

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 that reads "Marc A. Johnson".

Marc A. Johnson
Dean and Director
Agricultural Experiment Station

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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

- | | |
|---|---|
| <p>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
<i>Am. J. Ag. Econ.</i> 80:455-465, 1998</p> <p>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
<i>Agric. Systems</i> 66:129-144, 2000</p> <p>98-351-J Productive Efficiency and Growth Policies for the Caribbean
P. Lall, A.M. Featherstone, and D.W. Norman
<i>Appl. Econ.</i> 32:198-207, 2000</p> <p>99-94-J Women Accessing Agricultural Credit: The Rural Farmers Scheme, Uganda
B. Abaru, D. Norman, and A. Featherstone
<i>Proc. of 23rd Inter. Conf. of Ag. Economists</i> Sacramento, CA, 1997</p> <p>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
<i>J. Rural Health</i> 16:349-356, 2000</p> <p>00-145-J Value of Increased Pricing Accuracy in Fed Cattle
T.C. Schroeder and J.L. Graff
<i>Rev. Agric. Econ.</i> 22:89-101, 2000</p> <p>00-159-J Marketing Issues with Hydroponic Tomatoes
D. Coltrain and M. Boland
<i>Agric. Econ. Dept. Rep. (Staff Pap. 00-02):1-16</i>, 2000 (available from dept. only)</p> <p>00-357-J Price-Weight Relationships for Feeder Cattle
K.C. Dhuyvetter and T.C. Schroeder
<i>Can. J. Agric. Econ.</i> 48:299-310, 2000</p> <p>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
<i>J. Swine Health and Prod.</i> 9(5):215-223, 2001</p> <p>00-455-J Management Implications of Farm Tractor Depreciation Methods
T.J. Dumler, R.O. Burton Jr., and T.L. Kastens
<i>2000 J. ASFMRA</i> 63:3-10, 2000</p> | <p>00-470-D Profitability and Risk Measures for Investor-Owned Firms
C. Freberg, M. Boland, and D. Barton
<i>Agric. Econ. Dept. Rep. (Staff Pap. 00-07):1-52</i>, 2000 (available from dept. only)</p> <p>00-478-D Summary of Data and Company Information for 220 Investor-Owned Firms and Cooperatives
C. Freberg, M. Boland, and D. Barton
<i>Agric. Econ. Dept. Rep. (Staff Pap. 00-09):1-23</i>, 2000 (available from dept. only)</p> <p>00-493-J Identifying Economic Risk in Cattle Feeding
D.R. Mark, T.C. Schroeder, and R. Jones
<i>J. Agribus.</i> 18:331-344, 2000</p> <p>01-6-D Impact of Higher Oil Prices on Production Costs for Kansas Farm Management Association Farms
J.R. Williams and F.D. DeLano
<i>Agric. Econ. Dept. Rep. (Staff Pap. 01-01):1-20</i>, 2000 (available from dept. only)</p> <p>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
<i>J. Agric. Res. Econ.</i> 25:453-467, 2000</p> <p>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
<i>2001 J. ASFMRA</i> 64:32-38, 2001</p> <p>01-35-D Efficiency and Productivity Measures of Low Income Countries: Implications for Development
S. Tubene, D. Norman, and A. Featherstone
<i>Agric. Econ. Dept. Rep. (Res. Rep. #31): 1-17</i>, 2000 (available from dept. only)</p> <p>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
<i>Proc. 16th Symp. Intl. Farming Syst. Assoc. and 4th Symp. Latin Am. Farming Syst. Res. and Ext. Santiago, Chile, 9, 2000</i></p> <p>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
<i>Proc. 16th Symp. Intl. Farming Syst. Assoc. and 4th Symp. Latin Am. Farming Syst. Res. and Ext. Santiago, Chile, 13, 2000</i></p> |
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- 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
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- 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
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- 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
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- 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
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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
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- 00-117-A Efficient Estimation of Genetic Coefficients for Crop Models
S.M. Welch, J. Zhang, N. Sun, and T.-Y. Mak
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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

