests with Soybean Varieties
- SRP 870 2000 Kansas Performance Tests with Alfalfa Varieties
- SRP 871 2000 Kansas Performance Tests with Sunflower Hybrids
- SRP 872 2000 Kansas Performance Tests with Summer Annual Forages
- SRP 873 2001 Cattlemen's Day
- SRP 874 Survey of Kansas Wild Turkey Hunters: Experiences, Opinions, and Satisfaction
- SRP 875 2001 Agricultural Research Southeast Agricultural Research Center
- SRP 876 Field Research 2001 Agronomy Experiment Fields
- SRP 877 Field Day 2001 Southwest Research-Extension Center
- SRP 878 2001 Turfgrass Research

Keeping Up With Research

- SRL127 Response of Bt Corn to Simulated Hail Damage
- SRL128 Performance of Wheat Variety Blends in Kansas
- SRL129 Effects of Alfalfa on Wheat Establishment
- SRL130 Grain Quality Components of Corn Hybrids
- SRL131 Late Emergence Effects on Agronomic Characteristics of Wheat

Bulletin

- SB663 A History of the Agricultural Research Center—Hays The First 100 Years

Special Publications

Agricultural Research in Kansas: Fortieth Biennial Report of the Agricultural Experiment Station, 1998-2000 (Electronic only)

An Annotated Chronology of Research Highlights at the Agricultural Research Center-Hays 100th Anniversary

Suffix Letters

for Contribution Numbers (pages 7-40)

- A** Proceedings of Meeting or Symposium
- B** Book or Chapter for Book
- C** Computer Program
- D** Department Report
- E** Extension Publication (co-authored by a KAES researcher but funded separately or published externally as education material) or research by an employee with an extension appointment to be published in a refereed journal.
- J** Journal
- S** Station Publication: Report of Progress, Keeping Up With Research, Special Publications, and Bulletins
- T** Trade Publication

Categories are based on information received before manuscripts are published. Place of publication sometimes changes later. Numbers are deleted if authors cannot supply publication data.

Station publications are available on the World Wide Web at <http://www.oznet.ksu.edu/library/>. Department Reports are available only from the appropriate department office. Copies of journal articles or other outside publications must be obtained from the authors.

Publications of Station Scientists (By Department and Station Contribution Number)

Agricultural Economics

- 96-193-J CVM-X: Calibrating Contingent Values with Experimental Auction Markets
J.A. Fox, J.F. Shogren, D.J. Hayes, and J.B. Kliebenstein
Am. J. Ag. Econ. 80:455-465, 1998
- 98-121-J Quantitative Assessment and the Adoption of Improved Rice Varieties in Casamance, Senegal: The Farmer's Perspective
S. Sall, D. Norman, and A. Featherstone
Agric. Systems 66:129-144, 2000
- 98-351-J Productive Efficiency and Growth Policies for the Caribbean
P. Lall, A.M. Featherstone, and D.W. Norman
Appl. Econ. 32:198-207, 2000
- 99-94-J Women Accessing Agricultural Credit: The Rural Farmers Scheme, Uganda
B. Abaru, D. Norman, and A. Featherstone
Proc. of 23rd Inter. Conf. of Ag. Economists
Sacramento, CA, 1997
- 99-420-J Utilization of Preventive Medical Services in the United States: A Comparison between Rural and Urban Populations
P. Zhang, G. Tao, and K.L. Irwin
J. Rural Health 16:349-356, 2000
- 00-145-J Value of Increased Pricing Accuracy in Fed Cattle
T.C. Schroeder and J.L. Graff
Rev. Agric. Econ. 22:89-101, 2000
- 00-159-J Marketing Issues with Hydroponic Tomatoes
D. Coltrain and M. Boland
Agric. Econ. Dept. Rep. (Staff Pap. 00-02):1-16, 2000
(available from dept. only)
- 00-357-J Price-Weight Relationships for Feeder Cattle
K.C. Dhuyvetter and T.C. Schroeder
Can. J. Agric. Econ. 48:299-310, 2000
- 00-445-J Economics of Increasing Lysine: Calorie Ration and Dietary Fat Addition for Growing-Finishing Pigs Reared in a Commercial Environment
M. De La Llata, S.S. Dritiz, M.R. Langemeier, M.D. Tokach, R.D. Goodband, and J.L. Nelssen
J. Swine Health and Prod. 9(5):215-223, 2001
- 00-455-J Management Implications of Farm Tractor Depreciation Methods
T.J. Dumler, R.O. Burton Jr., and T.L. Kastens
2000 J. ASFMRA 63:3-10, 2000
- 00-470-D Profitability and Risk Measures for Investor-Owned Firms
C. Freberg, M. Boland, and D. Barton
Agric. Econ. Dept. Rep. (Staff Pap. 00-07):1-52, 2000
(available from dept. only)
- 00-478-D Summary of Data and Company Information for 220 Investor-Owned Firms and Cooperatives
C. Freberg, M. Boland, and D. Barton
Agric. Econ. Dept. Rep. (Staff Pap. 00-09):1-23, 2000
(available from dept. only)
- 00-493-J Identifying Economic Risk in Cattle Feeding
D.R. Mark, T.C. Schroeder, and R. Jones
J. Agribus. 18:331-344, 2000
- 01-6-D Impact of Higher Oil Prices on Production Costs for Kansas Farm Management Association Farms
J.R. Williams and F.D. DeLano
Agric. Econ. Dept. Rep. (Staff Pap. 01-01):1-20, 2000
(available from dept. only)
- 01-10-J Determining Socially Optimal Nitrogen Application Rates Using a Delayed Response Model: The Case of Irrigated Corn in Western Kansas
E. Nkonya and A.M. Featherstone
J. Agric. Res. Econ. 25:453-467, 2000
- 01-30-J The Economic Impact of Higher Oil Prices on Farm Production Costs in Kansas
J.R. Williams, F.D. DeLano, and T.D. Aller
2001 J. ASFMRA 64:32-38, 2001
- 01-35-D Efficiency and Productivity Measures of Low Income Countries: Implications for Development
S. Tubene, D. Norman, and A. Featherstone
Agric. Econ. Dept. Rep. (Res. Rep. #31): 1-17, 2000
(available from dept. only)
- 01-39-A Institutionalizing the Farming Systems Approach through Time: The Example of the Lake Zone, Tanzania
J.M. Mafuru, T. Schrader, and D.W. Norman
Proc. 16th Symp. Intl. Farming Syst. Assoc. and 4th Symp. Latin Am. Farming Syst. Res. and Ext.
Santiago, Chile, 9, 2000
- 01-40-A Using Canonical Correlation Analysis to Assess Community Participation in, and Management and Sustainability of, Water Utility Projects: The Example of Dodoma and Singida Regr, Tanzania
A.R.M. Kaliba and D.W. Norman
Proc. 16th Symp. Intl. Farming Syst. Assoc. and 4th Symp. Latin Am. Farming Syst. Res. and Ext.
Santiago, Chile, 13, 2000

Publications of Station Scientists

- 01-41-A Developing a Viable Food Production Strategy in a Complex Humanitarian Emergency: The Case of South Sudan
C. Guvele, A. O'Toole Salinas, and D.W. Norman
Proc. 16th Symp. Intl. Farming Syst. Assoc. and 4th Symp. Latin Am. Farming Syst. Res. and Ext.
Santiago, Chile, 1, 2000
- 01-56-D Costs and Benefits of Carcass Antimicrobial Technologies
J.A. Fox and M.A. Boland
Agric. Econ. Dept. Rep. (Res. Rep. #32):1-10, 2000
(available from dept. only)
- 01-63-J Using Farm Consumption Data to Estimate the Intertemporal Elasticity of Substitution and Relative Risk Aversion Coefficients
A.O. Abdulkadri and M.R. Langemeier
Agric. Financ. Res. 60:61-70, 2000
- 01-86-J Macroeconomics and Undergraduate Agricultural Economics
M. Oldfather and B.W. Schurle
Rev. Agric. Econ. 23:458-471, 2001
- 01-129-J Non-Parametric and Semi-Parametric Techniques for Modeling and Simulating Correlated, Non-Normal Price and Yield Distributions: Applications to Risk Analysis in Kansas Agriculture
A.M. Featherstone and T.L. Kastens
J. Agric. and Appl. Econ. 32:267-281, 2000
- 01-130-J Measuring X-Efficiency and Scale Efficiency for a Sample of Agricultural Cooperatives
C.B. Ariyaratne, A. Featherstone, M.R. Langemeier, and D.G. Barton
Agric. and Res. Econ. Rev. 29:453-467, 2000
- 01-162-D What Is Value Added? Opportunities and Strategies
D. Coltrain, D. Barton, and M. Boland
Agric. Econ. Dept. Rep. (Staff Pap. 01-03):1-18, 2001
(available from dept. only)
- 01-178-D Gross Margin Analysis for Sustainable Agriculture Part I: Definitions and Enterprise Analysis
D.W. Norman, R.O. Burton Jr., S.G. Freyenberger, and J. Jost
Published in Sustainable Ag Series, 2000
(available from dept. only)
- 01-192-D Kansas Farm Management Data Bank Documentation
L.N. Langemeier
Agric. Econ. Dept. Rep. (Staff Pap. 01-05):1-102, 2000
(available from dept. only)
- 01-318-S Cattlemen's Day 2001
D.A. Blasi, R.A. Christmas, D.W. Moser, M.E. Dikeman, S.L. Stroda, J.S. Stevenson, B.A. Hensley, T.J. Marple, M.A. Medina-Britos, D.M. Grieger, T.A. Wickersham, R.C. Cochran, J.F. Gleghorn, T.T. Marston, L.E. Wankel, G.L. Kuhl, G.L. Huck, J. Mintert, T.C. Schroeder, T. Marsh, M.F. Spire, J.M. Sargeant, S.K. Tucker, A.M. Richardson, E.J. Pollak, R.D. Green, J. Taylor, S. Davis, T. Holm, S. Koontz, C. Gill, E.A. Westcott, R.J. Lipsey, G.C. Lamb, S.J. Johnson, J.D. Lawrence, M.L. Hayenga, S.I. Paisley, J. Higgins, M.S. Holder, D.E. Kehler, B. Farran, J.J. Sindt, S.P. Montgomery, C. Birkelo, G.L. Stokka, T.G. Rozell, J.R. Brethour, D.O. Yauk, W.V. Welshons, G.E. Rottinghaus, J.L. Davidson, D.E. Kehler, D.V. Dhuyvetter, C.G. Farmer, M.T. Ortega-Valenzuela, R.K. Phebus, H. Thippareddi, J.L. Marsden, C.L. Kastner, D.A. King, T.E. Lawrence, E. Obuz, E.J. Yancey, B.S. Andrews, J.A. Unruh, R.R. Timm, K.A. Hachmeister, L.M. Sammel, A.E. Razor, M.C. Hunt, D.H. Kropf, P.B. Addis, E. Katsanidis, T.H. Montgomery, D.A. Shafer, B.D. Lambert, E.C. Titgemeyer, C.A. Loest, A.M. Trater, J.S. Drouillard, T.B. Farran, C.M. Coetzer, H.J. LaBrune, R.D. Hunter, R.A. Stock, S.B. Laudert, F.K. Brazle, T.J. Kessen, R.T. Ethington, J.N. Pike, and D.L. Lambert
Kans. Agric. Exp. Stn. Rep. Prog. 873, 1-110, January 2001
- 01-325-D A Summary of Results from the Integrated Agricultural Management Systems Survey
D. Bernardo, T. Kastens, K. Dhuyvetter, R. Jones, M. Langemeier, and M. Doane
Agric. Econ. Dept. Rep. (Res. Rep. #33): 1-81, 2001
(available from dept. only)
- 01-347-D A History of the K-MAR-105 Association - Financial Management Systems Designed for Agriculture
L.N. Langemeier
Agric. Econ. Dept. Rep. (Staff Pap. 01-06):1-42, 2001
(available from dept. only)
- 01-379-S 2001 Agricultural Research Southeast Agricultural Research Center
L.W. Lomas, J.L. Moyer, D.W. Sweeney, K.W. Kelley, J.H. Long, R. Jones, C.W. Marr, T. Todd, M. Knapp, S. Staggenborg, F.K. Brazle, G.L. Kilgore, and S. Duncan
Kans. Agric. Exp. Stn. Rep. Prog. 875, 1-70, May 2001
- 01-385-D Differences between New Generation Cooperatives and Traditional Cooperatives
D. Coltrain, D. Barton, and M. Boland
Agric. Econ. Dept. Rep. (Staff Pap. 01-08):1-9, 2001
(available from dept. only)

Publications of Station Scientists

- 01-389-D An Analysis of K-MAR-105 Association's Development of Financial Management Software — 1990-2000
L.N. Langemeier
Agric. Econ. Dept. Rep. (Staff Pap. 01-07):1-42, 2001
(available from dept. only)
- 01-453-D Converting KMAR Machinery Investment Data to a Market Value Series
T. Dumler, T. Kastens, and K. Dhuyvetter
Agric. Econ. Dept. Rep. (Staff Pap. 01-09):1-14, 2001
(available from dept. only)
- 01-460-A The Relationship between Incomes, Farm Characteristics, Cost Efficiencies, and Rate of Return to Capital Managed
J.W. Dunn and J.R. Williams
Agric. Econ. Dept. Rep. (Staff Pap. 01-10):1-38, 2001
(available from dept. only)
Also in the Proc. of the WAEA
- 01-476-D Staff, Programs, and Publications in Agricultural Economics — Kansas State University, 2000
D.L. Foster
Agri. Econ. Dept. Rep. (Staff Pap. 01-11):1-50, 2001
(available from dept. only)

Agronomy

- 96-117-J Predicting Forage Quality in Switchgrass and Big Bluestem
R.B. Mitchell, J.O. Fritz, K.J. Moore, L.E. Moser, K.P. Vogel, and D.D. Redfern
Agron. J. 93:118-124, 2001
- 98-247-J Land-Use Management Using a Soil Survey Geographic Database for Finney County, Kansas
J. Wu, M.D. Ransom, G.J. Kluitenberg, M.D. Nellis, and H.L. Seyler
Soil Sci. Soc. Am. J. 65 (1):169-177, 2001
- 98-280-J Combined Effects of Drought and High Temperature on Water Relations of Wheat and Sorghum
S. Machado and G.M. Paulsen
Plant and Soil 233:179-187, 2001
- 99-14-J Carbon and Nitrogen Dynamics and Microbial Activity in Tallgrass Prairie Exposed to Elevated CO₂ for 8 Years
M.A. Williams, C.W. Rice, and C.E. Owensby
Plant and Soil 227:127-137, 2000
- 99-312-J Allelopathy of Sorghum on Wheat under Several Tillage Systems
C.M. Roth, J.P. Shroyer, and G.M. Paulsen
Agron. J. 92:855-860, 2000
- 99-334-J Control of Green Foxtail, Ivyleaf Morningglory, Kochia, and Velvetleaf in Soybean with Imazamox and Diphenylether Herbicides
R.D. Unland, K. Al-Khatib, and D.E. Peterson
Tran. Kans. Acad. Sci. 103:111-121, 2000
- 99-392-J Registration of Four Genetic Stocks of Sunflower Resistant to Imidazolinone Herbicides
K. Al-Khatib and J.F. Miller
Crop Sci. 40:869-870, 2000
- 99-449-B Infiltration into a New Zealand Native Forest Soil
M.B. Kirkham and B.E. Clothier
In: *A Spectrum of Achievements in Agronomy*. Cynthia Rosenzweig (Ed.)
ASA Special Publication No. 62. Madison, WI, 13-26, 2000
- 99-521-J Comparing Genetic Coefficient Estimation Methods Using the CERES-Maize Model
E. Roman-Paoli, S.M. Welch, and R.L. Vanderlip
Agric. Syst. 65:29-4, 2000
- 00-41-J Evaluation of a Ninhydrin Procedure for Measuring Membrane Thermostability of Wheat
C. Cekic and G.M. Paulsen
Crop Sci. 41:1351-1355, 2001
- 00-96-J Competition for Nitrogen in a Tallgrass Prairie Ecosystem Exposed to Elevated CO₂
M.A. Williams, C.W. Rice, and C.E. Owensby
Soil Sci. Soc. Am. J. 65:340-346, 2001
- 00-105-J Phosphorus, Potassium, Chloride, and Fungicide Effects on Wheat Yield and Leaf Rust Severity,
D.W. Sweeney, G.V. Granade, M.G. Eversmeyer, and D.A. Whitney
J. Plant Nutr. 23(9):1267-1281, 2000
- 00-117-A Efficient Estimation of Genetic Coefficients for Crop Models
S.M. Welch, J. Zhang, N. Sun, and T.-Y. Mak
Proc. 3rd Intl. Symposium on Systems Approaches for Agricultural Development
International Potato Center (CIP), Lima, Peru, CD-ROM, 2000
- 00-131-J Photosynthesis and Stomatal Conductance of the New Zealand Native Tree, *Meryta sinclairii*, Grown Under Two Watering Regimes
M.B. Kirkham, F.M. Kelliher, and J.E. Hunt
New Zeal. J. Bot. 38 (3):515-519, 2000
- 00-151-J Photoperiodic Regulation of Seasonal Diapause Induction in the Field Bindweed Moth *Tyta luctuosa* (Lepidoptera: Noctuidae)
N.W. Miller, J.R. Nechols, M.J. Horak, and T.M. Loughin
Biol. Cont. 19:139-148, 2000

Publications of Station Scientists

- 00-198-J Subsurface Drip Irrigation Using Livestock Wastewater: Dripline Flow Rates
T.P. Trooien, F.R.Lamm, L.R. Stone, M. Alam, D.H. Rogers, G.A. Clark, and A.J. Schlegel
Appl. Engin. in Agric. 16 (5):505-508, 2000
- 00-200-A Effects of Seed Treatment Fungicides on Stand and Yield of Grain Sorghum, 1999
D. Jardine, M. Claassen, J.H. Long, and L. Maddux
Fungicide & Nematicide Tests 55: 458, 2000
- 00-210-T History and Location of Puka
M.B. Kirkham, F.M. Kelliher, and J.E. Hunt
New Zeal. Bot. Soc. Newsletter No. 6 (June), 16-19, 2001
- 00-239-E Are Traditional Extension Methodologies Extinct or Just Endangered?
W.M. Eberle and J.P. Shroyer
J. Nat. Resour. Life Sci. Educ. 29:135-140, 2001
- 00-251-J Towards Site-Specific Design Standards for Animal-Waste Lagoons in the Great Plains: Protecting Groundwater Quality
J.M. Ham
J. Envir. Qual. 29:1721-1732, 2000
- 00-267-J MON 37500 Efficacy as Affected by Rate, Adjuvants, and Carriers
B.L.S. Olson, K. Al-Khatib, P.W. Stahlman, and P.J. Isakson
Weed Tech. 14:750-754, 2000
- 00-284-J Comparative Physical Mapping of the 18S-5.8S-26S rDNA in Three Sorghum Species
Y. Sang and G.H. Liang
Genome 43:918-922, 2000
- 00-295-J Registration of 'Heyne' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1367, 2001
- 00-296-J Registration of 'Betty' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1366, 2001
- 00-297-J Registration of 'Trego' Wheat
T.J. Martin, R.G. Sears, D.L. Seifers, T.L. Harvey, M.D. Witt, A.J. Schlegel, P.J. McCluskey, and J.H. Hatchett
Crop Sci. 41:929-930, 2001
- 00-302-J Registration of 'Wichita' Rapeseed
C.L. Rife, D.L. Auld, H.D. Sunderman, W.F. Heer, D.D. Baltensperger, L.A. Nelson, D.L. Johnson, D. Bordovsky, and H.C. Minor
Crop Sci. 41:263-264, 2001
- 00-308-B Enhanced Disease Resistance in Cereals by Transformation with Genes for Pathogenesis-Related Proteins
S. Muthukrishnan, G.H. Liang, H.N. Trick, and B.S. Gill
Plant Cell, Tissue, and Organ Culture 64:93-144, 2001
- 00-317-J Seed Treatment for Control of Wheat Insect Pests and Its Effect on Yield
G.E. Wilde, R.J. Whitworth, M. Claassen, and R. Shufran
J. Agric. and Urban Entomol. 18:1-11, 2001
- 00-325-J Evapotranspiration in a Prairie Ecosystem: Effects of Grazing by Cattle
D.J. Bremer, L.M. Auen, J.M. Ham, and C.E. Owensby
Agron. J. 93:338-348, 2001
- 00-331-J Improved Evaluation Procedure for Heat-Pulse Soil Water Flux Density Method
G.J. Kluitenberg and A.W. Warrick
Soil Sci. Soc. Am. J. 65(2):320-323, 2001
- 00-353-J Efficacy and Metabolism of MON 37500 in *Triticum aestivum* and Weedy Grass Species as Affected by Temperature and Soil Moisture
B.L.S. Olson, K. Al-Khatib, P.W. Stahlman, and P.J. Isakson
Weed Sci. 48:541-548, 2000
- 00-368-J *Agrobacterium*-Mediated Transformation of Creeping Bentgrass Using GFP as a Reporter Gene
T.T. Yu, D.Z. Skinner, H.N. Trick, B. Huang, S. Muthukrishnan, and G.H. Liang
Hereditas 133:229-233, 2000
- 00-371-A Repellency of Soil Beneath Closed Animal Waste Lagoons
S.M. Liphadzi and M.B. Kirkham
Proc. 15th Conf. International Soil Tillage Research Organization
Fort Worth, Texas, CD-ROM, 2000
- 00-385-J *In Situ* Stabilization of Soil Lead Using Phosphorus
G.M. Hettiarachchi, G.M. Pierzynski, and M.D. Ransom
J. Envir. Qual. 30:1214-1221, 2001
- 00-390-J *In Situ* Stabilization of Soil Lead Using Phosphorus and Manganese Oxide
G.M. Hettiarachchi, G.M. Pierzynski, and M.D. Ransom
Envir. Sci. Tech. 34:4614-4619, 2000

Publications of Station Scientists

- 00-393-J Cytogenetic and Molecular Mapping of the Leaf Rust Resistance Gene Lr39 in Wheat
W.J. Raupp, S. Singh, G.L. Brown-Guedira, and B.S. Gill
Theor. and Appl. Genet. 102:347-352, 2001
- 00-404-J Interference of Palmer amaranth in Corn
R. A. Massinga, R.S. Currie, M.J. Horak, and J. Boyer Jr.
Weed Sci. 49:202-208, 2001
- 00-409-J Glufosinate Efficacy, Absorption, and Translocation in *Amaranthus* Species as Affected by Relative Humidity and Temperature
E. Coetzer, K. Al-Khatib, and T.M. Loughin
Weed Sci. 49:8-13, 2000
- 00-426-J The Use of SDS to Extract Sorghum and Maize Proteins for Free Zone Capillary Electrophoresis (FZCE) Analysis
S.R. Bean, C. Hicks, M. Tuinstra, and G.L. Lookhart
Cereal Chem. 78:84-87, 2001
- 00-438-J Gene Flow, Growth, and Competitiveness of Imazethapyr-Resistant *Helianthus annuus*
M. Marshall, K. Al-Khatib, and T.M. Loughin
Weed Sci. 49:14-21, 2001
- 00-440-J Genetic Gain in Yield Attributes of Winter Wheat in the Great Plains
E. Donmez, R.G. Sears, J.P. Shroyer, and G.M. Paulsen
Crop Sci. 41:1412-1419, 2001
- 00-474-A Using Subsurface Drip Irrigation with Livestock Wastewater
T.P. Trooien, F.R. Lamm, L.R. Stone, M. Alam, D.R. Rogers, G.A. Clark, and A.J. Schlegel
Proc. 4th Decennial Natl. Irrigation Symp, ASAE Publication 701 P0004, 379-384, 2000
- 00-499-J Association of Ethylene Dibromide (EDB) with Mature Cranberry (*Vaccinium macrocarpon*) Fruit
K. Xia and C.W. Rice
J. Agric. and Food Chem. 49:1246-1252, 2001
- 01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties
K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000
- 01-44-A Plant Tolerance to Sandblast Damage
D.V. Armbrust
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 2001
- 01-45-J Effects of Imaziquin and Pendimethalin Alone and Combined on 15 Woody Plant Species
W.A. Geyer and W.H. Fick
Res. Rep. N. Cent. Weed Sci. Soc. 57:79-81, 2000
- 01-48-A Effects of Overwinter Processes on Stability of Dry Soil Aggregates
J. Tatarko, L.E. Wagner, and C.A. Boyce
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 459-462, 2001
- 01-50-A Simulation of Tillage and Other Management Operations in WEPS
L.E. Wagner and F. Fox
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 625-628, 2001
- 01-51-A A Common Plant Growth Model for WEPP and WEPS
A. Retta, L.A. Deer-Ascough, L. Wagner, D.C. Flanagan, and D.V. Armbrust
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 2001
- 01-52-A Validation of the Wind Erosion Prediction System (WEPS) Erosion Submodel on Small Cropland Fields
L.J. Hagen
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 479-482, 2001
- 01-53-J Genetic Analysis of Kafirins and Their Associations with Feed Quality Traits, *in vitro* Digestibility, and Seed Weight in Grain Sorghum
C. Hicks, S. Bean, G. Lookhart, J. Pederson, K. Kofoid, and M.R. Tuinstra
Cereal Chem. 78:412-416, 2001
- 01-61-J Elevated CO₂ Effects on Sorghum Growth and Yield at High and Low Soil Water Contents
M.J. Ottman, B.A. Kimball, P.J. Pinter, G.W. Wall, R.L. Vanderlip, S.W. Leavitt, R.L. LaMorte, A.D. Matthias, and T.J. Brooks
New Phytologist 150:261-273, 2001

Publications of Station Scientists

- 01-67-A Demonstration of the WEP 1.0 Wind Erosion Model
L.E. Wagner and J. Tatarko
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 37, 2001
- 01-68-A WEP 1.0 - What It Is and What It Isn't
L.E. Wagner and J. Tatarko
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 372-373, 2001
- 01-84-A On-Farm Evaluation of Field-Scale Soil Losses by Wind Erosion under Traditional Management in the Sahel
C.L. Biolders, A. Vrieling, J.L. Rajot, and E. Skidmore
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 494-497, 2001
- 01-88-J Genetic Analysis of Seedling Growth under Cold Temperature Stress in Grain Sorghum
J. Yu and M.R. Tuinstra
Crop Sci. 41:1438-1443, 2001
- 01-90-A Soil Moisture Monitoring in the Black Vermillion Watershed and Its Impact on Erosion
P. Barnes, G. Kluitenberg, and J. Ham
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 9-12, 2001
- 01-107-A WEPS and WEPP Science Commonality Project
F. Fox, D. Flanagan, L. Wagner, and L. Deer-Ascough
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 376-379, 2001
- 01-160-J Rooting Front and Water Depletion Depths in Grain Sorghum and Sunflower
L.R. Stone, D.E. Goodrum, M.N. Jaafar, and A.H. Khan
Agron. J. 93:1105-1110, 2001
- 01-163-A Air, Soil, and Water Quality as Influenced by Wind Erosion and Strategies for Mitigation
E.L. Skidmore
Proc. AGRONENVIRON 2000, 2nd Intl. Symp. New Technologies for Environmental Monitoring and Agro-Applications
Tekirday, Turkey, 216-221, 2000
- 01-172-J Photosynthetic Inhibition and Ammonium Accumulation in *Amaranthus palmeri* after Glufosinate Application
E. Coetzer and K. Al-Khatib
Weed Sci. 49:454-459, 2000
- 01-174-S 2000 Kansas Performance Tests with Corn Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kofoid, J. Long, A. Schlegel, M. Witt, M. Claassen, W. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 860, 1-65, October 2000
- 01-176-S Performance of Wheat Variety Blends in Kansas
R.L. Bowden, J.P. Shroyer, K. Roozeboom, M. Claassen, P. Evans, W.B. Gordon, B. Heer, K. Janssen, J. Long, J. Martin, A. Schlegel, R. Sears, and M. Witt
Kans. Agric. Expt. Stn. Keeping Up With Research 128, March 2001
- 01-178-D Gross Margin Analysis for Sustainable Agriculture Part I: Definitions and Enterprise Analysis
D.W. Norman, R.O. Burton Jr., S.G. Freyenberger, and J. Jost
Published in Sustainable Ag Series, 2000
(available from dept. only)
- 01-184-S 2000 Great Plains Canola Research
C.L. Rife, G.W. Warmann, and W.F. Heer
Kans. Agric. Expt. Stn. Rep. Prog. 862, 1-15, December 2000
- 01-221-J A Multiple Index Environmental Quality Evaluation and Management System
S. Thien, S. Starrett, R. Robel, P. Shea, D. Gourlay, and C. Roth
U.S. Golf Assoc. Green Section Record 38:12-18, 2001
- 01-222-S Kansas Performance Tests with Grain Sorghum Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kelley, K. Kofoid, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Exp. Stn. Rep. Prog. 865, 1- 57, November 2000
- 01-230-A Effect of Cropping Sequence and Tillage on Severity of Leaf Diseases on Winter Wheat, 2000
W.W. Bockus and M.M. Claassen
Biol. and Cult. Tests 2001:S27
- 01-240-S 2001 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
D.L. Regehr, D.E. Peterson, P.D. Ohlenbusch, W.H. Fick, P.W. Stahlman, and R.E. Wolf
Kans. Agric. Expt. Stn. Rep. Prog. 867, 1-72, January 2001

