

Letter of Transmittal

Office of the Director

To the Honorable William Graves, Governor of Kansas

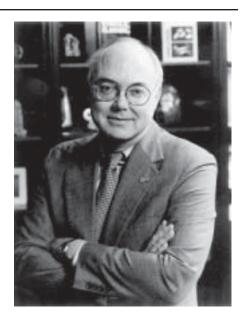
It is my pleasure to transmit herewith the report of the Agricultural Experiment Station of the Kansas State University of Agriculture and Applied Science for the fiscal year ending June 30, 2001. This report contains the title, author, and publication information for manuscripts published by station 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.

Marc A. Johnson Dean and Director

Agricultural Experiment Station

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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

VE	purta	ou riogiess
SRP	857	2000 Kansas Performance Tests with Winter Wheat Varieties
SRP	858	Swine Day 2000
	859	2000 Evaluation of Postharvest Life of Selected Fresh-Cut Flowers and Greenery
_	9 860 9 861	2000 Kansas Performance Tests with Corn Hybrids Dairy Day 2000
_	862	2000 Great Plains Canola Research
_	863	Seasonal Avian Use of Farmed Kansas Wetlands
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SKP	864	1999 Production and Postharvest Evaluations of Fresh-Cut Peonies
SRP	865	2000 Kansas Performance Tests with Grain Sorghum
ODD	000	Hybrids
SKP	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 Satisfactions
SRP	875	2001 Agricultural Research Southeast Agricultural
0	3.0	Research Center
SRP	876	Field Research 2001 Agronomy Experiment Fields
0111	310	Tiola 1.000 at on 2001 / Igrotionly Exponition (Floids

Keeping Up With Research

2001 Turfgrass Research

	5 1
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

Field Day 2001 Southwest Research-Extension Center

Bulletin

SRP 877

SRP 878

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	Agr	icultur	al Eco	nomics
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- 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. Dritz, M.R. Langemeier, M.D. Tokach, R.D. Goodband, and J.L. Nelssen J. Swine Health and Prod. 9(5):215-223, 2001
- 00-455-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)
- O1-10-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

01-318-S

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)

- 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
- O1-325-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 (available from dept. only)	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
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)	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
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)	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
01-476-D	Also in the Proc. of the WAEA Staff, Programs, and Publications in Agricultural Economics — Kansas State University, 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
	D.L. Foster Agri. Econ. Dept. Rep. (Staff Pap. 01-11):1-50, 2001 (available from dept. only)	00-41-J	Evaluation of a Ninhydrin Procedure for Measuring Membrane Thermostability of Wheat C. Cekic and G.M. Paulsen
Agrono	omy		Crop Sci. 41:1351-1355, 2001
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	00-96-J	Competition for Nitrogen in a Tallgrass Prairie Ecosystem Exposed to Elevated CO ₂ M.A. Williams, C.W. Rice, and C.E. Owensby Soil Sci. Soc. Am. J. 65:340-346, 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	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
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	00-117-A	Efficient Estimation of Genetic Coefficients for Crop Models S.M. Welch, J. Zhang, N. Sun, and TY. Mak Proc. 3rd Intl. Symposium on Systems Approaches for Agricultural Development International Potato Center (CIP), Lima, Peru, CD-ROM,
99-14-J	Carbon and Nitrogen Dynamics and Microbial Activity in Tallgrass Prairie Exposed to Elevated CO ₂ for 8 Years M.A. Williams, C.W. Rice, and C.E. Owensby Plant and Soil 227:127-137, 2000	00-131-J	2000 Photosynthesis and Stomatal Conductance of the New Zealand Native Tree, <i>Meryta sinclairii</i> , Grown Under Two Watering Regimes
99-312-J	Allelopathy of Sorghum on Wheat under Several Tillage Systems		M.B. Kirkham, F.M. Kelliher, and J.E. Hunt New Zeal. J. Bot. 38 (3):515-519, 2000
	C.M. Roth, J.P. Shroyer, and G.M. Paulsen Agron. J. 92:855-860, 2000	00-151-J	Photoperiodic Regulation of Seasonal Diapause Induction in the Field Bindweed Moth <i>Tyta luctuosa</i> (Lepidoptera: Noctuidae) N.W. Miller, J.R. Nechols, M.J. Horak, and T.M. Loughin Riel Cont. 10:1320-1488-2000