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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
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- 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
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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
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- 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
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- 00-317-J Seed Treatment for Control of Wheat Insect Pests and Its Effect on Yield
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- 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
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- 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
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S.M. Liphadzi and M.B. Kirkham
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- 00-385-J *In Situ* Stabilization of Soil Lead Using Phosphorus
G.M. Hettiarachchi, G.M. Pierzynski, and M.D. Ransom
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G.M. Hettiarachchi, G.M. Pierzynski, and M.D. Ransom
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Publications of Station Scientists

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 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
 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 (<i>Amaranthus</i> 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 <i>Ascophyllum nodosum</i> 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 <i>Escherichia coli</i> 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

526756 Long-Term Ecological Research in Tallgrass Prairie: The Konza Prairie

526756 Long-Term Ecological Research In Tallgrass Prairie: Konza LTER Program

526757 Salicyclic Acid Signaling Pathway and its Cross Talk with Jasmonic Acid and Ethylene Signaling in Plant Defense

526758 Belowground Carbon And Nutrient Dynamics In Arctic Tundra Under Changing Climates

526759 Role of Tetraspans in Regulating Cell Adhesion and Migration

526760 Use of Remote Sensing and GIS to Monitor and Model Bison Grazing Patterns at Landscape Levels

526761 Quality and Quantity of Suspended Material in Kansas Rivers: Demonstrating the Influence of Best Management Practices - Part 2

526762 Curriculum Integration Using Case-Based Computer-Assisted Instruction

526763 Apoptosis as an Anti-Viral Defense Mechanism in Insects

526764 Reactive Nanoparticles as Destructive Adsorbents

526765 Acquisition of Five Controlled Environment Chambers for Plant Research

526766 EPA Fellowship Grant

526767 Assessing Impact of Exposure of Periphyton to Linear Alkylbenzene Sulfonate with Microscale Sensors at the Procter & Gamble Expt. Stream Facility

526768 Restoration of Native Grasslands and LCTA

526769 Optimizing Recovery of Cyclospora

526770 H₂ - Receptor and Tetraspans as Novel Cancer Therapy Targets

526771 Ecosystems in Transition: Causes and Consequences of Dramatic Shifts

526773 Systematics and Geographic Relations of Phlox L. (Polemoniaceae)

526774 Niche Separation Among Ectomycorrhizal Fungi - FEDERAL \$

526775 Niche Separation Among Ectomycorrhizal Fungi - STATE \$

526778 SUBCONTRACTS FOR The Influence of Gravity as a Determinant in Cellular Biology

526780 "Schoolyard" - Long-Term Ecological Research in Tallgrass Prairie: The Konza Prairie LTER Program

526781 Long-Term Postdoctoral Fellowship: Elucidation of Animal Diversity by Comparing Drosophila and Tribolium Wing Development

526784 Detection of Genes Encoding UV Repair Enzymes in Cryptosporidium

526787 Kansas NIH COBRE Center for Cancer Experimental Therapeutics

527290 AstraZenica Materials Transfer Agreement

527297 A Kirkwood-Buff Approach to Improved Cosolvent Force Fields

527297 A Kirkwood-Buff Approach to Improved Cosolvent Force Fields

529040 Lens Membrane in Relation to Human Cataractogenesis

529049 Lens Membrane in Relation to Human Cataractogenesis (Year 19)

529391 Functional Analysis of Anti-Apoptotic IAP Proteins

529391 Functional Analysis of Antiapoptotic IAP Proteins

529402 dsRNAs of Cryptosporidium Parvum

536513 Outdoor Wildlife Learning Site (Owls)

536514 Outdoor Wildlife Learning Site (Owls)

Civil Engineering

527951 Lagoon Water Quality Study, Part 4

Clinical Sciences

528785 Determination Of Pulmonary Inflammation & Function After Admin Of Inhaled Beclomethasone & Injectable Dexamethasone In Horses

Clothing, Textiles

528012 Soybean Alkyd Resins in Pigment Printing of Textiles and Materials

528013 Research on Kenaf

536139 Kansas Public Health and Environmental Information Library (KPHEIL) - Cooperative Agreement between KS Dept of Health and Environment and CES, KSU

