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DIRECTOR'S REPORT OF RESEARCH IN KANSAS 2008

JULY 1, 2003 TO JUNE 30, 2008



KANSAS AGRICULTURAL
EXPERIMENT STATION

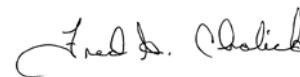


Letter of Transmittal

Office of the Director

To the Honorable Mark Parkinson, 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, 2008. This report contains the title, author, and publication information for manuscripts published by station scientists. The report was published only in electronic format.

A handwritten signature in cursive script, reading "Fred A. Cholick".

Fred A. Cholick
Director, K-State Research and Extension
Dean, College of Agriculture

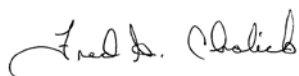
A Message from the Director

We are pleased to provide this 2008 Director's Report of Research in Kansas. The report is intended to inform you about our research programs under way and some of our accomplishments. K-State Research and Extension is dedicated to a safe and sustainable food and fiber system and to strong, healthy communities, families, and youth through integrated research, analysis, and education.

This report is 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.

The 2008 Director's Report of Research in Kansas provides a list of journal articles, station publications, and other published manuscripts from scientists in our departments, centers, fields, and associated programs.

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.



Fred A. Cholick
Director, K-State Research and Extension
Dean, College of Agriculture



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Search Tips

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To minimize irrelevant items when searching for common names such as Smith or Johnson, go to the page for the author’s unit (or use the unit bookmark) to start your search.

On the cover

Kansas Agricultural Experiment Station scientists conduct research at on- and off-campus facilities across the state.

Pictured (clockwise from top, left to right within each picture):

Rodney St. John, assistant professor of turfgrass science, Department of Horticulture, Forestry, and Recreation Resources

John Jaeger, assistant professor and beef cattle scientist, and Keith Harmony, associate professor and range scientist, Agricultural Research Center–Hays

X. Susan Sun, professor, Department of Grain Science in Industry, and Director, Center for Biobased Polymers by Design

Peter Nyori, graduate research assistant, and Allan Fritz, professor and wheat breeder, Department of Agronomy

Research Components of the Kansas Agricultural Experiment Station*

(See map, p. 2)

Academic Departments

College of Agriculture

Agricultural Economics
Agronomy
Animal Sciences and Industry
Communications
Entomology
Grain Science and Industry
Horticulture, Forestry and Recreation Resources
Plant Pathology

College of Arts and Sciences

Biochemistry
Biology
Statistics

College of Engineering

Biological and Agricultural Engineering
Chemical Engineering
Civil Engineering

College of Human Ecology

Apparel, Textiles and Interior Design
Hospitality Management and Dietetics
Human Nutrition

College of Veterinary Medicine

Anatomy and Physiology
Clinical Sciences
Diagnostic Medicine/Pathobiology
Veterinary Diagnostic Lab