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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	00-302-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
00-200-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
00-210-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	00-317-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
00-239-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	00-325-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
00-251-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	00-331-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
00-267-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	00-353-J	Efficacy and Metabolism of MON 37500 in <i>Triticum</i> 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
00-284-J	Comparative Physical Mapping of the 18S-5.8S-26R rDNA in Three Sorghum Species Y. Sang and G.H. Liang Genome 43:918-922, 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
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	00-371-A	Hereditas 133:229-233, 2000 Repellency of Soil Beneath Closed Animal Waste Lagoons S.M. Liphadzi and M.B. Kirkham Proc. 15th Conf. International Soil Tillage Research
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520833	Protecting Groundwater Quality		Ethylene Dibromide (EDB) in Mature Cranberry Fruit and Plants at Harvest		on Grazed & Ungrazed Tallgrass Prairie (Sub-Title: Carbon & Water
320033	Variable Nitrogen Management for Improving Groundwater Quality		at Massachusetts		Vapor Fluxes)
520837	Pigweed (Amaranthus spp.)	520887	Wind Erosion Model for Military	520921	Developing a Research and
	Identification, Hybridization and	520888	Lands Wind Erosion Assessment & Control		Extension Program to Limit the Spread and Enhance the Manage-
520844	Introgression Development of Improved Soybean	520889	Development of Acid-Tolerant Alfalfa		ment of Sericea Lespedeza In
	Varieties for Kansas		Germplasm for Kansas		Kansas
520845	Control of Residue-Borne Winter	520890	Addition of Genes Encoding Thaumatin-Like Protein and Late	520922	Pilot Study of Influences of Atmospheric Pressure Fluctuations
520857	Wheat Diseases Implementation of Best Management		Embryogenesis Abundant Protein		on Fluxes of Trace
020001	Practices in the Blue River Basin of	520891	Alachlor Acetochlor & Metachlor	520923	Impact of Animal Waste Compost on
500004	Kansas and Nebraska	520892	Metabolites in Plant and Soil Alachlor Acetochlor & Metachlor	520924	Turfgrass Soil Quality Gluten Proteins that Improve Bread
520864	The Impact of Golf Courses on Soil Quality	520692	Metabolites In Plant And Soil	320324	Quality
520865	Fecal Coliform Contamination in	520893	Integrating Genetics and Precision	520925	Improving Resistance to Preharvest
	Kansas River Basins: Source,		Farming Information into Decision Support Systems	520926	Sprouting in Kansas White Wheat Breeding Grain Sorghum for
	Monitoring, Development, Demo of Bmp's	520895	EPA Experimental Program to	320320	Improved Dryland Production
520866	Gene Flow, Distribution, Growth &		Stimulate Competitive Research	520927	Improving Soybean Profitability
	Competitiveness of Pursuit-Resistant Common Sunflower	520896	EPA EPSCOR - Enhancement of	520928	through Breeding Improving the Crop Safety and Weed
520867	Kansas EPA EPSCOR: Enhance-	520897	Water Quality Research EPA Experimental Program to	320920	Control Efficacy of Metsulfuron-(Ally)-
	ment of Environmental Remediation		Stimulate Competitive Research		Based Herbicide Programs for Grain
520868	Research - Subs (KU & WSU) Kansas EPA EPSCOR: Enhance-	520898	Seer1 EPA EPSCOR - Enhancement of	520929	Sorghum Integrated Management of the
320000	ment of Environmental Remediation	320090	Water Quality Research / Seer 1	320323	Soybean Cyst Nematode and
	Research - Seer 3 (Yr 1 & 2)		•	F00000	Charcoal Rot
520869	Kansas EPA EPSCOR: Enhance- ment of Environmental Remediation	520899	EPA Experimental Program to Stimulate Competitive Research	520930	Planting Dates and Maturity Group Effects on Soybean Production in
	Research - Mgmt (Yr 1 & 2)		Seer3		Kansas
520871	Educational Tools for Wind Erosion	520900	EPA EPSCOR - Enhancement of	520931	Post-Control Weed Competitiveness
520872	Control KS EPA EPSCOR: Enhancement of	520902	Water Quality Research / Seer 3 Soil Rating and Growth Model for the		as Input Into a Weed Management DSS
020072	Environment Remediation Research	020002	Valuation of Irrigated Lands in	520932	Iron (Fe) Chlorosis: Addressing A
520873	KS EPA EPSCOR: Enhancement of	500004	Kansas		Familiar Problem With New Technology
520874	Environment Remediation Research Match for KS EPA EPSCOR:	520904	Canola Production Centers: Introducing a Viable New Crop to	520933	Water Conservation Increased
02007 1	Enhancement of Environment		Kansas		Efficiency In Usage
	Remediation Research	520907	Potential for Imidazolinone-Resistant	520934	Transformation of Sorghum with Agronomically Useful Genes
520875	Breeding for Ergot Avoidance in Sorghum: Mid-Season Cold		Sunflower Gene Escape and Altered Fitness of Related Wild Species	520935	Adaptation of Weedsoft Weed
	Tolerance	520908	Aluminum Tolerance in Canola:		Management Decision Aid Software
520876	Site-Specific Lime Applications to		Developing Canola Varieties Adapted	520936	Research Support Agreement #58-
	Reduce Phosphorus Loading in the Cheney	520909	to Low Ph Soils Sorghum Research	520937	5430-7-507 T.O. #T15430203 Assessment of Plant Root Develop-
	Watershed	520911	Jeoung Fellowship		ment in Alternative Cover Plots at
520877	Development of Wheat Germplasm	520912	USDA/ARS Research Support	520027	Rocky Mountain Arsenal, Colorado
	with Multiple Disease & Insect Resistance for the South Great	520913	Agreement Task Order #T05430203 USDA/ARS Research Support	520937	Assessment of Plant Root Develop- ment in Alternative Cover Plots at
	Plains	020010	Agreement Task Order #T05430202		Rocky Mountain Arsenal, Colorado
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520937	Assessment of Plant Root Develop- ment in Alternative Cover Plots at	536728	CHLTH Agreement Between KS Smokeless Kids Initiative & KSU Res/	521861	Responses of Cattail Vegetation to Stocker Cattle Grazing
E20027	Rocky Mountain Arsenal	526772	Exten Comm Health	521862	Steam Pasteurization Assessment &
520937	Assessment of Plant Root Develop- ment in Alternative Cover Plots at	536772 536774	Grazing Land Water Quality - Part 4 Reducing Atrazine Runoff-Delaware	521863	Microbial Analysis Post-Process Pasteurization of
520938	Rocky Mountain Arsenal Development of Wheat Germplasm	536784	& Blue Rivers - Part 3 White Wheat Commercialization		Packaged, Ready-To-Eat Meat Products for Control of Listeria
02000	with Multiple Disease and Insect	536785	Soybean Production in Kansas:		Monocytogenes
	Resistance for the Southern Great		Extension and Applied Research	521864	Animal Sciences Food Safety
E20020	Plains	536786	Grain Sorghum Production in	E0400E	Consortium - KSU
520939	Improvement of Hard Red Winter Wheat for Kansas		Kansas: Extension and Applied Research	521865	Modulation of Immune Response in Feeder Cattle with Flaxseed
520940	Development of Hard White Winter Wheat for Kansas	536787	Corn Production in Kansas: Extension and Applied Research	521869	Immunomodulatory and Growth Effects of the Seaweed Ascophyllum
520942	Gluten Proteins that Improve Bread	536800	Wheat Research / Extension		Nodosum in
E20042	Quality		Assistant	521870	Effects of Dried Plum Puree on
520943	Control of Residue-Borne Winter Wheat Diseases	536806 536811	White Wheat Commercialization Research/Demonstration/Education		Foodborne Pathogens in Meats and Meat Products
520944	Lagoon Water Quality Study Part 4	330011	Compost Facility	521871	Planting Dates And Maturity Group
520945	Evaluation of Tan-Plant Sorghum Hybrids	536830	Grazing Land Water Quality - Part 5		Effects On Soybean Production In Kansas
520946	Isoxaflutole Losses in Surface Water			521872	Salmonella Spp. and Listeria
520947	Runoff Consortium for Agricultural Soil	Anato	my & Physiology		Monocytogenes Risk Assessment for Production and Cooking of Blade
0200+1	Mitigation of Greenhouse Gases	528602	Neurons & Neuropeptides in Sea		Tenderized Beef Steaks
	(CASMGS)	F00000	Anemones	521873	Evaluation of Optiboar for Assessing
520948	Elucidation of and Development of	528603	Neurons & Neuropeptides In Sea Anemones	=0.40=4	Characteristics of Boar Semen
F000F0	Cold Tolerance in Sorghum	528608	High Resolution Regional Maps of	521874	Distiller's Byproducts for Cattle: Food Safety, Meat Quality and Cattle
520953	Evaluation of Agri-SC for Reducing Soil, Nutrient, and Herbicide Losses	02000	Swine Chromosomal Segments		Performance
	in Cropland Runoff		Containing QTL	521875	Feeding Flaxseed & Flaxseed
520954	Evaluating Nitrate Leaching	528612	Porcine Antimicrobial Peptides		Products to Improve Health &
	Characteristics for Various Nitrogen Management Strategies for Irrigated	528615	Contribution of the NADPH Oxidase to Reperfusion Injury		Performance of Stressed Feeder Calves
	Corn Along the Lower Arkansas	528616	Regulated Ion Transport by Vas	521876	Control of Listeria Monocytogenes in
	River		Deferens Epithelium		Ready-To-Eat Meats
520955	Investigations of Vegetative Capping	528617	Ionic Basis of Repolarization in	521878	Effect of Protein Size and Source on
F00000	Strategies for Fly-Ash Disposal Sites		Equine Heart: Relevance to Atrial Fibrillation and Acquired LQTS		Delayed Type Hypersentivity in Early Weaned Pigs
520966	Sprinkler Irrigation Demonstration Project	528618	The NADPH Oxidase and Neutrophil	521879	Merchandising Value-Added Lamb
520967	Variety Testing, Farmer Education		Recruitment in Muscle	02.070	Shoulder to the Food Service
	and Management of Identity	529421	LKS & LKUR in Granulosa Cells		Industry
	Preserved Farming Systems			521880	Corn Byproducts for Cattle:
525450	FY2001 KS Water Res. Res. Inst Measuring Seepage Losses from	Anima	I Sciences		Performance, Food Safety & Meat Quality
	Waste-Treatment Lagoons: A			521881	Post-Process Pasteurization of
	Simplified Water Balance Approach	521788	A Soybean Extension Educational Program in Southeast Kansas		Packaged, Ready-to-Eat Pork
	for Use by Government Agencies,	521822	Effectiveness of Clioptilolite as a		Products for Control of Listeria
E06047	Consultants, and Industry		Suspending Agent in Liquid Feed	521884	Monocytogenes Evaluation of Nutridense Corn
536317	Yesterday's Research for Tomorrow's Needs		Supplements	321004	Hybrids for Nursery Pig Diets
536338	Grazing Land Water Quality - Part 2	521828	Wheat Middling Evaluations	521887	Molecular Characterization of
536375	Matching for Yesterday's Research	521835	HACCP Implementation and Evaluation in Small and Very Small		Escherichia coli 0157:H7 from Beef
	for Tomorrow's Needs		Meat and Poultry Plants		animals, Environment and Foodborne
536504	Developing A World Class Nutrition	521837	Effect of Plants on Bioavailibility and	521888	Disease Outbreaks Development of an Integrated
	Course Strengthened Quality/ Contained Costs		Toxicity of Contaminants in Soil	321000	HACCP Plan and Microbiological
536704	Grazing Land Water Quality	521848	Steam Pasteurization Assessment		Risk Assessment of Beef Trim and
	Education Program: Part 3	5010F7	and Microbial Analysis (98-11B)		Intervention Treatments for Use as
536726	Wheat Research/Extension Assistant	521857	Carcass Merit Traits: Development of EPD's and Genetic Marker Validation	505000	Raw Material for Ground Beef
				535030	Teaching Support Livestock and Meat Industry Council
					mode modely Countries