Publications of Station Scientists

- 01-247-S Kansas Fertilizer Research 2000
R.E. Lamond, H.D. Bond, M.M. Claassen, S.R. Duncan, D.L. Fjell, R.J. Gehl, H.C. George, C.B. Godsey, W.B. Gordon, K.A. Janssen, G.L. Kilgore, L.D. Maddux, C.W. Marr, V.L. Martin, T.M. Maxwell, J.L. Moyer, B.J. Niehues, C.J. Olsen, G.M. Pierzynski, K. Rector, A.J. Schlegel, J.P. Schmidt, G.J. Schwab, J.P. Shroyer, S.A. Staggenborg, D.W. Sweeney, R.K. Taylor, C.A. Thompson, C.R. Thompson, and D.A. Whitney
Kans. Agric. Expt. Stn. Rep. Prog. 868, 1- 98, January 2001
- 01-255-S 2000 Kansas Performance Tests with Soybean Varieties
W.T. Schapaugh Jr., K.L. Roozeboom, P. Evans, J. Long, A. Schlegel, C. Thompson, M. Witt, M. Claassen, W.B. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 869, 1-43, December 2000
- 01-263-D 2000 National Winter Canola Variety Trial
C.L. Rife, W. Heer, K. Janssen, J. Long, P. Evans, R. Aiken, and M. Witt
Agronomy Dept. Rep., 1-58, 2001
(available from dept. only)
- 01-274-A Effects of Seed Treatment Fungicides on Stand and Yield of Grain Sorghum, 2000
D.J. Jardine, M. Claassen, J.H. Long, and L. Maddux
Fungicide and Nematicide Tests ST28, 2001
- 01-280-S 2000 Kansas Performance Tests with Alfalfa Varieties
K. Roozeboom, P. St. Amand, J. Moyer, M. Witt, W. Heer, W. Gordon, and L. Maddux
Kans. Agric. Expt. Stn. Rep. Prog. 870, 1-12, January 2001
- 01-281-J Success Stories: Breeding for Wheat Disease Resistance in Kansas
W.W. Bockus, J.A. Appel, R.L. Bowden, A.K. Fritz, B.S. Gill, T.J. Martin, R.G. Sears, D.L. Seifers, G.L. Brown-Guedira, and M.G. Eversmeyer
Plant Dis. 85(5) 453-461, 2001
- 01-282-S 2000 Kansas Performance Tests with Sunflower Hybrids
P. Evans, M. Claassen, B. Gordon, W. Heer, and K. Roozeboom
Kans. Agric. Expt. Stn. Rep. Prog. 871, 1- 21, January 2001
- 01-284-S 2000 Kansas Performance Tests with Summer Annual Forages
K. Roozeboom and P. Evans
Kans. Agric. Expt. Stn. Rep. Prog. 872, 1-9, January 2001
- 01-285-S Grain Quality Components of Corn Hybrids
K. Roozeboom and T. Herrman
Kans. Agric. Expt. Stn. Keeping Up With Research 130, January 2001
- 01-303-J Latitudinal and Longitudinal Adaptation of Smooth Bromegrass Populations
M.D. Casler, K.P. Vogel, J.A. Balasko, J.D. Berdahl, D.A. Miller, J.L. Hansen, and J.O. Fritz
Crop Sci. 41:1456-1460, 2001
- 01-305-S Late Emergence Effects on Agronomic Characteristics of Wheat
J.P. Shroyer, D. Wood, G. McClure, B. Creager, K. VanSike, R. Seyfert, B. Broweleit, D. Reed, M. Christian, and T. Maxwell
Kans. Agric. Expt. Stn. Keeping Up With Research 131, February 2001
- 01-311-A Boron Fertilization Effects on Nutritive Parameters of Alfalfa
F.M. Rouquette Jr., V.A. Haby, J.O. Fritz, and M. Collins
Proc. of the XIX International Grassland Congress, 382-384, 2000
- 01-363-J Phylogenetic Analysis and Transformation of Sorghum, *Sorghum bicolor* (L.) Moench
G.H. Liang and Z.S. Gao
Research Signpost
Recent Research Developments in Plant Biology, 17-33, 2001
- 01-368-A Hay-Type Sorghum Cultivars: Historical Trends of Yield and Quality
J.L. Moyer and J.O. Fritz
Proc. of Am. Forage and Grassland Council, 388-392, 2001
- 01-397-S Field Research 2001 Agronomy Experiment Fields
L.E. Maddux, K. Janssen, D.A. Whitney, G.M. Pierzynski, B. Gordon, M.M. Claassen, K.L. Roozeboom, K. Al-Khatib, D.E. Peterson, D.L. Fjell, V.L. Martin, K. McVay, R. Vanderlip, W.F. Heer, C. Rice, G. Wilde, R. Taylor, G.A. Clark, S. Staggenborg, B. Wood, and S.R. Duncan
Kans. Agric. Expt. Stn. Rep. Prog. 876, 1-134, May 2001

Anatomy and Physiology

- 98-90-B Immunology
F. Blecha
In: *Biology of the Domestic Pig*. W.G. Pond and H.J. Mersmann (Eds.)
Cornell University Press, 688-711, 2001
- 99-298-J Spread of Bovine Herpesvirus Type 5 (BHV-5) in the Rabbit Brain after Intranasal Inoculation
B.J. Lee, M.L. Weiss, D. Mosier, and S.I. Chowdhury
J. NeuroVirology 5:474-484, 1999
- 99-408-J Regulation of Cathelicidin Gene Expression: Induction by Lipopolysaccharide, Interleukin-6, Retinoic Acid, and *Salmonella enterica* serovar Typhimurium Infection
H. Wu, G. Zhang, J.E. Minton, C.R. Ross, and F. Blecha
Infect. Immun. 68:5552-5558, 2000

Publications of Station Scientists

- 00-154-J The Estrous Cycle Affects Pseudorabies Virus (PRV) Infection of the Central Nervous System
M.L. Weiss, M.E. Dobbs, P.S. MohanKumar, S.I. Chowdhury, K. Sawrey, R. Guevara-Guzman, and J. Huang
Brain Res. 893:215-226, 2001
- 00-174-J Neuroglandular Synapses in the Pharynx of the Sea Anemone *Aiptasia pallida* (Cnidaria, Anthozoa)
J.A. Westfall, J.D. McCallum, and R.W. Carlin
J. Morph. 247:134-141, 2001
- 00-175-J Immunocytochemical Evidence for Biogenic Amines and Immunogold Labeling of Serotonergic Synapses in Tentacles of *Aiptasia pallida* (Cnidaria, Anthozoa)
J.A. Westfall, S.R. Elliott, P.S. Mohankumar, and R.W. Carlin
Invert. Biol. 119:370-378, 2000
- 00-422-J Inhibition of Enterotoxin-Induced Porcine Colonic Secretion by Diarylsulfonylureas in vitro
E.K. O'Donnell, R.L. Sedlacek, A.K. Singh, and B.D. Schultz
Am. J. Physiol., GI and Liver Physiol. 279:G1104-G1112, 2000
- 00-429-J NH_2 -terminal Modification of a Channel-forming Peptide Increases Capacity for Epithelial Anion Secretion
J.R. Broughman, K.E. Mitchell, R.L. Sedlacek, T. Iwamoto, J.M. Tomich, and B. Schultz
Am. J. Physiol. 280(3):C451-C458, 2001
- 01-26-J Glycosylation Influences Gating and pH Sensitivity at IsK
L. Freeman, K. Mitchell, and J.J. Lippold
J. Membrane Biol. 177:65-79, 2000
- 01-276-J Culture of Epithelial Cells from Porcine Vas Deferens for Ion Transport Studies
R.L. Sedlacek, R.W. Carlin, A.K. Singh, and B.D. Schultz
Am. J. Physiol. & Renal Physiol. 281:7557-7570, 2001
- 99-86-J Detection of Extracellular Cell-Count Proteinase in Different Sized Colonies of EPS-Producing Lactic Acid Bacteria on Skim Milk Agar
T. Pailin, D.H. Kang, D.Y.C. Fung, and K. Schmidt
Letter in Applied Microbiology 33:45-49, 2001
- 99-87-J Comparison of Enrichment Procedures and Plating Media for Isolation of *Yersinia enterocolitica* from Ground Beef and Ground Pork
G.C. Jiang, D.H. Kang, and D.Y.C. Fung
J. Food Prot. 63(11):1483-1486, 2000
- 99-154-J Evaluation of Processes to Enhance Grain and Meat Coproducts
J.Y. Cha, R.A. Flores, and C. Kastner
J. Food Process Engin. 23:353-371, 2000
- 99-314-B Rapid Methods for Detection and Enumeration
P. Entis, D.Y.C. Fung, M.W. Griffiths, L. McIntyre, S. Russell, A.N. Sharpe, and M.L. Tortorello
In: *Compendium of Methods for the Microbiological Examination of Foods*, 4th edition
F.P. Downes and K. Ito (Eds.), APHA, Washington, D.C., 89-126, 2001
- 99-315-B Labor Savings and Automation
D.Y.C. Fung
In: *Compendium of Methods for the Microbiological Examination of Foods*, 4th edition
F.P. Downes and K. Ito (Eds.), APHA, Washington, D.C., 157-158, 2001
- 99-408-J Regulation of Cathelicidin Gene Expression: Induction by Lipopolysaccharide, Interleukin-6, Retinoic Acid and *Salmonella enterica* Serovar Typhimorium Infection
H. Wu, G. Zhang, J.E. Minton, C.R. Ross, and F. Blecha
Infect. Immun. 68:5552-5558, 2000
- 99-435-J Dry-Aging Effects on Palatability of Beef Strip Loins
R.E. Campbell, M.C. Hunt, P. Levis, and E. Chambers IV
J. Food Sci. 66(2):196-199, 2001

Animal Sciences and Industry

- 96-314-J Controlling *Escherichia coli* O157:H7 by *Pedicoccus acidilactici* Stimulated with Growth Factors
D.H. Kang and D.Y.C. Fung
Letter in Applied Microbiology 29:206-210, 1999
- 98-170-J Stimulation of *Pedicoccus acidilactici* to Control *Listeria monocytogenes* in a Laboratory Medium and a Meat System
D.H. Kang and D.Y.C. Fung
J. Food Prot. 63(11):1492-1495, 2000
- 00-6-J Retention of Volatile Flavors in Confections by Extrusion Processing
B.M. Reifsteck and I.J. Jeon
Food Rev. Intl. 16(4):435-452, 2000
- 00-11-J The Influence of Carcass Maturity as Determined by Dentition upon the Tenderness of Longissimus thoracis Steaks from Commercially Fed Cattle
T.E. Lawrence, J.D. Whatley, T.H. Montgomery, L.J. Perino, and M.E. Dikeman
J. Anim. Sci. 79:2092-2096, 2001

Publications of Station Scientists

- 00-16-J A Review of Oestrus Behaviour and Detection in Dairy Cows
J.S. Stevenson
In: *Fertility in the High Producing Dairy Cow*
British Soc. Anim. Sci., Occasional Pub. No 26, Vol. 1, 43-62, 2001
- 00-38-J Reproductive Outcomes of Dairy Heifers Treated with Combinations of Prostaglandin F₂, Norgestomet, and Gonadotropin-Releasing Hormone
J.S. Stevenson, J.F. Smith, and D.W. Hawkins
J. Dairy Sci. 83:2008-2015, 2000
- 00-45-J Feeding Management during Sow Lactation
S.S. Dritz, M.D. Tokach, R.D. Goodband, and J.L. Nelssen
Comp. Cont. Educ. Pract. Vet. 22(9):s126-s131, 2000
- 00-53-J Effects of Modified Tall Oil and Creatine Monohydrate on Growth Performance, Carcass Characteristics, and Meat Quality of Growing-Finishing Pigs
P.R. O'Quinn, B.S. Andrews, R.D. Goodband, J.A. Unruh
J.L. Nelssen, J.C. Woodworth, and M.D. Tokach
J. Anim. Sci. 78:2376, 2000
- 00-104-J Effect of Different Processing Techniques on Motility and Acrosomal Integrity of Cold-Stored Stallion Spermatozoa
G.R. Dawson, G.W. Webb, J.A. Pruitt, T.M. Loughin, and M.A. Arns
J. Equine Vet. Sci. 20(3):191-193, 2000
- 00-118-J Effect of Ruminal vs Postruminal Administration of Degradable Protein on Utilization of Low-Quality Forage by Beef Steers
C.A. Bandyk, R.C. Cochran, T.A. Wickersham, E.C. Titgemeyer, C.G. Farmer, and J.J. Higgins
J. Anim. Sci. 79:225-231, 2001
- 00-171-J Development of a Rapid 5' Nuclease (TaqMan) Assay for the Detection of Pathogenic Strains of *Yersinia enterocolitica*
A. Vishnubhatla, D.Y.C. Fung, R.D. Oberst, M.P. Hays, T.G. Nagaraja, and S.J.A. Flood
Appl. and Envir. Microbiol. 66(9):4731-4735, 2000
- 00-193-B Meat Safety
D.Y.C. Fung, M.N. Hajmeer, C.L. Kastner, J.J. Kastner, J.L. Marsden, K.P. Penner, R.K. Phebus, J.S. Smith, and M.A. Vanier
In: *Meat Science Applications*, R. Rogers (Ed.)
Marcel Dekker, New York, 171-205, 2001
- 00-216-A Dust and Bioaerosols in Naturally and Fan-Ventilated Swine Barns
B.Z. Predicala, R.G. Maghirang, J.E. Urban, K.S. Ocfemia, M.L. Peterie, and R.D. Goodband
Second Intl. Conf. on Air Pollution from Agric. Operations, 321-328, 2000
- 00-228-J Rheological Properties of Ice Cream Mixes and Frozen Ice Creams Containing Fat and Fat Replacers
S. Adapa, H. Dingeldein, K.A. Schmidt, and T.J. Herald
J. Dairy Sci. 83(10):2224-2229, 2000
- 00-229-J Soybean Hulls as a Primary Ingredient in Forage-Free Diets for Limit-Fed Growing Cattle
C.A. Loest, E.C. Titgemeyer, J.S. Drouillard, D.A. Blasi, and D.J. Bindel
J. Anim. Sci. 79:766-774, 2001
- 00-231-B Food Laws and Regulations
I. Jeon
In: *Encyclopedia of Pest Management*, Vol. 20, *Economic and Social Aspects of Pest Management*, D. Pimentel (Ed.)
Marcel Dekker, New York, 2001
- 00-235-J Effects of Ruminally Protected Choline and Dietary Fat on Performance and Blood Metabolites of Finishing Heifers
D.J. Bindel, J.S. Drouillard, E.C. Titgemeyer, and R.H. Wessels
J. Anim. Sci. 78:2497-2503, 2000
- 00-255-J Evaluation of Titanium Dioxide as a Digestibility Marker for Cattle
E.C. Titgemeyer, C.K. Armendariz, D.J. Bindel, R.H. Greenwood, and C.A. Loest
J. Anim. Sci. 79:1059-1063, 2001
- 00-279-J Effects of Pelleting and Pellet Conditioning Temperatures on Weanling Pig Performance
M.U. Steidinger, R.D. Goodband, M.D. Tokach, S.S. Dritz, J.L. Nelssen, L.J. McKinney, B.S. Borg, and J.M. Campbell
J. Anim. Sci. 78:3014, 2000
- 00-298-J Detection of Extracellular Bound Proteinase in EPS-Producing Lactic Acid Bacteria on Cultured Skim Milk Agar
P. Thangpong, D.H. Kang, K. Schmidt, and D.Y.C. Fung
Intl. J. Microbiol. 33:45-49, 2001
- 00-312-J Diagnosis and Evaluation of Economic Impact of Inadequate Zinc Oxide Supplementation Aided by Analysis of Nursery Performance Records
L.M. Tokach, S.S. Dritz, and M.D. Tokach
Swine Health and Prod. 8:229-233, 2000
- 00-332-J Stage of Cycle, Incidence and Timing of Ovulation, and Pregnancy Rates in Dairy Cattle after Three Timed Breeding Protocols
J.A. Cartmill, S.Z. El-Zarkouny, B.A. Hensley, G.C. Lamb, and J.S. Stevenson
J. Dairy Sci. 84:1051-1059, 2001

Publications of Station Scientists

- 00-375-J Effects of L-Carnitine on Nitrogen Retention and Blood Metabolites of Growing Steers and Performance of Finishing Steers
R.H. Greenwood, E.C. Titgemeyer, G.L. Stokka, J.S. Drouillard, and C.A. Loest
J. Anim. Sci. 79:254-260, 2001
- 00-380-A Effects of Metabolic Modifier Used in Animal Production on Meat Quality
M.E. Dikeman
Proc. Rec. Meat Conf. 53:36-56, 2000
- 00-387-J Effects of Sorting Growing-Finishing Pigs by Weight Fails to Improve Growth Performance or Weight Variation
P.R. O'Quinn, S.S. Dritz, R.D. Goodband, M.D. Tokach, J.C. Swanson, J.L. Nelssen, and R.E. Musser
Swine Health and Prod. 9:11-16, 2001
- 00-394-J Development of Porcine Embryos in vitro: Effects of Culture Medium and Donor Age
J.K. Peters, G. Milliken, and D.L. Davis
J. Anim. Sci. 79:1578-1583, 2000
- 00-401-J Infrared Thermography of Meat Body Surface Temperature in Relation to Ambient Temperature and Following an Acute *Actinobacillus pleuropneumoniae* Infection in Growing Pigs
J. A. Loughmiller, M.F. Spire, S.S. Dritz, B.W. Fenwick, M.H. Hosni, and S.B. Hogge
Am. J. Vet. Res. 62:676-681, 2001
- 00-405-J Apparent Ileal Digestibility of Amino Acids and Digestible and Metabolizable Energy of Dry, Extruded-Expelled Soybean Meal and Its Effects on Growth Performance of Pigs
J.C. Woodworth, M.D. Tokach, R.D. Goodband, J.L. Nelssen, P.R. O'Quinn, D.A. Knabe, and N.W. Said
J. Anim. Sci. 79:1280-1287, 2000
- 00-412-J Evaluation of a 5' Nuclease (TaqMan) Assay for the Detection of Virulent Strains of *Yersinia enterocolitica* in Raw Meat and Tofu Samples
A. Vishnubhatla, R.D. Oberst, D.Y.C. Fung, W. Wonglumsom, M.P. Hays, and T.G. Nagaraja
J. Food Protect. 68:355-360, 2001
- 00-418-J Effects of Choice White Grease or Poultry Fat on Growth Performance, Carcass Leanness, and Meat Quality Characteristics of Growing-Finishing Pigs
J.J. Engel, J.W. Smith II, J.A. Unruh, R.D. Goodband, P.R. O'Quinn, M.D. Tokach, and J.L. Nelssen
J. Anim. Sci. 79:1491-1501, 2001
- 00-441-J Effects of Dietary Fat on Growth Performance and Carcass Characteristics of Growing-Finishing Pigs Reared in a Commercial Environment
M. De La Llata, S.S. Dritz, M.D. Tokach, R.D. Goodband, J.L. Nelssen, and T.M. Loughin
J. Anim. Sci. 79:2643-2650, 2000
- 00-444-E Effects of Starting Weight, Body Condition, and Age on Gain of Cattle Grazing Native Grass
F.K. Brazle
Prof. Anim. Sci. 16:231-233, 2000
- 00-445-J Economics of Increasing Lysine: Calorie Ration and Dietary Fat Addition for Growing-Finishing Pigs Reared in a Commercial Environment
M. De La Llata, S.S. Dritz, M.R. Langemeier, M.D. Tokach, R.D. Goodband, and J.L. Nelssen
J. Swine Health and Prod. 9(5):215-223, 2001
- 00-495-J Hands-Free, "Pop-Up," Adhesive Tape Method for Microbial Sampling of Meat Surfaces
D.Y.C. Fung, L. Thompson, B.A. Crozier-Dodson, and C.L. Kastner
J. Rap. Meth. and Autom. in Microbiol. 8:209-217, 2000
- 00-496-J Enrichment Media for Isolation of *Campylobacter jejuni* from Artificially Inoculated Ground Beef and Chicken Skin under Normal Atmosphere
W. Wonglumsom, A. Vishnubhatla, J.M. Kim, and D.Y.C. Fung
J. Food Prot. 64(5):630-634, 2000
- 00-497-J Evaluation of the Thin Agar Layer Method for Recovery of Acid-Injured Foodborne Pathogens
V.C.H. Wu, D.Y.C. Fung, D.H. Kang, and L. Thompson
J. Food Protect. 64(7):1067-1071, 2000
- 01-1-J Effects of Supplemental Alfalfa Hay on the Digestion of Soybean Hull-Based Diets by Cattle
A.M. Trater, E.C. Titgemeyer, C.A. Loest, and B.D. Lambert
J. Anim. Sci. 79:1346-1351, 2001
- 01-12-J Reproductive Management of Dairy Cows in High Milk-Producing Herds
J.S. Stevenson
J. Dairy Sci. 84(E. Suppl.):E128-E143, 2001
- 01-14-J Sensitivity and Specificity of Somatic Cell Count and California Mastitis Test for Identifying Intramammary Infection in Quarter Milk Samples in Early Lactation
J.M. Sargeant, K.E. Leslie, J.E. Shirley, B.J. Pulkrabek, and G.H. Lim
J. Dairy Sci. 84:2018-2024, 2001

Publications of Station Scientists

- 01-22-J Evaluation of a Thin Agar Layer Method for Recovery of Heat-Injured Foodborne Pathogens
V.C.H. Wu and D.Y.C. Fung
J. Food Sci. 66(4):580-583, 2000
- 01-43-J Physicochemical and Microbiological Properties of Selected Rice Flour-Based Batters for Fried Chicken Drumsticks
A. Mukprasirt, T.J. Herald, D.L. Boyle, and E.A.E. Boyle
Poultry Sci. 80(7):958-966, 2001
- 01-72-J Effects of Preparation Method, Age of Media, and Plating Technique of Thin Agar Layer Medium on Recovery of Sodium Chloride-Injured *Escherichia coli* O157:H7
M.N. Hajmeer, D.Y.C. Fung, J.L. Marsden, and G.A. Milliken
J. Microbiol. Meth. 47(2):249-253, 2001
- 01-101-E Corn Gluten Feed: Composition and Feeding Value for Beef and Dairy Cattle
D.A. Blasi, M.J. Brouk, J. Drouillard, and S.P. Montgomery
Kans. Coop. Ext. Serv. MF-2488, 1-13, 2001
- 01-138-S Swine Day 2000
R.D. Goodband, M.D. Tokach, S.S. Dritz, K.C. Dhuyvetter, J.M. DeRouchey, J.D. Hancock, R.H. Hines, C.A. Maloney, D.J. Lee, D.W. Dean, H. Cao, J.S. Park, E.I. Evans, J.S. Stevenson, D.L. Davis, B.W. James, J.L. Nelssen, D.E. Real, M.J. Rinker, M.U. Steidinger, S.D. Carter, K.Q. Owen, J.L. Turner, J.R. Werner, C.M. Hill, K. Skjolaas, S. Hogge, J.E. Minton, K. Herkleman, J.C. Woodworth, M.J. Webster, C.L. Jones, K.C. Behnke, C.M. Sowder, L.J. McKinney, M. De La Llata, J.A. Unruh, E. Alonso, P.R. O'Quinn, B.S. Andrews, N. Said, T.L. Gugle, C.W. Starkey, D.H. Kropf, K.A. Hachmeister, N. Amornthwaphat, J.C. Swanson, R.E. Musser, J.A. Loughmiller, M.F. Spire, B.Z. Predicala, R.G. Maghirang, S.B. Jerez, J.E. Urban, M.C. Hunt, and C.L. Kastner
Kans. Agric. Exp. Stn. Rep. Prog. 858, 1-158, November 2000
- 01-154-J Evaluation of Thin Agar Layer Method for Recovery of Cold-Injured Foodborne Pathogens
V.C.H. Wu and D.Y.C. Fung
J. Rapid Meth. and Autom. in Microbiol. 9(1):11-25, 2000
- 01-166-S Dairy Day 2000
J.S. Stevenson, K.A. Schmidt, M.J. Brouk, J.F. Smith, K.K. Bolsen, B.E. Brent, M.K. Seifers, M.E. Uriarte, T.E. Schmidt, R.V. Pope, T.D. Strahm, J.P. Harner, D.V. Key, J.P. Murphy, D.G. Schmidt, D.P. Gnad, J.M. Sargeant, J.E. Shirley, J. Isch, H. Bathina, J. Lising, K.C. Dhuyvetter, J.M. DeFrain, L.A. Whitlock, A.F. Park, M.J. Meyer, E.C. Titgemeyer, T.T. Marston, J.F. Gleghorn, L.E. Wankel, M.J. VanBaale, M.V. Scheffel, R.U. Lindquist, E.E. Ferdinand, J.A. Cartmill, S.E. Zarkouny, and B.A. Hensley
Kans. Agric. Exp. Stn. Rep. Prog. 861, 1-69, November 2000
- 01-265-J Comparison of the Pulsifier and the Stomacher to Detach Microorganisms from Lean Meat Tissues
D.H. Kang, R.H. Douthery, and D.Y.C. Fung
J. Rapid Meth. and Autom. in Microbiol. 9(1):27-32, 2001
- 01-271-J Compilation of Intervention Methods and Conditions and Ingredient Limits for Controlling *Campylobacter jejuni* in Meat and Poultry Products
R.A. Hendriks, E.A.E. Boyle, C.L. Kastner, and D.Y.C. Fung
J. Rapid Meth. and Autom. in Microbiol. 8:285-305, 2000
- 01-318-S Cattlemen's Day 2001
D.A. Blasi, R.A. Christmas, D.W. Moser, M.E. Dikeman, S.L. Stroda, J.S. Stevenson, B.A. Hensley, T.J. Marple, M.A. Medina-Britos, D.M. Grieger, T.A. Wickersham, R.C. Cochran, J.F. Gleghorn, T.T. Marston, L.E. Wankel, G.L. Kuhl, G.L. Huck, J. Mintert, T.C. Schroeder, T. Marsh, M.F. Spire, J.M. Sargeant, S.K. Tucker, A.M. Richardson, E.J. Pollak, R.D. Green, J. Taylor, S. Davis, T. Holm, S. Koontz, C. Gill, E.A. Westcott, R.J. Lipsey, G.C. Lamb, S.J. Johnson, J.D. Lawrence, M.L. Hayenga, S.I. Paisley, J. Higgins, M.S. Holder, D.E. Kehler, B. Farran, J.J. Sindt, S.P. Montgomery, C. Birkelo, G.L. Stokka, T.G. Rozell, J.R. Brethour, D.O. Yauk, W.V. Welshons, G.E. Rottinghaus, J.L. Davidson, D.E. Kehler, D.V. Dhuyvetter, C.G. Farmer, M.T. Ortega-Valenzuela, R.K. Phebus, H. Thippareddi, J.L. Marsden, C.L. Kastner, D.A. King, T.E. Lawrence, E. Obuz, E.J. Yancey, B.S. Andrews, J.A. Unruh, R.R. Timm, K.A. Hachmeister, L.M. Sammel, A.E. Razor, M.C. Hunt, D.H. Kropf, P.B. Addis, E. Katsanidis, T.H. Montgomery, D.A. Shafer, B.D. Lambert, E.C. Titgemeyer, C.A. Loest, A.M. Trater, J.S. Drouillard, T.B. Farran, C.M. Coetzer, H.J. LaBrune, R.D. Hunter, R.A. Stock, S.B. Laudert, F.K. Brazle, T.J. Kessen, R.T. Ethington, J.N. Pike, and D.L. Lambert
Kans. Agric. Exp. Stn. Rep. Prog. 873, 1-110, January 2001

Publications of Station Scientists

Apparel, Textiles and Interior Design

- 97-524-J Single-Fiber Analysis by ATR Infrared Microspectroscopy
L. Cho, J.A. Reffner, B.M. Gatewood, and D.L. Wetzell
J. Forensic Sci. 46:1309-14, 2001
- 99-396-J Relationship of Dye Characteristics to the Ultraviolet Protection Provided by a Cotton Fabric
M. Srinivasan and B.M. Gatewood
Textile Chem. and Colorist / Am. Dyestuff Rep. 32 (4):36-40, 2000
- 01-3-A Influence of Fiber Type, Chemicals, Heat, and Light on the Susceptibility of Protein Fibers to Insect Attack
B.M. Gatewood, G.N. Ramaswamy, and A. Iyer
In: *Book of Papers*, Intl. Tech. Conf., Am. Assoc. Textile Colorists and Chem. 2000
- 01-4-A Investigation of the Use of Soybean-Based Alkyd Resins as Pigment Printing Binders
U.M. Vaidya and B.M. Gatewood
In: *Book of Papers*, Intl. Tech. Conf., Am. Assoc. Textile Colorists and Chem. 2000

Biochemistry

- 99-6-J Reaction Mechanism for Mammalian Pyruvate Dehydrogenase Using Natural Lipoyl Domain Substrates
S. Liu, X. Gong, X. Yan, T. Peng, J.C. Baker, L. Li, P.M. Robben, S. Ravindran, L.A. Andersson, A.B. Cole, and T.E. Roche
Arch. Biochem. Biophys. 386:123-135, 2001
- 99-353-J Phospholipase D- and Phosphatidic Acid-mediated Generation of Superoxide in Arabidopsis
Y. Sang, D. Cui, and X. Wang
Plant Physiol. 126:1449-1458, 2001
- 99-400-J Multiple Forms of Phospholipase D in Plants: The Gene Family, Catalytic and Regulatory Properties, and Cellular Functions
X. Wang
Progress in Lipid Res. 39:109-149, 2000
- 99-464-B Trafficking of Plant Defense Response Compounds.
J.E. Leach, L. Lloyd, D. McGee, X. Wang, and J.A. Guikema
In: *Delivery and Perception of Pathogen Signals in Plants*, N.T. Keen, S. Mayama, J.E. Leach, and S. Tsuyumu, (Eds.)
APS Press, St. Paul, MN, 241-250, 2001

