

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 biennium ending June 30, 2000. 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 each year of the biennium. The report was published only in electronic format.

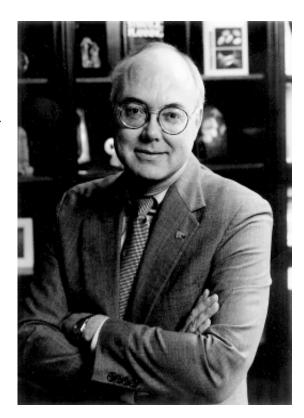
Marc A. Johnson, Director

A Message from the Director

We are pleased to provide this 40th Biennial Report of Agricultural Research in Kansas. This is the first issue of the Director's Biennial Report to be distributed only in electronic format. The biennial report is intended to inform you about our research programs underway and some of our accomplishments for 1999 and 2000. Agriculture continues to be vitally important to Kansans.

Beginning in 2001, we will produce an annual report instead of a biennial report. An annual report will make our information available quicker, electronic distribution will reduce the printing cost and time, and the Internet will make it available to more people.

Detailed information on the accomplishments of our research programs are no longer reported in this document. They are available in the 2000 Annual Report for K-State Research and Extension which is available on our Web site http://



www.oznet.ksu.edu; under Quick Search, insert "2000 Annual Report."

The 40th Biennial Report of Agricultural Research in Kansas and succeeding annual reports will provide a list of departments, centers, and fields. A list of station publications, active K-State Research and Extension projects, commercial grants and contracts, and financial information also are provided.

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 40th Biennial Acrobat version, click on the Find icon in the Acrobat tool bar (binoculars) and put in the surname. Use Find Again until all relevant items are found.

To minimize irrelevant items when searching for common names such as Smith or Martin, turn to the page for the scientists' 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

East Central®

Harvey County●

Irrigation•

Kansas River Valley•

Cornbelt Annex at Powhattan®

North Central®

Pecan Field ■

Sandyland•

South Central

South Central Annex, Wellington•

- Agronomy
- Horticulture

Station Publications

Reports	s of Progress
SRP813	Tillage, Water and Soil Research
SRP814	Field Day 1998. Southwest Research-Extension Center
SRP815	Direct Effect of the System's Insecticide Imidacloprid
	(Gaucho™)on Yield of Grain Sorghum
SRP816	1998 Kansas Performance Tests with Winter Wheat
	Varieties
SRP817	Derived Farm Financial Ratios for Kansas Farms
SRP818	1997 Production and Postharvest Evaluations of Fresh-Cut
	Peonies
SRP819	Swine Day 1998
SRP820	1998 Production and Postharvest Evaluations of Fresh-Cut
	Peonies
SRP821	Dairy Day 1998
SRP822	1998 Kansas Performance Tests with Corn Hybrids
SRP823	1998 Great Plains Canola Research
SRP824	1998 Kansas Performance Tests with Grain Sorghum
	Hybrids
SRP825	1998 Kansas Performance Tests with Soybean Varieties
SRP826	Chemical Weed Control for Field Crops, Pastures,
	Rangeland, and Noncropland, 1999
SRP827	1998 Kansas Performance Tests with Sunflower Hybrids
SRP828	1998 Kansas Performance Tests with Alfalfa Varieties
SRP829	Kansas Fertilizer Research 1998
SRP830	Attitudes of Kansas Agricultural Producers about Riparian
	Areas, Wildlife Conservation, and Endangered Species
SRP831	1999 Cattlemen's Day
SRP832	Kansas Sheep Research 1999
SRP833	Roundup 1999 Agricultural Research CenterHays
SRP834	1999 Agricultural Research Southeast Agricultural
CDDoor	Research Center
SRP835 SRP836	Field Research 1999 Agronomy Experiment Fields
. 000	1999 Turfgrass Research
SRP837	Field Day 1999. Southwest Research-Extension Center
SRP838	Internet Use Among Community Leaders in Rural Kansas
SRP839	1999 Kansas Performance Tests with Winter Wheat Varieties
SRP840	1998 Evaluation of Postharvest Life of Selected Fresh-Cut
3NF040	Flowers
SRP841	Swine Day 1999
SRP842	Dairy Day 1999
SRP843	1999 Kansas Performance Tests with Corn Hybrids
SRP844	1999 Kansas Performance Tests with Grain Sorghum
OINI 044	Hybrids
SRP845	1999 Kansas Performance Tests with Soybean Varieties
SRP846	Chemical Weed Control for Field Crops, Pastures,
0111 0 10	Rangeland, and Noncropland, 2000
SRP847	Kansas Fertilizer Research 1999
SRP848	1999 Kansas Performance Tests with Alfalfa Varieties
SRP849	1999 Kansas Performance Tests with Sunflower Hybrids
SRP850	2000 Cattlemen's Day
00000	

1999 Great Plains Canola Research

SRP851

SRP852	Kansas Sheep Research 2000
SRP853	2000 Agricultural Research 50th Anniversary Southeast Agricultural Research Center
SRP854	Field Research 2000 Agronomy Experiment Fields
SRP855	2000 Turfgrass Research Fiftieth Anniversary
SRP856	Field Day 2000. Southwest Research-Extension Center
Keeping	g Up With Research
SRL121	Field Symptom-Response of Sorghum Hybrids Infected by Maize Dwarf Mosaic Virus, Sugarcane Mosaic Virus Strain MDMV-B, and Johnsongrass Mosaic Virus
SRL122	Protect Streambanks with Trees
SRL123	Inhibition of Wheat by Sorghum Residue Under Several Tillage Systems
SRL124	Preharvest Sprouting of Hard Red and Hard White Wheats in Kansas
SRL125	Evaluation of Winter Durum Wheat for Kansas
SRL126	International Contributions to the Improvement and Marketing of Kansas Wheat
Special	Publications
Agricultural	Research in Kansas: Thirty-Ninth Biennial Report

Suffix Letters

for Contribution Numbers (pages 7-68)

of the Agricultural Experiment Station, 1996-1998

- 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.edw/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.