536237	Feasibility of Farming Seasonal	527245	Roles of Multiple Phospholipase Ds	527286	Molecular Analysis of Mucin-type
	Wetlands & Evaluation of Farmed	507054	in Plant Reproduction & Senescence	507007	Oglycosylation
E00040	Seasonal Wetlands	527251	NMR Studies of Inactive and Active	527287	ADAM 12 in Myogenesis
536312	Position for HACCP Assessment	507050	Forms of Blood Coagulation	527288	Effect of Glucose on Blood
E06040	Development and Implementation	527253	Regulation and Function of	F07000	Coagulation Factor XII
536313	Food and Feed Value Added Program		Membrane Lipid Hydrolysis in Lipid- Based Signaling of Plants	527289	Immunogenic Tumor-Related Mucin
536389	Quick Reference Guide for Food	527257	Biochcell Surface Proteins Involved	527291	Peptides Structure and Activity of Human
330303	Processors	321231	the Encapsulation Response Insect	327291	TorsinA
536411	Position for HACCP Assessment		Hemocytes	527293	Research Experiences for Under-
330411	Development and Implementation	527259	Effects of Cosolvents on Hydrophobic	321233	graduates (REU) Supplement
536448	Feasibility of Farming Seasonal	027200	Hydration	527297	A Kirkwood-Buff Approach to
	Wetlands & Evaluation of Farmed	527262	Evaluation of Insect Serpins as	02/20/	Improved Cosolvent Force Fields
	Seasonal Wetlands		Biopesticides	527297	A Kirkwood-Buff Approach to
536450	Feasibility Of Farming Seasonal	527263	Cancer Protective Effects of Wheats	02.20.	Improved Cosolvent Force Fields
	Wetlands & Evaluation Of Farmed		with Different Antioxidant Potentials	529219	Proteinase Systems in Insect
	Seasonal Wetlands	527264	Molecular Dynamics Simulations of		Hemolymph (Year 9)
536455	Adding Value To Kansas Flour Milling		the Effects of Salts on the Aggrega-	529276	Role Of Ordered Helical Segments In
	Byproducts		tion Properties of Benzene in Water		Membrane Proteins
536462	Food Safety Consumer Education	527265	Selective Inhibitors of Pyruvate	529279	Role of Ordered Helical Segments in
	and Mass Media for Latino Audi-		Dehydrogenase Kinase Isoforms		Membrane Proteins
	ences	527267	NMR Studies of Inactive and Active	529344	Regulation of Mammalian Pyruvate
536469	Healthy Indoor Air For Kansas		Forms of Blood Coagulation Factor		Dehydrogenase
=00404	Homes	======	XII	529411	Role of Adam 12 Disitegrin Domain in
536494	KSU Meat Extension & Pilot Plant	527268	Cyclic Peptide Inhibitors of Enzymes		Myoblast Fusion
536734	Kansas Food Safety Plan of Work	507000	of the Contact System	529412	Role of Adam 12 Disitegrin Domain in
E26740	Projects	527269	Wheat Crop Improvement by Genetic Engineering	======	Myoblast Fusion
536740 536741	USDA Recipe Analysis	527270	Molecular Genetics and Function of	529431	Molecular Dynamics Simulations of
330741	HACCP Training Materials for Schools	321210	Pectinases in Two Animal Species		Effects of Salts on the Aggregation Properties of Benzene in Water
536757	North Central Regional Aquaculture	527271	Evaluation of Insect Serpins as	529432	Molecular Dynamics Simulations of
000101	Center Extension Project		Biopesticides	020402	Effects of Salts on the Aggregation
536765	Food-A-Syst for Food Producers and	527272	Biotechnology Career Fellowship -		Properties of Benzene in Water
	Home Food Preparers		Dr. Rethinasamy Velazhahan	529451	Structure and Function of HSP 100
536766	HACCP Implementation & Manage-	527274	Regulation of Protein Cross-Linking		Proteins
	ment in Small Meat and Food		Reactions for Insect Cuticle	529461	Protein Kinase C Gamma in the Lens
	Processors in Four Mid-West States	527275	AstraZeneca Compounds as		
536768	Land Grant College HACCP Training		Inhibitors	Riolog	ical Ag Engineering
	and Support for State and Local	527276	A Novel Mini-Protein Scaffold for	520003	Agricultural Research Management
	Regulators on Meat and Poultry		Creation of Compact Structures for	320003	Project
	Processing HACCP Systems		Retroviral-Mediated Intracellular	520003	Agricultural Research Management
536777	Feeding Value and Present Day	507077	Peptide Libraries	020000	Project
	Marketing Channels of Wheat Dockage	527277	Precise Mechanism of PDH	525451	FY2001 KS Water Res. Res. Inst
536826	Improving HACCP Systems for Small	507070	Regulation of PDH Kinases		Real Time Crop Water Management
330020	Meat and Food Processors in Four	527278	Functional Domains in ClpB, a Novel Molecular Chaperone		and Irrigation Scheduling Web Site
	Midwest States	527279	Factor XII: Structure-Function	527724	Identification of Wheat Quality
536836	Extension Education Position	321213	Relationships		Characteristics using Single Kernel
536838	Improving Good Agricultural	527280	Immunogenic Tumor-Associated		Spectral Analysis
	Practices (GAPs) for Small Fruit and	027200	Mucin Peptides	527725	USDA/ARS Automatic Control of an
	Vegetable Growers and Processors	527281	Molecular Genetics of Enzymes and		Instrumented Two-Roll Mill
	in Kansas		Structural Proteins of Aphid Saliva	527737	Atrazine Monitoring Project: Joint
536864	Educational Programs on Food	527282	Enhanced Resistance to Scab by		Nebraska/Kansas Blue River Study
	Safety and Irradiation		Genetic Engineering with Genes for	527743	Fecal Coliform Contamination KS
			Defense Proteins		River Basins: Source, Monitoring,
Bioche	emistry	527283	Wheat Crop Improvement By Genetic		and Development, and Demonstration of Best Management Practices
526556	Alcon Research Institute Award		Engineering	527747	Water Conservation Increased
527239	Development of Insect Chitinolytic	527284	Cancer Protective Effects Wheats	J2/14/	Efficiency In Usage
32.200	Enzymes as Biopesticides		with Different Antioxidant Potentials	527751	Joint State Atrazine Big Blue River
527244	Solution NMR Structure of Putative	F0701-	0	02,701	Monitoring Project
	Ca2+ -Binding C2-Domain in	527285	Characterizing Functions of Multiple		3 1
	Phospholipase D		Phospholipase DS in Arabidopsis	I	
			4.4		