- 00-22-J Conformations of Nicotinamide Adenine Dinucleotide (NAD⁺) in Various Environments
P.E. Smith and J.J. Tanner
J. Molec. Recog. 13:27-34, 2000
- 00-25-A Hemolymph Proteinases in Immune Responses of *Manduca sexta*
M.R. Kanost, H. Jiang, Y. Wang, X.-Q. Yu, C. Ma, and Y. Zhu
Adv. Exp. Med. Biol. 484:319-328, 2001
- 00-189-J Marked Differences Between Two Isoforms of Human Pyruvate Dehydrogenase Kinase
J. Baker, X. Yan, T. Peng, S. Kasten, and T. Roche
J. Biol. Chem. 275:15773-15781, 2000
- 00-219-J Distinct Ca²⁺ Binding Properties of Novel C2 Domains of Plant Phospholipase D α and β
L. Zheng, R. Krishnamoorthi, M. Zolkiewski, and X. Wang
J. Biol. Chem. 275:19700-19706, 2000
- 00-237-J Specificity Determinants of the Pyruvate Dehydrogenase Component Reaction Mapped with Mutated and Prosthetic Group Modified Lipoyl Domains
X. Gong, T. Peng, A. Yakhnin, M. Zolkiewski, J. Quinn, S.J. Yeaman, and T.E. Roche
J. Biol. Chem. 275:13645-13653, 2000
- 00-290-J Involvement of Phospholipase D in Wound-Induced Accumulation of Jasmonic Acid in *Arabidopsis*
C. Wang, C. Zien, M. Afithhile, R. Welti, D.F. Hildebrand, and X. Wang
Plant Cell 12:2237-2246, 2000
- 00-292-J Metalloprotease-disintegrin ADAM12 Interacts with α actinin-1
Y. Cao, Q. Kang, and A. Zolkiewska
Biochem. J. 357:353-361, 2001
- 00-308-B Enhanced Disease Resistance in Cereals by Transformation with Genes for Pathogenesis-Related Proteins
S. Muthukrishnan, G.H. Liang, H.N. Trick, and B.S. Gill
Plant Cell, Tissue, and Organ Culture 64:93-144, 2001
- 00-319-J Immulectin-2, a Lipopolysaccharide-Specific Lectin from an Insect, *Manduca sexta*, is Induced in Response to Gram-Negative Bacteria
X.-Q. Yu and M.R. Kanost
J. Biol. Chem. 275:37373-37831, 2000
- 00-321-J A Bacteria-Induced, Intracellular Serpin in Granular Hemocytes of *Manduca sexta*
H. Gan, Y. Wang, H. Jiang, and M.R. Kanost
Insect Biochem. and Molec. Biol. 31:887-898, 2000

Publications of Station Scientists

- 00-368-J *Agrobacterium*-Mediated Transformation of Creeping Bentgrass Using GFP as a Reporter Gene
T.T. Yu, D.Z. Skinner, H.N. Trick, B. Huang, S. Muthukrishnan, and G.H. Liang
Hereditas 133:229-233, 2000
- 00-389-J Isolation and Characterization of Novel cDNA Clones of Acidic Chitinases and β -1,3-Glucanses from Wheat Spikes Infected by *Fusarium graminearum*
W.L. Li, J.D. Faris, S. Muthukrishnan, D.J. Liu, P.D. Chen, and B.S. Gill
Theor. and Appl. Genet. 102:353-362, 2001
- 00-429-J NH_2 -terminal Modification of a Channel-forming Peptide Increases Capacity for Epithelial Anion Secretion
J.R. Broughman, K.E. Mitchell, R.L. Sedlacek, T. Iwamoto, J.M. Tomich, and B. Schultz
Am. J. Physiol. 280(3):C451-C458, 2001
- 00-459-J Oxidative Conjugation of Catechols with Proteins in Insect Skeletal Systems
K.J. Kramer, M.R. Kanost, T.L. Hopkins, H. Jiang, Y.C. Zhu, R. Xu, J.K. Kerwin, and F. Turecek
Tetrahedron 57:385-392, 2001
- 00-468-J Structure and Activity of ClpB from *Escherichia coli*: Role of the Amino- and Carboxy-Terminal Domains
M.E. Barnett, A. Zolkiewska, and M. Zolkiewski
J. Biol. Chem. 275:37565-37571, 2000
- 00-481-J A Comparison of TFE Force Fields
R. Chitra and P.E. Smith
J. Chem. Phys. 115:5521-5530, 2001
- 00-487-J Determining Functions of Multiple Phospholipase Ds in Stress Response of Arabidopsis
X. Wang, C. Wang, Y. Sang, L. Zheng, and C. Qin
Biochem. Soc. Trans. 28:813-816, 2000
- 00-504-J Properties of TFE and Water Mixtures
R. Chitra and P.E. Smith
J. Chem. Physics 114:426-435, 2001
- 01-8-J High Resolution Structural Analysis of Biolistic Transgene Integration into the Nuclear Genome of Wheat
S. Jackson, P. Zhang, W. Chen, R. Phillips, B. Friebe, S. Muthukrishnan, and B.S. Gill
Theor. Appl. Genet. 103:56-62, 2001
- 01-24-J ADAM12 Binds to the SH3 Domain of Src and Activates Src Tyrosine Kinase in C2C12 Cells
Q. Kang, Y. Cao, and A. Zolkiewska
Biochem. J. 352:883-892, 2000
- 01-58-J In-Vivo Substrate and Contribution of the Common Phospholipase D, PLD- α , to Wound-Induced Metabolism of Lipids in *Arabidopsis*
C.A. Zien, C. Wang, X. Wang, and R. Welti
Biochim. Biophys. Acta 1530:236-248, 2001
- 01-59-J Plant Phospholipases
X. Wang
Ann. Rev. Plant Physiol. Plant Mol. Biol. 52: 211-231, 2001
- 01-111-J Plant Uptake of Methyl-Tert-Butyl Ether (MTBE) from Groundwater
Q. Zhang, L.C. Davis, and L.E. Erickson
Pract. Period. Hazardous, Toxic and Radioactive Waste Manag. 5:136-140, 2001
- 01-112-J Plant-Enhanced Remediation of Glycol-Based Aircraft Deicing Fluids
S. Castro, L.C. Davis, and L.E. Erickson
Pract. Period. Hazardous, Toxic and Radioactive Waste Manag. 5:141-152, 2001
- 01-123-J Structural Effects of O-Glycosylation on a 15-Residue Peptide from the Mucin (MKUC1) Core Protein
L. Kirnarsby, O. Prakash, S.M. Vogen, M. Nomoto, M.A. Hollingsworth, and S. Sherman
Biochemistry 39:12076-12082, 2000
- 01-128-J Transport of Methyl Tert-Butyl Ether (MTBE) through Alfalfa Plants
Q. Zhang, L.C. Davis, and L.E. Erickson
Envir. Sci. and Tech. 35:725-731, 2001
- 01-198-J Disulfide Bond Effects on Protein Stability: Designed Variants of *Cucurbita maxima* Trypsin Inhibitor-V
M. Zavodszky, C.-W. Chen, J.-K. Huang, M. Zolkiewski, L. Wen, and R. Krishnamoorthi
Protein Sci. 10:149-160, 2001
- 01-205-B Distinct Regulatory Properties of Pyruvate Dehydrogenase Kinase and Phosphatase Isoforms
T.E. Roche, J. Baker, X. Yan, Y. Hiromasa, X. Gong, T. Peng, J. Dong, A. Turkan, and S. Kasten
In: *Progress in Nucleic Acid Research and Molecular Biology* 70:33-75, 2001
- 01-224-J Synthetic Chloride Channel Restores Glutathione Secretion in Cystic Fibrosis Airway Epithelia
L. Gao, J.R. Broughman, T. Iwamoto, J.M. Tomich, C.J. Vanglark, and H.J. Forman
Amer. J. Physiol. 281(1):L24-L30, 2001

Publications of Station Scientists

- 01-244-J Properties of *Manduca sexta* Chitinase 1 and its C-Terminal Deletions
X. Zhu, H. Zhang, T. Fukamizo, S. Muthukrishnan, and K.J. Kramer
Insect Biochem. and Molec. Biol. 31:1221-1230, 2001
- 01-316-J Direct Interaction between the Cytoplasmic Tail of ADAM12 and the SH3 Domain of p85 α Activates Phosphatidylinositol 3-kinase in C2C12 Cells
Q. Kang, Y. Cao, and A. Zolkiewska
J. Biol. Chem. 276:24466-24472, 2001
- 01-388-J Tyrosine Crosslinks: The Molecular Basis of Gluten Structure and Function
K.A. Tilley, R.E. Benjamin, K.E. Bagorogoza, R. M. Okot-Kotber, O. Prakash, and H. Kwen
J. Agric. and Food Chem. 49:2627-2632, 2001

Biological and Agricultural Engineering

- 97-325-J Methods for Measuring Vertical Tire Stiffness
R.K. Taylor, L.L. Bashford, and M.D. Schrock
Trans. Am. Soc. Agric. Engin. 43(6):1415-1419, 2001
- 98-443-J Effects of Extrusion Temperature and Moisture Content on Physical Properties of Starch-Based Foams
J.Y. Cha, D.S. Chung, and P.A. Seib
Trans. Am. Soc. Ag. Eng. 42:1765-1770, 2000
- 99-7-J Development and Application of a Comprehensive Simulation Model to Evaluate Impacts of Watershed Structures and Irrigation Water Use on Streamflow and Ground-Water: The Case of Wet Walnut Creek Watershed, Kansas
S.R. Ramireddygar, M.A. Sophocleous, J.K. Koelliker, S.P. Perkins, R.S. Govindaraju, and T. Birdie
J. Hydrol. 236(3-4): 223-246, 2000
- 99-58-J Municipal Solid Waste Compost (MSWC) as a Soil Amendment in Irrigated Vegetable Production
G.A. Clark, C.D. Stanley, and D.N. Maynard
Trans. Am. Soc. Agric. Engin. 42(4):847-853, 2000
- 00-198-J Subsurface Drip Irrigation Using Livestock Wastewater: Dripline Flow Rates
T.P. Trooien, F.R. Lamm, L.R. Stone, M. Alam, D.H. Rogers, G.A. Clark, and A.J. Schlegel
Appl. Engin. in Agric. 16(5):505-508, 2000
- 00-214-J Partitioning of the Sprinkler Water Amount by a Corn Canopy
F.R. Lamm and H.L. Manges
Trans. Am. Soc. Agric. Engin. 43(4):909-918, 2000

- 00-216-A Dust and Bioaerosols in Naturally and Fan-Ventilated Swine Barns
B.Z. Predicala, R.G. Maghirang, J.E. Urban, K.S. Ocfemia, M.L. Peterie, and R.D. Goodband
Second Intl. Conf. on Air Pollution from Agric. Operations, 321-328, 2000
- 00-234-J Watershed Monitoring to Address Contamination Source Issues and Remediation of the Contaminant Impairments
P.L. Barnes and P.K. Kalita
Water Sci. and Tech. 44(7):51-56, 2001
- 00-236-J A Macroscopic Model for Predicting Dust Concentration Distribution in Swine Buildings
M.C. Puma and R.G. Maghirang
Indoor+Built Envir. 9(3-4):182-191, 2000
- 00-274-T Assessing Tomorrow's Watersheds – Watershed Groups in Kansas Turn to Computer Models to See into the Future
K.R. Mankin
Kans. Coop. Ext. Serv. Publ #MF-2486, 1-4, 2000
- 00-277-J Effects of Moisture Content and Fine Material on Static Pressure Drops in a Bed of Grain Sorghum and Rough Rice
D.S. Chung, M.S. Kim, R.G. Maghirang, Y.S. Kim, and M.S. Kim
Trans. Am. Soc. Agric. Engin. 44(2):331-336, 2001
- 00-330-J Estimating Reference Evapotranspiration with an Atmometer
M. Alam and T.P. Trooien
Appl. Engin. Agric. 17(2):1-6, 2001
- 00-474-A Using Subsurface Drip Irrigation with Livestock Wastewater
T.P. Trooien, F.R. Lamm, L.R. Stone, M. Alam, D.R. Rogers, G.A. Clark, and A.J. Schlegel
Proc. 4th Decennial Natl. Irrigation Symp, ASAE Publication 701 P0004, 379-384, 2000
- 01-28-J Seasonal Variations in Hydraulic Performance of Rock-Plant Filters
Q. He and K.R. Mankin
Envir. Tech. 22(9): 991-1000, 2001
- 01-48-A Effects of Overwinter Processes on Stability of Dry Soil Aggregates
J. Tatarko, L.E. Wagner, and C.A. Boyce
Soil Erosion Research for the 21st Century Proceedings of the International Symposium, American Society of Agricultural Engineers, St. Joseph, MI, 459-462, 2001

Publications of Station Scientists

- 01-50-A Simulation of Tillage and Other Management Operations in WEPS
L.E. Wagner and F. Fox
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 625-628, 2001
- 01-51-A A Common Plant Growth Model for WEPP and WEPS
A. Retta, L.A. Deer-Ascough, L. Wagner, D.C. Flanagan, and D.V. Armbrust
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 2001
- 01-52-A Validation of the Wind Erosion Prediction System (WEPS) Erosion Submodel on Small Cropland Fields
L.J. Hagen
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 479-482, 2001
- 01-67-A Demonstration of the WEP 1.0 Wind Erosion Model
L.E. Wagner and J. Tatarko
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 37, 2001
- 01-68-A WEP 1.0 - What It Is and What It Isn't
L.E. Wagner and J. Tatarko
Soil Erosion Research for the 21st Century Proceedings of the International Symposium
American Society of Agricultural Engineers, St. Joseph, MI, 372-373, 2001
- 01-69-A A Laser Distance-Based Method for Measuring Standing Residue
F.A. Fox Jr. and L.E. Wagner
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 2001
- 01-89-A Modification of the Curve Number Adjustment Technique for Prediction of Runoff
S.J. Bhuyan, J.K. Koelliker, and P.L. Barnes
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 287-290, 2001
- 01-90-A Soil Moisture Monitoring in the Black Vermillion Watershed and Its Impact on Erosion
P. Barnes, G. Kluitenberg, and J. Ham
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 9-12, 2001
- 01-107-A WEPS and WEPP Science Commonality Project
F. Fox, D. Flanagan, L. Wagner, and L. Deer-Ascough
Soil Erosion Research for the 21st Century Proceedings of the International Symposium,
American Society of Agricultural Engineers, St. Joseph, MI, 376-379, 2001
- 01-138-S Swine Day 2000
R.D. Goodband, M.D. Tokach, S.S. Dritz, K.C. Dhuyvetter, J.M. DeRouchey, J.D. Hancock, R.H. Hines, C.A. Maloney, D.J. Lee, D.W. Dean, H. Cao, J.S. Park, E.I. Evans, J.S. Stevenson, D.L. Davis, B.W. James, J.L. Nelssen, D.E. Real, M.J. Rinker, M.U. Steidinger, S.D. Carter, K.Q. Owen, J.L. Turner, J.R. Werner, C.M. Hill, K. Skjolaas, S. Hogge, J.E. Minton, K. Herkleman, J.C. Woodworth, M.J. Webster, C.L. Jones, K.C. Behnke, C.M. Sowder, L.J. McKinney, M. De La Llata, J.A. Unruh, E. Alonso, P.R. O'Quinn, B.S. Andrews, N. Said, T.L. Gogle, C.W. Starkey, D.H. Kropf, K.A. Hachmeister, N. Amornthewaphat, J.C. Swanson, R.E. Musser, J.A. Loughmiller, M.F. Spire, B.Z. Predicala, R.G. Maghirang, S.B. Jerez, J.E. Urban, M.C. Hunt, and C.L. Kastner
Kans. Agric. Exp. Stn. Rep. Prog. 858, 1-158, November 2000
- 01-140-J Assessment of Heat-Damaged Wheat Kernels Using Near-Infrared Spectroscopy
D. Wang, F.E. Dowell, and D.S. Chung
Cereal Chem. 78(5):625-628, 2001
- 01-240-S 2001 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
D.L. Regehr, D.E. Peterson, P.D. Ohlenbusch, W.H. Fick, P.W. Stahlman, and R.E. Wolf
Kans. Agric. Expt. Stn. Rep. Prog. 867, 1-72, January 2001
- 01-295-J Frequency and Extent of Water Limitation to Primary Production in a Mesic Temperate Grassland
A.K. Knapp, J.M. Briggs, and J.K. Koelliker
Ecosystems 4:19-28, 2001
- 01-397-S Field Research 2001 Agronomy Experiment Fields
L.E. Maddux, K. Janssen, D.A. Whitney, G.M. Pierzynski, B. Gordon, M.M. Claassen, K.L. Roozeboom, K. Al-Khatib, D.E. Peterson, D.L. Fjell, V.L. Martin, K. McVay, R. Vanderlip, W.F. Heer, C. Rice, G. Wilde, R. Taylor, G.A. Clark, S. Staggenborg, B. Wood, and S.R. Duncan
Kans. Agric. Expt. Stn. Rep. Prog. 876, 1-134, May 2001

Publications of Station Scientists

Biology

- 96-501-J Modeling Wheat Leaf Rust Epidemics in the Central Great Plains of the USA
M.G. Eversmeyer and C.L. Kramer
Proc. 9th European and Mediterranean Cereal Rusts Conference; Lunteren, The Netherlands, 294-296, 1996
- 97-78-J Models of Early Spring Survival of Wheat Leaf Rust in the Central Great Plains
M.G. Eversmeyer and C.L. Kramer
Plant Dis. 82:987-991, 1998
- 97-468-A Influence of Food Plots on Northern Bobwhite Movements, Habitat Use, and Home Range
L.A. Madison, R.J. Robel, and D.P. Jones
Proc. Quail IV 4:36-41, 2000
- 99-52-J Effects of Ungulate Grazers on Mycorrhizas on Arbuscular Mycorrhizal Symbiosis and Fungal Community
A.H. Eom, D. Hartnett, and G.W.T. Wilson
Mycologia 93:233-242, 2001
- 99-127-J Assessment of Avian Populations in Kansas Tallgrass Prairie: Two Survey Methods Compared
R.J. Robel, S.J. Antholz, K.E. Kemp, and C.B. Runco
Trans. Kansas Acad. Sci. 103:139-149, 2000
- 99-340-J Spatial and Temporal Patterns of Nitrogen in Pristine and Agriculturally Influenced Prairie Streams
M.J. Kemp and W.K. Dodds
Biogeochemistry 53:125-141, 2001
- 99-372-J Host Plant Species Effects on Arbuscular Mycorrhizal Fungal Communities in Tallgrass Prairie
A.H. Eom, D.C. Hartnett, and G.W.T. Wilson
Oecologia 122:435-444, 2000
- 99-464-B Trafficking of Plant Defense Response Compounds.
J.E. Leach, L. Lloyd, D. McGee, X. Wang, and J.A. Guikema
In: *Delivery and Perception of Pathogen Signals in Plants*, N.T. Keen, S. Mayama, J.E. Leach, and S. Tsuyumu, (Eds.)
APS Press, St. Paul, MN, 241-250, 2001
- 99-518-J Factors Influencing Mourning Dove Nest Success in CRP Fields
J. Hughes, R.J. Robel, and K. Kemp
J. Wildl. Manag. 64:1004-1008, 2000
- 00-2-J Quantification of the Nitrogen Cycle in a Prairie Stream
W.K. Dodds, M.A. Evans-White, N.M. Gerlanc, L. Gray, D.A. Gudder, A.L. Lopez, M.J. Kemp, P.J. Mulholland, D. Stagiano, J.L. Tank, E.A. Strauss, M.R. Whiles, and W.M. Wollheim
Ecosystems 3:574-589, 2000
- 00-21-B Superantigen Activation of Macrophages
S.K. Chapes, A.D. Wright, and A.A. Beharka
In: *Staphylococcal Disease and Infection*, (Chapter 5), A.L. Honeyman, M. Bendinelli, H. Friedman (Eds.), Kluwer Academic/Plenum, New York, 67-91, 2001
- 00-68-J Emergence of Periodical Cicada from a Kansas Riparian Forest: Densities, Biomass, and Nitrogen Flux
M.R. Whiles, C.K. Meyer, M.A. Callaham, B.L. Brock, and R.E. Charlton
Am. Midl. Nat. 145:176-187, 2001
- 00-87-J MHCII, *T1r4* and *Nramp1* Genes Control Lost Pulmonary Resistance against the Opportunistic Bacterium *Pasteurella pneumotropica*
S.K. Chapes, D.A. Mosier, A.D. Wright, and M.L. Hart
J. Leukocyte Biol. 69:381-386, 2001
- 00-139-J *Themeda quadrivallis* (Poaceae: Andropogoneae) in Kansas: An Exotic Plant Introduced from Birdseed
E.G. Towne and I. Barnard
Sida 19(1):201-203, 2000
- 00-152-J Wallowing Behavior of American Bison (*Bos bison*) in Tallgrass Prairie: An Examination of Alternate Explanations
B.E. McMillan, M.R. Cottam, and D. Kaufman
Am. Midl. Nat. 144:159-167, 2000
- 00-178-J A New Species of *Eimeria* (Apicomplexa, Eimeriidae) from the Weedy Sea Dragon, *Phyllopteryx taeniolatus* (Osteichthyes: Syngathidae)
S.J. Upton, M.A. Stamper, A.L. Osborn, S.L. Mumford, L. Zwick, M.J. Kinsel, and R.M. Overstreet
Dis. Aquat. Org. 43:55-59, 2000
- 00-216-A Dust and Bioaerosols in Naturally and Fan-Ventilated Swine Barns
B.Z. Predicala, R.G. Maghirang, J.E. Urban, K.S. Ocfemia, M.L. Peterie, and R.D. Goodband
Second Intl. Conf. on Air Pollution from Agric. Operations, 321-328, 2000
- 00-290-J Involvement of Phospholipase D in Wound-Induced Accumulation of Jasmonic Acid in *Arabidopsis*
C. Wang, C. Zien, M. Afithhile, R. Welti, D.F. Hildebrand, and X. Wang
Plant Cell 12:2237-2246, 2000

Publications of Station Scientists

- 00-349-A Artificial Nests Containing House Sparrow Eggs Approximate Natural Nest Depredation Rates: Evidence from Kansas Riparian Grasslands
J. Rivers, T. Cable, and J. Pontius
Proc. Wildlife Soc. Ann. Conf., 168, 2000
- 00-430-J Effects of Mycorrhizae on Growth and Demography of Tallgrass Prairie Forbs
G.W.T. Wilson, D.C. Hartnett, M.D. Smith, and K. Kobbeman
Am. J. Bot. 88:1452-1457, 2001
- 00-431-J Use of Electron Microscopic and Immunogold Labeling Techniques to Determine Polyomavirus Recombinant VP1 Capsid-Like Particles Entry into Mouse 3T6 Cell Nucleus
K. An, A.Q. Paulsen, M.B. Tilley, and R.A. Consigli
J. Virol. Meth. 90:9-97, 2000
- 01-43-J Physicochemical and Microbiological Properties of Selected Rice Flour-Based Batters for Fried Chicken Drumsticks
A. Mukprasirt, T.J. Herald, D.L. Boyle, and E.A.E. Boyle
Poultry Sci. 80(7):958-966, 2001
- 01-58-J In-Vivo Substrate and Contribution of the Common Phospholipase D, PLD α , to Wound-Induced Metabolism of Lipids in *Arabidopsis*
C.A. Zien, C. Wang, X. Wang, and R. Welti
Biochim. Biophys. Acta 1530:236-248, 2001
- 01-76-J Determinants of C3 Forb Growth and Production in a C4-Dominated Grassland
J.M. Briggs and A.K. Knapp
Plant Ecology 152:93-100, 2001
- 01-137-J Centimeter-Scale Patterns of Dissolved Oxygen Concentrations Related to Nitrification Rates among Different Substrata in a Prairie Stream
M.J. Kemp and W.K. Dodds
J. N. Am. Benthol. Soc. 20:347-357, 2001
- 01-187-J Size of the Local Species Pool Determines Invasibility of a C141-Dominated Grassland
M.D. Smith and A.K. Knapp
Oikos 92:55-61, 2001
- 01-211-J Responses of the Codominant Grassland Species *Andropogon gerardii* and *Sorghastrum nutans* to Long-Term Manipulations of Nitrogen and Water
A.M. Silletti and A.K. Knapp
Am. Midl. Nat. 145:159-167, 2001
- 01-221-J A Multiple Index Environmental Quality Evaluation and Management System
S. Thien, S. Starrett, R. Robel, P. Shea, D. Gourlay, and C. Roth
U.S. Golf Assoc. Green Section Record 38:12-18, 2001
- 01-295-J Frequency and Extent of Water Limitation to Primary Production in a Mesic Temperate Grassland
A.K. Knapp, J.M. Briggs, and J.K. Koelliker
Ecosystems 4:19-28, 2001
- 01-299-J Scute Anomalies of Ornate Box Turtles in Kansas
R.T. Kazmaier and R.J. Robel
Trans. Kansas Acad. Sci. 104:178-182, 2001
- 01-417-J Physiological and Morphological Traits of Exotic, Invasive Exotic, and Native Plant Species in Tallgrass Prairie
M. D. Smith and A.K. Knapp
Int. J. Plant Sci. 162:785-792, 2001
- 01-428-J Growth Dynamics of Oak Seedlings (*Quercus macrocarpa* Michx. and *Quercus muhlenbergii* Engelm.) from Gallery Forests: Implications for Forest Expansion into Grasslands
B.T. Danner and A.K. Knapp
Trees 15:271-277, 2001
- ### Chemical Engineering
- 01-128-J Transport of Methyl Tert-Butyl Ether (MTBE) through Alfalfa Plants
Q. Zhang, L.C. Davis, and L.E. Erickson
Envir. Sci. and Tech. 35:725-731, 2001
- ### Civil Engineering
- 00-469-A Engineering Humification Processes to Immobilize Phenolic Contaminants in Soils
A. Bhandari, I. Cho, and F. Xu
Proc. WEFTEC 2000, The Annual Water Envir. Fed. Conf. (Electronic only), 2000
- 00-501-A Evaluation of Atrazine Binding to Surface Soil
H.M. Lesan and A. Bhandari
Proc. 2000 Conf. on Hazardous Waste Res., 76-89, 2000
- 00-502-A Effect of Peroxidase Addition on Sorption, Desorption, and Binding of Phenolic Mixtures in Soil
F. Xu and A. Bhandari
Proc. 2000 Conf. Hazardous Waste Res., 378-393, 2000
- 01-270-J Impact of Peroxidase Addition on Sorption-Desorption Behavior of Phenolic Contaminants in Surface Soils
A. Bhandari and F. Xu
Envir. Sci. and Tech. 35(15): 3163-3168, 2001

Publications of Station Scientists

Communications

- 01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties
K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000
- 01-326-D 2000 Report on Grains Research and Educational Programs Supported by Kansas Corn, Grain Sorghum, Soybean, and Wheat Commissions
G. Ham
Kans. Agric. Expt. Stn. Administrative Report, 1-64, 2001 (available from dept. only)
- 01-379-S 2001 Agricultural Research Southeast Agricultural Research Center
L.W. Lomas, J.L. Moyer, D.W. Sweeney, K.W. Kelley, J.H. Long, R. Jones, C.W. Marr, T. Todd, M. Knapp, S. Staggenborg, F.K. Brazle, G.L. Kilgore, and S. Duncan
Kans. Agric. Exp. Stn. Rep. of Prog. 875, 1-70, May 2001

Diagnostic Medicine/Pathobiology

- 98-492-J Effects of Circadian Rhythms and Other Bioassay Factors on Cat Flea (Pulicidae: Siphonaptera) Susceptibility to Insecticides
R. L. Bossard, A.B. Broce, and M.W. Dryden
J. Kans. Entomol. Soc. 73:21-39, 2000
- 99-98-J Pupation Site Selection of Cat Fleas (Siphonaptera: Pulicidae) in Various Carpet Types and Its Effect on Insecticide Efficacy
R.J. Miller, M.W. Dryden, A.B. Broce, and D.R. Suiter
J. Econ. Entomol. 93(4):1391-1397, 2000
- 99-210-J Production, Characterization and Uses of Monoclonal Antibodies against Porcine Reproductive and Respiratory Syndrome Virus 3' Untranslated Region and Nucleoprotein RNA Binding Proteins
K. Shanmukhappa, F. Majhdi, and S. Kapil
Hybridoma 19:263-267, 2000
- 99-298-J Spread of Bovine Herpesvirus Type 5 (BHV-5) in the Rabbit Brain after Intranasal Inoculation
B.J. Lee, M.L. Weiss, D. Mosier, and S.I. Chowdhury
J. NeuroVirology 5:474-487, 1999
- 99-347-J Strategic Use of Ivermectin during Pregnancy to Control *Toxocara canis* in Greyhound Puppies
P.A. Payne and R.K. Ridley
Vet. Parasitol. 85:305-312, 1999

- 99-373-J The Hispid Cotton Rat (*Sigmodon hispidus*) as an Experimental Host for the Bovine Liver Fluke (*Fasciola hepatica*)
R.D. McKown, R.K. Ridley, and G.A. Kennedy
Vet. Parasitol. 87: 125-132, 2000
- 99-381-J *Pseudomonas pickettii*: A Common Soil and Groundwater Aerobic Bacteria with Pathogenic and Biodegradation Properties.
M.R. Bruins, S. Kapil, and F.W. Oehme
Ecotoxicol. and Envir. Safety 47:105-111, 2000
- 99-382-J Plasmid and Chromosomal Basis of Tolerance to Cadmium and Resistance to Antibiotics in Normal Bovine Duodenal Bacterial Flora
M.R. Bruins, S. Kapil, and F. Oehme
Vet. Human Toxicol. 43:129, 133, 2001
- 00-35-J Growth Performance by Stocker Steers Fed Magnesium-Mica during Grazing and Feedlot Period
K.P. Coffey, J.L. Moyer, F.K. Brazle, T.G. Nagaraja, and L.W. Lomas
Prof. Anim. Sci. 16:175-181, 2000
- 00-87-J MHCII, *T1r4* and *Nramp1* Genes Control Lost Pulmonary Resistance against the Opportunistic Bacterium *Pasteurella pneumotropica*
S.K. Chapes, D.A. Mosier, A.D. Wright, and M.L. Hart
J. Leukocyte Biol. 69:381-386, 2001
- 00-154-J The Estrous Cycle Affects Pseudorabies Virus (PRV) Infection of the Central Nervous System
M.L. Weiss, M.E. Dobbs, P.S. MohanKumar, S.I. Chowdhury, K. Sawrey, R. Guevara-Guzman, and J. Huang
Brain Res. 893:215-226, 2001
- 00-171-J Development of a Rapid 5' Nuclease (TaqMan) Assay for the Detection of Pathogenic Strains of *Yersinia enterocolitica*
A. Visnubhatla, D.Y.C. Fung, R.D. Oberst, M.P. Hays, T.G. Nagaraja, and S.J.A. Flood
Appl. and Envir. Microbiol. 66:4131-4135, 2000
- 00-238-J Comparison of Cultivation and PCR-Hybridization for Detection of *Salmonella* in Porcine Fecal and Water Samples
I. Feder, J.C. Niefeld, J. Galland, T. Yeary, J.M. Sargeant, R.D. Oberst, M.L. Tamplin, and J.G. Luchansky
J. Clin. Microbiol. 39:2477-2484, 2001
- 00-362-J Differentiation of Two Bovine Lentiviruses by a Monoclonal Antibody on the Basis of Epitope Specificity
L. Zheng, S. Zhang, C. Wood, S. Kapil, G. Wilcos, T.A. Loughin, and H. Minocha
Am. Soc. for Microbiol. 8:283-287, 2001