<u>Publi</u>	Publications of Station Scientists (By Department and Station Contribution Number)			
1. Agricultural Economics		98-352-J	Productive Efficiency and Growth Policies for the Caribbean	
96-72-J	Farmers' Attitudes about On-Farm Research: Kansas Survey Results		P. Lall, A.M. Featherstone, and D.W. Norman Appl. Econ. 32:1483-1493, 2000	
	D. Norman, L. Bloomquist, S. Freyenberger, D. Regehr, B. Schurle, and R.R. Janke J. Nat. Res. Life Sci. Educ. 27:35-4, 1998	98-431-J	Adoption and Environmental Impact of an Improved Bean Variety in Northern Tanzania F.M. Nkonya, P.M. Ndakidemi, C.S. Mushi,	
96-388-B	Farm Management and the Farming Systems Approach D. Norman In: <i>A History of Farming Systems Research</i> , M. Collinson, ed., CABI Publishing, Wallingford, CT, 2000		and D.W. Norman In: <i>Rural Livelihoods, Empowerment and the Environment</i> , Proc. 15 th AFSRE Symp., Vol. 1:224-233, 1998	
96-389-B	The Farming Systems Approach: A Personal Evolution D. Norman In: A History of Farming Systems Research, M. Collinson, ed., CABI Publishing, Wallingford, CT, 2000	98-440-J 98-448-J	Management Implications of Farm Tractor Depreciation Methods T.J. Dumler, R.O. Burton, Jr., and T.L. Kastens J. Am. Soc. Farm Man. and Rural Appr. 63:3-10, 2000 Costs and Benefits of Increasing Access to a Traditional	
96-424-J	Sustainable Agriculture: Reflections of a Few Kansas Practitioners D. Norman, L. Bloomquist, R. Janke, S. Freyenberger, J. Jost, B. Schurle, and H. Kok		Agricultural Economics Course R.O. Burton, Jr. Am. J. Agric. Econ. 80:979-983, 1998	
97-243-J	Am. J. Alt. Agric.15(3):126-133, 2000 Consumer Perceptions of HACCP and the Price of Meat L.T. Ford, K. Penner, and O. Grunewald Dairy, Food and Envir. Sanit. 18(10):735-741, 1998	98-450-J	Profitability of Alternative Production and Tillage Strategies for Dryland Wheat and Grain Sorghum in the Central Great Plains J.R. Williams, T.W. Roth, and M.M. Claassen J. Soil and Water Conserv. 55(1):49-56, 2000	
97-300-J	Risk Analysis of Planting Date, Seeding Rate, and Grain Sorghum Hybrid Maturity in Kansas Using Simulated Yields J.R. Williams, D.R. DeLano, R.V. Llewelyn, R.W. Heiniger, and R.L. Vanderlip J. Prod. Agric. 12(1):78-85, 1999	98-483-J	Capital Structure under Stochastic Interest Rates: An Empirical Investigation of the Midwestern Agricultural Cooperative J.L. Parcell, A.M. Featherstone, and D.G. Barton Agric. Financ. Rev. 58:49-61, 1998	
97-487-J	Replanting Strategies for Grain Sorghum under Risk J.R. Williams, D.R. DeLano, R.V. Llewelyn, R.W. Heiniger, and R.L. Vanderlip Agric. Systems 60:137-155, 1999	98-508-J	Nutrient Economics of Swine Management M.A. Boland, K.A. Foster, and P.V. Preckel J. Agric. and Appl. Econ. 31(1):83-96, 1999	
98-8-J	Profitability of Milk Production Using Improved Stall-Fed Cattle in Semi-Arid Central Tanzania A.R.M. Kaliba, A.M. Featherstone, and D.W. Norman J. Agric. Econ. and Dev. 2:3-12, 1998	98-509-J	Economic Analysis of Phosphorus-Reducing Technologies by Pork Producers M.A. Boland, K.A. Foster, and P.V. Preckel J. Agric. and Res. Econ. 23(2):468-482, 1998	
98-25-J	A Microcomputer Model for Economic Evaluations of Irrigation Systems J.R. Williams, D.R. DeLano, R.V. Llewelyn, and I. Thangavelu	98-510-J	Manure Management Models: Manure Storage and Application Costs M.A. Boland, K.A. Foster, B.C. Joern, D.D. Jones, and P.V. Preckel J. Prod. Agric. 12(2):405-409, 1999	
	J. Nat. Res. and Life Sci. Educ. 27:101-106, 1998	98-511-J	The 21st Century Alliance: The Case of the Dry Edible Bean	