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	536829	Demonstration of Best Management Practices to Avoid Groundwater	526725	Function of Tousled Protein Kinase in Arabidopsis Development
527757	SEER2 EPA EPSCOR-Enhancement of		Pollution from Application of Livestock Manure to Cropland - Part	526727	Long-Term Ecological Research in Tallgrass Prairie: The Konza Prairie
527758	Water Quality Research EPA Experimental Program to		2	526730	LTER Program Differentiation of Bone Marrow
	Stimulate Competitive Research	Biology	/		Macrophages in Space
527759	EPA EPSCOR-Enhancement of Water Quality Research	524062	Reclamation of Native Tallgrass Prairie at KS Army Ammunition Plant	526736	Biotic Interactions of Grassland Plants: Above & Belowground
527761	USDA/ARS Research Support Agreement T.O.		(Year 02)	526737	Linkages Testing of Water Filter and Purifica-
527762	Precise Injection of NH using Pulse-	526583	Establishment and Operation of the KS Cooperative Fish and Wildlife		tion Devices
527763	Width Modulation Metering Technical Assistance Water Users: S	526650	Research Unit Coccidia of the World	526738	REU: Biotic Interactions of Grassland Plants: above-and Belowground
527764	Central KS Irrigation Scheduling Water Conservation Increased	526656	REU in Grassland Ecology at Konza	526739	Linkages REU in Grassland Ecology at Konza
	Efficiency In Usage	526666	Prairie Research Natural Area Konza Prairie Documentary Film		Prairie Research Natural Area
527765	Kanopolis Watershed Assessment, Part 1 - Federal \$	526670	Experimental Manipulation Of Variability In Precipitation In A	526741	Differentation of Bone Marrow Macrophages in Space: Phase B
527766	Kansas Public Broadcasters Council Service and Incentive		Grassland	526742	Water Contaminants Evaluation Study
527767	Ecological Livestock Pollution Control - Part 2	526670	Experimental Manipulation of Variability in Precipitation in a Grassland	526743	Grassland Ecosystem Response to the Experimental Manipulation
527768	Automated Detection of Single Kernel Grain Attributes	526682	Genomic Database for	526744	Quality and Quantity of Suspended Material in Kansas Rivers: Demon-
527769	Research Support Agreement #58- 5430-7-507 / T.O. #T15430205	526683	Cryptosporidium Spp Evaluating the Role of Resource		strating the Influence of Management Practices
527770	Technical Assistance to Water Users:		Heterogeneity in Restoring Grasslands	526745	In Vitro Assay for Cryptosporidium
	SC KS Irrigation Scheduling and Water Management Project	526684	Long-Term Ecological Research in Tallgrass Prairie: Konza LTER	526746	Genetic Regulation of Developmental Fate
527771	Pesticide Applicator Timing Used as a Best Management Practice to		Program	526748	Grassland Ecosystem Response to the Experimental Manipulation of
	Improve Water Quality	526688	Influence of Gravity as a Determinant in Cellular Biology	500740	Precipitation
527772 527773	Ecological Livestock Pollution Control - Part 3 Technical Assistance to Water Users:	526690	Administrative Support for Executive Committee KS NASA EPSCOR	526749	Belowground Responses to Manipulation of Precipitation Timing and Amounts in a Grassland
521115	KSU Water Assistance Team Mobile Lab	526691	Program Administrative Support for Executive	526750	Ecosystem Acquisition of an Isotope Ratio Mass
527775	Performance Evaluation of Wetlands in NE Kansas		Committee KS NASA EPSCOR Program		Spectrometer in the KSU-KU- Creighton Univ. Consortium
529441	Improving the Work Environment in Livestock Buildings	526694	Influence of Gravity as a Determinant in Cellular Biology	526751	Use of Sandsage Habitat by Lesser Prairie-Chicken in Southwestern KS
529442	Improving the Work Environment in Livestock Buildings	526695	"REU Supplement" - Long-Term Ecological Research In Tallgrass	526752	Pest Control Implications of Several Tribolium Castaneum Genes
536226	Kansas Environmental Leadership	526702	Prairie: Konza LTER Program Nitrogen Uptake, Retention and	526753	REU: Biotic Interactions of Grassland Plants: Above and Belowground
536342	Program (KELP) Indoor Air Quality Tools for Schools		Cycling in Stream Ecosystems: Experiment	500754	Linkages
	Demonstrations in Region 7 EPA States	526704	Land-Cover Change in Great Plains: Predicting Impacts of Regional Forest	526754	Evaluating Parasiticidal Activity of Compounds Provided by Merck
536710	Cooperative Extension Program in Crop Drying and Post Harvest Handling	526705	In Vitro Assay For Cryptosporidium Hri Acct#815-3471B & Hri 888-01	526755	Against Cryptosporidium Parvum USDA/ARS Research Support Agreement Task Order #T0-5430-
536713	Livestock Environmental Issues Curriculum Development and Implementation Project	526716	Fecal Coliform Contamination in KS River Basins: Source, Monitoring, Development, Demo of BMPs		207

526756	Long-Term Ecological Research in	526784	Detection of Genes Encoding UV	507001	Grant
	Tallgrass Prairie: The Konza Prairie	526787	Repair Enzymes in Cryptosporidium Kansas NIH COBRE Center for	537661	Radio Community Service Grant FY2001
526756	Long-Term Ecological Research In Tallgrass Prairie: Konza LTER	527290	Cancer Experimental Therapeutics AstraZenica Materials Transfer	Comm	unity Health
	Program		Agreement	536118	National Network for Health (was
526757	Salicyclic Acid Signaling Pathway and its Cross Talk with Jasmonic	527297	A Kirkwood-Buff Approach to Improved Cosolvent Force Fields	330110	National Decisions for Health
	Acid and Ethylene Signaling in Plant Defense	527297	A Kirkwood-Buff Approach to Improved Cosolvent Force Fields	536140	Network) Cooperative Agreement between KS
526758	Belowground Carbon And Nutrient Dynamics In Arctic Tundra Under	529040	Lens Membrane in Relation to Human Cataractogenesis		Dept of Health / Environment and CES, KSU WIC Mailings
526759	Changing Climates Role of Tetraspans in Regulating Cell	529049	Lens Membrane in Relation to Human Cataractogenesis (Year 19)	536207	Cooperative Agreement Between KS Dept Of Education And CES, KSU
526760	Adhesion and Migration Use of Remote Sensing and GIS to	529391	Functional Analysis of Anti-Apoptotic IAP Proteins	536207	Cooperative Agreement Between KS Dept of Education and CES, KSU
020100	Monitor and Model Bison Grazing Patterns at Landscape Levels	529391	Functional Analysis of Antiapoptotic IAP Proteins	536418	Opportunities for Prevention Education and Networking in Kansas
526761	Quality and Quantity of Suspended	529402	dsRNAs of Cryptosporidium Parvum		(Open-K) *(was Offender Prevention
	Material in Kansas Rivers: Demon-	536513	Outdoor Wildlife Learning Site (Owls)		and Education Network of Kansas
	strating the Influence of Best Management Practices - Part 2	536514	Outdoor Wildlife Learning Site (Owls)	536421	(Open-K)* Rural Network Development Grant
526762	Curriculum Integration Using Case- Based Computer-Assisted Instruction	Civil E	ngineering	536440	Program Offender Prevention & Education
526763	Apoptosis as an Anti-Viral Defense Mechanism in Insects	527951	Lagoon Water Quality Study, Part 4	536502	Network of KS (Open-K Connectivity) Army Adolescent Growth &
526764	Reactive Nanoparticles as Destructive Adsorbents		al Sciences		Development Training for State Strengthening
526765	Acquisition of Five Controlled Environment Chambers for Plant	528785	Determination Of Pulmonary Inflammation & Function After Admin Of Inhaled Beclomethasone &	536736	Technical Support for the KHF Community-Based Developmental
	Research		Injectable Dexamethasone In Horses	F00700	Assets Project In Abilene
526766 526767	EPA Fellowship Grant Assessing Impact of Exposure of	Clathi	•	536738	Technical Support for the KHF Community-Based Developmental
	Periphyton to Linear Alkylbenzene		ng, Textiles	536739	Assets Project in Abilene - Year 2 Technical Support for the KHF
	Sulfonate with Microscale Sensors at the Procter & Gamble Expt. Stream	528012	Soybean Alkyd Resins in Pigment Printing of Textiles and Materials	530739	Community-Based Developmental Assets Project in Abilene - Year 3
F00700	Facility	528013	Research on Kenaf	536743	Rural Stroke Prevention - Agreement
526768	Restoration of Native Grasslands and LCTA	536139	Kansas Public Health and Environ- mental Information Library (KPHEIL)	0007 10	between the United Methodist Health Ministry Fund and KSU,CES
526769 526770	Optimizing Recovery of Cyclospora H2 - Receptor and Tetraspans as		 Cooperative Agreement between KS Dept of Health and Environment and CES, KSU 	536754	Agreement between KDHE & KSU, CES Rural Stroke Prevention
526771	Novel Cancer Therapy Targets Ecosystems in Transition: Causes and Consequences of Dramatic	536775	Income for Cooperative Agreement Between KS Dept of Health &	536769	Cooperative Agreement Between the Regional Prevention Center and CES, KSU
526773	Shifts Systematics and Geographic Relations of Phlox L.	536804	Environment and CES, KSU Healthy Homes - Kansas	536770	Cooperative Agreement between KDHE and CES, KSU - Immunization
	(Polemoniaceae)	Comm	unications		Mailings
526774	Niche Separation Among Ectomycorrhizal Fungi - FEDERAL \$	536722	Bugs in Kansas Book	536773	KS Health Foundation Distinguished Professorship in Community Health
526775	Niche Separation Among Ectomycorrhizal Fungi - STATE \$	536776 536795	Impact Evaluation Plan Kansas Public Broadcasters Council	536779 536802	Connect Kansas Agreement Between KDHE and CES
526778	SUBCONTRACTS FOR The	536795	Service And Incentive Program Fy01 Evaluation Of Tox-Guard As A Mold	536803	KSU (Rural Stroke Prevention) Team Nutrition Demonstration
E26700	Influence of Gravity as a Determinant in Cellular Biology		Inhibitor In High-Molasses Textured Feeds	536828	Project Schools Healthy Places, Healthy Communi-
526780	"Schoolyard" - Long-Term Ecological Research in Tallgrass Prairie: The	536857	Wheat Commission / Biotechnology Communication	536831	ties Ogden Youth Center and CES, KSU
526781	Konza Prairie LTER Program Long-Term Postdoctoral Fellowship:	536868	Kansas Library Network Board FY2001 Digitization Grant Kansas	536837	Cooperative Agreement CYFERNet Technology
	Elucidation of Animal Diversity by Comparing Drosophila and Tribolium		Climate Collection	536837	CYFERNet Technology
	Wing Development	537660	FY 2000 Radio Community Service	536858	Evaluation of the Kansas Departmen