Publications of Station Scientists

- 00-401-J Infrared Thermography of Meat Body Surface Temperature in Relation to Ambient Temperature and Following an Acute *Actinobacillus pleuropneumoniae* Infection in Growing Pigs
J. A. Loughmiller, M.F. Spire, S.S. Dritz, B.W. Fenwick, M.H. Hosni, and S.B. Hogge
Am. J. Vet. Res. 62:676-681, 2001
- 00-412-J Evaluation of a 5' Nuclease (TaqMan) Assay for the Detection of Virulent Strains of *Yersinia enterocolitica* in Raw Meat and Tofu Samples
A. Vishnubhatla, R.D. Oberst, D.Y.C. Fung, W. Wonglumsom, M.P. Hays, and T.G. Nagaraja
J. Food Protect. 68:355-360, 2001
- 01-16-J Evaluation of a Latex Agglutination Kit (Virogen Rotatest) for Detection of Bovine Rotavirus in Fecal Samples
Y. Al-Yousif, J. Anderson, C. Chard-Bergstrom, A. Bustamante, M. Muenzenberger, K. Austin, and S. Kapil
Clin. Diag. Lab. Immunol. 8:496-498, 2001

Director's Office

- 01-326-D 2000 Report on Grains Research and Educational Programs Supported by Kansas Corn, Grain Sorghum, Soybean, and Wheat Commissions
G. Ham
Kans. Agric. Expt. Stn. Administrative Report, 1-64, 2001 (available from dept. only)
- BR-40 40th Biennial Report of Agricultural Research in Kansas : July 1, 1998 - June 30, 2000
Kans. Agric. Expt. Stn. Administrative Report, April, 2001. Available online at:
<http://www.oznet.ksu.edu/library/misc2/samplers/BR40.asp>

Entomology

- 98-373-J Evidence for Reproductive Diapause in the Regal Fritillary *Speyeria idalia* (Lepidoptera: Nymphalidae): Relationships among Juvenile Hormone Titters, Oocyte Development, and Fat Body Utilization
B.J. Kopper, S. Shu, R.E. Charlton, and S.B. Ramaswamy
Ann. Entomol. Soc. Am. 94:427-432, 2001
- 98-442-J Microspines in the Alimentary Canal of Arthropoda, Onychophora, Annelida
R.J. Elzinga
Int. J. Insect Morphol. and Embryol. 27(3):341-349, 1998
- 98-484-J A Comparison of Sampling Techniques for Spider Mites and Spider Mite Predators in Corn
M.T. Messenger, L.L. Buschman, and J.R. Nechols
Southw. Entomol. 25(3):221-227, 2000

- 98-492-J Effects of Circadian Rhythms and Other Bioassay Factors on Cat Flea (Pulicidae: Siphonaptera) Susceptibility to Insecticides
R. L. Bossard, A.B. Broce, and M.W. Dryden
J. Kans. Entomol. Soc. 73:21-39, 2000
- 99-90-J Larval Feeding Behavior of Dipel-Resistant and Susceptible *Ostrinia nubilalis* (Hubner) on a Diet Containing *Bacillus thuringiensis* (Dipel ES)
F. Huang, L.L. Buschman, and R.A. Higgins
Entomol. Exper. Appl. 98:141-148, 2001
- 99-98-J Pupation Site Selection of Cat Fleas (Siphonaptera: Pulicidae) in Various Carpet Types and Its Effect on Insecticide Efficacy
R.J. Miller, M.W. Dryden, A.B. Broce, and D.R. Suiter
J. Econ. Entomol. 93(4):1391-1397, 2000
- 99-165-J Phylogentic Relationships among Genera of Aphidiinae Based on DNA Sequence of the Mitochondrial 16S rRNA Gene
S. Kambhampati, W. Völkl, and M. Mackauer
Syst. Entomol. 25:437-445, 2000
- 99-176-J Stream Invertebrate Communities, Water Quality, and Land Use Patterns in an Agricultural Drainage Basin of Northern Nebraska
M.R. Whiles, B.L. Brock, A.C. Franzen, and S. Dinsmore II
Environ. Manag. 26:563-576, 2000
- 99-296-A Evolutionary Transitions in Aphidiinae (Hymenoptera: Braconidae)
P.T. Smith and S. Kambhampati
Proc. Fourth Intl. Hymenoptera Conf.
In: *Hymenoptera: Evolution, Biodiversity and Biological Control*. A.D. Austin & M. Dowton (Eds.)
CSIRO Publishing, 106-133, 2000
- 99-515-J Notes on the Behavior of *Speyeria idalia* (Drury) (Lepidoptera: Nymphalidae) Larvae with Implications that they are Diurnal Foragers
B.J. Kopper, D.C. Margolies, and R.E. Charlton
J. Lepidop. Soc. 54:96-97, 2001
- 99-516-J Life History Notes on the Regal Fritillary, *Speyeria idalia* (Drury) (Lepidoptera: Nymphalidae), in Kansas Tallgrass Prairie
B.J. Kopper, D.C. Margolies, and R.E. Charlton
J. Kans. Entomol. Soc. 74:51-56, 2001
- 00-2-J Quantification of the Nitrogen Cycle in a Prairie Stream
W.K. Dodds, M.A. Evans-White, N.M. Gerlanc, L.J. Gray, D.A. Gudder, M.J. Kemp, A.L. Lopez, D. Stagliano, E.A. Strauss, J.L. Tank, M.R. Whiles, and W.M. Wollheim
Ecosystems 3:574-589, 2001

Publications of Station Scientists

- 00-50-J Host Range Differences between Two Strains of Wheat Curl Mites (Acari: Eriophyidae)
T.L. Harvey, D.L. Seifers, and T.J. Martin
J. Agric. and Urban Entom. 18:35-41, 2001
- 00-68-J Emergence of Periodical Cicada from a Kansas Riparian Forest: Densities, Biomass, and Nitrogen Flux
M.R. Whiles, C.K. Meyer, M.A. Callahan, B.L. Brock, and R.E. Charlton
Am. Midl. Nat. 145:176-187, 2001
- 00-90-J Preliminary Survey of Ticks (Acari: Ixodidae) Parasitizing Wild Turkeys (Aves: Phasianidae) in Eastern Kansas
D.E. Mock, R.D. Applegate, and L.B. Fox
J. Med. Entomol. 38(1):118-121, 2001
- 00-99-J *Choristoneura fumiferana* Entomopoxvirus Prevents Metamorphosis by Modulating Juvenile Hormone and Ecdysteroid Titers
S.R. Palli, T.R. Ladd, W.L. Tomkins, S. Shu, S. Ramaswamy, Y. Tanaka, and A. Retnakaran
Insect Biochem. and Molec. Biol. 30:869-876, 2000
- 00-111-J Role of Juvenile Hormone-Esterase in Mating - Stimulated Egg Development in the Moth, *Heliothis virescens*
S. Ramaswamy, S. Shu, G. Mbata, A. Rachinsky, L. Crigler, D. Shalana, and A. Srinivasan
Insect Biochem. and Molec. Biol. 30:785-791, 2000
- 00-137-J Detection of Parasitized Fly Puparia by Using Near-Infrared Spectroscopy
F.E. Dowell, A.B. Broce, F. Xie, J.E. Throne, and J.E. Baker
J. Near Infrared Spectroscopy 8:259-265, 2000
- 00-151-J Photoperiodic Regulation of Seasonal Diapause Induction in the Field Bindweed Moth *Tyta luctuosa* (Lepidoptera: Noctuidae)
N.W. Miller, J.R. Nechols, M.J. Horak, and T.M. Loughin
Biol. Cont. 19:139-148, 2000
- 00-182-J Oviposition Site Selection by the Regal Fritillary, *Speyeria idalia*, as Affected by Proximity of Violet Host Plants
B.J. Kopper, R.E. Charlton, and D.C. Margolies
J. Insect Behavior 13:651-665, 2000
- 00-183-J Survey and Evaluation of Native and Released Predators of the Banks Grass Mite (Acari: Tetranychidae) in Corn and Surrounding Vegetation
M.T. Messenger, L.L. Buschman, and J.R. Nechols
J. Kans. Entomol. Soc. 73(2):112-122, 2001
- 00-196-J Registration of Seven Biotype I Greenbug-Resistant Restorer Germplasm Lines of Sorghum
K.D. Kofoid and T.L. Harvey
Crop Sci. 40:1510-1511, 2000
- 00-197-J Registration of Biotype E Greenbug-Resistant Grain Sorghum Germplasm
K.D. Kofoid and T.L. Harvey
Crop Sci. 40:1509-1510, 2000
- 00-259-A Corn Borer Resistance and Grain Yield for Bt and non-Bt Corn Hybrids, 1999
L. Buschman, P. Sloderbeck, R. Higgins, and M. Witt
Arthropod Management Tests 25:M4, 2000
- 00-294-J 1998 Distribution of Brood IV *Magicalcada* (Homoptera: Cicadidae) in Kansas
R.J. Bauernfeind
J. Kans. Entomol. Soc. 73(4): 238-241, 2000
- 00-297-J Registration of 'Trego' Wheat
T.J. Martin, R.G. Sears, D.L. Seifers, T.L. Harvey, M.D. Witt, P.J. McCluskey, A.J. Schlegel, and J.H. Hatchett
Crop Sci. 41:929-930, 2001
- 00-303-J Occurrence of Greenbug Biotype K in the Field
S.D. Kindler, T.L. Harvey, G.E. Wilde, R.A. Shufran, H.L. Brooks, and P.E. Sloderbeck
J. Agric. Urban Entomol. 18(1):23-34, 2001
- 00-307-J Organophosphate Resistance Mediated by Alterations of Acetylcholinesterase in a Resistant Clone of the Greenbug, *Schizaphis graminum* (Homoptera: Aphididae)
K.Y. Zhu, J.-R. Gao, and S.R. Starkey
Pestic. Biochem. Physiol. 68:138-147, 2001
- 00-317-J Seed Treatment for Control of Wheat Insect Pests and Its Effect on Yield
G.E. Wilde, R.J. Whitworth, M. Claassen, and R. Shufran
J. Agric. and Urban Entomol. 18:1-11, 2001
- 00-397-J Comparative Toxicity of Selected Organophosphate Insecticides against Resistant and Susceptible Clones of the Greenbug, *Schizaphis graminum* (Homoptera: Aphididae)
J.-R. Gao and K.Y. Zhu
J. Agric. Food Chem. 48:4717-4722, 2000
- 00-398-J Distribution and Abundance of Insecticide Resistant Greenbugs (Homoptera: Aphididae) and Validation of a Bioassay to Assess Resistance
G. E. Wilde, R.A. Shufran, S.D. Kindler, H.L. Brooks, and P.E. Sloderbeck
J. Econ. Entomol. 94(2):547-551, 2001
- 00-407-J Microsatellite Markers Linked to Six Russian Wheat Aphid Resistance Genes in Wheat
X.M. Liu, C.M. Smith, B.S. Gill, and V. Tolmay
Theor. and Appl. Genet. 102:504-510, 2001

Publications of Station Scientists

- 00-424-J Coevolution between a Cockroach and Its Bacterial Endosymbionts: A Biogeographical Perspective
J.W. Clark, S. Hossain, C.A. Burnside, and S. Kambhampati
Proc. Royal Soc. London B 218:393-398, 2001
- 00-459-J Oxidative Conjugation of Catechols with Proteins in Insect Skeletal Systems
K.J. Kramer, M.R. Kanost, T.L. Hopkins, H. Jiang, Y.C. Zhu, R. Xu, J.L. Kerwin, and F. Turecek
Tetrahedron 57, 385-392, 2001
- 00-480-J Host Plant-Induced Changes in Detoxification Enzymes and Susceptibility to Pesticides in the Twospotted Spider Mite (Acari: Tetranychidae)
X. Yang, D.C. Margolies, K.Y. Zhu, and L.L. Buschman
J. Econ. Entomol. 94:381-387, 2001
- 00-506-J A New County Breeding Record for Black-Billed Magpies: Symptom of Habitat Changes in a Grassland Landscape
S.L. Winter, R.E. Charlton, and J.F. Cully Jr.
Bull. Kans. Ornitholog. Soc. 51(3):25-28, 2000
- 01-55-J Rediscovery of Woolly Milkweed, *Asclepias lanuginosa* Nutt. (Asclepiadaceae), in Saline County, and Management Considerations
S.L. Winter and R.E. Charlton
Trans. Kans. Acad. Sci. 103:185-190, 2001
- 01-122-J Comparative Susceptibility and Possible Detoxification Mechanisms for Selected Miticides in Banks Grass Mite and Two-spotted Spider Mite (Acari: Tetranychidae)
X. Yang, K.Y. Zhu, L.L. Buschman, and D.C. Margolies
Exper. and Appl. Acarol. 25:293-299, 2001
- 01-150-J No Effect of *Bacillus thuringiensis* Corn and *Bacillus thuringiensis* on the Predator *Orius insidiosus*
M. Al-Deeb, G. Wilde, and R. Higgins
Envir. Entomol. 30(3):625-629, 2001
- 01-175-B Ectoparasite Control in Small Ruminants
D.P. Gnad and D.E. Mock
In: *Veterinary Clinics of North America: Food Animal Practice*. David C. Van Metre (Ed.)
W.B. Saunders Co., 245-263, 2001
- 01-179-J An Acetylcholinesterase Purified from the Greenbug (*Schizaphis graminum*) with Some Unique Enzymological and Pharmacological Properties
J.-R. Gao and K.Y. Zhu
Insect Biochem. and Molec. Biol. 31:1095-1104, 2001
- 01-206-J Lepidopteran Peritrophic Membranes and Effects of Dietary Wheat Germ Agglutinin on Their Formation and Structure
T. Hopkins and M. Harper
Arch. Insect Biochem. and Physiol. 47:100-109, 2001
- 01-250-J Evidence of Evolving Carbaryl Resistance in Western Corn Rootworm, *Diabrotica virgifera virgifera* (Coleoptera: Chrysomelidae) in Areawide-Managed Cornfields in North Central Kansas
K.Y. Zhu, G.E. Wilde, R.A. Higgins, P.E. Sloderbeck, L.L. Buschman, R.A. Shufan, R.J. Whitworth, S.R. Starkey, and F. He
J. Econ. Entomol. 94:929-934, 2001
- 01-293-A Comparison of Regent and Counter for Controlling Corn Rootworm and Southwestern Corn Borer Larvae
L. Buschman and P. Sloderbeck
Arthropod Manag. Tests 26:F8, 2001
- 01-294-A Efficacy of Cry1F Corn for the Control of Southwestern Corn Borer
L. Buschman, P. Sloderbeck, and M. Witt
Arthropod Manag. Tests 26:M2, 2001
- 01-349-J Geographic Distribution of, and Genetic Variation in the Wood Roach *Cryptocercus* in the United States
B. Stenimiller, S. Kambhampati, and B. Brock
Annals of Ent. Soc. Amer. 94:732-742, 2001
- 01-397-S Field Research 2001 Agronomy Experiment Fields
L.E. Maddux, K. Janssen, D.A. Whitney, G.M. Pierzynski, B. Gordon, M.M. Claassen, K.L. Roozeboom, K. Al-Khatib, D.E. Peterson, D.L. Fjell, V.L. Martin, K. McVay, R. Vanderlip, W.F. Heer, C. Rice, G. Wilde, R. Taylor, G.A. Clark, S. Staggenborg, B. Wood, and S.R. Duncan
Kans. Agric. Expt. Stn. Rep. Prog. 876, 1-134, May 2001

Food Animal Health and Management Center

- 00-45-J Feeding Management during Sow Lactation
S.S. Dritz, M.D. Tokach, R.D. Goodband, and J.L. Nelssen
Comp. Cont. Educ. Pract. Vet. 22(9):s126-s131, 2000
- 00-157-J A Longitudinal Study of *Escherichia coli* O157:H7 on Cow-Calf Farms in Kansas
J.M. Sargeant, J.R. Gillespie, R.D. Oberst, R.K. Phebus, D.R. Hyatt, L.K. Bohra, and J.C. Galland
Am. J. Vet. Res. 61:1375-1379, 2000
- 00-171-J Development of a Rapid 5' Nuclease (TaqMan) Assay for the Detection of Pathogenic Strains of *Yersinia enterocolitica*
A. Vishnubhatla, D.Y.C. Fung, R.D. Oberst, M.P. Hays, T.G. Nagaraja, and S.J.A. Flood
Appl. and Envir. Microbiol. 66(9):4731-4735, 2000
- 00-238-J Comparison of Cultivation and PCR-Hybridization for Detection of *Salmonella* in Porcine Fecal and Water Samples
I. Feder, J.C. Nietfeld, J. Galland, T. Yearly, J.M. Sargeant, R.D. Oberst, M.L. Tamplin, and J.G. Luchansky
J. Clin. Microbiol. 39:2477-2484, 2001

Publications of Station Scientists

- 00-279-J Effects of Pelleting and Pellet Conditioning Temperatures on Weanling Pig Performance
M.U. Steidinger, R.D. Goodband, M.D. Tokach, S.S. Dritz, J.L. Nelssen, L.J. McKinney, B.S. Borg, and J.M. Campbell
J. Anim. Sci. 78:3014-3018, 2000
- 00-312-J Diagnosis and Evaluation of Economic Impact of Inadequate Zinc Oxide Supplementation Aided by Analysis of Nursery Performance Records
L.M. Tokach, S.S. Dritz, and M.D. Tokach
Swine Health and Prod. 8:229-233, 2000
- 00-387-J Sorting Growing-Finishing Pigs by Weight Fails to Improve Growth Performance or Weight Variation
P.R. O'Quinn, S.S. Dritz, R.D. Goodband, M.D. Tokach, J.C. Swanson, J.L. Nelssen, and R.E. Musser
Swine Health and Prod. 9:11-16, 2001
- 00-401-J Infrared Thermography of Meat Body Surface Temperature in Relation to Ambient Temperature and Following an Acute *Actinobacillus pleuropneumoniae* Infection in Growing Pigs
J. A. Loughmiller, M.F. Spire, S.S. Dritz, B.W. Fenwick, M.H. Hosni, and S.B. Hogge
Am. J. Vet. Res. 62:676-681, 2001
- 00-412-J Evaluation of a 5' Nuclease (TaqMan) Assay for the Detection of Virulent Strains of *Yersinia enterocolitica* in Raw Meat and Tofu Samples
A. Vishnubhatla, R.D. Oberst, D.Y.C. Fung, W. Wonglumsom, M.P. Hays, and T.G. Nagaraja
J. Food Protect. 68:355-360, 2001
- 00-441-J Effects of Dietary Fat on Growth Performance and Carcass Characteristics of Growing-Finishing Pigs Reared in a Commercial Environment
M. De La Llata, S.S. Dritz, M.D. Tokach, R.D. Goodband, J.L. Nelssen, and T.M. Loughin
J. Anim. Sci. 79:2643-2650, 2000
- 00-445-J Economics of Increasing Lysine: Calorie Ration and Dietary Fat Addition for Growing-Finishing Pigs Reared in a Commercial Environment
M. De La Llata, S.S. Dritz, M.R. Langemeier, M.D. Tokach, R.D. Goodband, and J.L. Nelssen
J. Swine Health and Prod. 9(5):215-223, 2001
- 01-14-J Sensitivity and Specificity of Somatic Cell Count and California Mastitis Test for Identifying Intramammary Infection in Quarter Milk Samples in Early Lactation
J.M. Sargeant, K.E. Leslie, J.E. Shirley, B.J. Pulkrabek, and G.H. Lim
J. Dairy Sci. 84:2018-2024, 2001
- 01-108-J Prevalence, Antibiotic Susceptibility, and Diversity of *E. coli* O157:H7 Isolates from a Longitudinal Study of Beef Cattle Feedyards
J.C. Galland, D.R. Hyatt, S.S. Crupper, and D.W. Acheson
Appl. Environ. Microbiol. 67(4):1619-1627, 2001
- 01-138-S Swine Day 2000
R.D. Goodband, M.D. Tokach, S.S. Dritz, K.C. Dhuyvetter, J.M. DeRouche, J.D. Hancock, R.H. Hines, C.A. Maloney, D.J. Lee, D.W. Dean, H. Cao, J.S. Park, E.I. Evans, J.S. Stevenson, D.L. Davis, B.W. James, J.L. Nelssen, D.E. Real, M.J. Rinker, M.U. Steidinger, S.D. Carter, K.Q. Owen, J.L. Turner, J.R. Werner, C.M. Hill, K. Skjolaas, S. Hogge, J.E. Minton, K. Herkleman, J.C. Woodworth, M.J. Webster, C.L. Jones, K.C. Behnke, C.M. Sowder, L.J. McKinney, M. De La Llata, J.A. Unruh, E. Alonso, P.R. O'Quinn, B.S. Andrews, N. Said, T.L. Gule, C.W. Starkey, D.H. Kropf, K.A. Hachmeister, N. Amornthewaphat, J.C. Swanson, R.E. Musser, J.A. Loughmiller, M.F. Spire, B.Z. Predicala, R.G. Maghirang, S.B. Jerez, J.E. Urban, M.C. Hunt, and C.L. Kastner
Kans. Agric. Exp. Stn. Rep. Prog. 858, 1-158, November 2000
- 01-166-S Dairy Day 2000
J.S. Stevenson, K.A. Schmidt, M.J. Brouk, J.F. Smith, K.K. Bolsen, B.E. Brent, M.K. Seifers, M.E. Uriarte, T.E. Schmidt, R.V. Pope, T.D. Strahm, J.P. Harner, D.V. Key, J.P. Murphy, D.G. Schmidt, D.P. Gnad, J.M. Sargeant, J.E. Shirley, J. Isch, H. Bathina, J. Lising, K.C. Dhuyvetter, J.M. DeFrain, L.A. Whitlock, A.F. Park, M.J. Meyer, E.C. Titgemeyer, T.T. Marston, J.F. Gleghorn, L.E. Wankel, M.J. VanBaale, M.V. Scheffel, R.U. Lindquist, E.E. Ferdinand, J.A. Cartmill, S.E. Zarkouny, and B.A. Hensley
Kans. Agric. Exp. Stn. Rep. Prog. 861, 1-69, November 2000

Grain Science and Industry

- 97-524-J Single-Fiber Analysis by ATR Infrared Microspectroscopy
L. Cho, J.A. Reffner, B.M. Gatewood, and D.L. Wetzel
J. Forensic Sci. 46:1309-14, 2001
- 98-31-J Effectiveness of Rinses in Alleviating Bitterness and Astringency Residuals in Model Solutions
G.L. Brannan, C.S. Setser, and K.E. Kemp
J. Sensory Studies 16:261-175, 2001
- 98-443-J Effects of Extrusion Temperature and Moisture Content on Physical Properties of Starch-Based Foams
J.Y. Cha, D.S. Chung, and P.A. Seib
Trans. Am. Soc. Ag. Eng. 42:1765-1770, 2000

Publications of Station Scientists

- 99-53-B Current and Potential Applications of Soy Protein Polymers
X. Sun
In: *Polymers from Renewable Resources*, R. Gross (Ed.)
ACS Publications, Washington, DC, 2001
- 99-154-J Evaluation of Processes to Enhance Grain and Meat Coproducts
J.Y. Cha, R.A. Flores, and C. Kastner
J. Food Process Engin. 23:353-371, 2000
- 99-210-J Sensory Characterization of Sorghum Composite Bread
L. Carson, C. Setser, and X.S. Sun
Intl. J. Food Sci. and Tech. 35:465-471, 2000
- 99-293-J Interaction of Astringency and Taste Characteristics
G. Brannan, C. Setser, and K.E. Kemp
J. Sensory Stud. 16:179-197, 2001
- 99-341-A Bread-Making Potential of Food-Grade Sorghum
X. Sun and L. Carson
Proc. Value Enhanced Grains Conf. II, U.S. Grains Council, 1999
- 99-342-B Novel Materials from Agroproteins: Adhesives from Modified Soy Protein Polymers
X. Sun and K. Bian
In: *Polymers from Renewable Resources*, R. Gross (Ed.)
ACS Publisher, Washington, DC, 2001
- 99-350-B Biological Applications of FT-IR Microspectroscopy
D. Wetzel and S. LeVine
In: *Infrared and Raman Spectroscopy of Biological Materials*, H.-U. Gremlich and B. Yan (Eds.)
Marcel Dekker, New York, 101-142, 2000
- 00-137-J Detection of Parasitized Fly Puparia by Using Near-Infrared Spectroscopy
F.E. Dowell, A.B. Broce, F. Xie, J.E. Throne, and J.E. Baker
J. Near Infrared Spectroscopy 8:259-265, 2000
- 00-138-J Comparison of Asian Noodles from Some Hard White and Hard Red Wheat Flours
P.A. Seib, X. Liang, F. Guan, Y.T. Liang, and H.C. Yang
Cereal Chem. 76:816-822, 2000
- 00-162-J Storage of Pelleted Wheat Middlings in Farm Bins
C. Reed, D. Trigo-Stockli, D.A. Blasi, and F.J. Fairchild
Anim. Feed Sci. and Tech. 88:47-58, 2000
- 00-224-J Mechanical and Thermal Properties of Starch and Poly (Lactic Acid) with Varying Blending Ratios
T.Y. Ke and X. Sun
Cereal Chem. 77(6):761-768, 2000
- 00-225-J Effects of Moisture Content and Heat Treatment on Physical Properties of Starch and Poly (Lactic Acid) Blends
T.Y. Ke and X. Sun
J. Appl. Polymer Sci. 81:3069-3082, 2001
- 00-262-J Infrared Spectroscopy Goes Microscopic: More and More Information from Less and Less Sample
D.L. Wetzel and J.A. Reffner
Chemistry & Industry 9:308-313, 2000
- 00-279-J Effects of Pelleting and Pellet Conditioning Temperatures on Weanling Pig Performance
M.U. Steidinger, R.D. Goodband, M.D. Tokach, S.S. Dritz, J.L. Nelssen, L.J. McKinney, B.S. Borg, and J.M. Campbell
J. Anim. Sci. 78:3014, 2000
- 00-295-J Registration of 'Heyne' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1367, 2001
- 00-296-J Registration of 'Betty' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1366, 2001
- 00-297-J Registration of 'Trego' Wheat
T.J. Martin, R.G. Sears, D.L. Seifers, T.L. Harvey, M.D. Witt, A.J. Schlegel, P.J. McCluskey, and J.H. Hatchett
Crop Sci. 41:929-930, 2001
- 00-305-J Creep-Recovery of Bread and Its Textural Attributes
L. Carson and X.S. Sun
Cereal Chem. 78(1):101-104, 2000
- 00-343-B Tunable Filter and Discrete Filter Near-Infrared Spectrometers
D.L. Wetzel, A. J. Eilert, and J. A. Sweat
In: *Handbook of Vibrational Spectroscopy*, J.M. Chalmers and P.R. Griffiths (Eds.)
John Wiley & Sons, Ltd., London, 2001
- 00-346-J Characterization of Receiving Systems and Operating Performance of Kansas Grain Elevators during Wheat Harvest
T. Herrman, S. Baker, and F. Fairchild
Appl. Engin. Agric. 17(1):77-82, 2001
- 00-381-J Compression and Tensile Strength of Low Density Straw-Protein Particleboard
X. Mo, J. Hu, X.S. Sun, and J. Ratto
J. Ind. Crops and Prod. 14:1-9, 2001