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

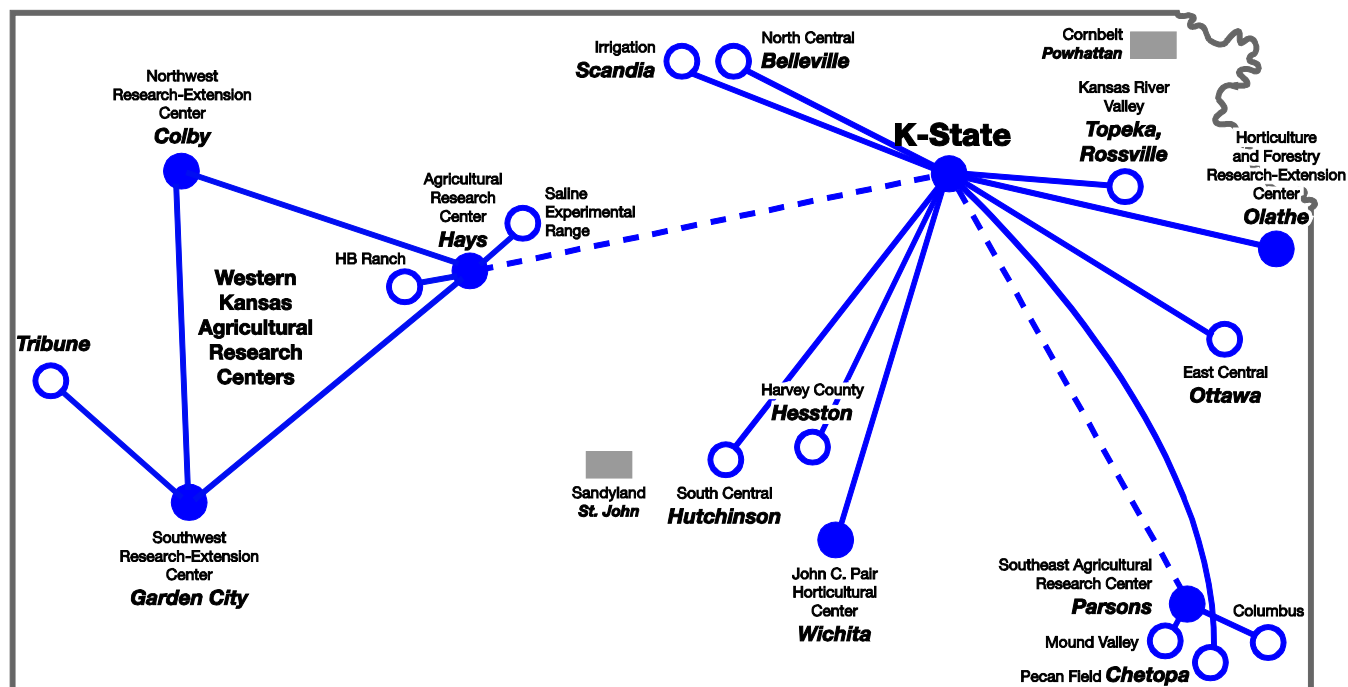
East Central - Ottawa
Harvey County - Hesston
Irrigation - Scandia
Kansas River Valley - Rossville, Silver Lake
North Central - Belleville
Pecan Field - Chetopa
South Central - Hutchinson

Associated Programs

Bioprocessing and Industrial Value-Added Program
Center for Animal Identification
Center for Biobased Products by Design
Center for Sustainable Energy
Food Science Institute
Great Plains Diagnostic Network
Great Plains Sorghum Improvement and Utilization Center
Kansas Ag and Rural Leadership
Kansas Center for Agricultural Resources and the Environment
Kansas Center for Sustainable Ag and Alternative Crops
Kansas Cooperative Development Center
Kansas Water Resources Institute
Konza Prairie Biological Station
International Grains Program
International Meat and Livestock Program
Plant Biotechnology Center
Weather Data Library
Wheat Genetic and Genomic Resources Center

* List includes units having faculty with KAES appointments in fiscal year 2008. For a full list of departments and programs of the Kansas Agricultural Experiment Station and Cooperative Extension Service and for additional information on K-State Research and Extension, see www.ksre.ksu.edu, and click on “About Us” in the sidebar.

Kansas State University Agricultural Research Locations



● ○ Current research centers and experiment fields.

■ Former research locations referenced in some publications in this report. The Cornbelt Experiment Field closed in 2000. The Sandyland Experiment Field was managed by the Department of Agronomy through 2004 and by the Agricultural Research Center-Hays through 2008.