	of Health and Environment Community Health Intervention		in Scott Co, KS Related to Agricul-		Mitigation of Greenhouse Gases
	Process	528414	tural Chemical Exposure? Studies of the Safety of Fiber Ab		(CASMGS)
0	Entancian	528415	Product in Household Pets Production of Full-Length Nucleopro-	Entom	ology
Coop 536358	Extension Haskell Extension Program for	520415	tein for PRRSV Antibody Elisa (KSU Elisa)	520342	Insecticide Management of Field Crop Insects at Hays, Kansas
536794	American Indian Youth Penalty Mail Extension Mailing	528416 528417	Fabric Refresher #2 Mouse Model to Assess Anthelmintic	522362	Development of a Corn Rootworm Areawide Management Program in
536794	(Special Account) Penalty Mail Extension Mailing (Prop #11867) / ** Formula Funds**		Efficacy/Resistancy against Migrating Larvae of Toxocara Canis in	522370	Kansas Molecular Basis of Wing Polymor- phism in the Pea Aphid
Dean a	& Director	528418	Greyhounds Role of Glycoproteins gE and gl in BHV-1 and BHV-5 Differential	522373	Second Generation European Corn Borer/Southwestern Corn Borer
525077	Research Activities (Research		Neuropathogenesis		Research
536004	Apprenticeship H.S. Studies) Secretarial Support - Huck Boyd	528419	Suppression of Heat in Racing Female Greyhounds	522374	Second Generation European Corn Borer/Southwestern Corn Borer
000001	National Institute For Rural Development	528420	Evaluation of the Immunogenicity and Protective Effects of Recombinant	522380	Research Control of Residue-Borne Winter
536478	Work-Study Student Hourly Support Huck-Boyd Nat'L Institute for Rural	500,404	Leukotoxin Proteins of Fusobacterium Necrophorum in Mice	522389	Wheat Diseases Exchange of Aegilops Germplasm & Molecular Biochemical Techniques
_	Development	528421 528422	Development of an Effective Vaccine for Canine Rotavirus. Pseudorabies Laboratory Testing		for Enhanced Aphid Resistance in Wheat
Dean 6 535009	of Human Ecology Inter-Institutional Masters Degree	528423	Wheat Bran Lectin: A Safe, Food- Grade Mucosal Adjuvant	522392	Alfalfa Weevil Insecticide Efficacy Research
	and Postbaccalaureate Certificate in Family Financial Planning: Extending	528423	Wheat Bran Lectin: A Safe, Food- Grade Mucosal Adjuvant	522392	Alfalfa Weevil Insecticide Efficacy Research
	the Reach and Improving Accessibility	528423	Wheat Bran Lectin: A Safe, Food- Grade Mucosal Adjuvant	522393	Bactrocera dorsalis Complex: Species Boundaries and Diagnostic
536793 536810	Kansas Public Broadcasters Council Service and Incentive	528423	Wheat Bran Lectin: A Safe, Food- Grade Mucosal Adjuvant	522394	Markers Species Boundaries in the Wood Roach, Cryptocercus
536815	Food Stamp Awareness and Access Campaign Kansas Food Stamp Nutrition	528425	Development of a Canine Model of E coli Induced Hemorrhagic Colitis and	522395	Monitoring Insect Population Dynamics and Movement Using
536816	Education Plan - KNN Kansas Food Stamp Nutrition	500775	Hemolytic Uremic Syndrome: Phase II (previous # = 528403)	522396	Molecular Markers Tougaloo College Project
0000.0	Education Plan - FNP	528775 530116	A Safety Study of Glade Carpet Deodorizer in Cats and Dogs Pseudorabies Laboratory Testing	522402	Heliothis Virescens: Model to Study Mating-Induced Allatropism in
Diagno	ostic Med./Pathobiology	530550	Suppression of Heat in Racing		Lepidoptera
521791	Virginimycin Effects on Rumen Metabolism in Cattle During	536295	Female Greyhounds Kansas Water Resources Adult	522405	Alfalfa Weevil Efficacy and Spray/No Spray BT Corn Trial
	Adaptation to a High Concentrate Diet	536295	Education Curriculum Integration using Case-	522406	Factors Influencing Flight & Dispersa of Lesser Grain Borer Adults
521810	Riparian Buffer Initiative for the Kansas Potawatomie Reservation		Based Computer-Assisted Instruction	522407	Facilitate Multiple Pest Resistant Wheat Germplasm Research Monoclonal-Antibody-Based
521836	Effect of Monensin on Frothy Bloat in Cattle Fed Bloat-Provocative, High-	Directo	or of AES Development and Management of	522410 522412	Identification Kit for Cotesia Flavipes Survival of Resistant European
528396	Grain Diet Why Do Current Vaccines Fail to	525081	Canola in the Great Plains Region Development and Management of	522413	Cornborer on Transgenic Corn Lines Wheat and Sorghum Crop Profiles
500404	Reliably Prevent Kennel Cough in Racing Greyhounds	525083	Canola in the Great Plains Region Internet Publishing of Selected Full-	522414	Kansas Pesticide Impact Assessmen Program
528401	BHV-1 and BHV-5 Neuropathogenesis Studies Enhancing Greyhound Immune		Text Translations from Chinese Literature Pertaining to the Soybean	522417	Integrated Crop Management: Spide Mites on Greenhouse-Grown Ivy
528409	Function and Reproductive Efficiency: Breeding for Optimal	525085	Aphid Consortium for Agricultural Soils Mitigation of Greenhouse Gases	522418	Geraniums Establishment and Enhancement of the Prairie Arthropod Collection from
528410	Histocompatibility Genotypes Safety Studies in Dogs and Cats of a Fabric Refresher	525086	(CASMGS) Consortium for Agricultural Soils		the Konza LTER Site at Kansas State University
528413	Is Neoplastic and Neurologic Disease			522419	Evaluating the Effects of Pesticide