Publications of Station Scientists

- 00-421-J Adhesion Properties of Soy Protein with Fiber Cardboard
Z. Zhong, X.S. Sun, X. Fang, and J.A. Ratto
J. Am. Oil Chem. Soc. 78(1):37-41, 2000
- 00-426-J The Use of SDS to Extract Sorghum and Maize Proteins for Free Zone Capillary Electrophoresis (FZCE) Analysis
S.R. Bean, C. Hicks, M. Tuinstra, and G.L. Lookhart
Cereal Chem. 78:84-87, 2001
- 00-460-J Thermal and Mechanical Properties and Water Absorption of Soy Protein Isolate/Polycaprolactone Blends
Z. Zhong and X.S. Sun
Polymers 42:6961-6969, 2001
- 01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties
K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000
- 01-53-J Genetic Analysis of Kafirins and Their Associations with Feed Quality Traits, *in vitro* Digestibility, and Seed Weight in Grain Sorghum
C. Hicks, S. Bean, G. Lookhart, J. Pederson, K. Kofoed, and M.R. Tuinstra
Cereal Chem. 78:412-416, 2001
- 01-64-J Influence of Environmental, Structural, and Behavioral Factors on the Presence of Phosphine in Worker Areas during Fumigations in Grain Elevators
C. Reed
J. Agric. Safety and Health 7:21-34, 2001
- 01-120-B Optics and Sample Handling for Near-Infrared Diffuse Reflection
A.J. Eilert and D.L. Wetzel
In: *Handbook of Vibrational Spectroscopy*, J.M. Chalmers and P.R. Griffiths (Eds.)
John Wiley & Sons, Ltd., London, 2001
- 01-127-J Parabolic Concentration of Diffusely Transmitted Near-IR Radiation in an Acousto-Optic Tunable Filter Spectrometer
A.J. Eilert, J.A. Sweat, and D.L. Wetzel
J. Near Infrared Spectroscopy 8:239-250, 2000
- 01-132-J Near Infrared Acousto-Optic Tunable Filter-Based Instrumentation for the Measurement of Dynamic Spectra of Polymers
J.A. Sweat and D.L. Wetzel
Rev. Sci. Instr. 72(4):2153-2158, 2001
- 01-135-J Thermal and Mechanical Properties of Plastics Molded from Urea-Modified Soy Protein Isolates
W. Mo and X. Sun
J. Am. Oil Chem. 78:867-872, 2001
- 01-138-S Swine Day 2000
R.D. Goodband, M.D. Tokach, S.S. Dritz, K.C. Dhuyvetter, J.M. DeRouche, J.D. Hancock, R.H. Hines, C.A. Maloney, D.J. Lee, D.W. Dean, H. Cao, J.S. Park, E.I. Evans, J.S. Stevenson, D.L. Davis, B.W. James, J.L. Nelssen, D.E. Real, M.J. Rinker, M.U. Steidinger, S.D. Carter, K.Q. Owen, J.L. Turner, J.R. Werner, C.M. Hill, K. Skjolaas, S. Hogge, J.E. Minton, K. Herkleman, J.C. Woodworth, M.J. Webster, C.L. Jones, K.C. Behnke, C.M. Sowder, L.J. McKinney, M. De La Llata, J.A. Unruh, E. Alonso, P.R. O'Quinn, B.S. Andrews, N. Said, T.L. Gugle, C.W. Starkey, D.H. Kropf, K.A. Hachmeister, N. Amornthwaphat, J.C. Swanson, R.E. Musser, J.A. Loughmiller, M.F. Spire, B.Z. Predicala, R.G. Maghirang, S.B. Jerez, J.E. Urban, M.C. Hunt, and C.L. Kastner
Kans. Agric. Exp. Stn. Rep. Prog. 858, 1-158, 2000
- 01-191-J Reduced-Amylose Wheats and Asian Noodles
P.A. Seib
Cereal Foods World 45:504-512, 2000
- 01-285-S Grain Quality Components of Corn Hybrids
K. Roozeboom and T. Herrman
Kans. Agric. Expt. Stn. Keeping Up With Research 130, January 2001
- 01-388-J Tyrosine Crosslinks: The Molecular Basis of Gluten Structure and Function
K.A. Tilley, R.E. Benjamin, K.E. Bagorogoza, R. M. Okot-Kotber, O. Prakash, and H. Kwen
J. Agric. and Food Chem. 49:2627-2632, 2001

Horticulture, Forestry and Recreation Resources

- 98-289-J Woody Vegetation Protects Streambank Stability during the 1993 Flood in Central Kansas
W. Geyer, T. Neppel, and K. Brooks
J. Soil Cons. 55(4):483-486, 2000
- 00-130-J Methyl Jasmonate and Long-Term Storage of Fresh-Cut Peony Flowers
K. Gast
Acta Hort. 543:327-330, 2001
- 00-167-J Identification of Bud Maturity Indicators for Fresh-Cut Peony Flowers
K.L.B. Gast, J. McLaren, and R. Kampjes
Acta Hort. 543:317-325, 2001
- 00-349-A Artificial Nests Containing House Sparrow Eggs Approximate Natural Nest Depredation Rates: Evidence from Kansas Riparian Grasslands
J. Rivers, T. Cable, and J. Pontius
Proc. Wildlife Soc. Ann. Conf., 168, 2000

Publications of Station Scientists

- 00-359-J Development of Brown Patch and Pythium Blight in Tall Fescue as Affected by Irrigation Frequency, Clipping Removal, and Fungicide Application
D. Settle, J. Fry, and N. Tisserat
Plant Dis. 85:543-546, 2001
- 00-368-J *Agrobacterium*-Mediated Transformation of Creeping Bentgrass Using GFP as a Reporter Gene
T.T. Yu, D.Z. Skinner, H.N. Trick, B. Huang, S. Muthukrishnan, and G.H. Liang
Hereditas 133:229-233, 2000
- 00-492-T Myron Bigger Peony Show Garden
K.L.B. Gast
Peony Quart. 1(2):19, 2000
- 00-503-J Effects of Irrigation Frequency on Brown Patch in Perennial Ryegrass
J. Fry, N. Tisserat, and D. Settle
Intl. Turfgrass Res. J. 9:710-714, 2001
- 00-507-J Using Flowering Ornamentals to Guide Application of Pre-emergence Herbicides in the Midwestern U.S.
J. Fry, S. Rodie, S. Wiest, W. Upham, and A. Zuk
Intl. Turfgrass Res. J. 9:1009-1012, 2001
- 01-45-J Effects of Imaziquin and Pendimethalin Alone and Combined on 15 Woody Plant Species
W.A. Geyer and W.H. Fick
Res. Rep. N. Cent. Weed Sci. Soc., 57:79-81 2000
- 01-83-T Cattle and Pecans: An Old Story that Needs Updating
W. Reid
Pecan South 33(7):4, 22, 2001
- 01-113-J Dollar Spot and Brown Patch Fungicide Management Strategies in Four Creeping Bentgrass Cultivars
J. Fry, D. Settle, and N. Tisserat
Crop Sci. 41:1190-1197, 2001
- 01-121-T Why Some Grasses Are Efficient Water Users
J. Fry
Turf Producers Intl. Newsletter, 2001
- 00-156-S 2000 Evaluation of Postharvest Life of Selected Fresh-Cut Flowers and Greenery
K.L.B. Gast and R. Inch
Kans. Agric. Exp. Stn. Rep. Prog. 859, 1-4, October 2000
- 01-181-S Seasonal Avian Use of Farmed Kansas Wetlands
J.W. Rivers, T.T. Cable, and C. Lee
Kans. Agric. Exp. Stn. Rep. Prog. 863, 1-27, January 2001
- 01-194-S 1999 Production and Postharvest Evaluations of Fresh-Cut Peonies
K.L.B. Gast
Kans. Agric. Exp. Stn. Rep. Prog. 864, 1-18, Nov. 2000
- 01-210-S 2000 Production and Postharvest Evaluations of Fresh-Cut Peonies
K.L.B. Gast
Kans. Agric. Exp. Stn. Rep. Prog. 866, 1-21, November 2000
- 01-214-T Bentgrass Cultivar Selection Influences Disease Management Strategy
J. Fry, D. Settle, and N. Tisserat
Illinois Golf Course Superintendents' Newsletter, 2000
- 01-247-S Kansas Fertilizer Research 2000
R.E. Lamond, H.D. Bond, M.M. Claassen, S.R. Duncan, D.L. Fjell, R.J. Gehl, H.C. George, C.B. Godsey, W.B. Gordon, K.A. Janssen, G.L. Kilgore, L.D. Maddux, C.W. Marr, V.L. Martin, T.M. Maxwell, J.L. Moyer, B.J. Niehues, C.J. Olsen, G.M. Pierzynski, K. Rector, A.J. Schlegel, J.P. Schmidt, G.J. Schwab, J.P. Shroyer, S.A. Staggenborg, D.W. Sweeney, R.K. Taylor, C.A. Thompson, C.R. Thompson, and D.A. Whitney
Kans. Agric. Expt. Stn. Rep. Prog. 868, 1- 98, January 2001
- 01-248-T Peonies and Storage Diseases
K.L.B. Gast
Greenhouse Prod. News. 11(January): 18-20, 2001
- 01-379-S 2001 Agricultural Research Southeast Agricultural Research Center
L.W. Lomas, J.L. Moyer, D.W. Sweeney, K.W. Kelley, J.H. Long, R. Jones, C.W. Marr, T. Todd, M. Knapp, S. Staggenborg, F.K. Brazle, G.L. Kilgore, and S. Duncan
Kans. Agric. Exp. Stn. Rep. of Prog. 875, 1-70, May 2001
- 01-421-S 2001 Turfgrass Research
L.R. Parsons, J.D. Fry, N.A. Tisserat, A. Zuk, J. Lee, R. Kraft, S. Keeley, and D. Settle
Kans. Agric. Exp. Stn. Rep. of Prog. 878, 1-59, June 2001

Hotel, Restaurant, Institution Management and Dietetics

- 98-441-J Solid Waste Management Practices in U.S. Army Medical Treatment Facilities
G. Dilly and C.W. Shanklin
Military Med. 165(4):302-304, 1999
- 99-418-J Environmental Practices and Management Concerns of Conference Centers Administrators
K. Wolfe and C.W. Shanklin
J. Hospitality and Tourism Res. 25(2):290:316, 2001
- 99-419-J Environmental Practices and Concerns of Conference Centers
K. Wolfe and C.W. Shanklin
Proms. J. Appl. Hospitality Manag. 3(1):148-164, 2000

Publications of Station Scientists

- 99-519-J Indicators of Financial Self-Sufficiency in Kansas School Meal Programs
L. March and R. Gould
J. Child Nutr. and Manag. 25(1):30-35, 2001
- 00-300-J Waste Generated in a Rural School Foodservice Program
C.W. Shanklin, H.-S. Lee, and K.-E. Lee
J. Child Nutr. and Manag. 24(2):92-98, 2000
- 00-337-J Waste Characterization Study to Quantify Materials for Composting and Recycling in a Metropolitan School Food Service Program
K.-E. Lee, S.-H. Wie, and C.W. Shanklin
J. Child Nutr. and Manag. 25(1):43-47, 2001
- 00-477-J Elementary Students' Food Consumption at Lunch Does Not Meet U.S. Recommended Daily Allowances for Calories, Iron, and Vitamin A
H.-S. Lee, K.-E. Lee, and C.W. Shanklin
J. Am. Dietet. Assoc. 101(9):1060-1063, 2001
- 01-356-T Targeting the Food Service Sector Management Decisions
C.W. Shanklin
Biocycle 42(5):2-5, 2001
- Human Nutrition**
- 97-207-J Characteristics of Frankfurters Extended with Sorghum Flour
H. van Zyl and C.S. Setser
J. Food Qual. 24 (1):37-52, 2001
- 98-31-J Effectiveness of Rinses in Alleviating Bitterness and Astringency Residuals in Model Solutions
G.L. Brannan, C.S. Setser, and K.E. Kemp
J. Sensory Studies 16:261-175, 2001
- 99-210-J Sensory Characterization of Sorghum Composite Bread
L. Carson, C. Setser, and X.S. Sun
Intl. J. Food Sci. and Tech. 35:465-471, 2000
- 99-293-J Interaction of Astringency and Taste Characteristics
G. Brannan, C. Setser, and K.E. Kemp
J. Sensory Stud. 16:179-197, 2001
- 99-435-J Dry-Aging Effects on Palatability of Beef Strip Loins
R.E. Campbell, M.C. Hunt, P. Levis, and E. Chambers IV
J. Food Sci. 66(2):196-199, 2001
- 99-455-J Dietary Energy Effects on Surgically Induced Muscular Hypertrophy in Rats
K. Almurshed and K.K. Grunewald
British J. Nutr. 84:697-704, 2000
- 00-244-J The Importance of Caffeine as a Flavor Component in Beverages
A.A. Allison and E. Chambers IV
J. Sensory Studies 15:449-458, 2000
- 00-355-J Size Categories Most Effective for Estimating Portion Size of Muffins
B. McGuire, E. Chambers IV, S. Godwin, and S. Brenner
J. Am. Diet. Assoc. 101(4):470-472, 2001
- 01-79-J Phosphatidylcholine Inhibits and Lysophosphatidylcholine Enhances the Lymphatic Absorption of α -Tocopherol in Adult Rats
S.I. Koo and S.K. Noh
J. Nutr. 131:717-722, 2001
- 01-80-J Feeding of a Low-Zinc Diet Lowers the Tissue Concentrations of α -Tocopherol in Adult Rats
S.K. Noh and S.I. Koo
Biol. Trace Element Res. 81:153-168, 2001
- 01-81-J Intraduodenal Infusion of Lysophosphatidylcholine Restores the Intestinal Absorption of Vitamins A and E in Rats Fed a Low-Zinc Diet
S.K. Noh and S.I. Koo
Exp. Biol. Med. 226(4):342-348, 2001
- 01-82-J Enteral Infusion of Phosphatidylcholine Increases the Lymphatic Absorption of Fat, but Lowers α -Tocopherol Absorption in Rats Fed a Low Zinc Diet
S.K. Noh and S.I. Koo
J. Nutr. Biochem. 12:330-337, 2001
- 01-161-J Egg Phosphatidylcholine Decreases the Lymphatic Absorption of Cholesterol in Rats
Y. Jiang, S.K. Noh, and S.I. Koo
J. Nutr. 131:2358-2363, 2001
- 01-171-J Effect of α -Tocopherol, β -Carotene, and Sodium Tripolyphosphate on Lipid Oxidation of Cooked, Refrigerated Ground Turkey and Ground Pork
S. Vara-ubol and J.A. Bowers
J. Food Sci. 66(5):662-667, 2001

Publications of Station Scientists

Plant Pathology

- 96-501-J Modeling Wheat Leaf Rust Epidemics in the Central Great Plains of the USA
M.G. Eversmeyer and C.L. Kramer
Proc. 9th European and Mediterranean Cereal Rusts Conference; Lunteren, The Netherlands, 294-296, 1996
- 97-78-J Models of Early Spring Survival of Wheat Leaf Rust in the Central Great Plains
M.G. Eversmeyer and C.L. Kramer
Plant Dis. 82:987-991, 1998
- 99-464-B Trafficking of Plant Defense Response Compounds.
J.E. Leach, L. Lloyd, D. McGee, X. Wang, and J.A. Guikema
In: *Delivery and Perception of Pathogen Signals in Plants*, N.T. Keen, S. Mayama, J.E. Leach, and S. Tsuyumu, (Eds.)
APS Press, St. Paul, MN, 241-250, 2001
- 00-105-J Phosphorus, Potassium, Chloride, and Fungicide Effects on Wheat Yield and Leaf Rust Severity,
D.W. Sweeney, G.V. Granade, M.G. Eversmeyer, and D.A. Whitney
J. Plant Nutr. 23(9):1267-1281, 2000
- 00-200-A Effects of Seed Treatment Fungicides on Stand and Yield of Grain Sorghum, 1999
D. Jardine, M. Claassen, J.H. Long, and L. Maddux
Fungicide & Nematicide Tests 55: 458, 2000
- 00-308-B Enhanced Disease Resistance in Cereals by Transformation with Genes for Pathogenesis-Related Proteins
S. Muthukrishnan, G.H. Liang, H.N. Trick, and B.S. Gill
Plant Cell, Tissue, and Organ Culture 64:93-144, 2001
- 00-364-J Effects of Crop Rotation and Cultivar Resistance on Seed Yield and the Soybean Cyst Nematode in Full-Season and Double-Cropped Soybean
J.H. Long and T.C. Todd
Crop Sci. 41:1137-1143, 2001
- 00-368-J *Agrobacterium*-Mediated Transformation of Creeping Bentgrass Using GFP as a Reporter Gene
T.T. Yu, D.Z. Skinner, H.N. Trick, B. Huang, S. Muthukrishnan, and G.H. Liang
Hereditas 133:229-233, 2000
- 00-389-J Isolation and Characterization of Novel cDNA Clones of Acidic Chitinases and β -1,3-Glucanases from Wheat Spikes Infected by *Fusarium graminearum*
W.L. Li, J.D. Faris, S. Muthukrishnan, D.J. Liu, P.D. Chen, and B.S. Gill
Theor. and Appl. Genet. 102:353-362, 2001
- 00-393-J Cytogenetic and Molecular Mapping of the Leaf Rust Resistance Gene Lr39 in Wheat
W.J. Raupp, S. Singh, G.L. Brown-Guedira, and B.S. Gill
Theor. and Appl. Genet. 102:347-352, 2001
- 00-407-J Microsatellite Markers Linked to Six Russian Wheat Aphid Resistance Genes in Wheat
X.M. Liu, C.M. Smith, B.S. Gill, and V. Tolmay
Theor. and Appl. Genet. 102:504-510, 2001
- 01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties
K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000
- 01-8-J High Resolution Structural Analysis of Biolistic Transgene Integration into the Nuclear Genome of Wheat
S. Jackson, P. Zhang, W. Chen, R. Phillips, B. Friebe, S. Muthukrishnan, and B.S. Gill
Theor. Appl. Genet. 103:56-62, 2001
- 01-113-J Dollar Spot and Brown Patch Fungicide Management Strategies in Four Creeping Bentgrass Cultivars
J. Fry, D. Settle, and N. Tisserat
Crop Sci. 41:1190-1197, 2001
- 01-174-S 2000 Kansas Performance Tests with Corn Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kofoid, J. Long, A. Schlegel, M. Witt, M. Claassen, W. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 860, 1-65, October 2000
- 01-176-S Performance of Wheat Variety Blends in Kansas
R.L. Bowden, J.P. Shroyer, K. Roozeboom, M. Claassen, P. Evans, W.B. Gordon, B. Heer, K. Janssen, J. Long, J. Martin, A. Schlegel, R. Sears, and M. Witt
Kans. Agric. Expt. Stn. Keeping Up With Research 128, March 2001
- 01-222-S Kansas Performance Tests with Grain Sorghum Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kelley, K. Kofoid, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Exp. Stn. Rep. Prog. 865, 1- 57, Nov. 2000
- 01-230-A Effect of Cropping Sequence and Tillage on Severity of Leaf Diseases on Winter Wheat, 2000
W.W. Bockus and M.M. Claassen
Biol. and Cult. Tests 2001:S27

Publications of Station Scientists

- 01-274-A Effects of Seed Treatment Fungicides on Stand and Yield of Grain Sorghum, 2000
D.J. Jardine, M. Claassen, J.H. Long, and L. Maddux
Fungicide and Nematicide Tests ST28, 2001
- 01-281-J Success Stories: Breeding for Wheat Disease Resistance in Kansas
W.W. Bockus, J.A. Appel, R.L. Bowden, A.K. Fritz, B.S. Gill, T.J. Martin, R.G. Sears, D.L. Seifers, G.L. Brown-Guedira, and M.G. Eversmeyer
Plant Dis. 85(5) 453-461, 2001
- 01-379-S 2001 Agricultural Research Southeast Agricultural Research Center
L.W. Lomas, J.L. Moyer, D.W. Sweeney, K.W. Kelley, J.H. Long, R. Jones, C.W. Marr, T. Todd, M. Knapp, S. Staggenborg, F.K. Brazle, G.L. Kilgore, and S. Duncan
Kans. Agric. Exp. Stn. Rep. of Prog. 875, 1-70, May 2001

Sociology, Anthropology and Social Work

No KAES items published in fiscal year 2001

Statistics

- 98-31-J Effectiveness of Rinses in Alleviating Bitterness and Astringency Residuals in Model Solutions
G.L. Brannan, C.S. Setser, and K.E. Kemp
J. Sensory Studies 16:261-175, 2001
- 99-127-J Assessment of Avian Populations in Kansas Tallgrass Prairie: Two Survey Methods Compared
R.J. Robel, S.J. Antholz, K.E. Kemp, and C.B. Runco
Trans. Kansas Acad. Sci. 103:139-149, 2000
- 99-293-J Interaction of Astringency and Taste Characteristics
G. Brannan, C. Setser, and K.E. Kemp
J. Sensory Stud. 16:179-197, 2001
- 99-518-J Factors Influencing Mourning Dove Nest Success in CRP Fields
J. Hughes, R.J. Robel, and K. Kemp
J. Wildl. Manag. 64:1004-1008, 2000
- 00-104-J Effect of Different Processing Techniques on Motility and Acrosomal Integrity of Cold-Stored Stallion Spermatozoa
G.R. Dawson, G.W. Webb, J.A. Pruitt, T.M. Loughin, and M.A. Arns
J. Equine Vet. Sci. 20(3):191-193, 2000
- 00-118-J Effect of Ruminant vs Postruminant Administration of Degradable Protein on Utilization of Low-Quality Forage by Beef Steers
C.A. Bandyk, R.C. Cochran, T.A. Wickersham, E.C. Titgemeyer, C.G. Farmer, and J.J. Higgins
J. Anim. Sci. 79:225-231, 2001

- 00-151-J Photoperiodic Regulation of Seasonal Diapause Induction in the Field Bindweed Moth *Tyta luctuosa* (Lepidoptera: Noctuidae)
N.W. Miller, J.R. Nechols, M.J. Horak, and T.M. Loughin
Biol. Cont. 19:139-148, 2000
- 00-310-J Effects of Grazing System on Performance of Cow-Calf Pairs Grazing Bermudagrass Pastures Interseeded with Wheat and Legumes
L.W. Lomas, J.L. Moyer, G.A. Milliken, and K.P. Coffey
Prof. Anim. Sci. 16:1137-1143, 2001
- 00-349-A Artificial Nests Containing House Sparrow Eggs Approximate Natural Nest Depredation Rates: Evidence from Kansas Riparian Grasslands
J. Rivers, T. Cable, and J. Pontius
Proc. Wildlife Soc. Ann. Conf., 168, 2000
- 00-362-J Differentiation of Two Bovine Lentiviruses by a Monoclonal Antibody on the Basis of Epitope Specificity
L. Zheng, S. Zhang, C. Wood, S. Kapil, G. Wilcos, T.A. Loughin, and H. Minocha
Am. Soc. for Microbiol. 8:283-287, 2001
- 00-394-J Development of Porcine Embryos in vitro: Effects of Culture Medium and Donor Age
J.K. Peters, G. Milliken, and D.L. Davis
J. Anim. Sci. 79:1578-1583, 2000
- 00-404-J Interference of Palmer amaranth in Corn
R. A. Massinga, R.S. Currie, M.J. Horak, and J. Boyer Jr.
Weed Sci. 49:202-208, 2001
- 00-409-J Glufosinate Efficacy, Absorption, and Translocation in *Amaranthus* Species as Affected by Relative Humidity and Temperature
E. Coetzer, K. Al-Khatib, and T.M. Loughin
Weed Sci. 49:8-13, 2000
- 00-438-J Gene Flow, Growth, and Competitiveness of Imazethapyr-Resistant *Helianthus annuus*
M. Marshall, K. Al-Khatib, and T.M. Loughin
Weed Sci. 49:14-21, 2001
- 00-441-J Effects of Dietary Fat on Growth Performance and Carcass Characteristics of Growing-Finishing Pigs Reared in a Commercial Environment
M. De La Llata, S.S. Dritz, M.D. Tokach, R.D. Goodband, J.L. Nelssen, and T.M. Loughin
J. Anim. Sci. 79:2643-2650, 2000

Publications of Station Scientists

- 01-318-S Cattlemen's Day 2001
D.A. Blasi, R.A. Christmas, D.W. Moser, M.E. Dikeman, S.L. Stroda, J.S. Stevenson, B.A. Hensley, T.J. Marple, M.A. Medina-Britos, D.M. Grieger, T.A. Wickersham, R.C. Cochran, J.F. Gleghorn, T.T. Marston, L.E. Wankel, G.L. Kuhl, G.L. Huck, J. Mintert, T.C. Schroeder, T. Marsh, M.F. Spire, J.M. Sargeant, S.K. Tucker, A.M. Richardson, E.J. Pollak, R.D. Green, J. Taylor, S. Davis, T. Holm, S. Koontz, C. Gill, E.A. Westcott, R.J. Lipsey, G.C. Lamb, S.J. Johnson, J.D. Lawrence, M.L. Hayenga, S.I. Paisley, J. Higgins, M.S. Holder, D.E. Kehler, B. Farran, J.J. Sindt, S.P. Montgomery, C. Birkelo, G.L. Stokka, T.G. Rozell, J.R. Brethour, D.O. Yauk, W.V. Welshons, G.E. Rottinghaus, J.L. Davidson, D.E. Kehler, D.V. Dhuyvetter, C.G. Farmer, M.T. Ortega-Valenzuela, R.K. Phebus, H. Thippareddi, J.L. Marsden, C.L. Kastner, D.A. King, T.E. Lawrence, E. Obuz, E.J. Yancey, B.S. Andrews, J.A. Unruh, R.R. Timm, K.A. Hachmeister, L.M. Sammel, A.E. Rasor, M.C. Hunt, D.H. Kropf, P.B. Addis, E. Katsanidis, T.H. Montgomery, D.A. Shafer, B.D. Lambert, E.C. Titgemeyer, C.A. Loest, A.M. Trater, J.S. Drouillard, T.B. Farran, C.M. Coetzer, H.J. LaBrune, R.D. Hunter, R.A. Stock, S.B. Laudert, F.K. Brazle, T.J. Kessen, R.T. Ethington, J.N. Pike, and D.L. Lambert
Kans. Agric. Exp. Stn. Rep. Prog. 873, 1-110, January 2001
- 00-295-J Registration of 'Heyne' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1367, 2001
- 00-296-J Registration of 'Betty' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1366, 2001
- 00-297-J Registration of 'Trego' Wheat
T.J. Martin, R.G. Sears, D.L. Seifers, T.L. Harvey, M.D. Witt, A.J. Schlegel, P.J. McCluskey, and J.H. Hatchett
Crop Sci. 41:929-930, 2001
- 00-303-J Occurrence of Greenbug Biotype K in the Field
S.D. Kindler, T.L. Harvey, G.E. Wilde, R.A. Shufuran, H.L. Brooks, and P.E. Sloderbeck
J. Agric. and Urban Entomol. 18:23-34, 2001
- 00-353-J Efficacy and Metabolism of MON 37500 in *Triticum aestivum* and Weedy Grass Species as Affected by Temperature and Soil Moisture
B.L.S. Olson, K. Al-Khatib, P.W. Stahlman, and P.J. Isakson
Weed Sci. 48:541-548, 2000
- 00-50-J Host Range Differences between Two Strains of Wheat Curl Mites (Acari: Eriophyidae)
T.L. Harvey, D.L. Seifers, and T.J. Martin
J. Agric. and Urban Entom. 18:35-41, 2001
- 00-91-B Weeds and Their Control in Grain Sorghum
P.W. Stahlman and G.A. Wicks
In: *Sorghum: Origin, History, Technology, and Production*, C. Wayne Smith (Ed.)
John Wiley & Sons, New York, 535-590, 2000
- 00-196-J Registration of Seven Biotype I Greenbug Resistant Restorer Germplasm Lines of Sorghum
K.D. Kofoed and T.L. Harvey
Crop Sci. 40:1510-1511, 2000
- 00-197-J Registration of Biotype E Greenbug Resistant Grain Sorghum Germplasm
K.D. Kofoed and T.L. Harvey
Crop Sci. 40:1509-1510, 2000
- 00-267-J MON 37500 Efficacy as Affected by Rate, Adjuvants, and Carriers
B.L.S. Olson, K. Al-Khatib, P.W. Stahlman, and P.J. Isakson
Weed Tech. 14:750-754, 2000
- 00-374-J *Secale cereale* Interference and Economic Thresholds in Winter *Triticum aestivum*
T.A. Pester, P. Westra, R.L. Anderson, D. Lyon, S.D. Miller, P.W. Stahlman, and G.A. Wicks
Weed Sci. 48:720-727, 2000
- 00-400-J Winter Wheat and Grain Sorghum Production as Influenced by Depth of Soil Water, Tillage, and Cropping System.
C.A. Thompson
J. Soil and Water Cons. 56:56-63, 2001
- 01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties
K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000
- 01-53-J Genetic Analysis of Kafirins and Their Associations with Feed Quality Traits *in vitro* Digestibility, and Seed Weight Grain Sorghum
C. Hicks, S. Bean, G. Lookhart, J. Pederson, K. Kofoed, and M.R. Tuinstra
Cereal Chem. 78:412-416, 2001