Station Publications

Reports of Progress

SRP 912	2003 Kansas performance tests with winter wheat varieties	SRP 943	Beef cattle research 2005 (electronic only)
SRP 913	Agronomy field research 2003 (electronic only)	SRP 944	2005 Agricultural research, Southeast Agricultural Research Center
SRP 914	2003 Kansas performance tests with corn hybrids	SRP 945	Field day 2005, Southwest Research-Extension Center
SRP 915	2003 Kansas performance tests with grain sorghum hybrids	SRP 946	K-State turfgrass research 2005 (electronic only)
SRP 916	2003 Kansas performance tests with soybean varieties	SRP 947	2005 Kansas performance tests with winter wheat varieties
SRP 917	2004 Chemical weed control for field crops, pastures, rangeland, and noncropland	SRP 948	Agronomic and economic impacts of Kansas Agricultural Experiment Station wheat breeding program 1977-2005
SRP 918	2003 Kansas performance tests with alfalfa varieties	SRP 949	2005 Kansas performance tests with corn hybrids
SRP 919	Dairy day 2003 (electronic only)	SRP 950	2005 Kansas performance tests with grain sorghum hybrids
SRP 920	Swine day 2003 (electronic only)	SRP 951	2005 Kansas performance tests with soybean varieties
SRP 921	Kansas fertilizer research 2003 (electronic only)	SRP 952	2005 Kansas performance tests with alfalfa varieties
SRP 922	2003 Kansas performance tests with sunflower hybrids	SRP 953	2005 Kansas performance tests with sunflower hybrids
SRP 923	Cattlemen's day 2004 (electronic only)	SRP 954	2005 National winter canola variety trial
SRP 924	2003 National winter canola variety trial	SRP 955	2005 Kansas performance tests with summer annual forages
SRP 925	2003 Kansas performance tests with summer annual forages	SRP 956	Agronomy field research 2005 (electronic only)
SRP 926	2004 Agricultural research, Southeast Agricultural Research Center	SRP 957	Kansas fertilizer research 2005 (electronic only)
SRP 927	Field day 2004, Southwest Research-Extension Center	SRP 958	2006 Chemical weed control for field crops, pastures, rangeland, and noncropland
SRP 928	Agronomy field research 2004 (electronic only)	SRP 959	Beef cattle research 2006 (electronic only)
SRP 929	K-State turfgrass research 2004 (electronic only)	SRP 960	2006 Agricultural research, Southeast Agricultural Research Center
SRP 930	2004 Kansas performance tests with winter wheat varieties	SRP 961	Field Day 2006, Southwest Research Extension Center
SRP 931	2004 Kansas performance tests with spring small grains	SRP 961s	Field Day 2006 forage supplement, Southwest Research Extension Center (electronic only)
SRP 932	2004 Kansas performance tests with corn hybrids	SRP 962	K-State turfgrass research 2006 (electronic only)
SRP 933	2004 Kansas performance tests with grain sorghum hybrids	SRP 963	Dairy research 2005
SRP 934	2004 Kansas performance tests with soybean varieties	SRP 964	Swine research 2005 (electronic only)
SRP 935	2004 Kansas performance tests with alfalfa varieties	SRP 965	Dairy research 2006
SRP 936	2004 Kansas performance tests with sunflower hybrids	SRP 966	Swine day 2006 (electronic only)
SRP 937	2004 National winter canola variety trial	SRP 967	2006 Kansas performance tests with winter wheat varieties
SRP 938	2004 Kansas performance tests with summer annual forages	SRP 968	2006 Kansas performance tests with corn hybrids
SRP 939	Kansas fertilizer research 2004 (electronic only)	SRP 969	2006 Kansas performance tests with grain sorghum hybrids
SRP 940	Swine day 2004 (electronic only)	SRP 970	2006 Kansas performance tests with soybean varieties
SRP 941	Dairy day 2004 (electronic only)	SRP 971	2006 Kansas performance tests with alfalfa varieties
SRP 942	2005 Chemical weed control for field crops, pastures, rangeland, and noncropland		

SRP 972	2006 Kansas performance tests with sunflower hybrids
SRP 973	2006 National winter canola variety trial
SRP 975	Agronomy field research 2006 (electronic only)
SRP 976	Kansas fertilizer research 2006 (electronic only)
SRP 977	2007 Chemical weed control for field crops, pastures, rangeland, and noncropland
SRP 978	Beef cattle research 2007 (electronic only)
SRP 979	2007 Agricultural research, Southeast Agricultural Research Center
SRP 980	Field day 2007, Southwest Research-Extension Center
SRP 981	K-State turfgrass research 2007
SRP 982	2007 Kansas performance tests with winter wheat varieties
SRP 983	2007 Kansas performance tests with corn hybrids
SRP 984	Dairy research 2007
SRP 985	Swine day 2007 (electronic only)
SRP 986	2007 Kansas performance tests with grain sorghum hybrids
SRP 987	2007 Kansas performance tests with soybean varieties
SRP 988	2007 Kansas performance tests with alfalfa varieties
SRP 989	2007 Kansas performance tests with sunflower hybrids
SRP 990	2007 National winter canola variety trial
SRP 992	Agronomy field research 2007 (electronic only)
SRP 993	Kansas fertilizer research 2007 (electronic only)
SRP 994	2008 Chemical weed control for field crops, pastures, rangeland, and noncropland
SRP 995	Beef cattle research 2008 (electronic only)
SRP 996	2008 Agricultural research, Southeast Agricultural Research Center
SRP 997	Field day 2008, Southwest Research-Extension Center
SRP 998	K-State turfgrass research 2008 (electronic only)