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	Mixtures on Aquatic Organisms		ment of Stored Product Insect Pests		Combining E-Coli 0157:H7 Control
522420	Evaluating the Effects of Pesticide	522444	Research Support Agreement #58-		Programs and Feedlot Performance
	Mixtures on Aquatic Organisms		5430-7-507 / T.O. #T15430206		
522422	Acquisition of a Low-Vacuum	522445	Using Crop Insurance to Improve	Food/I	Feed Grain Inst.
	Scanning Electron Microscope for Bio Biological, Physical	522447	Transgenic Corn Refuge Compliance Control of Residue-Borne Winter	525211	Feeds Post Harvest Handling/
522423	USDA/ARS Research Support	522447	Wheat Diseases		Uganda
322 4 23	Agreement	522448	Consortium for Cereal Resistance to	525219	Grain Storage and Management
522424	USDA/ARS Research Support	0==::0	Pests		Project for Hot and Tropical
	Agreement	522449	Determine Physiological Effects of	525221	Environments Informal Employment & Sustainable
522425	Investigation of Adult Male Gypsy		Insect Growth Regulators for Major	323221	Livelihoods
	Moth Dispersal Behavior		Pest Species	525222	White Wheat Commercialization in
522426	Milkweed Survey	522451	Product Transfer and Evaluation		Export Markets
522427	Wildlife Flea Infestation Correlated to Selected Urban Ecological Factors	522452	Agreement Product Transfer and Evaluation	536697	Training Program For Paul Mwebaze
	Graduate Fellowship	322432	Agreement		
522428	Revision of Nearctic Metaphycus,	522453	Efficacy of Lead Transgenic Corn	Foods	& Nutrition
	with a Phylogenetic Analysis of		Rootworm Event Against Western	528148	Zinc Deficiency - It'S Effect on
	Aphycini		and Northern Corn Rootworm		Vitamin A Transport
522429	Phylogenetics of Termites	522455	Efficacy of New Lepidoptera and	528152	Consumer Perception of Products
522430	Efficacy of Lead Transgenic Corn		Coleoptera Active Transgenic Bt		Over Extended Use
	Rootworm Events against Western		Corn Lines Against Several Corn	528157	Role of Carnitine in Fatty Acid
522431	and Northern Corn Rootworm Efficacy of Lepidopteran Active	522456	Pests Kansas Pesticide Usage Survey and	528158	Metabolism
322431	Genes Against Stalk and Ear	322430	Crop Profile Development	320130	Role of Carnitine in Fatty Acid Metabolism
	Feeding Insect Pests and Mycotoxin	522456	Kansas Pesticide Usage Survey and	528162	Product Methods Testing
	Occurrence		Crop Profile Development	528163	Odor of Plastics
522432	Efficacy of Lead Transgenic Corn	522456	Kansas Pesticide Usage Survey and	528164	Evaluation of Product Characteristics
	Rootworm (CRW) Events Against		Crop Profile Development	528165	Evaluation of Products
	Western and Northern CRW	522456	Kansas Pesticide Usage Survey and	528166	Effect of Bovine Plasma IgG Fraction
E22422	(Sw Kansas) Provide Specimens Properly	F004F7	Crop Profile Development A Plant Genomics Research and		(BPI) on the Lymphatic Absorption of
522433	Identified to Species of Key	522457	Training Career Advancement	=0040=	Cholesterol in a Rat Model
	Members of the Bactrocera Dorsalis		Program	528167	Elder's Use of Portion-Size Aids
	Group for DNA Analysis	522458	Dow Research Project	528168	Role of Vitamin A in Lung Epithelial Cell Repair
522434	Spinosad and Transgenic Corn for	522459	Gall Mite Research Project	528170	Sensory Evaluation of Pet Foods
	Controlling Corn Borers	522461	Biological Control of Stored Product	528171	Effects of Modified Tall Oil on Body
522435	Efficacy of Lepidopteran Active		Insects Pests		Composition in Rats when Fed in
	Genes against Stalk and Ear Feeding	522469	Insecticide Efficacy and Pest		Conjunction with other Nutritional
	Insect Pest and Mycotoxin Occur- rence		Population Monitoring / Damage-loss		Supplements
522436	Evaluation of Transgenic Corn for	530929	Assessments Support for Research on Cat Fleas	528172	Visual Properties of Food
022 100	Corn Rootworm Pest Management	536340	Pesticide Applicator Training -	528173	Sensory Analysis Assistance
522437	Breeding Sorghum with Improved	000040	Salaries	528174	Synthesis & Biological Evaluation of Cholesteryl Ester Transfer Protein
	Grain Yield, Greenbug and Virus	536730	Integrated Crop Management: Spider		Inhibitors: Chloropuupehenone and
	Resistance, and Pre-Flowering		Mites on Greenbug-Grown Ivy		its Analogs
500400	Drought Tolerance		Geraniums	528175	Sensory Information Assistance
522438	Investigations on the Soybean Stem Borer in Kansas	536767	Management of North Central Region	528175	Sensory Information Assistance
522439	Biology and Management of Corn		Pesticide Impact Assessment	528176	Sensory Quality Evaluation
322 1 33	Borers in Kansas		Program - Soybean, Beef & Corn	528177	Refrigeration Knowledge and
522440	Efficacy of Lepidopteran Active	Food (Nucleus III a a láb		Practices of Consumers
	Genes Against Stalk and Ear		Animal Health	528178	Consumer Testing Assistance
	Feeding Insect Pests and Mycotoxin	528792	Ecology of E-Coli 0157:H7 in Beef	536333	Family Nutrition Program / Food
	Occurrence		Cow-Calf Operations from Ranch thru Feedlots	536477	Stamp Nutrition Education Plan CATCHUP Collaboration - Nutrition
522441	Diagnostic Molecular Genetic	529702		536488	Family Nutrition Program / Food
	Markers to Detect Multi-Gene	528793	Ecological Distribution of E. coli O157:H7 Strains in Agricultural	000700	Stamp Nutrition Education Plan
522442	Greenbug Resistance in Wheat Restoration of Native Grasslands and		Environments	536747	KS Family Nutrition Program - Food
JZZ44Z	LCTA	528794	Epidemiological Aspects of		Stamp Nutrition Education Plan
522443	Consortium for Integrated Manage-			536747	KS Food Stamp Nutrition Education
-	- J				Plan (KNN)
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536759	USDA/Army School-Age & Teen	523049	Evaluation of On-Line Moisture	523078	IGP / Marketing Wheat - Mexico
	Project, Task I		Sensors in an Extrusion Process Line	523079	Optimizing Hard White Wheat Yield
536834	Match for Food Stamp Nutrition	523051	USDA/ARS Research Support		and Processing Performance in
	Education Plan		Agreement		Kansas
536835	Improving Food Stamp Program Use Among Rural Older Adults: A	523052	USDA/ARS Research Support Agreement	523080	Development of Prediction Models for Wheat Quality Parameters
	Partnership for Research and Results	523053	Evaluation of On-Line Moisture Sensors in an Extrusion Process Line	523081	Quality of Sulfuryl Fluoride (Profume) Treated Wheat
Grain S	ciences	523054	Development and Evaluation of	523082	Market Scale Evaluation of White
522945	Quality Evaluation of Materials from		Ultrasonic Devices for Management		Winter Wheat in Flour Tortilla
	KAES Wheat Breeding		of Stored Product Moths and other Arthropods		Manufacturing (sub with Univ of Sonora involved)
522986	Partial-Waxy Starch Mutants of Hard Wheats & Their Use in Oriental	523055	Sorghum Grain Storage and Handling Activity	523082	Market Scale Evaluation of White Winter Wheat in Flour Tortilla
=00000	Noodle	523056	The Laidig Wheat Millfeeds Test		Manufacturing
522990	Grain Quality Oriented Marketing of Hard Winter Wheat		Project	523082	Market Scale Evaluation of White
523006	Use of SKCS Data for Commercial	523057	The Impact of Storage on Wheat		Winter Wheat in Flour Tortilla
323000	Milling of Soft Red Winter, Soft White		Milling Performance		Manufacturing
	& Hard Red Spring Wheat	523058	Marine Degradable and Edible Gun	523082	Market Scale Evaluation of White
523007	Development of a Stored Wheat		Plug (Phase 1 Option)		Winter Wheat in Flour Tortilla
	Areawide Management Program in	523060	US Army Adhesive Project		Manufacturing (sub with Univ of Sonora involved)
	Kansas	523061	Evaluation of Tox-Guard as a Mold Inhibitor in High-Molasses Textured	523083	Pre-Harvest Prediction of Wheat
523011	International Grains Program		Feeds	323003	End-Use Quality
	Advisory Board	523061	Evaluation Of Tox-Guard As A Mold	523084	Materials Release Agreement
523014	Quality of Hard Winter Wheat for	020001	Inhibitor In High-Molasses Textured	523085	Bakery Oven Humidity Measurement
=00040	Bread, Tortillas and Asian Noodles		Feeds		& Control (Match)
523016	Texture Characterization of Crunchy	523062	Chemical/Physical Modification of	523086	Wheat Marketing - Mexico
523019	Foods During Chewing Objective Characterization of Texture		Gluten Protein and Characterization	523087	Bakery Oven Humidity Measurement
323013	Properties of Crunchy During	523063	Research Support Agreement #58-		& Control
	Chewing		5430-7-507 / T.O. #T15430204	523088	A Continuation of Development of a
523021	Gluten Proteins that Improve Bread	523064	Research Support Agreement #58- 430-7-507 / T.O. #T15430205		Stored Wheat Areawide Management Program in Kansas
F00000	Quality	523065	Wheat Screening for Natural	523090	Analysis of Superoxide Dismutase
523022	Novel Sorghum Composite Flours Designed for Breadmaking		Desirable Lipids	523103	Grain Facility System Analysis to
523029	International Grains Program	523066	Spinosad: an Effective Alternative to		Improve Adoption of Value-Enhanced
020020	Advisory Board		Pesticides for Management of		Grain Handling and Marketing in the
523031	International Grains Program	=0000=	Stored-Wheat Insects	505470	US
	Advisory Board	523067	Quality Evaluation from KAES Wheat	535173	Bakery Science and Management Professorship
523036	Pellet Mash Conditioning: a Study to	523068	Breeding Programs International Grains Program Support	536232	Graduate Seminar Program
	Better Understand the Process	323000	Project	536675	Market Development Grant -
523037	Characterization of Modified Gluten	523069	Biodegradable Plastics from Wheat	000070	International Grains Program Grain
E00000	Protein		Starch and Polylactic Acid		Storage, Handling, and Sanitation
523038	Fellowship for the Management of Stored-Product Insects with Heat in	523070	Tortilla Shelf Life Improvement		Specialist
	Food-Processing Facilities	523071	Protein/Hardness Screening of Early	536696	Market Development Grant -
523039	Degradable Adhesive Performance of		Progeny Wheats		International Grains Program Grain
020000	Modified Proteins for Navy Applica-	523072	Edible/Biodegradable Composites for		Storage, Handling and Sanitation Specialist
	tions	500070	Animal Feed Supplement Containers	536783	White Wheat Commercialization
523041	Chemical/Physical Modification of	523073	Optimizing Hard White Wheat Yield and Processing Performance in	536807	White Wheat Commercialization
	Gluten Protein and Characterization		Kansas	000001	Willia Wilout Colliniorolanization
523044	Genetic and Environment Effects of	523074	Heat Sterilization for Insect	Hort/E	orestry
	Wheat Protein Quality During Grain	02007 1	Management in Food-Handling	1	_
E0004E	Development		Establishments	520516	Integrated Crop Management: Spider Mites on Greenhouse-Grown Ivy
523045	Extrusion Process for Pregelatinizing Modified Wheat Starch	523075	Pelleting Characteristics of		Geraniums
523046	Development and Evaluation of Pest		Cottonseed Meal in Corn-Soy Based	523860	Pecan Cultivar Evaluation
J2JU 1 U	Management Programs at Retail		Rations	523870	The Evaluation and/or Assessment
	Grocery Stores	523076	Pasta Ingredient Study		for Turfgrass
523048	Evaluation of On-Line Moisture	523077	Consortium for Integrated Manage-	523873	The Evaluation and/or Assessment
	Sensors in an Extrusion Process Line		ment of Stored Product Insect Pests		for Turfgrass (Greens Test)
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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	525449	FY2001 Kansas Water Resources Research Institute - Program Administration / Management
524065	National Turfgrass Evaluation		and Strawberry		Description
	Program (National Bermudagrass	536121	Missouri Pecan Growers	525452	FY2001 KS Water Res. Res. Inst
	Test Bg-97-08)	536356	Environmental Quality Incentives		A Field Assessment of Direct-Push
524066	The Importance of Carbon Balance &		Program		Technology for Site Characterization
	Root Activity in Creeping Bentgrass	536485	Riparian Buffer Initiative for the	536792	Implementing TMDL's in KS:
	Tolerance to Summer Stresses		Kansas Potawatomie Reservation		Abatement of Non-Point Sources of
524067	Biology & Management of Spring	536693	Fullbright/Laspau Fellowship For		Fecal Coliform Bacteria
	Dead Spot In Bermudagrass		Boris Sanjur	536797	National Needs Fellowship -
524069	Use of Pre-Charged Zeolites to	536745	Benefits and Design of Kansas		Management & Marketing
	Provide Aluminum for Blue Sepal		Riparian Forest Buffers		Agribusiness Food & Forest Products
	Coloration During Hydrangea	536780	Riparian Buffer Education to Improve	536798	Watershed Specialist Initiative
E24070	Production		Surface Water Quality in the Blue	536801	Planning Workshop for the Leader-
524070 524071	Turfgrass Testing Evaluation of Ornamental Species for	500704	River of Nebraska and Kansas		ship Team of the Animal Waste Initiative
324071	the Great Plains	536781	Water Quality Improvement of Vegetated Riparian Areas and	536819	Abatement of Fecal Coliform Bacteria
524073	Visitor Satisfactions of Fee-Based		Buffers	330019	- Part 1
324073	Interpretation in the Us Forest		Dullets	536821	Waste Management Water Quality
	Service: Evaluation	Hatal	Doot Inot/Manut	330021	Protection Learning Center
524074	Integrated Crop Management: Spider	Hotel,	Rest. Inst/ Mgmt.	536848	Implementing TMDL's in Kansas:
00	Mites on Greenhouse-Grown Ivy	536683	Interdisciplinary Modules to Teach	000010	Abatement of Nonpoint Sources of
	Geraniums		Waste/Residue Management in the		Fecal Coliform Bacteria
524075	Relationship between Tissue		Food Chain		
	Nitrogen & Phosphorus Concentra-		_	North	east Area Extension
	tions of Impatiens & Thrips	KWRR			
	Infestation & Damage on Impatiens	525360	Integrated Ag Management Systems	536110	Kansas Agriculture and Rural
524076	Floriculture Research		(IAMS) Using BMPs to Improve the	E26020	Leadership, Inc.
524077	Relationship between Tissue		Quality of Kansas Surface Waters	536839	Agricultural, Food, and Public Policy Preference Survey
	Nitrogen & Phosphorus Concentra-	525365	Midwest Technology Assistance		Freierence Survey
	tions of Impatiens & Thrips		Center for Small Public Water	Manth	west Dee Eyt Conter
F04070	Infestation & Damage on Impatiens		Systems	1	west Res. Ext. Center
524078	Noxious Weed Pesticide Reduction	525366	The Livestock Environmental	525761	Other Multi Accounts Crop Perfor-
	Study/Support of Developing Best Management Practices (BMPs) for	505007	Stewardship Initiative		mance
	Land Management Systems at Ft	525367	Integrated Ag. Mgmt. Systems	525772	Water ConservationIncreased
	Riley		(IAMS) Using BMP's to Improve the Quality of Kansas Surface Water	505774	Efficiency in Usage
524079	Converting Transition Zone Fairways	525437	FY 1999 State Water Research	525774	Optimal Planting Strategies for
00.0	from Perennial Ryegrass to Kentucky	323 4 37	Institute Program		Irrigated Corn Production with Limited Well Capacities
	Bluegrass or Seeded Zoysiagrass	525438	FY 1999 State Water Research	525775	Planting Dates and Maturity Group
524080	Effects of Bacterium (Azospirillium	020400	Institute Program	323113	Effects on Soybean Production in
	Brasilense) and Vesicular Arbuscular	525439	FY 1999 State Water Research		Kansas
	Mychorrhizae (Glomus Intraradicies)		Institute Internship- Fort Hays State	525777	Water & Sediment Control Basin &
	on Cool-Season Turfgrass		University and Wichita State		Underground Outlet Construction
524081	A Pilot Project for the Testing and		University		Project
	Assessment of Participatory Farm	525440	FY2000 Kansas Water Resources	525778	Strategies for the Management of the
E0.4000	Monitoring to Achieve TMDL Goals		Research Institute		Sunflower Stem Weevil
524082	A Pilot Project for the Testing and Assessment of Participatory Farm	525441	FY2000 Kansas Water Resources	525779	Quantifying Heat and Water Stress
	Monitoring to Achieve TMDL Goals		Research Institute		Impacts on Yield and Water Use for
524083	Bioeconomic Assessment of	525442	Marine Degradable And Edible Gun		Oilseed Sunflower Crops
324003	Biologically Based Pest Management		Plug		
	on Ivy Geranium	525444	Integrated Ag. Management Systems	Plant	Pathology
524084	Converting Transition Zone Fairways		(IAMS) Using BMP's to Improve the	524475	Non-Conventional Plant Improvement
0 <u>-</u> 100⊤	From Perennial Ryegrass To		Quality of		Technology
	Kentucky Bluegrass Or Seeded	EDE 4.45	Kansas Surface Water	524478	Fusarium Research
	Zoysiagrass	525445	Green Topeka: Tree-Based Buffer Planning in the Shunganunga Creek	524565	Nematode and Soybean Research
524085	Minimum Irrigation Requirements for		Watershed	524597	Agroecology & Biotechnology of
	Sod Production in Transition Zone	525446	Integrated Ag Mgmt Systems (IAMS)		Fungal Pathogens of Sorghum and
524086	KSU Gardens	0_0170	Using BMP's to Improve the Quality		Millet from the Greater Horns of
524087	KSU Gardens Tourist Brochure		of Kansas Surface Water		Africa