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98-278-J

Cropping Systems

Cooperative

The 21st Century Alliance: The Case of the Dry Edible Bean

M. Boland, S. Daniel, J. Katz, J. Parcell, and I.R. Aristizabal

Rev. Agric. Econ. 20(2):654-665, 1998

99-15-J	Grain Producers' Attitudes to New Forms of Supply Chain Coordination Y. Duval and A. Biere Intl. Food and Agribus. Manag. Rev. 1(2):179-194, 1998	99-303-D	Active Learning Strategies for a Large Class: What Do Students Think of Them? R.O. Burton, Jr., S.A. Flores, and A.B. Gross Agric. Econ. Dept. Rep. (Staff Pap. 99-3), 20 pp., 1999 (available from dept. only)
99-108-S	Derived Farm Financial Ratios for Kansas Farms Kans. Agric. Exp. Stn. Rep. Prog. 817, 42 pp., 1998	99-339-S	1999 Cattlemen's Day R.C. Cochran, M.E. Dikeman, J.S. Drouillard, D.Y.C. Fung,
99-117-J	The European Union-United States Wheat Gluten Policy Dispute B. Balzer and K. Stiegert J. Food Distrib. Res. 30:1-10, 1999 Also published as: Agric. Econ. Dept. Rep. (Res. Rep. 26), 22 pp., 1998 (available from dept. only)		D.M. Grieger, J.D. Hancock, M.C. Hunt, C.L. Kastner, D.H. Kropf, G.L. Kuhl, J.L. Marsden, R.K. Phebus, R.R. Schalles, J.S. Smith, J.S. Stevenson, G. Stokka, E.C. Titgemeyer, J.A. Unruh, M. Langemeier, T.C. Schroeder, B.M. DeBey, T.G. Nagaraja, P.K. Kalita, K.C. Behnke, J. Sargeant, M. Spire, L.W. Lomas J.L. Moyer, E. Chambers IV, J.J. Higgins, and G.A. Milliken Kans. Agric. Expt. Stn. Rep. Prog. 831, 165 pp., 1999
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99-148-D	The College and Career Experiences of Graduates of the College of Agriculture at Kansas State University, 1976-1997		Agric. Econ. Dept. Rep. (Staff Pap. 99-4), 86 pp., 1999 (available from dept. only)
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99-473-A	A Review of Graduate Programs in Agribusiness Management M. Boland, A. Featherstone, and S. Chapman Proc. Intl. Food & Agribus. Management Assoc World Food & Agribus. Forum, Electronic Publ.,1999 http://agecon.tamu.edu/iama/1999_forum_papers.htm	00-32-D 00-61-J	Marketing Issues in Hydroponic Tomatoes D. Coltrain and M. Boland Agric. Econ. Dept. Rep. (Staff Pap. 00-02), 16 pp., 1999 (available from dept. only) Characteristics of Master's Programs in Agribusiness
99-480-A	Do Public Universities Have a Role in Modifying Agricultural Supply Channels? M.A. Boland Proc. The Shape of the Coming Agricultural Biotechnology Transformation: Strategic Investment and Policy	00-64-J	Management M.A. Boland, A.M. Featherstone, and S.J. Chapman Intl. Food and Agribus. Manag. Rev. 2(2):63-82, 1999 Impacts of Clean Indoor-Air Laws and Cigarette Smuggling on Demand for Cigarettes: An Empirical Model
	Approaches from an Economics Perspective, pp. 100-115, 1999		A.A. Yurekli and P. Zhang Health Econ. 9(2):159-170, 2000
99-481-A	Market Hog Values by Carcass Components: Loin, Ham, and BellyValue at Heavier Marketing Weights M.A. Boland Natl. Hog Farmer Feb:26-32, 1999	00-77-J	A Revisit of Agribusiness Education by an Original Critic A.W. Biere Am. J. Agric. Econ. 81(5):1056-1060, 1999
99-489-J	Post-Harvest Grain Storing and Hedging with Efficient Futures T.L. Kastens and K.C. Dhuyvetter J. Agric. and Res. Econ. 24(2):482-505, 1999	00-82-D	Marketing Issues for Natural Beef Products: Opinions of Supermarket Meat Managers and Consumers D. Peterson, M. Boland, and E. Boyle Agric. Econ. Dept. Rep. (Res. Rep. 28), 26 pp., 1999 (available from dept. only)
99-493-A	Pork Producers' Cost Estimates of On-Farm Salmonella Testing D. Mark, M. Boland, and J. Fox Proc. 3 rd Intl. Symp. on the Epidem. and Control of Salmonella in Pork, pp. 219-225, 1999	00-83-D	A Consumer Survey to Identify Marketing Issues for Natural Beef S. Givry, M. Boland, and J. Fox Agric. Econ. Dept. Rep. (Res. Rep. 29), 25 pp., 1999 (available from dept. only)
99-495-D	Staff, Programs, and Publications in Agricultural Economics Kansas State University 1998 D.L. Foster Agric. Econ. Dept. Rep. (Staff Pap. No. 99-7), 47 pp., 1999 (available from dept. only)	00-103-S	Swine Day 1999 R. D. Goodband, J.L. Nelssen, M.D. Tokach, J.A. Unruh, M.A. Boland, J.A. Fox, M. Langemeier, J. Mintert, T.C. Schroeder, B.W. Fenwick, S.S. Dritz, M.F. Spire, and S.I. Koo Kans. Agric. Exp. Stn. Rep. Prog. 841, 173 pp., 1999
99-502-A	Analysis of Manure Management Systems and Phytase Adoption by Pork Producers M.A. Boland, K.A. Foster, D.D. Jones, and P.V. Preckel Proc. 5 th Intl. Livestock Envir. Symp., R.W. Bottcher and S.J. Hoff, eds., pp. 702-709 Amer. Soc. Agric. Eng., St. Joseph, MI, 1997	00-202-J 00-264-A	Wheat Breeder Battles: Hard Red vs. White M.A. Boland, M.A. Johnson, and S. Schumacher Choices 15(2):17-20, 2000 Synthesis of Theme One. Use of participatory Methods in
00-3-J	Prevalence of Selected Unsafe Food-Consumption Practices and Their Associated Factors in Kansas P. Zhang, K. Penner, and J. Johnson J. Food Safety 19(4):289-297, 1999		Agricultural Research D. Norman Proc. Dept. Foreign Intl. Dev. and Nat. Agric. Res. Prog. II End of Project Conf., pp. 17-27, Kenya Agric. Res. Inst., Nairobi, 1999
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	Strategies	536774	Reducing Atrazine Runoff–Delaware	KS328	Enhancing Nutrient Efficiency for
527586	Environmental Stress Impacts on	000771	and Blue Rivers	110020	Western Kansas
	High Oil Corn Yields	536781	Water Quality Improvement of	KS358	A Cost, Benefit, and Risk Analysis of
527713	Monitoring and Modeling Nitrogen	000701	Vegetated Riparian Areas and	110000	Various Soil Improving Practices
0	Management in Conservation Tillage		Buffers	KS374	The Impact of Fertilizers and
	Production Systems	536784	White Wheat Commercialization	1.007	Herbicides on Water Quality
527727	Bioremediation of Saline Seeps	536785	Soybean Production in Kansas:	KS375	Genesis, Classification, and
527733	Water Conservation-Increased	330703	Extension and Applied Research	110070	Mineralogy of Kansas Soils
021100	Efficiency in Usage	536786	Grain Sorghum Production in	KS377	Soil Acidification and Amelioration in
527735	South Central Kansas Irrigation	330700	Kansas: Extension and Applied	10077	Controlled-Traffic Fertilizer Bands
021100	Management Project		Research	KS380	Effect of Application Method, Time,
527739	South Central Kansas Irrigation	536787	Corn Production in Kansas:	1,0000	and Rate of Supplemental Nitrogen
021100	Scheduling and Water Management	330707	Extension and Applied Research		on Irrigated Soybeans
	Project	536796	South Central Kansas Irrigation	KS387	Weed Ecology and Management in
527740	Fecal Coliform Contamination in	330730	Management Project	110007	Crop Ecosystems
021110	Kansas River Basins: Source,	536806	White Wheat Commercialization	KS405	Genetic Investigations of Pest
	Monitoring, Development, Demon-	KS032	Ergot: A New Disease of U.S. Grain	110100	Resistance in Alfalfa
	stration of BMP's	13032	Sorghum	KS411	Field-Scale Fluxes of Carbon, Water,
527770	Technical Assistance to Water Users:	KS143	Forage Crop Genetics and Breeding	1.0411	and Energy from Irrigated Corn (Zea
00	South Central Kansas Irrigation	10143	to Improve Yield and Quality		mays)
	Scheduling and water Management	KS188	Improved Characterization and	KS416	Genetic Engineering of Wheat and
	Project	100	Quantification of Flow and Transport	1.0110	Sorghum for Resistance to Fungi and
527950	Feedlot Water Quality Study		Processes in Soils		Insects
528159	Characterizing Flavors of Sorghum	KS193	Spatial Dynamics of Leafhopper	KS431	Measuring and Modeling Three-
	Cultivars Potentially Useful for Foods	1.0100	Pests and Their Management on		Dimensional Canopy Structure in
529354	Processes Affecting Carbon Fluxes		Alfalfa		Soybeans
	of Grassland Ecosystems under	KS218	Characterizing Nitrogen Mineraliza-	KS442	Reduced Tillage and Crop Rotation
	Elevated Atmospheric CO ₂	1.02.0	tion and Availability in Crop Systems		Systems with Winter Wheat, Grain
535717	On-Farm Wheat Action Research		to Protect Water Resources		Sorghum, Corn, and Soybeans
535731	On-Farm Wheat Action Research: An	KS225	Improved Grazing Systems for Beef	KS449	Improvement of Crop Models for
	Education Program		Cattle Production		Sorghum and Corn Management
536261	Control of Sympathetic Nerve	KS2312	Water Conservation and Manage-	KS456	Physiological Limitations of Wheat
	Responses to Hypothermia		ment in Crop Systems		Yield and Quality
536317	Yesterday's Research for	KS287	Introduction, Maintenance, Evalua-	KS475	Soil Moisture Monitoring in the Black
	Tomorrow's Needs	1.020.	tion, and Utilization of Plant		Vermillion Watershed
536338	Grazing Land Water Quality		Germplasm	KS482	Resistance to Acetolactate Synthase
536364	North Central Sustainable Agriculture	KS302	Improving Forage Quality and		Inhibitor Herbicides in Common
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536365	Kansas Local Government Water		Plains	KS483	Rotation/Tillage Alternatives to
	Quality Planning and Management	KS305	Legumes as a Nitrogen Source in		Continuous Dryland Wheat on Sandy
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536372	Reducing Atrazine RunoffBlue and		Great Plains	KS507	Calibrating and Validating Wheat and