Keeping Up With Research

SRL 139	Walnut and scotch pine trees grown with farm crops
SRL 140	Evaluation of soybean varieties for iron-deficiency chlorosis (electronic only)

Special Publications

DRR 3	2003 Director's report of research in Kansas (electronic only)
UNN	Another 50 years of progress (1957-2007): Historical review of the second 50 years of the Kansas State University Southwest Research-Extension Center at Garden City, Kansas
UNN	Sedimentation in our reservoirs: Causes and solutions

Suffix Letters for Contribution Numbers

A	Proceedings of meeting or symposium
B	Book or book chapter
C	Computer program
D	Department report
J	Journal manuscript
S	Station publication (report of progress, keeping up with research, special publication, or bulletin)
T	Trade publication

Categories are based on information received before manuscripts are published. Type of publication sometimes changes later.

Station publications are available on the World Wide Web at: www.ksre.ksu.edu/library

Department reports are available only from the appropriate department office. Copies of journal articles or other external publications must be obtained from authors, journals, or a library.

Publications of Station Scientists (by unit and contribution number)

Note: Manuscripts are cross listed under all KAES units having a coauthor. This report covers five fiscal years; some units listed may no longer have faculty with KAES appointments but did at the time manuscripts were published or submitted for numbering.

Administration

- 05-109-J A workshop report on wheat genome sequencing: International genome research on wheat consortium
B.S. Gill, R. Appels, A. Botha-Oberholster, C.R. Buell, J.L. Bennetzen, B. Chalhouf, F. Chumley, J. Dvorak, M. Iwanaga, B. Keller, W. Li, W.R. McCombie, Y. Ogiwara, F. Quetier, T. Sasaki
Genetics, 168:1087-1096, 2004
- 06-64-D 2005 Report on grains research and educational programs supported by Kansas corn, grain sorghum, soybean, and wheat commissions
F. Chumley
November 2006
(available only from department)
- 06-333-S Agronomic and economic impacts of Kansas Agricultural Experiment Station wheat breeding program 1977-2005
L.L. Nalley, A.P. Barkley, F. Chumley
KS Agric. Exp. Stn. Report of Progress 948, June 2006
- DRR 3 2003 Director's report of research in Kansas
June 2004, 49 pp. (electronic only)
<http://www.oznet.ksu.edu/library/misc2/drr3.pdf>

Agricultural Economics

- 00-177-A Factors underlying producer investments in food-processing cooperatives
M.A. Boland, J. Lusk, D. Barton
Proceedings of the NCR-194 Research on Cooperatives Meeting
Kansas City, MO, 1999
- 03-23-J Willingness to pay to improve domestic water supply in rural areas of central Tanzania: Implications for policy
A.R.M. Kaliba, D.W. Norman, Y-M. Chang
The International J. of Sustainable Development and World Ecology, 10:119-132, 2003

- 03-24-J Assessing sustainability of community-based water utility projects in central Tanzania with the help of canonical correlation analysis
A.R.M. Kaliba, D.W. Norman
J. of Environmental Assessment Policy and Management, 6:73-90, 2004
- 03-52-D Higher energy prices: Impacts on production costs for Kansas crop farms in 2000 and 2001
J.R. Williams, R.G. Nelson, M.R. Langemeier
Agricultural Economics Department Staff Paper no. 04-06, 2003, 28 pp.
(available only from department)
- 03-173-J Placement of UAN for dryland winter wheat in the central High Plains
A.J. Schlegel, K.C. Dhuyvetter, J.L. Havlin
Agronomy J., 95:1532-1541, 2003
- 03-208-J Optimal pest control in greenhouse production of ornamental crops
S.K. Schumacher, T.L. Marsh, K.A. Williams
Agricultural Economics, 34:39-50, 2006
- 03-234-J Economies of scale in the greenhouse floriculture industry
S.K. Schumacher, T.L. Marsh
J. of Agricultural and Applied Economics, 35:497-507, 2003
- 03-396-D Financial analysis for sustainable agriculture: Part 1: Gross margin analysis; Part 1B: Sensitivity analysis and partial budgeting
R.O. Burton, Jr., D.W. Norman, S.G. Freyenberger, R.D. Jones, J. Jost
Kansas Sustainable Agriculture Series Paper No. 9, 2004
- 03-407-A Costs of individual onsite wastewater treatment systems
J.R. Williams, G.M. Powell, R.D. Jones, A. Murat, W.R. Perry
Proceedings of the 10th National Symposium on Individual and Small Community Sewage Systems
Sacramento, CA, 2004