Agricultural Research Center – Hays

Publications of Station Scientists

- 01-100-B A History of the Agricultural Research Center–Hays: The First 100 Years
W.M. Phillips
Kans. Agric. Expt. Stn. Bull. 663, 1-132, April 2001
- 01-174-S 2000 Kansas Performance Tests with Corn Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kofoid, J. Long, A. Schlegel, M. Witt, M. Claassen, W. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 860, 1-65, October 2000
- 01-176-S Performance of Wheat Variety Blends in Kansas
R.L. Bowden, J.P. Shroyer, K. Roozeboom, M. Claassen, P. Evans, W.B. Gordon, B. Heer, K. Janssen, J. Long, T.J. Martin, A. Schlegel, R. Sears, and M. Witt
Kans. Agric. Expt. Stn. Keeping Up With Research 128, March 2001
- 01-195-J Evaluation of Models Predicting Winter Wheat Yield as a Function of Winter Wheat and Jointed Goatgrass Densities
M. Jasieniuk, B.D. Maxwell, R.L. Anderson, J.O. Evans, D.J. Lyon, S.D. Miller, D.W. Morishita, A.G. Ogg Jr., S.S. Seefeldt, P.W. Stahlman, F.E. Northam, P. Westra, Z. Kebede, and G.A. Wicks
Weed Sci. 49:48-60, 2001
- 01-222-S Kansas Performance Tests with Grain Sorghum Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kelley, K. Kofoid, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Exp. Stn. Rep. Prog. 865, 1- 57, November 2000
- 01-240-S 2001 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
D.L. Regehr, D.E. Peterson, P.D. Ohlenbusch, W.H. Fick, P.W. Stahlman, and R.E. Wolf
Kans. Agric. Expt. Stn. Rep. Prog. 867, 1-72, January 2001
- 01-247-S Kansas Fertilizer Research 2000
R.E. Lamond, H.D. Bond, M.M. Claassen, S.R. Duncan, D.L. Fjell, R.J. Gehl, H.C. George, C.B. Godsey, W.B. Gordon, K.A. Janssen, G.L. Kilgore, L.D. Maddux, C.W. Marr, V.L. Martin, T.M. Maxwell, J.L. Moyer, B.J. Niehues, C.J. Olsen, G.M. Pierzynski, K. Rector, A.J. Schlegel, J.P. Schmidt, G.J. Schwab, J.P. Shroyer, D.W. Sweeney, S.A. Staggenborg, D.W. Sweeney, R.K. Taylor, C.A. Thompson, C.R. Thompson, and D.A. Whitney
Kans. Agric. Expt. Stn. Rep. Prog. 868, 1- 98, Jan. 2001
- 01-254-S An Annotated Chronology of Research Highlights. Agricultural Research Center–Hays
J.R. Brethour, K.R. Harmoney, T.L. Harvey, K.D. Kofoid, T.J. Martin, D.L. Seifers, P.W. Stahlman, and C.A. Thompson
Spec. Publ., 1-36, 2001
- 01-255-S 2000 Kansas Performance Tests with Soybean Varieties
W.T. Schapaugh Jr., K.L. Roozeboom, P. Evans, J. Long, A. Schlegel, C. Thompson, M. Witt, M. Claassen, W.B. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 869, 1-43, December 2000
- 01-281-J Success Stories: Breeding for Wheat Disease Resistance in Kansas
W.W. Bockus, J.A. Appel, R.L. Bowden, A.K. Fritz, B.S. Gill, T.J. Martin, R.G. Sears, D.L. Seifers, G.L. Brown-Guedira, and M.G. Eversmeyer
Plant Dis. 85(5) 453-461, 2001
- 01-318-S Cattlemen's Day 2001
D.A. Blasi, R.A. Christmas, D.W. Moser, M.E. Dikeman, S.L. Stroda, J.S. Stevenson, B.A. Hensley, T.J. Marple, M.A. Medina-Britos, D.M. Grieger, T.A. Wickersham, R.C. Cochran, J.F. Gleghorn, T.T. Marston, L.E. Wankel, G.L. Kuhl, G.L. Huck, J. Mintert, T.C. Schroeder, T. Marsh, M.F. Spire, J.M. Sargeant, S.K. Tucker, A.M. Richardson, E.J. Pollak, R.D. Green, J. Taylor, S. Davis, T. Holm, S. Koontz, C. Gill, E.A. Westcott, R.J. Lipsey, G.C. Lamb, S.J. Johnson, J.D. Lawrence, M.L. Hayenga, S.I. Paisley, J. Higgins, M.S. Holder, D.E. Kehler, B. Farran, J.J. Sindt, S.P. Montgomery, C. Birkelo, G.L. Stokka, T.G. Rozell, J.R. Brethour, D.O. Yauk, W.V. Welshons, G.E. Rottinghaus, J.L. Davidson, D.E. Kehler, D.V. Dhuyvetter, C.G. Farmer, M.T. Ortega-Valenzuela, R.K. Phebus, H. Thippareddi, J.L. Marsden, C.L. Kastner, D.A. King, T.E. Lawrence, E. Obuz, E.J. Yancey, B.S. Andrews, J.A. Unruh, R.R. Timm, K.A. Hachmeister, L.M. Sammel, A.E. Rasor, M.C. Hunt, D.H. Kropf, P.B. Addis, E. Katsanidis, T.H. Montgomery, D.A. Shafer, B.D. Lambert, E.C. Titgemeyer, C.A. Loest, A.M. Trater, J.S. Drouillard, T.B. Farran, C.M. Coetzer, H.J. LaBrune, R.D. Hunter, R.A. Stock, S.B. Laudert, F.K. Brazle, T.J. Kessen, R.T. Ethington, J.N. Pike, and D.L. Lambert
Kans. Agric. Exp. Stn. Rep. Prog. 873, 1-110, Jan. 2001

Northwest Research-Extension Center

- 00-198-J Subsurface Drip Irrigation Using Livestock Wastewater: Dripline Flow Rates
T.P. Trooien, F.R. Lamm, L.R. Stone, M. Alam, D.H. Rogers, G.A. Clark, and A.J. Schlegel
Appl. Engin. in Agric. 16 (5):505-508, 2000
- 00-214-J Partitioning of the Sprinkler Water Amount by a Corn Canopy
F.R. Lamm and H.L. Manges
Trans. Am. Soc. Agric. Engin. 43(4):909-918, 2000
- 00-271-A Nitrogen Fertilization for Corn Production Using LEPA Center Pivot Sprinklers
F.R. Lamm and A.J. Schlegel
Proc. 4th Decennial Natl. Irrig. Symp., 357-362, 2000

Publications of Station Scientists

- 00-282-A SDI for Corn Production: A Ten-Year Summary of Research
F.R. Lamm and T.P. Trooien
Proc. Micro 2000 Irrig. Symp., CD-ROM, 2000
- 00-302-J Registration of 'Wichita' Rapeseed
C.L. Rife, D.L. Auld, H.D. Sunderman, W.F. Heer, D.D. Baltensperger, L.A. Nelson, D.L. Johnson, D. Bordovsky, and H.C. Minor
Crop Sci. 41:263-264, 2001
- 00-474-A Using Subsurface Drip Irrigation with Livestock Wastewater
T.P. Trooien, F.R. Lamm, L.R. Stone, M. Alam, D.R. Rogers, G.A. Clark, and A.J. Schlegel
Proc. 4th Decennial Natl. Irrigation Symp
ASAE Publication 701 P0004, 379-384, 2000
- 01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties
K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000
- 01-174-S 2000 Kansas Performance Tests with Corn Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kofoid, J. Long, A. Schlegel, M. Witt, M. Claassen, W. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 860, 1-65, October 2000
- 01-176-S Performance of Wheat Variety Blends in Kansas
R.L. Bowden, J.P. Shroyer, K. Roozeboom, M. Claassen, P. Evans, W.B. Gordon, B. Heer, K. Janssen, J. Long, J. Martin, A. Schlegel, R. Sears, and M. Witt
Kans. Agric. Expt. Stn. Keeping Up With Research 128, March 2001
- 01-222-S Kansas Performance Tests with Grain Sorghum Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kelley, K. Kofoid, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Exp. Stn. Rep. Prog. 865, 1- 57, November 2000
- 01-255-S 2000 Kansas Performance Tests with Soybean Varieties
W.T. Schapaugh Jr., K.L. Roozeboom, P. Evans, J. Long, A. Schlegel, C. Thompson, M. Witt, M. Claassen, W.B. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 869, 1-43, December 2000
- 01-282-S 2000 Kansas Performance Tests with Sunflower Hybrids
P. Evans, M. Claassen, B. Gordon, W. Heer, and K. Roozeboom
Kans. Agric. Expt. Stn. Rep. Prog. 871, 1- 21, January 2001
- 01-284-S Summer Annual Forages
K. Roozeboom and P. Evans
Kans. Agric. Expt. Stn. Rep. Prog. 872, 1-9, January 2001
- 01-318-S Cattlemen's Day 2001
D.A. Blasi, R.A. Christmas, D.W. Moser, M.E. Dikeman, S.L. Stroda, J.S. Stevenson, B.A. Hensley, T.J. Marple, M.A. Medina-Britos, D.M. Grieger, T.A. Wickersham, R.C. Cochran, J.F. Gleghorn, T.T. Marston, L.E. Wankel, G.L. Kuhl, G.L. Huck, J. Mintert, T.C. Schroeder, T. Marsh, M.F. Spire, J.M. Sargeant, S.K. Tucker, A.M. Richardson, E.J. Pollak, R.D. Green, J. Taylor, S. Davis, T. Holm, S. Koontz, C. Gill, E.A. Westcott, R.J. Lipsey, G.C. Lamb, S.J. Johnson, J.D. Lawrence, M.L. Hayenga, S.I. Paisley, J. Higgins, M.S. Holder, D.E. Kehler, B. Farran, J.J. Sindt, S.P. Montgomery, C. Birkelo, G.L. Stokka, T.G. Rozell, J.R. Brethour, D.O. Yauk, W.V. Welshons, G.E. Rottinghaus, J.L. Davidson, D.E. Kehler, D.V. Dhuyvetter, C.G. Farmer, M.T. Ortega-Valenzuela, R.K. Phebus, H. Thippareddi, J.L. Marsden, C.L. Kastner, D.A. King, T.E. Lawrence, E. Obuz, E.J. Yancey, B.S. Andrews, J.A. Unruh, R.R. Timm, K.A. Hachmeister, L.M. Sammel, A.E. Rasor, M.C. Hunt, D.H. Kropf, P.B. Addis, E. Katsanidis, T.H. Montgomery, D.A. Shafer, B.D. Lambert, E.C. Titgemeyer, C.A. Loest, A.M. Trater, J.S. Drouillard, T.B. Farran, C.M. Coetzer, H.J. LaBrune, R.D. Hunter, R.A. Stock, S.B. Laudert, F.K. Brazle, T.J. Kessen, R.T. Ethington, J.N. Pike, and D.L. Lambert
Kans. Agric. Expt. Stn. Rep. Prog. 873, 1-110, January 2001

Southeast Agricultural Research Center

- 99-496-J Forage Quality and Production of Small Grains Interseeded into Bermudagrass Sod or Grown in Monoculture
J.L. Moyer and K.P. Coffey
Agron. J. 92(4):748-753, 2000
- 00-35-J Growth Performance by Stocker Steers Fed Magnesium-Mica during a Grazing and Feedlot Period
K.P. Coffey, J.L. Moyer, F.K. Brazle, T.G. Nagaraja, and L.W. Lomas
Prof. Anim. Sci. 16:175-181, 2000
- 00-105-J Phosphorus, Potassium, Chloride, and Fungicide Effects on Wheat Yield and Leaf Rust Severity
D.W. Sweeney, G.V. Granade, M.G. Eversmeyer, and D.A. Whitney
J. Plant Nutr. 23(9):1267-1281, 2000
- 00-200-A Effects of Seed Treatment Fungicides on Stand and Yield of Grain Sorghum, 1999
D. Jardine, M. Claassen, J.H. Long, and L. Maddux
Fungicide & Nematicide Tests 55: 458, 2000

Publications of Station Scientists

- 00-233-J Sulfur Source and Placement for Newly Established Endophyte-Free Tall Fescue, D.W. Sweeney and J.L. Moyer
Commun. Soil Sci. Plant Anal. 32(7&8):1149-1162, 2001
- 00-295-J Registration of 'Heyne' Wheat R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1367, 2001
- 00-296-J Registration of 'Betty' Wheat R.G. Sears, T.J. Martin, P.J. McCluskey, G.M. Paulsen, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1366-1367, 2001
- 00-310-J Effects of Grazing System on Performance of Cow-Calf Pairs Grazing Bermudagrass Pastures Interseeded with Wheat and Legumes L.W. Lomas, J.L. Moyer, G.A. Milliken, and K.P. Coffey
Prof. Anim. Sci. 16:1137-1143, 2001
- 00-364-J Effects of Crop Rotation and Cultivar Resistance on Seed Yield and the Soybean Cyst Nematode in Full-Season and Double-Cropped Soybean J.H. Long and T.C. Todd
Crop Sci. 41:1137-1143, 2001
- 00-416-J Planting Date and Foliar Fungicide Effects on Yield Components and Grain Traits of Winter Wheat K.W. Kelley
Agron J. 93(2):380-389, 2001
- 01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000
- 01-174-S 2000 Kansas Performance Tests with Corn Hybrids K. Roozeboom, D. Jardine, P. Evans, K. Kofoid, J. Long, A. Schlegel, M. Witt, M. Claassen, W. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 860, 1-65, October 2000
- 01-176-S Performance of Wheat Variety Blends in Kansas R.L. Bowden, J.P. Shroyer, K. Roozeboom, M. Claassen, P. Evans, W.B. Gordon, B. Heer, K. Janssen, J. Long, J. Martin, A. Schlegel, R. Sears, and M. Witt
Kans. Agric. Expt. Stn. Keeping Up With Research 128, March 2001
- 01-222-S Kansas Performance Tests with Grain Sorghum Hybrids K. Roozeboom, D. Jardine, P. Evans, K. Kelley, K. Kofoid, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 865, 1- 57, Nov. 2000
- 01-247-S Kansas Fertilizer Research 2000 R.E. Lamond, H.D. Bond, M.M. Claassen, S.R. Duncan, D.L. Fjell, R.J. Gehl, H.C. George, C.B. Godsey, W.B. Gordon, K.A. Janssen, G.L. Kilgore, L.D. Maddux, C.W. Marr, V.L. Martin, T.M. Maxwell, J.L. Moyer, B.J. Niehues, C.J. Olsen, G.M. Pierzynski, K. Rector, A.J. Schlegel, J.P. Schmidt, G.J. Schwab, J.P. Shroyer, S.A. Staggenborg, D.W. Sweeney, R.K. Taylor, C.A. Thompson, C.R. Thompson, and D.A. Whitney
Kans. Agric. Expt. Stn. Rep. Prog. 868, 1- 98, Jan. 2001
- 01-255-S 2000 Kansas Performance Tests with Soybean Varieties W.T. Schapaugh Jr., K.L. Roozeboom, P. Evans, J. Long, A. Schlegel, C. Thompson, M. Witt, M. Claassen, W.B. Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 869, 1-43, Dec. 2000
- 01-274-A Effects of Seed Treatment Fungicides on Stand and Yield of Grain Sorghum, 2000 D.J. Jardine, M. Claassen, J.H. Long, and L. Maddux
Fungicide and Nematicide Tests ST28, 2001
- 01-280-S 2000 Kansas Performance Tests with Alfalfa Varieties K. Roozeboom, P. St. Amand, J. Moyer, M. Witt, W. Heer, W. Gordon, and L. Maddux
Kans. Agric. Expt. Stn. Rep. Prog. 870, 1-12, January 2001
- 01-318-S Cattlemen's Day 2001 D.A. Blasi, R.A. Christmas, D.W. Moser, M.E. Dikeman, S.L. Stroda, J.S. Stevenson, B.A. Hensley, T.J. Marple, M.A. Medina-Britos, D.M. Grieger, T.A. Wickersham, R.C. Cochran, J.F. Gleghorn, T.T. Marston, L.E. Wankel, G.L. Kuhl, G.L. Huck, J. Mintert, T.C. Schroeder, T. Marsh, M.F. Spire, J.M. Sargeant, S.K. Tucker, A.M. Richardson, E.J. Pollak, R.D. Green, J. Taylor, S. Davis, T. Holm, S. Koontz, C. Gill, E. Westcott, R.J. Lipsey, G.C. Lamb, S.J. Johnson, J.D. Lawrence, M.L. Hayenga, S.I. Paisley, J. Higgins, M.S. Holder, D.E. Kehler, B. Farran, J.J. Sindt, S.P. Montgomery, C. Birkelo, G.L. Stokka, T. Rozell, J.R. Brethour, D. Yauk, W.V. Welshons, G.E. Rottinghaus, J.L. Davidson, D.E. Kehler, D.V. Dhuyvetter, C.G. Farmer, M.T. Ortega-Valenzuela, R.K. Phebus, H. Thippareddi, J.L. Marsden, C.L. Kastner, D.A. King, T.E. Lawrence, E. Obuz, E.J. Yancey, B.S. Andrews, J.A. Unruh, R.R. Timm, K.A. Hachmeister, L.M. Sammel, A. Rasor, M.C. Hunt, D.H. Kropf, P.B. Addis, E. Katsanidis, T.H. Montgomery, D.A. Shafer, B.D. Lambert, E.C. Titgemeyer, C.A. Loest, A.M. Trater, J.S. Drouillard, T.B. Farran, C.M. Coetzer, H.J. LaBrune, R.D. Hunter, R.A. Stock, S.B. Laudert, F.K. Brazle, T.J. Kessen, R.T. Ethington, J.N. Pike, and D.L. Lambert
Kans. Agric. Expt. Stn. Rep. Prog. 873, 1-110, Jan. 2001

Publications of Station Scientists

01-368-A Hay-Type Sorghum Cultivars: Historical Trends of Yield and Quality
J.L. Moyer and J.O. Fritz
Proc. of Am. Forage and Grassland Council, 388-392, 2001

01-379-S 2001 Agricultural Research Southeast Agricultural Research Center
L.W. Lomas, J.L. Moyer, D.W. Sweeney, K.W. Kelley, J.H. Long, R. Jones, C.W. Marr, T. Todd, M. Knapp, S. Staggenborg, F.K. Brazle, G.L. Kilgore, and S. Duncan
Kans. Agric. Expt. Stn. Rep. Prog. 875, 1-70, May 2001

Southwest Research-Extension Center

98-484-J A Comparison of Sampling Techniques for Spider Mites and Spider Mite Predators in Corn
M.T. Messenger, L.L. Buschman, and J.R. Nechols
Southwestern Entomologist 25(3):221-227, 2000

99-90-J Larval Feeding Behavior of Dipel-Resistant and Susceptible *Ostrinia nubilalis* (Hubner) on a Diet Containing *Bacillus thuringiensis* (Dipel ES)
F. Huang, L.L. Buschman and R.A. Higgins
Entomol. Exper. Appl. 98:141-148, 2001

00-183-J Survey and Evaluation of Native and Released Predators of the Banks Grass Mite (Acari: Tetranychidae) in Corn and Surrounding Vegetation
M.T. Messenger, L.L. Buschman, and J.R. Nechols
J. Kans. Entomol. Soc. 73(2):112-122, 2001

00-198-J Subsurface Drip Irrigation Using Livestock Wastewater: Dripline Flow Rates
T.P. Trooien, F.R. Lamm, L.R. Stone, M. Alam, D.H. Rogers, G.A. Clark, and A.J. Schlegel
Appl. Engin. in Agric. 16 (5):505-508, 2000

00-259-A Corn Borer Resistance and Grain Yield for Bt and non-Bt Corn Hybrids, 1999
L. Buschman, P. Sloderbeck, R. Higgins, and M. Witt.
Arthropod Manag. Tests 25:M4, 2000

00-271-A Nitrogen Fertilization for Corn Production Using LEPA Center Pivot Sprinklers
F.R. Lamm and A.J. Schlegel
Proc. 4th Decennial Natl. Irrig. Symp., 357-362, 2000

00-282-A SDI for Corn Production: A Ten-Year Summary of Research
F.R. Lamm and T.P. Trooien
Proc. 6th Intl. Microirrigation Cong., CD-ROM, 2000

00-295-J Registration of 'Heyne' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1367, 2001

00-296-J Registration of 'Betty' Wheat
R.G. Sears, T.J. Martin, P.J. McCluskey, W.F. Heer, J.H. Long, M.D. Witt, and G. Brown-Guedira
Crop Sci. 41:1366, 2001

00-297-J Registration of 'Trego' Wheat
T.J. Martin, R.G. Sears, D.L. Seifers, T.L. Harvey, M.D. Witt, P.J. McCluskey, A.J. Schlegel, and J.H. Hatchett
Crop Sci. 41:929-930, 2001

00-330-J Estimating Reference Evapotranspiration with an Atmometer
M. Alam and T.P. Trooien
Appl. Engin. Agric. 17(2):1-6, 2001

00-379-J Dryland Corn in Western Kansas: Effects of Hybrid Maturity, Planting Date, and Plant Population
C.A. Norwood
Agron. J. 93(2):540-547, 2000

00-404-J Interference of Palmer amaranth in Corn
R. A. Massinga, R.S. Currie, M.J. Horak, and J. Boyer Jr.
Weed Sci. 49:202-208, 2001

00-474-A Using Subsurface Drip Irrigation with Livestock Wastewater
T.P. Trooien, F.R. Lamm, L.R. Stone, M. Alam, D.R. Rogers, G.A. Clark, and A.J. Schlegel
Proc. 4th Decennial Natl. Irrigation Symp
ASAE Publication 701 P0004, 379-384, 2000

00-480-J Host Plant-Induced Changes in Detoxification Enzymes and Susceptibility to Pesticides in the Twospotted Spider Mite (Acari: Tetranychidae)
X. Yang, D.C. Margolies, K.Y. Zhu, and L.L. Buschman
J. Econ. Entomol. 94:381-387, 2001

01-5-S 2000 Kansas Performance Tests with Winter Wheat Varieties
K. Roozeboom, R. Bowden, L. Brooks, M. Knapp, A. Fritz, P. Evans, J. Long, T. Martin, A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 857, 1-49, July 2000

01-23-A Subsurface Drip Irrigation for Alfalfa in Western Kansas
M. U. Alam, T. Trooien, and D. Rogers
6th Intl. Microirrigation Cong., CD-ROM, 2000

01-122-J Comparative Susceptibility and Possible Detoxification Mechanisms for Selected Miticides in Banks Grass Mite and Two-spotted Spider Mite (Acari: Tetranychidae)
X. Yang, K.Y. Zhu, L.L. Buschman, and D.C. Margolies
Exper. and Appl. Acarol. 25:293-299, 2001

Publications of Station Scientists

- 01-174-S 2000 Kansas Performance Tests with Corn Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kofoid, J. Long,
A. Schlegel, M. Witt, M. Claassen, W. Gordon, K. Janssen,
L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 860, 1-65, October 2000
- 01-176-S Performance of Wheat Variety Blends in Kansas
R.L. Bowden, J.P. Shroyer, K. Roozeboom, M. Claassen,
P. Evans, W.B. Gordon, B. Heer, K. Janssen, J. Long,
J. Martin, A. Schlegel, R. Sears, and M. Witt
Kans. Agric. Expt. Stn. Keeping Up With Research 128,
March 2001
- 01-222-S Kansas Performance Tests with Grain Sorghum Hybrids
K. Roozeboom, D. Jardine, P. Evans, K. Kelley, K. Kofoid,
A. Schlegel, M. Witt, M. Claassen, W. Gordon, W. Heer, K.
Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 865, 1- 57, Nov. 2000
- 01-231-S Effects of Alfalfa on Wheat Establishment
M.D. Witt and C.R. Thompson
Kans. Agric. Expt. Stn. Keeping Up With Research 129,
2001
- 01-247-S Kansas Fertilizer Research 2000
R.E. Lamond, H.D. Bond, M.M. Claassen, S.R. Duncan,
D.L. Fjell, R.J. Gehl, H.C. George,
C.B. Godsey, W.B. Gordon, K.A. Janssen, G.L. Kilgore,
L.D. Maddux, C.W. Marr, V.L. Martin, T.M. Maxwell,
J.L. Moyer, B.J. Niehues, C.J. Olsen, G.M. Pierzynski,
K. Rector, A.J. Schlegel, J.P. Schmidt, G.J. Schwab,
J.P. Shroyer, S.A. Staggenborg, D.W. Sweeney, R.K.
Taylor, C.A. Thompson, C.R. Thompson, and D.A. Whitney
Kans. Agric. Expt. Stn. Rep. Prog. 868, 1- 98, Jan. 2001
- 01-250-J Evidence of Evolving Carbaryl Resistance in Western Corn
Rootworm, *Diabrotica virgifera virgifera*
(Coleoptera: Chrysomelidae) in Areawide-Managed
Cornfields in North Central Kansas
K.Y. Zhu, G.E. Wilde, R.A. Higgins, P.E. Sloderbeck,
L.L. Buschman, R.A. Shufran, R.J. Whitworth,
S.R. Starkey, and F. He
J. Econ. Entomol. 94:929-934, 2001
- 01-255-S 2000 Kansas Performance Tests with Soybean Varieties
W.T. Schapaugh Jr., K.L. Roozeboom, P. Evans, J. Long,
A. Schlegel, C. Thompson, M. Witt, M. Claassen, W.B.
Gordon, K. Janssen, L. Maddux, and V. Martin
Kans. Agric. Expt. Stn. Rep. Prog. 869, 1-43, December
2000
- 01-280-S 2000 Kansas Performance Tests with Alfalfa Varieties
K. Roozeboom, P. St. Amand, J. Moyer, M. Witt, W. Heer,
W. Gordon, and L. Maddux
Kans. Agric. Expt. Stn. Rep. Prog. 870, 1-12, January 2001
- 01-293-A Comparison of Regent and Counter for Controlling Corn
Rootworm and Southwestern Corn Borer Larvae
L. Buschman and P. Sloderbeck
Arthropod Manag. Tests 267:F8, 2001
- 01-294-A Efficacy of Cry1F Corn for the Control of Southwestern
Corn Borer and Corn Earworm
L. Buschman, P. Sloderbeck, and M. Witt
Arthropod Manag. Tests 26:M2, 2001
- 01-397-S Field Research 2001 Agronomy Experiment Fields
L.E. Maddux, K. Janssen, D.A. Whitney, G.M. Pierzynski,
B. Gordon, M.M. Claassen, K.L. Roozeboom, K. Al-Khatib,
D.E. Peterson, D.L. Fjell, V.L. Martin, K. McVay,
R. Vanderlip, W.F. Heer, C. Rice, G. Wilde, R. Taylor, G.A.
Clark, S. Staggenborg, B. Wood, and S.R. Duncan
Kans. Agric. Expt. Stn. Rep. Prog. 876, 1-134, May 2001

Active Projects

Ag Economics

520490 Benefits & Costs of Pre- and Post-Harvest HACCP for the Pork Industry

520492 Analysis of Farm-Level Risk Management

520493 Water Quality Profit Optimization Project

520502 Fecal Coliform Contamination in KS River Basins: Source, Monitoring, Development of BMP's

520504 Consumer Willingness to Pay for Steak Tenderness

520505 Water Conservation--Increased Efficiency in Usage

520506 Valuing Marketing Rights in New Generation Cooperatives

520507 Comparative Cost-Benefit Analysis of New Renewable and Sustainable Energy

520509 Dynamic Implications of Global Growth in Population Income and Technology

520510 Using NASA EOS Data to Predict Economic Well-Being in Kansas Agriculture (The Great Plains Regional Earth Science Applications Center (GP-RESAC): A Consortium to Transfer Remote Sensing Products)

520511 Water Contaminants Evaluation Study

520512 Estimating the Nationwide Demand for Risk Reduction from Foodborne Pathogens

520519 Economics & Fiscal Implications of Electronic Commerce for Rural Communities

520520 Cooperatives and Their Role in Value-Added White Wheat Markets

520523 Current Economic Issues with Hard White Wheat in Kansas

520524 Analysis of Small Game Harvest Survey Data

520525 Market Research on Value Enhanced Soybeans

520526 Market Research on Value-Enhanced Corn

520527 Market Research on Grain Sorghum

520528 Water Conservation -- Increased Efficiency in Usage

520529 Development of NPS Loan Agreement

520530 Empirical Tests of STE Leadership Behavior in International Grain Markets

520531 Yield Performance and Producer Experience

520533 Cooperatives' Role in Food and Feed Grain Identity - Preserved Systems

520534 Market Research for Speciality White Wheats

520535 Cost and Benefits of Mandatory Price Reporting in the Beef Industry

520536 Summarization and Analysis of 2000 Small Game Harvest Survey (SGHS)

520540 Evaluation of Special Program for Food Security

520542 Experimental Auctions and External Validity: Consumer Demand for Quality Differentiated Beef

536083 Institutional Cooperation and Student Exchange Among US, Mexican and Canadian Institutions

536182 National Needs Fellowship - Food Marketing Food Safety

536386 Food & Agricultural Sciences National Needs Grad Fellowships Grants Program (Supplementals - 2)

536386 Escherichia coli 0157:H7 and Salmonella spp. and Listeria monocytogenes: Determination of D- and Z-Values in Ground Beef

536413 Federal Ag Policy Impacts to KS Rural Communities & Households

536438 Risk Management Education: A Risk Management Club Approach

536481 Integration of Computer Applications Throughout the Agribusiness Curriculum

536528 European Perceptions of US Hormone-Treated Beef
In Conjunction With Food & Agricultural Sciences National Needs Grad Fellowship

536597 Fellowship for January M. Mafuru

536719 Kansas Local Government Water Quality Planning and Management Guide and Education Program

536761 KS Cooperative Development Center Education & Assistance Program

536778 Kansas Urban Water Quality Restoration and Protection Initiative (Planning Process Technical Assistance, Education and Outreach Impact Analysis

536782 Kansas Cooperative Development Center Education and Assistance Program

536820 Kansas Cooperative Development Center Education and Assistance Program

536832 A Rural Community Based Case Test to Evaluate the Efficacy of the USDA Quality System Certification Program (QSCP) for Small Livestock and Meat Marketing Programs

536832 A Rural Community Based Case Test to Evaluate the Efficacy of the USDA Quality System Certification Program (QSCP) for Small Livestock and Meat Marketing Programs

536832 A Rural Community Based Case Test to Evaluate the Efficacy of the USDA Quality System Certification Program (QSCP) for Small Livestock and Meat Marketing Programs

536832 A Rural Community Based Case Test to Evaluate the Efficacy of the USDA Quality System Certification Program (QSCP) for Small Livestock and Meat Marketing Programs