	Delaware Rivers	KS306	Effects of Long-Term Crop Residue		Soybean Crop Models for Kansas
536375	Yesterday's Research for		Removal and Fertilizer Application on		Varieties
	Tomorrow's Needs		Soil and Crop Yield	KS514	Epidemiology and Ecology of Sooty
536445	Soybeans in the Central Corridor of	KS307	Development and Evaluation of		Stripe (Ramulispora sorghi) on Grain
-	Kansas–An Extension Education		Commercial Soybean Cultivars for		Sorghum
	Program		Kansas	KS515	Starter Fertilizer Application Effects
536446	Grain Sorghum in the Central	KS308	Plant Nutrient Cycling in Soil		on Reduced and No-Tillage Grain
-	Corridor of Kansas–An Extension		, ,		Sorghum Production
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KS523	Starter Fertilizer Formulations and	Anaton	ny and Physiology	Anima	I Sciences and Industry
	Placement for Conservation-Tillage Production Systems	528598	Porcine Antibacterial Peptides	520491	Alternative Marketing Organizations:
KS525	Improvement of Hard Winter Wheats		(Sustaining Animal Health and Well- Being)		Transaction Costs and Consumer Demand
	and Other Small Cereal Grains for	528602	Neurons and Neuropeptides in Sea	520494	Market Niche Identification and
KS526	Kansas Plant Transformation Using		Anemones		Education for Small-Producer
N3320	Microprojectiles and Agrobacterium	528603	(number applies to title above)		Marketing Cooperatives
KS533	Crop Growth in Soil Beneath Waste	528607	High Resolution Regional Maps of	521789	Evaluation of the Effectiveness of
	Lagoons		Swine Chromosomal Segments		Monensin in Controlling Bloat in
KS540	Range Improvement Investigations	528608	Containing QTL (number applies to title above)	521799	Cattle Modification of the Flavor and Color
KS554	Binding of Pesticides to Soils and Its	528612	Porcine Antimicrobial Peptides	321733	of Extruded Mozzarella Soy Cheese
	Impact on Bioavailability	528613	Modulation of Reperfusion Injury by a		Analogs
KS682	Wheat Transformation for Enhanced Resistance to Biotic Stress	0200.0	Neutrophil Peptide	521801	Effect of Ground Mustard on
KS686	Identification and Utilization of	528615	Contribution of the NADPH Oxidase		Microorganisms in Laboratory
113000	Polygenic Sources of Greenbug		to Reperfusion Injury		Medium
	Resistance in Sorghum	528616	Regulated Ion Transport by Vas	521808	Evolutionary Conservation of the Molecular Mechanisms of Develop-
KS713	BMP's for Available Phosphorus-	500047	Deferens Epithelium		ment
	Stratified Surface Soils	528617	Ionic Basis of Repolarization in Equine Heart: Relevance to Atrial	521821	Animal Sciences and Industry Food
KS714	Phosphorus in Surface Runoff: Best		Fibriliation and Acquired QTLs		Safety Consortium
1/0700	Management Practices	528618	The NDAPH Oxidase and Neutrophil	521823	Evaluation of Tenneco Packaging
KS722	Starter Fertilizer Interactions with Corn Hybrids		Recruitment in Muscle		System on Beef Rebloom and
KS723	Evaluation of Time of Nitrogen	529279	Role of Ordered Helical Segments in	504004	Display Color Stability
110120	Application in No-Till Production		Membrane Proteins	521824	Regulation and Function of Interleukin 6 in the Porcine Anterior
	Systems	529313	Control of Rhythmic Sympathetic		Pituitary
KS725	Incorporating Nitrogen Response into	KS186	Activity Acute Stress Metabolic Relationships in Supply of	521827	Effects of Endpoint Temperature on
	SORKAM	NS100	Nutrients for Lactating Cows	02.02.	Internal Cooked Color Development
KS726	Impact of Conservation Compliance	KS210	Positional and Functional Identifica-		in Ground Pork and Loins
	on Nitrogen Recommendations for Dryland Winter		tion of Economically Important Genes	521828	Wheat Middling Evaluation
KS727	Use of Nitrogen Mineralization in		in the Pig	521834	Effects of Increasing Pantothenic
110121	Spatially Variable Nitrogen Recom-	KS299	National Animal Genome Research		Acid on Growth Performance of High Health, Segregated Early-Weaned
	mendations	1/0050	Program Marshamatra of the Bland Con		Pigs
KS779	Variables in Agriculture-Weather	KS356	Morphometry of the Blood-Gas Barrier in Exercise-Stressed and	521835	HACCP Implementation and
1/0000	Information Systems		Pneumonic Calves		Evaluation in Small and Very Small
KS838	Chemistry and Bioavailablity of Waste Constituents in Soils	KS392	Development, Regulation, and		Meat/Poultry Plants
KS932	Pesticides and Other Toxic Organics		Efficacy of the Antibacterial Peptide,	521837	Effect of Plants on Bioavailability and
110002	in Soil and Their Potential for		PR-39	E20420	Toxicity of Contaminants in Soil
	Groundwater Contamination	KS481820	Porcine Cathelicidins: Induction and	528138	Influence of Conjugated Linoleic Acid (CLA) Source on Carcass Quality of
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	Irrigated Corn: A Field-Scale, Full-	110499	Targets for Parturition Induction	521839	Effect of Ground Mustard on
VC0774	Season Study	KS503	Modulation of Reperfusion Injury by a		Microorganisms in Laboratory
KS9771	Water ConservationIncreased Efficiency in Usage		Pig Neutrophil Peptide		Medium
KS9798	Predicting Potential Mineralizable	KS579	Stress Factors of Farm Animals and	521841	Extruder/Expander Conditions to
	Nitrogen by Remote Sensing		Their Effects on Performance		Optimize Utilization of Full-Fat Soybeans in Nursery and Finishing
KS9384	Grain Sorghum Research	KS653	Anatomical, Physiological, and		Pigs
KS9838	Pigweed (Amaranthus spp.)		Pharmacological Mechanisms in Health and Disease	521842	Effects of New and Improved
	Identification, Hybridization, and	KS9598	Porcine Antibacterial Peptides		Genotypes and Processing
VC00E7	Introgression	KS9607	High Resolution Regional Maps of		Technologies on the Nutritional Value
KS9857	Implementation of Best Management Practices in the Blue River Basin of		Swine Chromosomal Segments	F40040	of Sorghum for Swine and Poultry
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	Fitness of Related Wild Species			521845	Replacing Roughage in Growing
					Cattle Diets with Corn and Corn
					Gluten Feed
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521846	Corn Starches Used as Stabilizers in Yogurt	521868	Influence of Modified Tall Oil and Creatinine Monohydrate on Carcass	536448	Feasibility of Farming Seasonal Wetlands and Evaluation fo Farmed
521847	Grazing Cattails: Cattle Performance and Vegetative Response	521869	and Meat Quality of Finishing Pigs Immunomodulatory and Growth	536455	Seasonal Wetlands Adding Value to Kansas Flour Milling
521848	Steam Pasteurization Assessment and Microbial Analysis - Phase 1		Effects of the Seaweed Ascophyllum nodosum in Pigs	536458	By-Products Adding Value to Kansas Flour Milling
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	Pork Cuts during Processing,	F04070	Kansas	536471	Influence of Feeding Duration and
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521852	Effect of Virginiamycin on Ruminal	521873	Evaluation of OPTIBOAR for		Home Food Preparers
521853	Protein (Nitrogen) Metabolism Reactive Nanoparticles as Destruc-		Assessing Characteristics of Boar Semen	536766	HACCP Implementation and Management in Small Meat and
	tive Adsorbents for Biological and Chemical Decontamination	528174	Distiller's By-Products for Cattle: Food Safety, Meat Quality, and Cattle	536768	Food Processors in Four Mid???? Training and Support for State and
521855	Escherichia coli O157:H7 Risk	522992	Performance Scale-Up Process Optimization for		Local Regulators on Meat and
	Assessment for Production and Cooking of Blade- Tenderized and	322992	New Method of Manufacturing Imitation Mozzarella	536777	Poultry Processing HACCP Systems Feeding Value and Present Day
528156	Fibrinogen-Processed Beef Steaks Evaluating the Ileal Digestibility of	523024	Extruder/Expander/ Expeller		Marketing Channels of Wheat Dockage
	Soybean Meal from Different Soy Processors		Conditions to Optimize Utilization of Full-Fat Soybeans in Nursery and	KS026	Reproductive Performance in Domestic Ruminants
528157	Carcass Merit Traits: Development of EPD's and Genetic Marker Validation	523037	Finishing Pigs Characterization of Modified Gluten	KS027	Methods to Increase Reproductive Efficiency in Cattle
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521863	Post-Process Pasteurization of Packaged, Ready-to-Eat Meat	536177	Geographic Information Systems in Agricultural Science Education	KS325	Studies of Pituitary Folliculostellate Cell Function
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521864	Animal Sciences Food Safety Consortium		Seasonal Wetlands	KS348	Responses to Progesterone Beef Cow/Calf Nutrition and
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	Vacuum Packaging, and Microwave Treatments of Subprimal Beef Cuts	536389	Program Quick Reference Guide for Food Processors	KS384	Development of Recombinant Vaccines for Use in
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KS402	Red Meat Production, Processing, and Marketing Practices	528013 538604	Research on Kenaf Healthy Homes - Kansas	527262	Evaluation of Insect Serpins as Biopesticides