03-428-J	Country-of-origin labeling for Uruguayan beef L. Perez, M. Boland, T. Schroeder International Food and Agribusiness Management Review, 6(4):1-12, 2003	04-170-D	How much of commodity price behavior can a rational expectations storage model explain? H.H. Peterson, W.G. Tomek Agricultural Economics Department Staff Paper no. 04-04, 2003, 35 pp. (available only from department)
04-015-D	Pasture leasing arrangements in Kansas B.B. Golden, L.J. Tsoodle, H.M. Bigge Agricultural Economics Department Staff Paper no. 04-01, 2003, 16 pp. (available only from department)	04-193-D	What do you think? Participant survey results: 2003 K-State risk and profit conference M. Brant, P. Clark, D. Pendell Agricultural Economics Department Staff Paper no. 04-05, 2003, 21 pp. (available only from department)
04-036-D	Mathematical formulas for calculating net returns from participation in government programs, CRP, and crop insurance alternatives D.L. Pendell, W.R. Perry, J.R. Williams, G.A. Barnaby, B.D. Lubben Agricultural Economics Department Staff Paper no. 04-02, 2003, 47 pp. (available only from department)	04-316-J	The persistence of profitability among firms in the food economy S.K. Schumacher, M.A. Boland American J. of Agricultural Economics, 87(1):103-115, 2005
04-037-A	Net present value analysis of streambank stabilization projects on the Little Blue River in Washington County, Kansas J.R. Williams, P. Clark Research report prepared for the Kansas State Conservation Commission and Kansas Department of Health and Environment Topeka, KS, 2003	04-357-J	Undergraduate agribusiness programs: Focus or falter M.A. Boland, J.T. Akridge Review of Agricultural Economics, 26(4):564-578, 2004
04-041-J	Alfalfa hay quality and alternative pricing systems J.A. Hopper, H.H. Peterson, R.O. Burton, Jr. J. of Agricultural and Applied Economics, 36(1):73-90, 2004	04-358-J	The effects of industry and firm resources on profitability in the food economy S.K. Schumacher, M.A. Boland Agribusiness, 21(1):97-108, 2005
04-043-J	Using a partial budgeting tool to describe the effect of lactation space and lactation space management on a multi-site production system's net revenue R.G. Main, S.S. Dritz, M.D. Tokach, R.D. Goodband, K.C. Dhuyvetter, J.L. Nelssen J. of Swine Health and Production, 13:322-332, 2005	04-371-D	Staff, programs, and publications in Agricultural Economics, Kansas State University, 2003 D. Foster Agricultural Economics Department Staff Paper no. 04-07, 2004, 49 pp. (available only from department)
04-91-D	Nonirrigated crop-share leasing arrangements in Kansas B.B. Golden, L.J. Tsoodle, H. Bigge Agricultural Economics Department Staff Paper no. 04-03, 2003, 23 pp. (available only from department)	04-418-J	A survey and analysis of the costs of individual onsite septic tank and lagoon treatment systems J.R. Williams, G.M. Powell, R.D. Jones Small Flows Quarterly, 6(1):38-47, 2005
		05-99-D	Crop-share leasing arrangements for irrigated land in Kansas R.B. Garrett, L.J. Tsoodle, W.B. Golden Agricultural Economics Department Staff Paper no. 05-01, 2004, 20 pp. (available only from department)