524599	Editor Position for Applied &	524651	Functional and Comparative	524673	Functional Genomics of the
524601	Environmental Microbiology Genetic Diversity in Cephalosporium Maudic and Other Stalk Potting Fundi	524652	Genomics of NBS-LRR Encoding Genes Microsofellite Marker Development		Interactions of Tomato and Pseudomonas Syringe pv Tomato DC3000
504007	Maydis and Other Stalk Rotting Fungi of Maize in Egypt	524652	Microsatellite Marker Development and Construction of a Microsatellite	524674	Letter of Understanding
524607	Predicting Durability of Disease Resistance Based on Analysis of	524652	Size Database Microsatellite Marker Development	524675	Effects of Environmental Variation on Plant Disease in the Tallgrass Prairie
524608	Cost of Pathogen Adaptation Control of Residue- Borne Winter	504050	And Construction Of A Microsatellite Size Database	524678	Molecular Characterization of Novel Rp1 Genes
524609	Wheat Diseases Analyses of Roles of Viral & Host	524653 524654	Development of Scab Resistant Wheat Cultivars for Kansas	524683	(Microarray Scanner and) Phosphoimager as Capital Improvements for Plant Genomic Infrastruc-
524614	Proteins in Virus Movement in Planta Molecular Characterization of Novel	524655	Improvement of Soybean Disease Resistance via Genetic Engineering Over-Expression of Antifungal	524683	ture
524615	Rpl Alleles Biology & Management of Spring Dead Spot in Bermudagrass	524656	Proteins in Transgenic Soybean Improving Soybean Profitability	024003	(Microarray Scanner and) Phosphoimager as Capital Improvements for Plant Genomic Infrastruc-
524620	Determine the Survivability of Micro- and Macro-Conidia of Claviceps	524657	Through Breeding Integrated Management of the	524683	ture Microarray Scanner and
524621	Africiana Transcription Activation By Avrxa10	324037	Soybean Cyst Nematode and Charcoal Rot	324003	Phosphoimager as Capital Improvements for Plants Genomic Infrastruc-
324021	and Avrxa7 In Resistance and Pathogenicity	524658	Application of Resistance and Defense Related Genes to Increase	524683	ture Microarray Scanner and
524625	Collaborative Crop Research Program, (USA-KSU)		Durability of Rice Development (RDA) of the Republic of Korea	021000	Phosphoimager as Capital Improvements for Plants Genomic Infrastruc-
524626	Collaborative Crop Research Program, (China)	524659	Development of Scab Resistant Winter Wheat Cultivars for Kansas	524684	ture Can We Debilitate the Wheat Scab
524627	Using Tomato R Gene Pto to Promote Rce-Nonspecific Resistance	524660	Facilitate Multiple Stress Resistant Wheat and Alfalfa Germplasm	524685	Fungus with a Virus? Diversity of North & South American
524630	Signal Transduction In Tomato Disease Resistance	524660	Facilitate Multiple Stress Resistant Wheat and Alfalfa Germplasm		and Korean Populations of Gibberella Zeae
524631	International Scholarship Fund - Narvaez-Corrales	524661	Nonhost Resistance Mechanisms In Arabidopsis	524686	Fellowship Agreement - Perenniality, Cytogenetics, and Disease
524635	Genetics of the Breeding Systems and Sexual Fertility in the Rice Blast	524662	Characterization of the Pathogenic- ity Protein AvrXa7		Resistance of Thinopyrum spp. X Triticum aestivum Hybrids and the
524637	Fungus Rice Deletion Mutants for Dissection of Quantitative Resistance	524663	Roles of Pathogen-Inducible EREBP-like Sequences in Disease Resistance	536061	Genetic Heterogeneity Effects of Disease Epidemiology Training in Molecular Basis of Plant
524638	Maize Resistance Genes Expressed in Transgenic Cereals	524664	Utilization of Candidate Genes for Analyzing Disease Resistance and		Disease and Resistance at Kansas State University
524640	Wheat Genetics Research Center at KSU		Improving Broadspectrum Disease Resistance in Rice	536601	Food & Agricultural Sciences Nat'L Needs Graduate Fellowship Grants
524640	Wheat Genetics Resource Center at Kansas State University	524665	Isolation of Maize Genes Control- ling Defense Reactions to		Program (Plant Biotechnology)
524642	Transgenic Wheat Expressing Maize Rp1 Genes	524666	Pathogens of Cereals Research Support Agreement #58-	Product 536220	ction Mgmt & Nat. Res. KS Ag Mediation Service (KAMS)
524642	Transgenic Wheat Expressing Maize Rp1 Genes	524667	5430-7-507 T.O. #T15430202 Wheat Genetics Resource Center	536220	(Federal \$) MOU between KS Ag Mediation Service (KAES) and KS
524643	Great Plains Cereals Biotechnology Consortium		and Its Contribution to the Kansas Wheat Industry		Natural Resources Conservation Service (NRCS)
524646	Great Plains Cereals Biotechnology Consortium (GPCBC)	524668	Transgenic Wheat Expressing Maize Rp1 Genes	536221	(Producers \$) MOU Between KS Agric. Mediation Service (KAES) &
524647	USDA/ARS Research Support Agreement T.O. #5430202	524669	Molecular Analysis of Pto-Avr Recognition Specificity		KS Natural Resources Conservation Service (NRCS)
524649	The Structure and Function of the Expressed Portion of the Wheat	524670	Control of Corn Rootworm Using Genetically Engineered Corn	536231 536330	Kansas Rural Development Council Site-Specific No-Till Information
524650	Genomes Compounds Useful to Affect	524671	Control of Residue-Borne Winter Wheat Diseases	536349	MOU between KS Ag Mediation Service (KAES) & KS Farm Service
	Resistance in Plants and Methods Related Thereto. Genetic Se-	524672	Assessment of the Insular Organization of the Wheat D Genome by Physical Mapping	536350	(FSA) (Producers \$) MOU between KS
	quences Conferring Pathogen Resistance		Continue by a mysical mapping		Agricultural Mediation Service (KAES) & KS Farm Service
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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 Develop- ment 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 Develop- ment 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 Develop- ment Program Coordinator
536874	Subcontracts for Environmental Farm Analysis and Planning Training Exercise Designed for Extension and NRCS Personnel