KS404	Rapid Methods for the Detection and Prediction of Off-Flavors in Dairy	KS272	Development of Textile Materials for Environmental Compatibility and	527263	Cancer-Protective Effects of Wheats with Different Antioxidant Potentials
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	Carnitine Needs of the Profilic Lactating Sow	520906	Transformation of Sorghum with	527265	tion Properties of Benzene in Water Selective Inhibitors of Pyruvate
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	Proteins and Carbohydrate Sources	520934	(number applies to title above)	527266	Activated Protein Substrate and
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N3420	Management Systems for Optimizing Beef Production	524670	Control of Corn Rootworm Using	527268	Cyclic Peptide Inhibitors of Enzymes of the Contact System
KS446	Enhancing Utilization of Carbohy-		Genetically Engineered Corn	527269	Wheat Crop Improvement by Genetic
	drates and Soybean Proteins in	527228	Regulation of Membrane Lipid	027200	Engineering
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KS455	Protein and Nonprotein Nitrogen	527236	of Plants Glucose Studies of Human		Pectinases in Two Animal Species
	Utilization by Growing-Finishing	321230	Lysosomal Glucoscerebrosidase	527271	Evaluation of Insect Serpins as
KS461	Cattle Use of Novel Processing Procedures	527239	Development of Insect Chitinolytic	507070	Biopesticides
N3401	to Maximize Nutritional Value of		Enzymes as Biopesticides	527273	Molecular Analysis of Mucin-Type O- Glycosylation
	Swine Diets	527241	Induction of Chloride Secretion by	527274	Regulation of Protein Cross-Linking
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VC405	Crops for Beef and Dairy Cattle	527244	Solution NMR Structure of Putative	527276	A Novel Mini-Protein Scaffold for
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	Profitability		Glycosylation	527280	Relationships Immunogenic Tumor-Associated
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	through Feedlot	527249	(number applies to title above)		Genetic Engineering with Genes for
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KS9284	Consortium Regulation and Function of		Forms of Blood Coagulation	527283	Wheat Crop Improvement by Genetic Engineering
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	Pituitary		of the Contact System	027207	with Different Antioxidant Potentials
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	Evaluation in Small and Very Small		Based Signaling of Plants		Human Cataractogenesis
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528011	Weathering Studies to Evaluate	527259	Effects of Cosolvents on Hydrophobic	529278	(number applies to title above)
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528012	Soybean Alkyd Resins in Pigment		Proteins	529343	Regulation of Mammalian Pyruvate
	Printing of Textiles and Materials	527261	(number applies to title above)	3200 10	Dehydrogenase
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529344 529431	Kanopolis Watershed Assessment Molecular Dynamic Simulations of	KS9245	Roles of Multiple Phospholipase DS in Plant Reproduction	527735	Field Verification of Irrigation Scheduling for Corn
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529451	Structure and Function of HSP 100 Proteins	520489	Water Conservation-Increased Efficiency in Usage		Scheduling and Water Management Project
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KS410	Biochemical Basis for Cytoplasmic Male Sterility in Wheat	520932	Cheney Watershed Iron (Fe) Chlorosis: Addressing a	527747	Water Conservation–Increased Efficiency in Usage
KS416	Genetic Engineering of Wheat and Sorghum for Resistance to Fungi and		Familiar Problem with New Technology	527748	Using Georeferenced Data to Optimize Soybean Production
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KS434	and Water Biochemistry of Cyclic 3, 5'Gua-	523019	Objective Characterization of Texture Properties of Crunchy During Chewing	527751	Improve Water Quality Atrazine Big Blue River Monitoring Project
KS491	nosine Monophosphate Biochemistry of Genetic Systems	523037	Characterization of Modified Gluten Protein	527752	Using Landsat Imagery and AGNPS Model for Water Quality Assessment
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KS508	Structure and Function of HSP 100 Proteins	525363	(number applies to title above)	507754	Project
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KS511 KS512	Biotechnology Core Facility High-Field Protein Nuclear Magnetic	526742	Water Contaminants Evaluation Study	527755	Ecological Livestock Pollution Control-Performance Evaluation
KS516	Resonance Laboratory Hemolymph Proteins in Insect	527584	Assessing the Role of Infrared Images and Yield Maps in Corn	527762	Precise Injection of NH ₃ Using Pulse- Width Modulation Metering
KS526	Immune Responses Plant Transformation Using	527713	Production Monitoring and Modeling Nitrogen	527763	Technical Assistance to Water Users: South Central Kansas Irrigation Scheduling and Water Management
KS672	Microprojectiles and <i>Agrobacterium</i> Hessian Fly Pectinase: A Target for	527724	Management in Conservation Tillage Production Systems Identification of Wheat Quality	527765	Project Kanopolis Watershed Assessment
KS682	Genetic Engineering in Wheat Wheat Transformation for Enhanced Resistance to Biotic Stress	021127	Characteristics Using Single-Kernel Spectral Analysis	527767 527770	Ecological Livestock Pollution Control Technical Assistance to Water Users:
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KS9223	Aphid Pectinases in Insect-Plant Interactions and Biotype Evolution	527732	Optimum Guar Grinding Technology Horseshoe Creek Watershed	536177	Livestock Buildings Geographic Information Systems in
KS9229	Role of Phospholipase D in Plant Membrane Deterioration and Senescence	527733	Assessment Project Water Conservation: Increased Efficiency in Usage	536281	Agricultural Science Education Irrigation Scheduling Demonstration of Efficient Water Use by Corn in
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536710	Cooperative Extension Program in Crop Drying and Postharvest	520495	Fecal Coliform, Contamination of Kansas River Basins: Source,	526684	Long-Term Ecological Research in Tallgrass Prairie: Konza LTER
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536713	Livestock Environmental Issues	5000.47	stration of BMP's	526688	Influence of Gravity as a Determi-
	Curriculum Development and	520847	Carbon, Water, and Energy Fluxes		nant in Cellular Biology
	Implementation Project		from a Tallgrass Prairie: Effect of	526689	Production of Seedless Watermel-
536746	Drift Minimization through Education:		Land		ons via a Gene Transfer Approach
	An Interactive Multimedia CD and	520914	Landscape-Level Trace Gas Fluxes	526692	Role of Amino Acid Uptake by
	Internet-Delivered Course of Study		on Grazed and Ungrazed Tallgrass		Mycorrhizal Ericaceous Shrubs in
536764	South Central Kansas Irrigation		Prairie		Nitrogen Economy
	Management Project	520919	(number applies to title above)	526694	Influence of Gravity as a Determi-
536765	Food-A-Syst for Food Producers and	521808	Evolutionary Conservation of the		nant in Cellular Biology
	Home Food Preparers		Molecular Mechanisms of Develop-	526695	Long-Term Ecological Research in
536781	Water Quality Improvement of		ment		Tallgrass Prairie: Konza LTER
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536818	Irrigation Scheduling Demonstration			500700	Cycling in Stream Ecosystems
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	and Grain Sorghum		Phospholipase D	526708	Evolutionary Conservation of the
KS353	Odor, Masks, Particles, and Animal-	526583	Establishment and Operation of the		Molecular Mechanisms of
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KS362	Sustainability of Tillage Systems in	526633	Starch Concentration Metabolism in	526711	(number applies to title above)
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	Rotation	526644	Reconstitution of the EGF Receptor		Condition Trend Analysis
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KS381	Ventilation and Air Quality in	======	Soil Moisture Linking Synthetic		Monitoring, Development,
. 1.000	Enclosed Buildings		Aperture Radar Image Phenomenol-		Demonstration of BMP's
KS452	Field-Scale Spatial Variation for		ogy with Ecosystem Processes	526716	(number applies to title above)
110 102	Grain Quality	526655	Evolutionary Conservation of the	526717	Evaluating the Role of Resource
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	Surface Runoff		Grassland	526723	Lipid Analysis of Migratory Sandhill
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482826	Mechanisms of Immune Suppression		Assessment	526724	In Vitro Assay for Cryptosporidium
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Vegetables, and Fruits by Young Adults	KS518		110210			
Adults Cholesterol-Lowering Activity of		and Nutrient Metabolism in Swine			523000	
				- · · · · · · · · · · · · · · · · · · ·		
						Common Dietary Fibers