536775 Income for Cooperative Agreement Between KS Dept of Health & Environment and CES, KSU

536804 Healthy Homes - Kansas

Communications

536722 Bugs in Kansas Book

536776 Impact Evaluation Plan

536795 Kansas Public Broadcasters Council Service And Incentive Program Fy01

536795 Evaluation Of Tox-Guard As A Mold Inhibitor In High-Molasses Textured Feeds

536857 Wheat Commission / Biotechnology Communication

536868 Kansas Library Network Board

537660 FY2001 Digitization Grant Kansas Climate Collection

537660 FY 2000 Radio Community Service

Grant

537661 Radio Community Service Grant FY2001

Community Health

536118 National Network for Health (was National Decisions for Health Network)

536140 Cooperative Agreement between KS Dept of Health / Environment and CES, KSU WIC Mailings

536207 Cooperative Agreement Between KSU Dept Of Education And CES, KSU

536207 Cooperative Agreement Between KSU Dept of Education and CES, KSU

536418 Opportunities for Prevention Education and Networking in Kansas (Open-K) *(was Offender Prevention and Education Network of Kansas (Open-K)*)

536421 Rural Network Development Grant Program

536440 Offender Prevention & Education Network of KS (Open-K Connectivity)

536502 Army Adolescent Growth & Development Training for State Strengthening

536736 Technical Support for the KHF Community-Based Developmental Assets Project In Abilene

536738 Technical Support for the KHF Community-Based Developmental Assets Project in Abilene - Year 2

536739 Technical Support for the KHF Community-Based Developmental Assets Project in Abilene - Year 3

536743 Rural Stroke Prevention - Agreement between the United Methodist Health Ministry Fund and KSU,CES

536754 Agreement between KDHE & KSU, CES Rural Stroke Prevention

536769 Cooperative Agreement Between the Regional Prevention Center and CES, KSU

536770 Cooperative Agreement between KDHE and CES, KSU - Immunization Mailings

536773 KS Health Foundation Distinguished Professorship in Community Health

536779 Connect Kansas

536802 Agreement Between KDHE and CES, KSU (Rural Stroke Prevention)

536803 Team Nutrition Demonstration Project Schools

536828 Healthy Places, Healthy Communities

536831 Ogden Youth Center and CES, KSU Cooperative Agreement

536837 CYFERNet Technology

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 Accessibil- ity
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 Agricul- tural Chemical Exposure?
528414	Studies of the Safety of Fiber Ab Product in Household Pets
528415	Production of Full-Length Nucleopro- tein 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 Fusobacte- rium 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 Polymor- phism 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