Ag Research Center - Hays

525965 Involves Other Departments for Multi Sponsored Crop Performance

525994 Identification, Detection, and Variability of the High Plains Pathogen

525998 Integrated Management Systems for Jointed Goatgrass in Central Great Plains

526001 Effect of Stockosorb Agro on Winter Wheat Grown in Central Kansas

526003 Effects of Stockosorb Agro on Grain Sorghum in Central Kansas

526007 Predicting Future Carcass Attributes on Weaning Calves with Ultrasound Technology

526009 Wheat Streak Mosaic Virus Regional Screening Nursery

526010 Sorghum Research

526011 Integrated Management Systems for Jointed Goatgrass Control in the Central Great Plains

526012 Optimizing Spartan Performance in No-Till Sunflower

526013 Planting Dates and Maturity Group Effects on Soybean Production in Kansas

526014 Breeding Sorghum with Improved Grain Yield, Greenbug and Virus Resistance, and Pre-Flowering Drought Tolerance

526015 Kansas Dual Purpose Pest Resistant White Wheats

526016 Regeneration of Sorghum Accessions

526017 Integrated Management Systems for Jointed Goatgrass in the Central Great Plains

526021 United Agri Products Fellowship

Agronomy

520333 Pioneer Plant Breeding Fellowship

520713 Development of Hard White Winter Wheat for Kansas

520756 Foundation Seed Maintenance (Agseco-McDonald, Kansas)

520761 Crop Performance

520764 Improvement of Hard Red Winter Wheat in Kansas

520765 Management of the Soybean Cyst Nematode and Charcoal Rot in Soybeans

Active Projects

520800	Providing Soil Sample Analyses for Soil Survey Activities	520878	Belowground Carbon Allocation and Cycling in Tallgrass Prairie and Wheat Ecosystems	520914	Landscape-Level Trace Gas Fluxes on Grazed and Ungrazed Tallgrass Prairie
520807	Terrestrial Carbon Processes, II	520879	Water Conservation--Increased Efficiency In Usage	520916	The Role of Natural Organic Material in the Disposition and Binding of Organic Contaminants and Heavy Metals
520815	An Instrument Combining 3D Plant Photogrammetry with Automated Physiological Monitoring	520885	Assessing Absorption & Uptake of Ethylene Dibromide (EDB) in Mature Cranberry Fruit and Plants at Harvest at Massachusetts	520917	The Role of Natural Organic Material in the Disposition and Binding
520816	Remodeling Instrument Combining 3D Plant Photogrammetry with Automated Physiological	520886	Assessing Absorption & Uptake of Ethylene Dibromide (EDB) in Mature Cranberry Fruit and Plants at Harvest at Massachusetts	520919	Landscape-Level Trace Gas Fluxes on Grazed & Ungrazed Tallgrass Prairie (Sub-Title: Carbon & Water Vapor Fluxes)
520819	Variable Nitrogen Management for Protecting Groundwater Quality	520887	Wind Erosion Model for Military Lands	520921	Developing a Research and Extension Program to Limit the Spread and Enhance the Management of Sericea Lespedeza In Kansas
520833	Variable Nitrogen Management for Improving Groundwater Quality	520888	Wind Erosion Assessment & Control	520922	Pilot Study of Influences of Atmospheric Pressure Fluctuations on Fluxes of Trace
520837	Pigweed (Amaranthus spp.) Identification, Hybridization and Introgression	520889	Development of Acid-Tolerant Alfalfa Germplasm for Kansas	520923	Impact of Animal Waste Compost on Turfgrass Soil Quality
520844	Development of Improved Soybean Varieties for Kansas	520890	Addition of Genes Encoding Thaumatin-Like Protein and Late Embryogenesis Abundant Protein	520924	Gluten Proteins that Improve Bread Quality
520845	Control of Residue-Borne Winter Wheat Diseases	520891	Alachlor Acetochlor & Metachlor Metabolites in Plant and Soil	520925	Improving Resistance to Preharvest Sprouting in Kansas White Wheat
520857	Implementation of Best Management Practices in the Blue River Basin of Kansas and Nebraska	520892	Alachlor Acetochlor & Metachlor Metabolites In Plant And Soil	520926	Breeding Grain Sorghum for Improved Dryland Production
520864	The Impact of Golf Courses on Soil Quality	520893	Integrating Genetics and Precision Farming Information into Decision Support Systems	520927	Improving Soybean Profitability through Breeding
520865	Fecal Coliform Contamination in Kansas River Basins: Source, Monitoring, Development, Demo of Bmp's	520895	EPA Experimental Program to Stimulate Competitive Research	520928	Improving the Crop Safety and Weed Control Efficacy of Metsulfuron-(Allyl)-Based Herbicide Programs for Grain Sorghum
520866	Gene Flow, Distribution, Growth & Competitiveness of Pursuit-Resistant Common Sunflower	520896	EPA EPSCOR - Enhancement of Water Quality Research	520929	Integrated Management of the Soybean Cyst Nematode and Charcoal Rot
520867	Kansas EPA EPSCOR: Enhancement of Environmental Remediation Research - Subs (KU & WSU)	520897	EPA Experimental Program to Stimulate Competitive Research Seer1	520930	Planting Dates and Maturity Group Effects on Soybean Production in Kansas
520868	Kansas EPA EPSCOR: Enhancement of Environmental Remediation Research - Seer 3 (Yr 1 & 2)	520898	EPA EPSCOR - Enhancement of Water Quality Research / Seer 1	520931	Post-Control Weed Competitiveness as Input Into a Weed Management DSS
520869	Kansas EPA EPSCOR: Enhancement of Environmental Remediation Research - Mgmt (Yr 1 & 2)	520899	EPA Experimental Program to Stimulate Competitive Research Seer3	520932	Iron (Fe) Chlorosis: Addressing A Familiar Problem With New Technology
520871	Educational Tools for Wind Erosion Control	520900	EPA EPSCOR - Enhancement of Water Quality Research / Seer 3	520933	Water Conservation -- Increased Efficiency In Usage
520872	KS EPA EPSCOR: Enhancement of Environment Remediation Research	520902	Soil Rating and Growth Model for the Valuation of Irrigated Lands in Kansas	520934	Transformation of Sorghum with Agronomically Useful Genes
520873	KS EPA EPSCOR: Enhancement of Environment Remediation Research	520904	Canola Production Centers: Introducing a Viable New Crop to Kansas	520935	Adaptation of Weedssoft Weed Management Decision Aid Software
520874	Match for KS EPA EPSCOR: Enhancement of Environment Remediation Research	520907	Potential for Imidazolinone-Resistant Sunflower Gene Escape and Altered Fitness of Related Wild Species	520936	Research Support Agreement #58-5430-7-507 T.O. #T15430203
520875	Breeding for Ergot Avoidance in Sorghum: Mid-Season Cold Tolerance	520908	Aluminum Tolerance in Canola: Developing Canola Varieties Adapted to Low Ph Soils	520937	Assessment of Plant Root Development in Alternative Cover Plots at Rocky Mountain Arsenal, Colorado
520876	Site-Specific Lime Applications to Reduce Phosphorus Loading in the Cheney Watershed	520909	Sorghum Research		
520877	Development of Wheat Germplasm with Multiple Disease & Insect Resistance for the South Great Plains	520911	Jeoung Fellowship		
		520912	USDA/ARS Research Support Agreement Task Order #T05430203		
		520913	USDA/ARS Research Support Agreement Task Order #T05430202		

Active Projects

520937	Assessment of Plant Root Development in Alternative Cover Plots at Rocky Mountain Arsenal	536728	CHLTH Agreement Between KS Smokeless Kids Initiative & KSU Res/ Exten Comm Health	521861	Responses of Cattail Vegetation to Stocker Cattle Grazing	
520937	Assessment of Plant Root Development in Alternative Cover Plots at Rocky Mountain Arsenal	536772	Grazing Land Water Quality - Part 4	521862	Steam Pasteurization Assessment & Microbial Analysis	
520938	Development of Wheat Germplasm with Multiple Disease and Insect Resistance for the Southern Great Plains	536774	Reducing Atrazine Runoff-Delaware & Blue Rivers - Part 3	521863	Post-Process Pasteurization of Packaged, Ready-To-Eat Meat Products for Control of Listeria Monocytogenes	
520939	Improvement of Hard Red Winter Wheat for Kansas	536784	White Wheat Commercialization	521864	Animal Sciences Food Safety Consortium - KSU	
520940	Development of Hard White Winter Wheat for Kansas	536785	Soybean Production in Kansas: Extension and Applied Research	521865	Modulation of Immune Response in Feeder Cattle with Flaxseed	
520942	Gluten Proteins that Improve Bread Quality	536786	Grain Sorghum Production in Kansas: Extension and Applied Research	521869	Immunomodulatory and Growth Effects of the Seaweed Ascophyllum Nodosum in	
520943	Control of Residue-Borne Winter Wheat Diseases	536800	Wheat Research / Extension Assistant	521870	Effects of Dried Plum Puree on Foodborne Pathogens in Meats and Meat Products	
520944	Lagoon Water Quality Study Part 4	536806	White Wheat Commercialization	521871	Planting Dates And Maturity Group Effects On Soybean Production In Kansas	
520945	Evaluation of Tan-Plant Sorghum Hybrids	536811	Research/Demonstration/Education Compost Facility	521872	Salmonella Spp. and Listeria Monocytogenes Risk Assessment for Production and Cooking of Blade Tenderized Beef Steaks	
520946	Isoxalutole Losses in Surface Water Runoff	536830	Grazing Land Water Quality - Part 5	521873	Evaluation of Optiboar for Assessing Characteristics of Boar Semen	
520947	Consortium for Agricultural Soil Mitigation of Greenhouse Gases (CASMGs)	Anatomy & Physiology			521874	Distiller's Byproducts for Cattle: Food Safety, Meat Quality and Cattle Performance
520948	Elucidation of and Development of Cold Tolerance in Sorghum	528602	Neurons & Neuropeptides in Sea Anemones	521875	Feeding Flaxseed & Flaxseed Products to Improve Health & Performance of Stressed Feeder Calves	
520953	Evaluation of Agri-SC for Reducing Soil, Nutrient, and Herbicide Losses in Cropland Runoff	528603	Neurons & Neuropeptides In Sea Anemones	521876	Control of Listeria Monocytogenes in Ready-To-Eat Meats	
520954	Evaluating Nitrate Leaching Characteristics for Various Nitrogen Management Strategies for Irrigated Corn Along the Lower Arkansas River	528608	High Resolution Regional Maps of Swine Chromosomal Segments Containing QTL	521878	Effect of Protein Size and Source on Delayed Type Hypersensitivity in Early Weaned Pigs	
520955	Investigations of Vegetative Capping Strategies for Fly-Ash Disposal Sites	528612	Porcine Antimicrobial Peptides	521879	Merchandising Value-Added Lamb Shoulder to the Food Service Industry	
520966	Sprinkler Irrigation Demonstration Project	528615	Contribution of the NADPH Oxidase to Reperfusion Injury	521880	Corn Byproducts for Cattle: Performance, Food Safety & Meat Quality	
520967	Variety Testing, Farmer Education and Management of Identity Preserved Farming Systems	528616	Regulated Ion Transport by Vas Deferens Epithelium	521881	Post-Process Pasteurization of Packaged, Ready-to-Eat Pork Products for Control of Listeria Monocytogenes	
525450	FY2001 KS Water Res. Res. Inst. - Measuring Seepage Losses from Waste-Treatment Lagoons: A Simplified Water Balance Approach for Use by Government Agencies, Consultants, and Industry	528617	Ionic Basis of Repolarization in Equine Heart: Relevance to Atrial Fibrillation and Acquired LQTS	521884	Evaluation of Nutridense Corn Hybrids for Nursery Pig Diets	
536317	Yesterday's Research for Tomorrow's Needs	528618	The NADPH Oxidase and Neutrophil Recruitment in Muscle	521887	Molecular Characterization of Escherichia coli 0157:H7 from Beef animals, Environment and Foodborne Disease Outbreaks	
536338	Grazing Land Water Quality - Part 2	529421	LKS & LKUR in Granulosa Cells	521888	Development of an Integrated HACCP Plan and Microbiological Risk Assessment of Beef Trim and Intervention Treatments for Use as Raw Material for Ground Beef	
536375	Matching for Yesterday's Research for Tomorrow's Needs	Animal Sciences			535030	Teaching Support Livestock and Meat Industry Council
536504	Developing A World Class Nutrition Course Strengthened Quality/ Contained Costs	521788	A Soybean Extension Educational Program in Southeast Kansas			
536704	Grazing Land Water Quality Education Program: Part 3	521822	Effectiveness of Cloptilolite as a Suspending Agent in Liquid Feed Supplements			
536726	Wheat Research/Extension Assistant	521828	Wheat Middling Evaluations			
		521835	HACCP Implementation and Evaluation in Small and Very Small Meat and Poultry Plants			
		521837	Effect of Plants on Bioavailability and Toxicity of Contaminants in Soil			
		521848	Steam Pasteurization Assessment and Microbial Analysis (98-11B)			
		521857	Carcass Merit Traits: Development of EPD's and Genetic Marker Validation			

Active Projects

536237	Feasibility of Farming Seasonal Wetlands & Evaluation of Farmed Seasonal Wetlands	527245	Roles of Multiple Phospholipase Ds in Plant Reproduction & Senescence	527286	Molecular Analysis of Mucin-type Oglycosylation
536312	Position for HACCP Assessment Development and Implementation	527251	NMR Studies of Inactive and Active Forms of Blood Coagulation	527287	ADAM 12 in Myogenesis
536313	Food and Feed Value Added Program	527253	Regulation and Function of Membrane Lipid Hydrolysis in Lipid-Based Signaling of Plants	527288	Effect of Glucose on Blood Coagulation Factor XII
536389	Quick Reference Guide for Food Processors	527257	Biochcell Surface Proteins Involved the Encapsulation Response Insect Hemocytes	527289	Immunogenic Tumor-Related Mucin Peptides
536411	Position for HACCP Assessment Development and Implementation	527259	Effects of Cosolvents on Hydrophobic Hydration	527291	Structure and Activity of Human TorsinA
536448	Feasibility of Farming Seasonal Wetlands & Evaluation of Farmed Seasonal Wetlands	527262	Evaluation of Insect Serpins as Biopesticides	527293	Research Experiences for Undergraduates (REU) Supplement
536450	Feasibility Of Farming Seasonal Wetlands & Evaluation Of Farmed Seasonal Wetlands	527263	Cancer Protective Effects of Wheats with Different Antioxidant Potentials	527297	A Kirkwood-Buff Approach to Improved Cosolvent Force Fields
536455	Adding Value To Kansas Flour Milling Byproducts	527264	Molecular Dynamics Simulations of the Effects of Salts on the Aggregation Properties of Benzene in Water	527297	A Kirkwood-Buff Approach to Improved Cosolvent Force Fields
536462	Food Safety Consumer Education and Mass Media for Latino Audiences	527265	Selective Inhibitors of Pyruvate Dehydrogenase Kinase Isoforms	529219	Proteinase Systems in Insect Hemolymph (Year 9)
536469	Healthy Indoor Air For Kansas Homes	527267	NMR Studies of Inactive and Active Forms of Blood Coagulation Factor XII	529276	Role Of Ordered Helical Segments In Membrane Proteins
536494	KSU Meat Extension & Pilot Plant	527268	Cyclic Peptide Inhibitors of Enzymes of the Contact System	529279	Role of Ordered Helical Segments in Membrane Proteins
536734	Kansas Food Safety Plan of Work Projects	527269	Wheat Crop Improvement by Genetic Engineering	529344	Regulation of Mammalian Pyruvate Dehydrogenase
536740	USDA Recipe Analysis	527270	Molecular Genetics and Function of Pectinases in Two Animal Species	529411	Role of Adam 12 Disitegrin Domain in Myoblast Fusion
536741	HACCP Training Materials for Schools	527271	Evaluation of Insect Serpins as Biopesticides	529412	Role of Adam 12 Disitegrin Domain in Myoblast Fusion
536757	North Central Regional Aquaculture Center Extension Project	527272	Biotechnology Career Fellowship - Dr. Rethinasamy Velazhahan	529431	Molecular Dynamics Simulations of Effects of Salts on the Aggregation Properties of Benzene in Water
536765	Food-A-Syst for Food Producers and Home Food Preparers	527274	Regulation of Protein Cross-Linking Reactions for Insect Cuticle	529432	Molecular Dynamics Simulations of Effects of Salts on the Aggregation Properties of Benzene in Water
536766	HACCP Implementation & Management in Small Meat and Food Processors in Four Mid-West States	527275	AstraZeneca Compounds as Inhibitors	529451	Structure and Function of HSP 100 Proteins
536768	Land Grant College HACCP Training and Support for State and Local Regulators on Meat and Poultry Processing HACCP Systems	527276	A Novel Mini-Protein Scaffold for Creation of Compact Structures for Retroviral-Mediated Intracellular Peptide Libraries	529461	Protein Kinase C Gamma in the Lens
536777	Feeding Value and Present Day Marketing Channels of Wheat Dockage	527277	Precise Mechanism of PDH Regulation of PDH Kinases		
536826	Improving HACCP Systems for Small Meat and Food Processors in Four Midwest States	527278	Functional Domains in ClpB, a Novel Molecular Chaperone		
536836	Extension Education Position	527279	Factor XII: Structure-Function Relationships		
536838	Improving Good Agricultural Practices (GAPs) for Small Fruit and Vegetable Growers and Processors in Kansas	527280	Immunogenic Tumor-Associated Mucin Peptides		
536864	Educational Programs on Food Safety and Irradiation	527281	Molecular Genetics of Enzymes and Structural Proteins of Aphid Saliva		
		527282	Enhanced Resistance to Scab by Genetic Engineering with Genes for Defense Proteins		
		527283	Wheat Crop Improvement By Genetic Engineering		
		527284	Cancer Protective Effects Wheats with Different Antioxidant Potentials		
		527285	Characterizing Functions of Multiple Phospholipase DS in Arabidopsis		

Biochemistry

526556	Alcon Research Institute Award
527239	Development of Insect Chitinolytic Enzymes as Biopesticides
527244	Solution NMR Structure of Putative Ca ²⁺ -Binding C2-Domain in Phospholipase D

Biological Ag Engineering

520003	Agricultural Research Management Project
520003	Agricultural Research Management Project
525451	FY2001 KS Water Res. Res. Inst. - Real Time Crop Water Management and Irrigation Scheduling Web Site
527724	Identification of Wheat Quality Characteristics using Single Kernel Spectral Analysis
527725	USDA/ARS Automatic Control of an Instrumented Two-Roll Mill
527737	Atrazine Monitoring Project: Joint Nebraska/Kansas Blue River Study
527743	Fecal Coliform Contamination KS River Basins: Source, Monitoring, and Development, and Demonstration of Best Management Practices
527747	Water Conservation -- Increased Efficiency In Usage
527751	Joint State Atrazine Big Blue River Monitoring Project

Active Projects

527753	South Central KS Irrigation Scheduling and Water Management Project	536746	Drift Minimization through Education: an Interactive Multimedia Cd & Internet Delivered Course of Study	526717	Evaluating the Role of Resource Heterogeneity in Restoring Grasslands
527754	Water Contaminants Evaluation Study	536796	South Central Kansas Irrigation Management Project	526723	Lipid Analysis of Migratory Sandhill Cranes
527755	Ecological Livestock Pollution Control - Performance Evaluation Part I	536825	Effective Utilization of Dairy Manure Nutrients	526725	Function Of Tousled Protein Kinase In Arabidopsis Development
527756	EPA Experimental Program to Stimulate Competitive Research SEER2	536829	Demonstration of Best Management Practices to Avoid Groundwater Pollution from Application of Livestock Manure to Cropland - Part 2	526725	Function of Tousled Protein Kinase in Arabidopsis Development
527757	EPA EPSCOR-Enhancement of Water Quality Research			526727	Long-Term Ecological Research in Tallgrass Prairie: The Konza Prairie LTER Program
527758	EPA Experimental Program to Stimulate Competitive Research			526730	Differentiation of Bone Marrow Macrophages in Space
527759	EPA EPSCOR-Enhancement of Water Quality Research	Biology		526736	Biotic Interactions of Grassland Plants: Above & Belowground Linkages
527761	USDA/ARS Research Support Agreement T.O.	524062	Reclamation of Native Tallgrass Prairie at KS Army Ammunition Plant (Year 02)	526737	Testing of Water Filter and Purification Devices
527762	Precise Injection of NH using Pulse-Width Modulation Metering	526583	Establishment and Operation of the KS Cooperative Fish and Wildlife Research Unit	526738	REU: Biotic Interactions of Grassland Plants: above-and Belowground Linkages
527763	Technical Assistance Water Users: S Central KS Irrigation Scheduling	526650	Coccidia of the World	526739	REU in Grassland Ecology at Konza Prairie Research Natural Area
527764	Water Conservation -- Increased Efficiency In Usage	526656	REU in Grassland Ecology at Konza Prairie Research Natural Area	526741	Differentiation of Bone Marrow Macrophages in Space: Phase B
527765	Kanopolis Watershed Assessment, Part 1 - Federal \$	526666	Konza Prairie Documentary Film	526742	Water Contaminants Evaluation Study
527766	Kansas Public Broadcasters Council Service and Incentive	526670	Experimental Manipulation Of Variability In Precipitation In A Grassland	526743	Grassland Ecosystem Response to the Experimental Manipulation
527767	Ecological Livestock Pollution Control - Part 2	526670	Experimental Manipulation of Variability in Precipitation in a Grassland	526744	Quality and Quantity of Suspended Material in Kansas Rivers: Demonstrating the Influence of Management Practices
527768	Automated Detection of Single Kernel Grain Attributes	526682	Genomic Database for Cryptosporidium Spp	526745	In Vitro Assay for Cryptosporidium
527769	Research Support Agreement #58-5430-7-507 / T.O. #T15430205	526683	Evaluating the Role of Resource Heterogeneity in Restoring Grasslands	526746	Genetic Regulation of Developmental Fate
527770	Technical Assistance to Water Users: SC KS Irrigation Scheduling and Water Management Project	526684	Long-Term Ecological Research in Tallgrass Prairie: Konza LTER Program	526748	Grassland Ecosystem Response to the Experimental Manipulation of Precipitation
527771	Pesticide Applicator Timing Used as a Best Management Practice to Improve Water Quality	526688	Influence of Gravity as a Determinant in Cellular Biology	526749	Belowground Responses to Manipulation of Precipitation Timing and Amounts in a Grassland Ecosystem
527772	Ecological Livestock Pollution Control - Part 3	526690	Administrative Support for Executive Committee KS NASA EPSCOR Program	526750	Acquisition of an Isotope Ratio Mass Spectrometer in the KSU-KU-Creighton Univ. Consortium
527773	Technical Assistance to Water Users: KSU Water Assistance Team Mobile Lab	526691	Administrative Support for Executive Committee KS NASA EPSCOR Program	526751	Use of Sandsage Habitat by Lesser Prairie-Chicken in Southwestern KS
527775	Performance Evaluation of Wetlands in NE Kansas	526694	Influence of Gravity as a Determinant in Cellular Biology	526752	Pest Control Implications of Several Tribolium Castaneum Genes
529441	Improving the Work Environment in Livestock Buildings	526695	"REU Supplement" - Long-Term Ecological Research In Tallgrass Prairie: Konza LTER Program	526753	REU: Biotic Interactions of Grassland Plants: Above and Belowground Linkages
529442	Improving the Work Environment in Livestock Buildings	526702	Nitrogen Uptake, Retention and Cycling in Stream Ecosystems: Experiment	526754	Evaluating Parasitocidal Activity of Compounds Provided by Merck Against Cryptosporidium Parvum
536226	Kansas Environmental Leadership Program (KELP)	526704	Land-Cover Change in Great Plains: Predicting Impacts of Regional Forest	526755	USDA/ARS Research Support Agreement Task Order #T0-5430-207
536342	Indoor Air Quality Tools for Schools Demonstrations in Region 7 EPA States	526705	In Vitro Assay For Cryptosporidium Hri Acct#815-3471B & Hri 888-01		
536710	Cooperative Extension Program in Crop Drying and Post Harvest Handling	526716	Fecal Coliform Contamination in KS River Basins: Source, Monitoring, Development, Demo of BMPs		
536713	Livestock Environmental Issues Curriculum Development and Implementation Project				

Active Projects

526756	Long-Term Ecological Research in Tallgrass Prairie: The Konza Prairie	526784	Detection of Genes Encoding UV Repair Enzymes in Cryptosporidium	537661	Grant Radio Community Service Grant FY2001						
526756	Long-Term Ecological Research In Tallgrass Prairie: Konza LTER Program	526787	Kansas NIH COBRE Center for Cancer Experimental Therapeutics	<h3>Community Health</h3>							
526757	Salicyclic Acid Signaling Pathway and its Cross Talk with Jasmonic Acid and Ethylene Signaling in Plant Defense	527290	AstraZenica Materials Transfer Agreement								
526758	Belowground Carbon And Nutrient Dynamics In Arctic Tundra Under Changing Climates	527297	A Kirkwood-Buff Approach to Improved Cosolvent Force Fields								
526759	Role of Tetraspans in Regulating Cell Adhesion and Migration	527297	A Kirkwood-Buff Approach to Improved Cosolvent Force Fields								
526760	Use of Remote Sensing and GIS to Monitor and Model Bison Grazing Patterns at Landscape Levels	529040	Lens Membrane in Relation to Human Cataractogenesis								
526761	Quality and Quantity of Suspended Material in Kansas Rivers: Demonstrating the Influence of Best Management Practices - Part 2	529049	Lens Membrane in Relation to Human Cataractogenesis (Year 19)								
526762	Curriculum Integration Using Case-Based Computer-Assisted Instruction	529391	Functional Analysis of Anti-Apoptotic IAP Proteins								
526763	Apoptosis as an Anti-Viral Defense Mechanism in Insects	529391	Functional Analysis of Antiapoptotic IAP Proteins								
526764	Reactive Nanoparticles as Destructive Adsorbents	529402	dsRNAs of Cryptosporidium Parvum								
526765	Acquisition of Five Controlled Environment Chambers for Plant Research	536513	Outdoor Wildlife Learning Site (Owls)								
526766	EPA Fellowship Grant	536514	Outdoor Wildlife Learning Site (Owls)	536418	Opportunities for Prevention Education and Networking in Kansas (Open-K) *(was Offender Prevention and Education Network of Kansas (Open-K)*						
526767	Assessing Impact of Exposure of Periphyton to Linear Alkylbenzene Sulfonate with Microscale Sensors at the Procter & Gamble Expt. Stream Facility	<h3>Civil Engineering</h3>		536421	Rural Network Development Grant Program						
526768	Restoration of Native Grasslands and LCTA			527951	Lagoon Water Quality Study, Part 4	536440	Offender Prevention & Education Network of KS (Open-K Connectivity)				
526769	Optimizing Recovery of Cyclospora H2 - Receptor and Tetraspans as Novel Cancer Therapy Targets			<h3>Clinical Sciences</h3>		536502	Army Adolescent Growth & Development Training for State Strengthening				
526770	Influence of Gravity as a Determinant in Cellular Biology					528785	Determination Of Pulmonary Inflammation & Function After Admin Of Inhaled Beclomethasone & Injectable Dexamethasone In Horses	536736	Technical Support for the KHF Community-Based Developmental Assets Project In Abilene		
526771	Ecosystems in Transition: Causes and Consequences of Dramatic Shifts					<h3>Clothing, Textiles</h3>		536738	Technical Support for the KHF Community-Based Developmental Assets Project in Abilene - Year 2		
526773	Systematics and Geographic Relations of Phlox L. (Polemoniaceae)							528012	Soybean Alkyd Resins in Pigment Printing of Textiles and Materials	536739	Technical Support for the KHF Community-Based Developmental Assets Project in Abilene - Year 3
526774	Niche Separation Among Ectomycorrhizal Fungi - FEDERAL \$							528013	Research on Kenaf	536743	Rural Stroke Prevention - Agreement between the United Methodist Health Ministry Fund and KSU,CES
526775	Niche Separation Among Ectomycorrhizal Fungi - STATE \$							536139	Kansas Public Health and Environmental Information Library (KPHEIL) - Cooperative Agreement between KS Dept of Health and Environment and CES, KSU	536754	Agreement between KDHE & KSU, CES Rural Stroke Prevention
526778	SUBCONTRACTS FOR The Influence of Gravity as a Determinant in Cellular Biology							536775	Income for Cooperative Agreement Between KS Dept of Health & Environment and CES, KSU	536769	Cooperative Agreement Between the Regional Prevention Center and CES, KSU
526780	"Schoolyard" - Long-Term Ecological Research in Tallgrass Prairie: The Konza Prairie LTER Program							536804	Healthy Homes - Kansas	536770	Cooperative Agreement between KDHE and CES, KSU - Immunization Mailings
526781	Long-Term Postdoctoral Fellowship: Elucidation of Animal Diversity by Comparing Drosophila and Tribolium Wing Development	<h3>Communications</h3>						536773	KS Health Foundation Distinguished Professorship in Community Health		
								536722	Bugs in Kansas Book	536779	Connect Kansas
				536776	Impact Evaluation Plan			536802	Agreement Between KDHE and CES, KSU (Rural Stroke Prevention)		
				536795	Kansas Public Broadcasters Council Service And Incentive Program Fy01			536803	Team Nutrition Demonstration Project Schools		
				536795	Evaluation Of Tox-Guard As A Mold Inhibitor In High-Molasses Textured Feeds	536828	Healthy Places, Healthy Communities				
				536857	Wheat Commission / Biotechnology Communication	536831	Ogden Youth Center and CES, KSU Cooperative Agreement				
				536868	Kansas Library Network Board FY2001 Digitization Grant Kansas Climate Collection	536837	CYFERNet Technology				
				537660	FY 2000 Radio Community Service	536837	CYFERNet Technology				
						536858	Evaluation of the Kansas Department				

Active Projects

of Health and Environment
Community Health Intervention
Process

Coop Extension

- 536358 Haskell Extension Program for American Indian Youth
536794 Penalty Mail Extension Mailing (Special Account)
536794 Penalty Mail Extension Mailing (Prop #11867) / ** Formula Funds**

Dean & Director

- 525077 Research Activities (Research Apprenticeship H.S. Studies)
536004 Secretarial Support - Huck Boyd National Institute For Rural Development
536478 Work-Study Student Hourly Support Huck-Boyd Nat'L Institute for Rural Development

Dean of Human Ecology

- 535009 Inter-Institutional Masters Degree and Postbaccalaureate Certificate in Family Financial Planning: Extending the Reach and Improving Accessibility
536793 Kansas Public Broadcasters Council Service and Incentive
536810 Food Stamp Awareness and Access Campaign
536815 Kansas Food Stamp Nutrition Education Plan - KNN
536816 Kansas Food Stamp Nutrition Education Plan - FNP

Diagnostic Med./Pathobiology

- 521791 Virginimycin Effects on Rumen Metabolism in Cattle During Adaptation to a High Concentrate Diet
521810 Riparian Buffer Initiative for the Kansas Potawatomie Reservation
521836 Effect of Monensin on Frothy Bloat in Cattle Fed Bloat-Provocate, High-Grain Diet
528396 Why Do Current Vaccines Fail to Reliably Prevent Kennel Cough in Racing Greyhounds
528401 BHV-1 and BHV-5 Neuropathogenesis Studies
528409 Enhancing Greyhound Immune Function and Reproductive Efficiency: Breeding for Optimal Histocompatibility Genotypes
528410 Safety Studies in Dogs and Cats of a Fabric Refresher
528413 Is Neoplastic and Neurologic Disease

in Scott Co, KS Related to Agricultural Chemical Exposure?