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523002	Development of Fish Meal Substitutes Based on Corn Gluten Meal,	523037	Characterization of Modified Gluten Protein	527731	Development and Evaluation of Optimum Guar Grinding Technology
523003	and Low Oligosaccharide Soybeans Development of a Dry/Wet Milling	523038	Management of Stored-Product Insects with Heat in Food-Processing	528159	Characterizing Flavors of Sorghum Cultivars Potentially Useful for Foods
	Method to Increase Starch Recovery from Sorghum	F22020	Facilities	535947	Short-Season Corn Educational
523005	Use of SKCS Data for Commercial	523039	Degradable Adhesive Performance of Modified Proteins for Navy Applica-	536005	Program in Southeast Kansas Income for Kansas Health Founda-
	Milling of Soft Red Winter, Soft	500040	tions		tion - Health Promotion for Older
523006	White, and Hard Red Spring Wheat Enhancement of Dimension Stability	523040	Wheat Screening for Natural Desirable Lipids	536783	Kansans White Wheat Commercialization
	and Mold Resistance of Reinforced	523041	Chemical/Physical Modification of	536807	(number applies to title above)
523007	Natural Fiber Development of a Stored Wheat	523042	Gluten Protein and Characterization Edible/Biodegradable Composites for	KS124	Fusarium Mycotoxins in Cereal Grains
	Areawide Management Program in		Animal-Feed Packaging	KS213	Marketing and Delivery of Quality
523008	Kansas Improving Efficacy and Safety of	523044	Genetic and Environment Effects of Wheat Protein Quality during Grain	KS316	Cereals and Oilseeds Wet Processing of Kansas Wheat
020000	Fumigation in Kansas Grain		Development		and Grain Sorghum
523009	Elevators New Plastics and Composite	523045	Extrusion Process for Pregelatinizing Modified Wheat Starch	KS320	Development of Hard White Winter Wheat Varieties for Kansas
02000	Materials from Biopolymers:	523046	Development and Evaluation of Pest	KS329	Kansas Wheat Quality Profile
523010	Dynamic Behavior and (number applies to title above)		Management Programs at Retail Grocery Stores	KS330	Large-Scale Milling and Baking
523010	Quality-Based Marketing of Wheat:	523048	Evaluation of On-Line Moisture	KS344	Evaluation Wheat for Oriental Noodles: Small-
500044	Pilot-Scale Evaluation		Sensors in an Extrusion Process Line	1.0011	Scale Test for Methodology
523014	Quality of Hard Winter Wheat for Bread, Tortillas, and Asian Noodles	523049 523050	(number applies to title above) Adhesive Performance of Soy Protein	KS385	Development Extrusion Processing to Add Value to
523015	Processing and Stability Studies with		in Navy Applications	110000	Kansas Grains
	Four Timulin Compounds and Two Valnemulin Formulations in Typical	523053	Evaluation of On-Line Moisture Sensors in an Extrusion Process Line	KS389	Development of New Technology for
	U.S. Finishing Diets	523054	Development and Evaluation of		Making Novel, Nutritious Foods from Grains
523016	Texture Characterization of Crunchy Foods during Chewing		Ultrasonic Devices for Management of Stored-Product Moths and Other	KS390	Effect of Use of Single Kernel Wheat
523017	(number applies to title above)		Arthropods		Characterization System on Milling Performance
523019	Objective Characterization of Texture Properties of Crunchy during	523055	Sorghum Grain Storage and Handling Activity	KS391	Adding Value to Kansas Wheat and Sorghum in Baking Products
523020	Chewing Compatibility of Starch and Polylactic	523057	The Impact of Storage on Wheat Milling Performance	KS393	New Uses of Grains and By-Products in Edible/Biodegradable Feed
	Acid	523058	Marine Degradable and Edible Gun		Packaging Material
523021	Gluten Proteins that Improve Bread Quality	523059	Plug SPINOSAD: Alternative to Pesticides	KS394	Early-Generation Wheat Quality
523022	Novel Sorghum Composite Flours	323039	for Management of Stored-Wheat	KS441	Testing Utilization for Kansas Grain in Ready
523023	Designed for Breadmaking Quality-Based Marketing of Wheat:	523065	Insects Wheat Screening for Natural	1/0440	to Eat Breakfast Cereals
323023	Pilot-Scale Evaluation	523005	Desirable Lipids	KS443 KS451	Infrared Probing of Wheat Quality A Systematic Method for the
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523026	Extruded Foods from White Grain Sorghum	523069	Breeding Programs Biodegradable Plastics from Wheat	KS457	Utilization of Kansas Wheats for Frozen Dough Speciality Breads
523027	Over-the-Counter, Cholesterol-		Starch and Polylactic Acid	KS461	Use of Novel Processing Procedures
	Lowering, Extruded Soy Fiber Dietary Supplements	523075	Pelleting Characteristics of Cottonseed Meal in Corn-Soy based		to Maximize Nutritional Value of Swine Diets
523030	Development of Biodegradable Composite for Military Applications	E07004	Rations	KS479	Characterization of Glycosylation
523033	Edible/Biodegradable Composites for	527284	Cancer-Protective Effects of Wheats with Different Antioxidant Potentials	KS485	Site(s) in Glutenin Subunits of Wheat Wet-Milling Tests on 100g of Grain
522024	Feed-Supplemented Containers	527590	Hard White Wheat Varieties' Milling		Sorghum
523034	Improving Efficacy and Safety of Fumigation in Kansas Grain	527591	Performance (number applies to title above)	KS492	Objective Grain Processing Quality Characterization
E00000	Elevators	527725	USDA/ARS Automatic Control of an	KS510	Optimization of Wheat Flour Milling
523036	Pellet Mash Conditioning: A Study to Better Understand the Process		Instrumented Two-Roll Mill	KS524	System Genetic Improvement of Wheat
		I		10024	Genetic improvement of wheat