School of Family Studies

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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

	- 377
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 Fo
	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

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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

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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 ConservationIncreased
	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

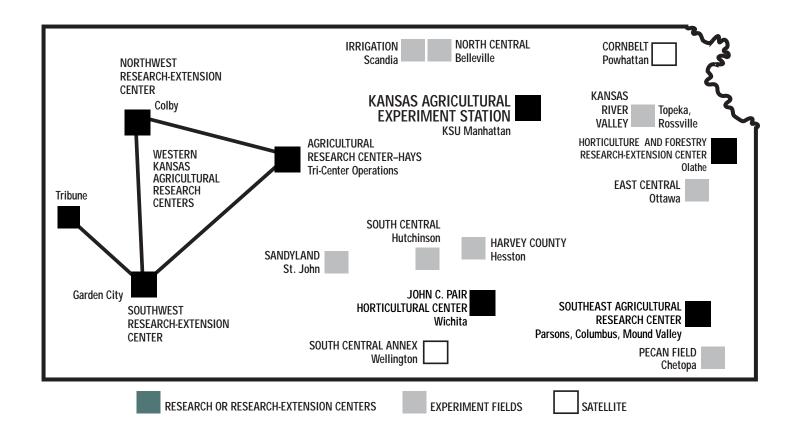
Wheat Research Center

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

FY2001 Kansas Agricultural Experiment Station Income and Disbursement Statement

	5.98%	53.13%	12.92%	27.97%	1	
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

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