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 Satisfactions 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 Floriculture Research	536683	Interdisciplinary Modules to Teach Waste/Residue Management in the Food Chain	Northeast Area Extension	
524076	Relationship between Tissue Nitrogen & Phosphorus Concentrations of Impatiens & Thrips Infestation & Damage on Impatiens	KWRRI		536110	Kansas Agriculture and Rural Leadership, Inc.
524077	Noxious Weed Pesticide Reduction Study/Support of Developing Best Management Practices (BMPs) for Land Management Systems at Ft Riley	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	Converting Transition Zone Fairways from Perennial Ryegrass to Kentucky Bluegrass or Seeded Zoysiagrass	525365	Midwest Technology Assistance Center for Small Public Water Systems	Northwest Res. Ext. Center	
524079	Effects of Bacterium (Azospirillum Brasilense) and Vesicular Arbuscular Mychorrhizae (Glomus Intraradicies) on Cool-Season Turfgrass	525366	The Livestock Environmental Stewardship Initiative	525761	Other Multi Accounts Crop Performance
524081	A Pilot Project for the Testing and Assessment of Participatory Farm Monitoring to Achieve TMDL Goals	525367	Integrated Ag. Mgmt. Systems (IAMS) Using BMP's to Improve the Quality of Kansas Surface Water	525772	Water Conservation--Increased Efficiency in Usage
524082	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
524083	Bioeconomic Assessment of Biologically Based Pest Management on Ivy Geranium	525438	FY 1999 State Water Research Institute Program	525775	Planting Dates and Maturity Group Effects on Soybean Production in Kansas
524084	Converting Transition Zone Fairways From Perennial Ryegrass To Kentucky Bluegrass Or Seeded Zoysiagrass	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
524085	Minimum Irrigation Requirements for Sod Production in Transition Zone	525440	FY2000 Kansas Water Resources Research Institute	525778	Strategies for the Management of the Sunflower Stem Weevil
524086	KSU Gardens	525441	FY2000 Kansas Water Resources Research Institute	525779	Quantifying Heat and Water Stress Impacts on Yield and Water Use for Oilseed Sunflower Crops
524087	KSU Gardens Tourist Brochure	525442	Marine Degradable And Edible Gun Plug	Plant Pathology	
		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
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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
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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
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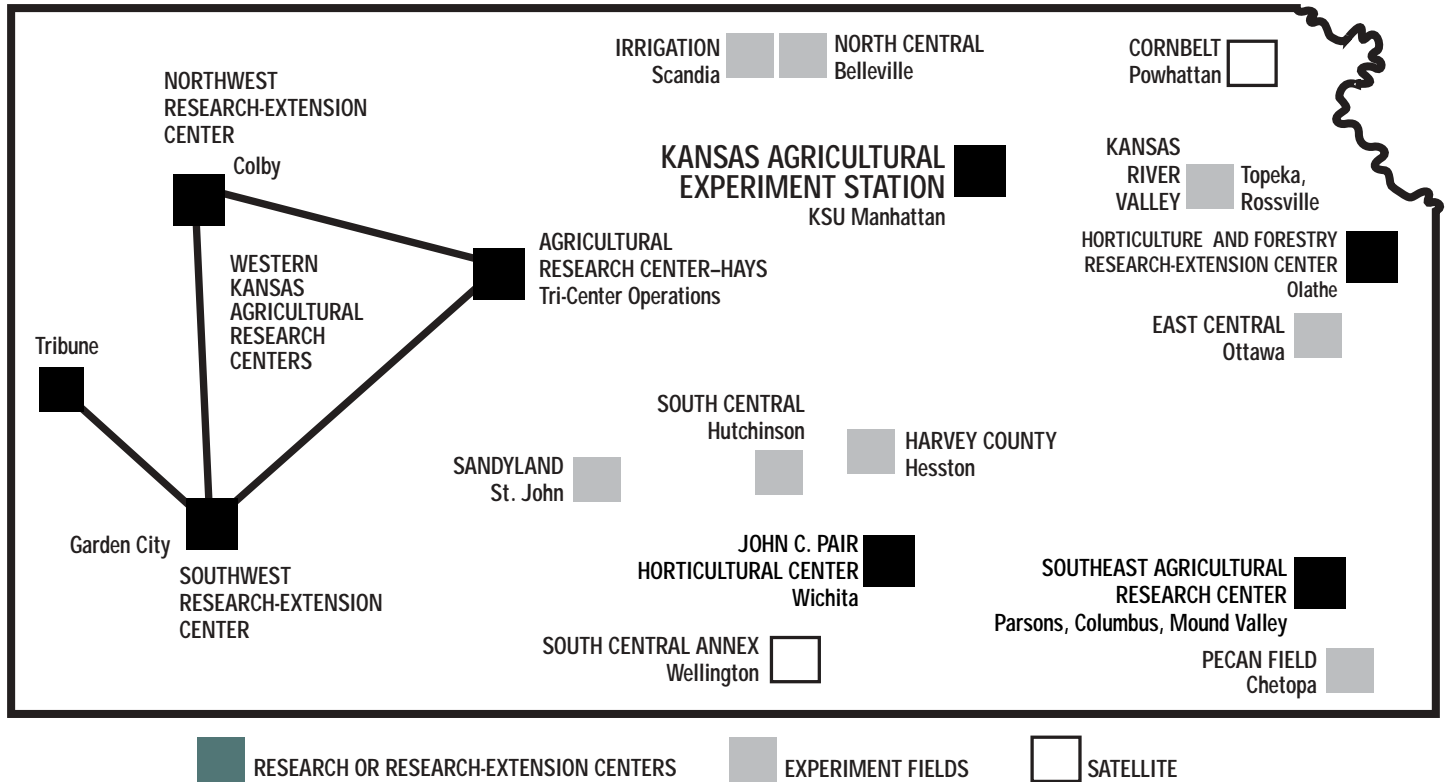
Wheat Research Center

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

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JANUARY 2002

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