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KS711	Market Quality of Hard Wheat for Domestic and International Foods	524072	Root Physiological Mechanisms in Perennial Grass Adaptation to		USA
KS9019	Objective Characterization of Texture Properties of Crunchy Foods during		Changing Soil Water Status and Temperature Changes	KS338	Composition and Alternative Uses of Food By-Products from Food Service Operations
KS9044	Chewing Genetic Environment Effects on Wheat Protein Quality during Grain	524073	Evaluation of Visitor Satisfaction of Fee-Based Interpretation in the U.S. Forest Service	KS347	Endangered Species and Ag Producers: Attitudes and Economic Ramifications
KS9486	Development Quality-Oriented Marketing of Hard Winter Wheat	524075	Relationship between Tissue Nitrogen and Phosphorus Concentra- tions of Impatiens and Thrips	KS349	Postharvest Handling and Preserving of Peonies and Other Specialty Cut
KS9986	Partial-Waxy Starch Mutants of Hard Wheats and Their Use in Oriental Noodles	524076 524077	Infestation and Damage on Impatiens Floriculture Research Relationship between Tissue	KS357	Flowers Investigations of the Mechanisms of Chilling Injury and Tolerance in Crop
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523870	Evaluation and/or Assessment for Turfgrass		Bluegrass or Seeded Zoysiagrass	KS409	Micropropagation and Somatic
523873	Evaluation and/or Assessment for Turfgrass	524080	Effects of Bacterium (Azospirillium brasilense) and Vesicular Arbuscular	KS425	Embryogenesis in Selected <i>Acer</i> and <i>Quercus</i> Species Developing Pecan Production
523885	Hardiness and Canker Resistance of Lacebark Elm (Ulmus parvifolia)	504004	Mychorrhizae (<i>Glomus intraradicies</i>) on Cool-Season Turfgrass	KS445	Systems for Kansas and Missouri Freezing Injury and Cell Cavitation in
523888	Selections Irrigation and Disease Management	524081	A Pilot Project for the Testing and Assessment of Participatory Farm Monitoring to Achieve TMDL Goals		Grapes and Broad-Leaf Evergreen Species
524058	on Golf Course Fairways Evaluation of Ornamental Species for the Great Plains	524082 524084	(number applies to title above) Converting Transition Zone Fairways	KS467	Woody Ornamental Plant Adaptability to Various Landscape Environments
524060	Environmental and Physiological Factors Influencing Bentgrass		from Perennial Ryegrass to Kentucky Bluegrass or Seeded Zoysiagrass	KS480	Environmental Stress Tolerance in Turfgrass
524062	Summer Decline Reclamation of Native Tallgrass	524598	Irrigation and Disease Management on Golf Course Fairways	KS504	Evaluation and Characterization of Horticultural Food-Crop Germplasm
02 1002	Prairie at Kansas Army Ammunition Plant	524615	Biology and Management of Spring Dead Spot in Bermudagrass	KS520	Soil Quality Test Kit Distribution and Testing by Farmers Use of Precharged Zeolites to
524063	Environmental Impacts of Reducing Pesticide Uses on Fort Riley	536485	Riparian Buffer Initiative for the Kansas Pottawatomie Reservation	KS551	Provide Aluminum for Blue Separ Coloration during Hydrangea
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524065	National Turfgrass Evaluation Program	536765	Food-a-Syst for Food Producers and Home Food Preparers	110000	Peony Flowers and Vaselife Evaluation of Specialty Fresh-Cut
524066	The Importance of Carbon Balance and Root Activity in Creeping Bentgrass Tolerance to Summer	536780	Riparian Buffer Education to Improve Surface Water Quality in the Blue River of Nebraska and Kansas	KS556	Flowers Horticultural Food Crop Production Wildlife Damage Control in
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524068	Root Physiological Mechanisms in Perennial Grass Adaptation to Changing Soil Water Status and	KS133	Investigations Rootstock and Interstem Effects on	KS712	Adaptation, Propagation, and Evaluation of Ornamentals and Turfgrasses in Kansas
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H370	Operations Applying Artificial Intelligence	524577	Collaborative Crop Research Program	524633	Disease Resistance Expression of Maize RP1-d RUSE
	Technology in Foodservice Forecasting	524578	(number applies to title above)		Resistance Gene in Transgenic
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524492	Wheat Identics Resource Center and Its Contributions to the Kansas	524622	Wheat Genetics Resource Center and its Contributions to the Kansas Wheat Industry		Analyzing Disease Resistance and Improving Broad-Spectrum Disease Resistance in Rice
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524665	Isolation of Maize Genes Controlling Defense Reactions to Pathogens of	KS453	The Biology and Control of Winter Wheat Diseases	KS185	Commodities, Consumers, and Communities: Local Food Systems
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526004	Kansas Dual-Purpose Pest-Resistant White Wheats	525771	Water Conservation–Increased Efficiency in Usage	KS225	Improved Grazing Systems for Beef Cattle Production
526005	Evaluation of Early Planting and Cold Tolerance in Grain Sorghum	525772 525773	(number applies to title above) Effect of Sprinkler Height on Corn	KS312	Soil and Water Management for Crop Production in Southeastern Kansas
526006	Sulfentrazone Tank Mixtures for Weed Control in Sunflowers	525775	Production Planting Dates and Maturity Group	KS332	Forage Management in Southeastern Kansas
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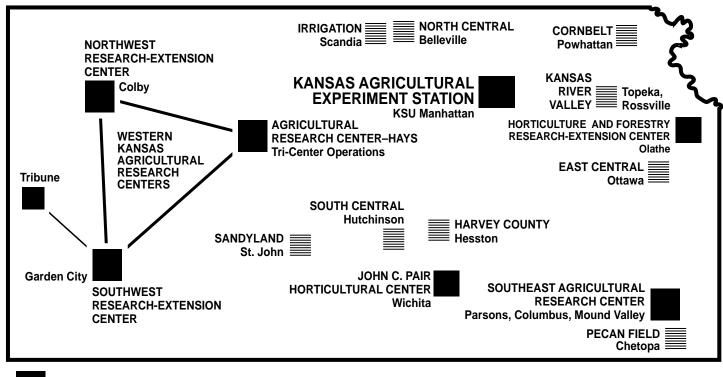
526200	Manure and Water Management for Environmental Protection and Corn Production	KS352	Improving the Health of Stressed Feeder Cattle and Improving Grain Sorghum Utilization in Kansas	KS685	Development of Molecular Markers for <i>Aegilops tauschii</i> Resistance to Wheat Curl Mite
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536818	Irrigation Scheduling Demonstration of Efficient Water Use by Corn in Western Kansas	KS519	Kansas Cropping Systems for Southwest Kansas	KS726	Impact of Conservation Compliance on Nitrogen Recommendations for Dryland Winter Wheat
KS2312	Water Conservation and Manage- ment in Crop Systems	KS522	Developing Weed Management Systems for Southwest Kansas	KS847	Forestry Investigations in the Great Plains of Kansas
KS346	Fertility and Water Management for Western Kansas	KS523	Starter Fertilizer Formulations and Placement for Conservation Tillage Production Systems	KS9771	Water Conservation-Increased Efficiency in Usage