- 528414 Studies of the Safety of Fiber Ab Product in Household Pets
528415 Production of Full-Length Nucleoprotein for PRRSV Antibody Elisa (KSU Elisa)
528416 Fabric Refresher #2
528417 Mouse Model to Assess Anthelmintic Efficacy/Resistancy against Migrating Larvae of Toxocara Canis in Greyhounds
528418 Role of Glycoproteins gE and gI in BHV-1 and BHV-5 Differential Neuropathogenesis
528419 Suppression of Heat in Racing Female Greyhounds
528420 Evaluation of the Immunogenicity and Protective Effects of Recombinant Leukotoxin Proteins of Fusobacterium Necrophorum in Mice
528421 Development of an Effective Vaccine for Canine Rotavirus.
528422 Pseudorabies Laboratory Testing
528423 Wheat Bran Lectin: A Safe, Food-Grade Mucosal Adjuvant
528423 Wheat Bran Lectin: A Safe, Food-Grade Mucosal Adjuvant
528423 Wheat Bran Lectin: A Safe, Food-Grade Mucosal Adjuvant
528423 Wheat Bran Lectin: A Safe, Food-Grade Mucosal Adjuvant
528425 Development of a Canine Model of E coli Induced Hemorrhagic Colitis and Hemolytic Uremic Syndrome: Phase II (previous # = 528403)
528775 A Safety Study of Glade Carpet Deodorizer in Cats and Dogs
530116 Pseudorabies Laboratory Testing
530550 Suppression of Heat in Racing Female Greyhounds
536295 Kansas Water Resources Adult Education
536295 Curriculum Integration using Case-Based Computer-Assisted Instruction

Director of AES

- 525081 Development and Management of Canola in the Great Plains Region
525082 Development and Management of Canola in the Great Plains Region
525083 Internet Publishing of Selected Full-Text Translations from Chinese Literature Pertaining to the Soybean Aphid
525085 Consortium for Agricultural Soils Mitigation of Greenhouse Gases (CASMGs)
525086 Consortium for Agricultural Soils

Mitigation of Greenhouse Gases (CASMGs)

Entomology

- 520342 Insecticide Management of Field Crop Insects at Hays, Kansas
522362 Development of a Corn Rootworm Areawide Management Program in Kansas
522370 Molecular Basis of Wing Polymorphism in the Pea Aphid
522373 Second Generation European Corn Borer/Southwestern Corn Borer Research
522374 Second Generation European Corn Borer/Southwestern Corn Borer Research
522380 Control of Residue-Borne Winter Wheat Diseases
522389 Exchange of Aegilops Germplasm & Molecular Biochemical Techniques for Enhanced Aphid Resistance in Wheat
522392 Alfalfa Weevil Insecticide Efficacy Research
522392 Alfalfa Weevil Insecticide Efficacy Research
522393 Bactrocera dorsalis Complex: Species Boundaries and Diagnostic Markers
522394 Species Boundaries in the Wood Roach, Cryptocercus
522395 Monitoring Insect Population Dynamics and Movement Using Molecular Markers
522396 Tougaloo College Project
522402 Heliothis virescens: Model to Study Mating-Induced Allotropism in Lepidoptera
522405 Alfalfa Weevil Efficacy and Spray/No-Spray BT Corn Trial
522406 Factors Influencing Flight & Dispersal of Lesser Grain Borer Adults
522407 Facilitate Multiple Pest Resistant Wheat Germplasm Research
522410 Monoclonal-Antibody-Based Identification Kit for Cotesia flavipes
522412 Survival of Resistant European Cornborer on Transgenic Corn Lines
522413 Wheat and Sorghum Crop Profiles
522414 Kansas Pesticide Impact Assessment Program
522417 Integrated Crop Management: Spider Mites on Greenhouse-Grown Ivy Geraniums
522418 Establishment and Enhancement of the Prairie Arthropod Collection from the Konza LTER Site at Kansas State University
522419 Evaluating the Effects of Pesticide

Active Projects

522420	Mixtures on Aquatic Organisms Evaluating the Effects of Pesticide Mixtures on Aquatic Organisms	522444	ment of Stored Product Insect Pests Research Support Agreement #58- 5430-7-507 / T.O. #T15430206		Combining E-Coli 0157:H7 Control Programs and Feedlot Performance
522422	Acquisition of a Low-Vacuum Scanning Electron Microscope for Bio Biological, Physical	522445	Using Crop Insurance to Improve Transgenic Corn Refuge Compliance	Food/Feed Grain Inst.	
522423	USDA/ARS Research Support Agreement	522447	Control of Residue-Borne Winter Wheat Diseases	525211	Feeds Post Harvest Handling/ Uganda
522424	USDA/ARS Research Support Agreement	522448	Consortium for Cereal Resistance to Pests	525219	Grain Storage and Management Project for Hot and Tropical Environments
522425	Investigation of Adult Male Gypsy Moth Dispersal Behavior	522449	Determine Physiological Effects of Insect Growth Regulators for Major Pest Species	525221	Informal Employment & Sustainable Livelihoods
522426	Milkweed Survey	522451	Product Transfer and Evaluation Agreement	525222	White Wheat Commercialization in Export Markets
522427	Wildlife Flea Infestation Correlated to Selected Urban Ecological Factors -- Graduate Fellowship	522452	Product Transfer and Evaluation Agreement	536697	Training Program For Paul Mwebaze
522428	Revision of Nearctic Metaphycus, with a Phylogenetic Analysis of Aphycini	522453	Efficacy of Lead Transgenic Corn Rootworm Event Against Western and Northern Corn Rootworm	Foods & Nutrition	
522429	Phylogenetics of Termites	522455	Efficacy of New Lepidoptera and Coleoptera Active Transgenic Bt Corn Lines Against Several Corn Pests	528148	Zinc Deficiency - It'S Effect on Vitamin A Transport
522430	Efficacy of Lead Transgenic Corn Rootworm Events against Western and Northern Corn Rootworm	522456	Kansas Pesticide Usage Survey and Crop Profile Development	528152	Consumer Perception of Products Over Extended Use
522431	Efficacy of Lepidopteran Active Genes Against Stalk and Ear Feeding Insect Pests and Mycotoxin Occurrence	522456	Kansas Pesticide Usage Survey and Crop Profile Development	528157	Role of Carnitine in Fatty Acid Metabolism
522432	Efficacy of Lead Transgenic Corn Rootworm (CRW) Events Against Western and Northern CRW (Sw Kansas)	522456	Kansas Pesticide Usage Survey and Crop Profile Development	528158	Role of Carnitine in Fatty Acid Metabolism
522433	Provide Specimens Properly Identified to Species of Key Members of the Bactrocera Dorsalis Group for DNA Analysis	522456	Kansas Pesticide Usage Survey and Crop Profile Development	528162	Product Methods Testing
522434	Spinosa and Transgenic Corn for Controlling Corn Borers	522457	A Plant Genomics Research and Training Career Advancement Program	528163	Odor of Plastics
522435	Efficacy of Lepidopteran Active Genes against Stalk and Ear Feeding Insect Pest and Mycotoxin Occur- rence	522458	Dow Research Project	528164	Evaluation of Product Characteristics
522436	Evaluation of Transgenic Corn for Corn Rootworm Pest Management	522459	Gall Mite Research Project	528165	Evaluation of Products
522437	Breeding Sorghum with Improved Grain Yield, Greenbug and Virus Resistance, and Pre-Flowering Drought Tolerance	522461	Biological Control of Stored Product Insects Pests	528166	Effect of Bovine Plasma IgG Fraction (BPI) on the Lymphatic Absorption of Cholesterol in a Rat Model
522438	Investigations on the Soybean Stem Borer in Kansas	522469	Insecticide Efficacy and Pest Population Monitoring / Damage-loss Assessments	528167	Elder's Use of Portion-Size Aids
522439	Biology and Management of Corn Borers in Kansas	530929	Support for Research on Cat Fleas	528168	Role of Vitamin A in Lung Epithelial Cell Repair
522440	Efficacy of Lepidopteran Active Genes Against Stalk and Ear Feeding Insect Pests and Mycotoxin Occurrence	536340	Pesticide Applicator Training - Salaries	528170	Sensory Evaluation of Pet Foods
522441	Diagnostic Molecular Genetic Markers to Detect Multi-Gene Greenbug Resistance in Wheat	536730	Integrated Crop Management: Spider Mites on Greenbug-Grown Ivy Geraniums	528171	Effects of Modified Tall Oil on Body Composition in Rats when Fed in Conjunction with other Nutritional Supplements
522442	Restoration of Native Grasslands and LCTA	536767	Management of North Central Region Pesticide Impact Assessment Program - Soybean, Beef & Corn	528172	Visual Properties of Food
522443	Consortium for Integrated Manage-			528173	Sensory Analysis Assistance
				528174	Synthesis & Biological Evaluation of Cholesteryl Ester Transfer Protein Inhibitors: Chloropuuphenone and its Analogs
				528175	Sensory Information Assistance
				528175	Sensory Information Assistance
				528176	Sensory Quality Evaluation
				528177	Refrigeration Knowledge and Practices of Consumers
				528178	Consumer Testing Assistance
				536333	Family Nutrition Program / Food Stamp Nutrition Education Plan
				536477	CATCHUP Collaboration - Nutrition
				536488	Family Nutrition Program / Food Stamp Nutrition Education Plan
				536747	KS Family Nutrition Program - Food Stamp Nutrition Education Plan
				536747	KS Food Stamp Nutrition Education Plan (KNN)

Food Animal Health

528792	Ecology of E-Coli 0157:H7 in Beef Cow-Calf Operations from Ranch thru Feedlots
528793	Ecological Distribution of E. coli O157:H7 Strains in Agricultural Environments
528794	Epidemiological Aspects of

Active Projects

536759	USDA/Army School-Age & Teen Project, Task I	523049	Evaluation of On-Line Moisture Sensors in an Extrusion Process Line	523078	IGP / Marketing Wheat - Mexico
536834	Match for Food Stamp Nutrition Education Plan	523051	USDA/ARS Research Support Agreement	523079	Optimizing Hard White Wheat Yield and Processing Performance in Kansas
536835	Improving Food Stamp Program Use Among Rural Older Adults: A Partnership for Research and Results	523052	USDA/ARS Research Support Agreement	523080	Development of Prediction Models for Wheat Quality Parameters
Grain Sciences		523053	Evaluation of On-Line Moisture Sensors in an Extrusion Process Line	523081	Quality of Sulfuryl Fluoride (Profume) Treated Wheat
522945	Quality Evaluation of Materials from KAES Wheat Breeding	523054	Development and Evaluation of Ultrasonic Devices for Management of Stored Product Moths and other Arthropods	523082	Market Scale Evaluation of White Winter Wheat in Flour Tortilla Manufacturing (sub with Univ of Sonora involved)
522986	Partial-Waxy Starch Mutants of Hard Wheats & Their Use in Oriental Noodle	523055	Sorghum Grain Storage and Handling Activity	523082	Market Scale Evaluation of White Winter Wheat in Flour Tortilla Manufacturing
522990	Grain Quality Oriented Marketing of Hard Winter Wheat	523056	The Laidig Wheat Millfeeds Test Project	523082	Market Scale Evaluation of White Winter Wheat in Flour Tortilla Manufacturing
523006	Use of SKCS Data for Commercial Milling of Soft Red Winter, Soft White & Hard Red Spring Wheat	523057	The Impact of Storage on Wheat Milling Performance	523082	Market Scale Evaluation of White Winter Wheat in Flour Tortilla Manufacturing (sub with Univ of Sonora involved)
523007	Development of a Stored Wheat Areawide Management Program in Kansas	523058	Marine Degradable and Edible Gun Plug (Phase 1 Option)	523082	Market Scale Evaluation of White Winter Wheat in Flour Tortilla Manufacturing (sub with Univ of Sonora involved)
523011	International Grains Program Advisory Board	523060	US Army Adhesive Project	523083	Pre-Harvest Prediction of Wheat End-Use Quality
523014	Quality of Hard Winter Wheat for Bread, Tortillas and Asian Noodles	523061	Evaluation of Tox-Guard as a Mold Inhibitor in High-Molasses Textured Feeds	523084	Materials Release Agreement
523016	Texture Characterization of Crunchy Foods During Chewing	523061	Evaluation Of Tox-Guard As A Mold Inhibitor In High-Molasses Textured Feeds	523085	Bakery Oven Humidity Measurement & Control (Match)
523019	Objective Characterization of Texture Properties of Crunchy During Chewing	523062	Chemical/Physical Modification of Gluten Protein and Characterization	523086	Wheat Marketing - Mexico
523021	Gluten Proteins that Improve Bread Quality	523063	Research Support Agreement #58-5430-7-507 / T.O. #T15430204	523087	Bakery Oven Humidity Measurement & Control
523022	Novel Sorghum Composite Flours Designed for Breadmaking	523064	Research Support Agreement #58-430-7-507 / T.O. #T15430205	523088	A Continuation of Development of a Stored Wheat Areawide Management Program in Kansas
523029	International Grains Program Advisory Board	523065	Wheat Screening for Natural Desirable Lipids	523090	Analysis of Superoxide Dismutase
523031	International Grains Program Advisory Board	523066	Spinosad: an Effective Alternative to Pesticides for Management of Stored-Wheat Insects	523103	Grain Facility System Analysis to Improve Adoption of Value-Enhanced Grain Handling and Marketing in the US
523036	Pellet Mash Conditioning: a Study to Better Understand the Process	523067	Quality Evaluation from KAES Wheat Breeding Programs	535173	Bakery Science and Management Professorship
523037	Characterization of Modified Gluten Protein	523068	International Grains Program Support Project	536232	Graduate Seminar Program
523038	Fellowship for the Management of Stored-Product Insects with Heat in Food-Processing Facilities	523069	Biodegradable Plastics from Wheat Starch and Polylactic Acid	536675	Market Development Grant - International Grains Program Grain Storage, Handling, and Sanitation Specialist
523039	Degradable Adhesive Performance of Modified Proteins for Navy Applications	523070	Tortilla Shelf Life Improvement	536696	Market Development Grant - International Grains Program Grain Storage, Handling and Sanitation Specialist
523041	Chemical/Physical Modification of Gluten Protein and Characterization	523071	Protein/Hardness Screening of Early Progeny Wheats	536783	White Wheat Commercialization
523044	Genetic and Environment Effects of Wheat Protein Quality During Grain Development	523072	Edible/Biodegradable Composites for Animal Feed Supplement Containers	536807	White Wheat Commercialization
523045	Extrusion Process for Pregelatinizing Modified Wheat Starch	523073	Optimizing Hard White Wheat Yield and Processing Performance in Kansas	Hort/Forestry	
523046	Development and Evaluation of Pest Management Programs at Retail Grocery Stores	523074	Heat Sterilization for Insect Management in Food-Handling Establishments	520516	Integrated Crop Management: Spider Mites on Greenhouse-Grown Ivy Geraniums
523048	Evaluation of On-Line Moisture Sensors in an Extrusion Process Line	523075	Pelleting Characteristics of Cottonseed Meal in Corn-Soy Based Rations	523860	Pecan Cultivar Evaluation
		523076	Pasta Ingredient Study	523870	The Evaluation and/or Assessment for Turfgrass
		523077	Consortium for Integrated Management of Stored Product Insect Pests	523873	The Evaluation and/or Assessment for Turfgrass (Greens Test)

Active Projects

524063	Environmental Impacts of Reducing Pesticide Uses on Fort Riley (Year 02)	524088	Physiological Mechanisms Involved in Chilling and Cold Stresses to Induce Tolerant of Cucurbitaceae and Strawberry	525449	FY2001 Kansas Water Resources Research Institute - Program Administration / Management Description
524065	National Turfgrass Evaluation Program (National Bermudagrass Test Bg-97-08)	536121	Missouri Pecan Growers	525452	FY2001 KS Water Res. Res. Inst. - A Field Assessment of Direct-Push Technology for Site Characterization
524066	The Importance of Carbon Balance & Root Activity in Creeping Bentgrass Tolerance to Summer Stresses	536356	Environmental Quality Incentives Program	536792	Implementing TMDL's in KS: Abatement of Non-Point Sources of Fecal Coliform Bacteria
524067	Biology & Management of Spring Dead Spot In Bermudagrass	536485	Riparian Buffer Initiative for the Kansas Potawatomie Reservation	536797	National Needs Fellowship - Management & Marketing Agribusiness Food & Forest Products
524069	Use of Pre-Charged Zeolites to Provide Aluminum for Blue Sepal Coloration During Hydrangea Production	536693	Fullbright/Laspau Fellowship For Boris Sanjur	536798	Watershed Specialist Initiative
524070	Turfgrass Testing	536745	Benefits and Design of Kansas Riparian Forest Buffers	536801	Planning Workshop for the Leadership Team of the Animal Waste Initiative
524071	Evaluation of Ornamental Species for the Great Plains	536780	Riparian Buffer Education to Improve Surface Water Quality in the Blue River of Nebraska and Kansas	536819	Abatement of Fecal Coliform Bacteria - Part 1
524073	Visitor Satisfaction of Fee-Based Interpretation in the Us Forest Service: Evaluation	536781	Water Quality Improvement of Vegetated Riparian Areas and Buffers	536821	Waste Management Water Quality Protection Learning Center
524074	Integrated Crop Management: Spider Mites on Greenhouse-Grown Ivy Geraniums	Hotel, Rest. Inst/ Mgmt.		536848	Implementing TMDL's in Kansas: Abatement of Nonpoint Sources of Fecal Coliform Bacteria
524075	Relationship between Tissue Nitrogen & Phosphorus Concentrations of Impatiens & Thrips Infestation & Damage on Impatiens	536683	Interdisciplinary Modules to Teach Waste/Residue Management in the Food Chain	Northeast Area Extension	
524076	Floriculture Research	KWRRI		536110	Kansas Agriculture and Rural Leadership, Inc.
524077	Relationship between Tissue Nitrogen & Phosphorus Concentrations of Impatiens & Thrips Infestation & Damage on Impatiens	525360	Integrated Ag Management Systems (IAMS) Using BMPs to Improve the Quality of Kansas Surface Waters	536839	Agricultural, Food, and Public Policy Preference Survey
524078	Noxious Weed Pesticide Reduction Study/Support of Developing Best Management Practices (BMPs) for Land Management Systems at Ft Riley	525365	Midwest Technology Assistance Center for Small Public Water Systems	Northwest Res. Ext. Center	
524079	Converting Transition Zone Fairways from Perennial Ryegrass to Kentucky Bluegrass or Seeded Zoysiagrass	525366	The Livestock Environmental Stewardship Initiative	525761	Other Multi Accounts Crop Performance
524080	Effects of Bacterium (Azospirillum Brasilense) and Vesicular Arbuscular Mychorrhizae (Glomus Intraradicies) on Cool-Season Turfgrass	525367	Integrated Ag. Mgmt. Systems (IAMS) Using BMP's to Improve the Quality of Kansas Surface Water	525772	Water Conservation--Increased Efficiency in Usage
524081	A Pilot Project for the Testing and Assessment of Participatory Farm Monitoring to Achieve TMDL Goals	525437	FY 1999 State Water Research Institute Program	525774	Optimal Planting Strategies for Irrigated Corn Production with Limited Well Capacities
524082	A Pilot Project for the Testing and Assessment of Participatory Farm Monitoring to Achieve TMDL Goals	525438	FY 1999 State Water Research Institute Program	525775	Planting Dates and Maturity Group Effects on Soybean Production in Kansas
524083	Bioeconomic Assessment of Biologically Based Pest Management on Ivy Geranium	525439	FY 1999 State Water Research Institute Internship- Fort Hays State University and Wichita State University	525777	Water & Sediment Control Basin & Underground Outlet Construction Project
524084	Converting Transition Zone Fairways From Perennial Ryegrass To Kentucky Bluegrass Or Seeded Zoysiagrass	525440	FY2000 Kansas Water Resources Research Institute	525778	Strategies for the Management of the Sunflower Stem Weevil
524085	Minimum Irrigation Requirements for Sod Production in Transition Zone	525441	FY2000 Kansas Water Resources Research Institute	525779	Quantifying Heat and Water Stress Impacts on Yield and Water Use for Oilseed Sunflower Crops
524086	KSU Gardens	525442	Marine Degradable And Edible Gun Plug	Plant Pathology	
524087	KSU Gardens Tourist Brochure	525444	Integrated Ag. Management Systems (IAMS) Using BMP's to Improve the Quality of Kansas Surface Water	524475	Non-Conventional Plant Improvement Technology
		525445	Green Topeka: Tree-Based Buffer Planning in the Shunganunga Creek Watershed	524478	Fusarium Research
		525446	Integrated Ag Mgmt Systems (IAMS) Using BMP's to Improve the Quality of Kansas Surface Water	524565	Nematode and Soybean Research
				524597	Agroecology & Biotechnology of Fungal Pathogens of Sorghum and Millet from the Greater Horns of Africa

Active Projects

536484	Kansas Agricultural Mediation Service
536486	Income for Kansas Agricultural Mediation Service
536493	Kansas Extension Farm Safety Performance Plan
536702	Sustainable Research & Education Program
536712	NCR SARE Professional Development Program Coordinator
536733	Sustainable Agriculture Research and Education Program
536744	Environmental Farm Analysis & Planning: a Whole Farm Planning Training Exercise Designed for Extension and NRCS Personnel
536744	Environmental Farm Analysis & Planning: a Whole Farm Planning Training Exercise Designed for Extension and NRCS Personnel
536749	KS Agricultural Mediation Service
536750	Income for KS Agricultural Mediation Service
536752	NCR SARE Professional Development Program Coordinator (Part 2)
536808	Integrated Pest Management - Salary Account - FORMULA FUNDS
536809	Integrated Pest Management - OOE Monies - FORMULA FUNDS
536812	Sustainable Agriculture Research and Education Program - (Kansas Professional Development Program)
536813	Kansas Agricultural Mediation Service
536814	Income for Kansas Agricultural Mediation Service
536833	Renewable Resources Extension Act Program (RREA Formula Funds)
536835	Improving Food Stamp Program Use Among Rural Older Adults: A Partnership for Research and Results
536853	NCR SARE Professional Development Program Coordinator
536874	Subcontracts for Environmental Farm Analysis and Planning Training Exercise Designed for Extension and NRCS Personnel

School of Family Studies

536005	Income for KS Health Foundation Projects
536495	Expanding Access to USDA & Land-Grant Universities Child Care Information, Programs & Services
536716	National Childcare Initiative Income Addition Alternative Account
536723	Path Intergenerational Project
536751	NNCC Internet Web Site & Database Recruitment for Air Force Internships Pilot Project

536753	CYFAR Supported Extension Staff Training
536755	Implementing the Coop. Extension System Child Care Initiative
536763	Veterinarian HACCP Training Program Reducing on-farm FOODBORNE Pathogens
536790	Income USDA / Army
536791	Immunize for Life Promotion and Education
536791	Immunize For Life Promotion And Education
536822	Path Intergenerational Project
536823	Implementing the CES Extension CARES Initiative
536842	SUBCONTRACTS for Expanding Access to USDA & Land-Grant Univ. Child Care Info. Program & Service
536869	Healthy Indoor Air for Kansas Homes

Sociology, Anthropology

527628	Agriculture in the Internet Economy
527629	Evaluation of the Healthwave Program
527630	SGER: Collaborative Research: The Internet and the U.S. Agricultural System

Southcentral Area Extension

536824	Healthy People Healthy Communities and National Network for Health-Immunization Work Group
--------	--

Southeast Area Extension

520002	Management Information System For Local Governments
535865	Double Crop Soybean Performance Test - Extension Area Offices
536788	A Short Season Corn Educational Program in Southeast Kansas
536789	A Soybean Extension Educational Program in Southeast Kansas

Southeast Res. Ext. Center

526416	Soybean Research in Southeast Kansas
526417	Integrated Management of the Soybean Cyst Nematode and Charcoal Rot
526418	Improving Soybean Profitability through Breeding
526419	Effects of Crop Rotation and Tillage Systems on Soybean Yield in SE KS
526419	Effects of Crop Rotation and Tillage Systems on Soybean Yield in SE Kansas
526420	Southeast KS Crop Performance Testing Program

526421	Effect of Supplementation Method on Grazing and Subsequent Feedlot Performance of Stocker Steers
--------	--

Southwest Area Extension

527577	Chemical Evaluation SW Area Ext. Multi-Sponsored Acct.
536700	Demonstration of Best Management Practices to Avoid Groundwater Pollution from Application of Livestock Manure to Cropland
536818	Irrigation Scheduling Demonstration of Efficient Water Use by Corn in Western Kansas

Southwest Res. Ext. Center

526193	Water Conservation--Increased Efficiency In Usage
526195	Optimal Planting Strategies for Irrigated Corn Production with Limited Well Capacities
526196	Windbreak Establishment
526197	Long-Term, Large-Scale Dryland Cropping Systems
526199	Planting Dates and Maturity Group Effects on Soybean Production in Kansas
526200	Manure & Water Management for Environmental Protection & Corn Production
526201	Water Conservation -- Increased Efficiency in Usage
526202	Compatibility of Intensified Cropping Systems & Wildlife Habitat in Western Kansas

Vet Diagnosis

528901	The Use Of Acid-Stable Interferon To Augment The Immune System Of Racing Greyhounds
--------	---

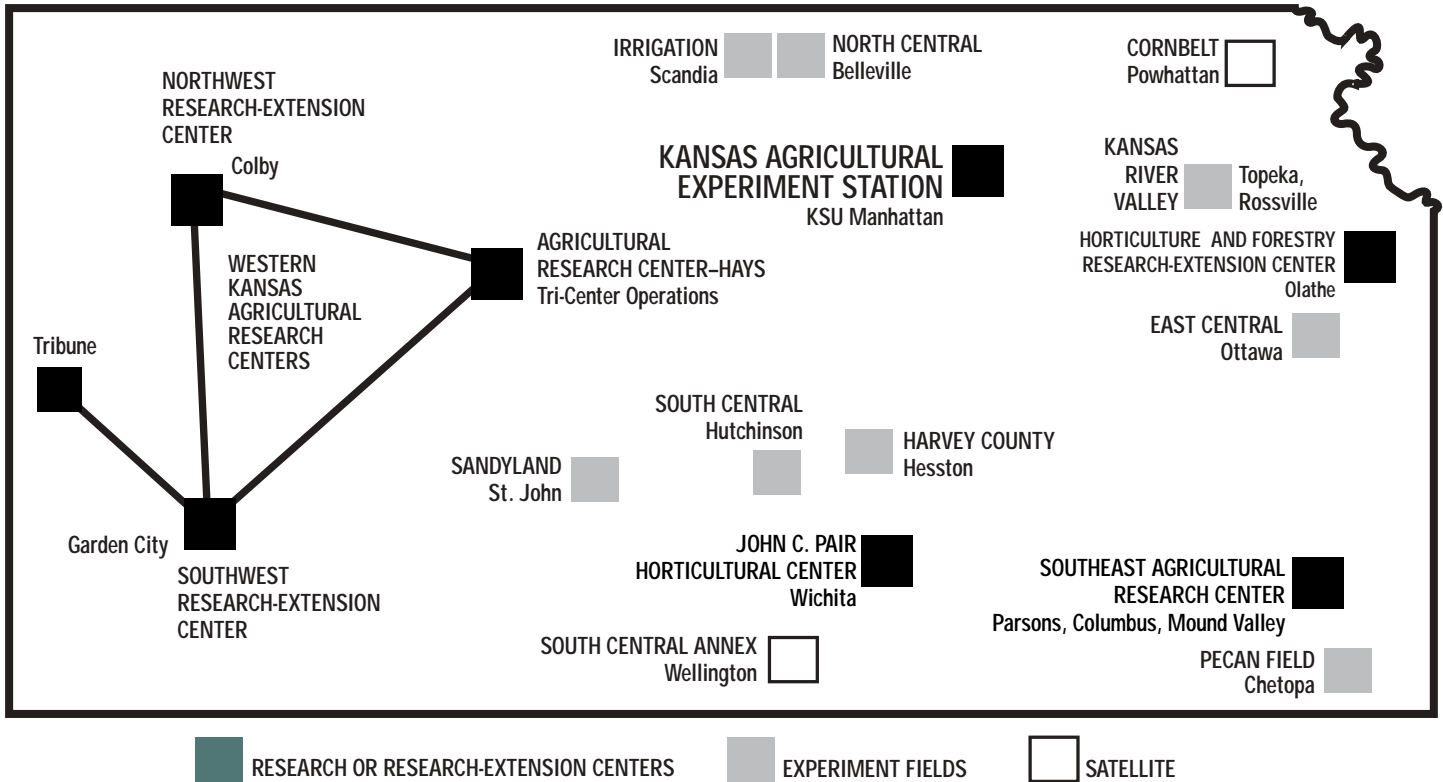
Wheat Research Center

527590	Hard White Wheat Varieties' Milling Performance
527591	Hard White Wheat Varieties' Milling Performance
527590	Hard White Wheat Varieties' Milling Performance
527591	Hard White Wheat Varieties' Milling Performance

FY2001 Kansas Agricultural Experiment Station Income and Disbursement Statement

	5.98%	53.13%	12.92%	27.97%		
FY2001 Funding	\$3,346,243	\$29,731,077	\$7,228,930	\$15,652,293	\$55,958,543	
	Federal	State	Fees	Sponsors	Total	Percent
FY2001 Expenditures						
Faculty and Administrative Salaries	\$2,248,461	\$18,521,528	\$895,002	\$8,312,889	\$29,977,880	53.57%
Classified and Student Salaries	\$209,163	\$5,950,812	\$875,684	\$1,437,127	\$8,472,786	15.14%
Contract Services and Travel	\$337,471	\$2,258,561	\$1,455,480	\$2,748,580	\$6,800,092	12.15%
Supplies and Material	\$448,069	\$1,843,418	\$3,462,752	\$2,285,801	\$8,040,040	14.37%
Equipment	\$103,079	\$1,156,758	\$540,012	\$867,896	\$2,667,745	4.77%
Totals	\$3,346,243	\$29,731,077	\$7,228,930	\$15,652,293	\$55,958,543	100%

Kansas State University Statewide Agricultural Research Services



Kansas State University Agricultural Experiment Station and Cooperative Extension Service

DRR 1

JANUARY 2002

It is the policy of Kansas State University Agricultural Experiment Station and Cooperative Extension Service that all persons shall have equal opportunity and access to its educational programs, services, activities, and materials without regard to race, color, religion, national origin, sex, age or disability. Kansas State University is an equal opportunity organization. Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, as amended. Kansas State University, County Extension Councils, Extension Districts, and United States Department of Agriculture Cooperating, Marc A. Johnson, Director.