FY99 and FY2000 Kansas Agricultural Experiment Station Income and Disbursement Statement

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Federal	State	Fees	Sponsors	lotal	Percent
\$2,054,133	\$16,217,802	\$813,159	\$7,170,595	\$26,255,689	49.03%
\$244,348	\$5,785,345	\$1,187,193	\$1,343,527	\$8,560,413	15.98%
\$345,296	\$1,742,150	\$1,429,940	\$3,596,941	\$7,114,327	13.28%
\$518,089	\$1,217,844	\$2,795,121	\$1,842,793	\$6,373,938	11.90%
\$213,984	\$1,168,485	\$2,218,829	\$1,655,135	\$5,256,433	9.81%
\$0	\$0	\$0	\$0	\$0	0.00%
\$3,375850	\$26,131,626	\$8,444,333	\$15,608,991	\$53,560,800	100%
	\$244,348 \$345,296 \$518,089 \$213,984 \$0	\$3,375,850 \$26,131,626 Federal State \$2,054,133 \$16,217,802 \$244,348 \$5,785,345 \$345,296 \$1,742,150 \$518,089 \$1,217,844 \$213,984 \$1,168,485 \$0 \$0	\$3,375,850 \$26,131,626 \$8,444,333 Federal State Fees \$2,054,133 \$16,217,802 \$813,159 \$244,348 \$5,785,345 \$1,187,193 \$345,296 \$1,742,150 \$1,429,940 \$518,089 \$1,217,844 \$2,795,121 \$213,984 \$1,168,485 \$2,218,829 \$0 \$0	\$3,375,850 \$26,131,626 \$8,444,333 \$15,608,991 Federal State Fees Sponsors \$2,054,133 \$16,217,802 \$813,159 \$7,170,595 \$244,348 \$5,785,345 \$1,187,193 \$1,343,527 \$345,296 \$1,742,150 \$1,429,940 \$3,596,941 \$518,089 \$1,217,844 \$2,795,121 \$1,842,793 \$213,984 \$1,168,485 \$2,218,829 \$1,655,135 \$0 \$0 \$0	\$3,375,850 \$26,131,626 \$8,444,333 \$15,608,991 \$53,560,800 Federal State Fees Sponsors Total \$2,054,133 \$16,217,802 \$813,159 \$7,170,595 \$26,255,689 \$244,348 \$5,785,345 \$1,187,193 \$1,343,527 \$8,560,413 \$345,296 \$1,742,150 \$1,429,940 \$3,596,941 \$7,114,327 \$518,089 \$1,217,844 \$2,795,121 \$1,842,793 \$6,373,938 \$213,984 \$1,168,485 \$2,218,829 \$1,655,135 \$5,256,433 \$0 \$0 \$0 \$0

- 1/2000 - 1/2	5.94%	48.91%	14.24%	30.91%	I 450 450 500	
FY2000 Funding	\$3,356,339	\$27,612,678	\$8,038,032	\$17,452,674	\$56,459,723	Davaant
FY2000 Expenditures	Federal	State	Fees	Sponsors	Total	Percent
Faculty and Administrative Salaries	\$2,228,988	\$17,270,026	\$825,046	\$8,040,460	\$28,364,520	50.23%
Classified and Student Salaries	\$223,844	\$5,934,593	\$1,007,407	\$1,442,716	\$8,608,560	15.25%
Contract Services and Travel	\$327,149	\$1,871,804	\$1,530,303	\$4,425,079	\$8,154,355	14.44%
Supplies and Material	\$394,737	\$1,305,904	\$2,643,975	\$2,156,743	\$6,501,359	11.52%
Equipment	\$181,621	\$1,230,351	\$2,031,301	\$1,387,676	\$4,830,949	8.56%
Other	\$0	\$0	\$0	\$0	\$0	0.00%
	\$3,356,339	\$27,612,678	\$8,038,032	\$17,452,674	\$56,459,723	100%

Kansas State University Statewide Agricultural Research Services



RESEARCH OR RESEARCH-EXTENSION CENTERS

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

3R 40 April 2001

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