05-100-D	What do you think? Participant survey results: 2004 K-State risk and profit conference M. Brant, D.L. Pendell, G.T. Tonsor Agricultural Economics Department Staff Paper no. 05-02, 2004, 17 pp. (available only from department)	05-229-J	Combining management practices to reduce sediment, nutrients, and herbicides in runoff M.B. Zeimen, K.A. Janssen, D.W. Sweeney, G.M. Pierzynski, K.R. Mankin, D.L. Devlin, D.L. Regehr, M.R. Langemeier, K.A. McVay J. of Soil and Water Conservation, 61(5):258-267, 2006
05-111-B	Entrepreneurship education for the African informal sector H.A. Cader, D.W. Norman In: International entrepreneurship education: Issues and newness, A. Fayolle, H. Klandt (Eds.). Cheltenham, UK: Edward Elgar Publishers, pp. 277-295, 2006	05-245-J	The sustainability of return on assets among sectors in the food economy M. Boland, S. Schumacher Agricultural Finance Review, 65(1):31-44, 2005
05-144-S	Beef cattle research 2005 M. McKee, E.R. Loe, J.S. Drouillard, T.J. Klopfenstein, G.E. Erickson, B.E. Dicke, D.K. Walker, E.C. Titgemeyer, B.E. Depenbusch, A.S. Webb, R.W. Daubert, J.J. Sindt, J.T. Fox, M.A. Greenquist, M.E. Corrigan, G.F. Schroeder, M.S. Awawdeh, D.P. Gnad, M.F. Spire, D.A. Mosier, J.E. Minton, J.J. Higgins, R.L. Hale, C.T. Thompson, T.J. Dumler, C.T. MacKown, M. Hampton, G.L. Gold, T.T. Marston, D.L. Davis, B.D. Wood, R.L. Schaub, R.M. Breiner, D.A. Llewellyn, J.A. Christopher, J.R. Brethour, G.L. Stokka, D. Gray, R. Armendariz, L.C. Hollis, J.F. Smith, B.J. Johnson, S. Kapil, K.W. Harborth, E.K. Schlickau, J.A. Unruh, M.E. Dikeman, K. Dhuyvetter, R. Jones, T. Turner, T. Marsh, R.W. Porter, S.K. Johnson, B.T. Gray, J.P. Grobbel, J.S. Smith, D.H. Kropf, G.A. Milliken, E.J. Yancey, L.J. Franken, E.J. Harvey, J.L. Marsden, R.K. Phebus, C. Pearsall, M. Singh, H. Thippareddi, T.J. Herald, A.L. Nutsch, R.R. Coger, R. Forgey, C.A. Tanus, S.K. Stoltenberg, K.J.K. Getty, T.M. Loughin, G.V. Hickey, J.M. Bieker, C.L. Kastner KS Agric. Exp. Stn. Report of Progress 943, Feb. 2005	05-256-J	Economic feasibility of no-tillage and manure for soil carbon sequestration in corn production in northeastern Kansas D.L. Pendell, J.R. Williams, C.W. Rice, R.G. Nelson, S.B. Boyles J. of Environmental Quality, 35:364-373, 2006
		05-303-D	International agricultural productivity E. Ogunyinka, M. Langemeier, D. Norman Agricultural Economics Department Staff Paper no. 05-03, 2005, 47 pp. (available only from department)
		05-330-D	Staff, programs, and publications in Agricultural Economics, Kansas State University, 2004 D.L. Foster Agricultural Economics Department Staff Paper no. 05-04, 2005, 47 pp. (available only from department)
		06-20-J	Input quality in the sugar beet industry M.A. Boland, T.L. Marsh J. of Agricultural and Resource Economics, 31(1):114-128, 2006
		06-21-J	Vertical integration in the malting barley industry: A "silver bullet" for Coors? M.A. Boland, G.W. Brester Review of Agricultural Economics, 28(1):272-283, 2006
05-180-J	Vertical integration in Ecuador: The case of fresh-cut fruit C. Piana, A. Featherstone, M. Boland Review of Agricultural Economics, 27(4):593-604, 2005	06-46-S	Dairy research 2005 J.S. Stevenson, L.C. Hollis, J.F. Smith, B.J. Johnson, S. Kapil, D.A. Mosier, M.J. Brouk, D.V. Armstrong, M.J. Van Baale, D.R. Bray, J.P. Harner, B. Cvetkovic, K.C. Dhuyvetter, T.L. Kastens KS Agric. Exp. Stn. Report of Progress 963, Nov. 2005

06-120-D	Production subsidies and the welfare of West African farmers: The example of cotton L. Small, D. Norman, H.H. Peterson, B. Flinchbaugh Agricultural Economics Department Research Report no. 37, 2005, 25 pp. (available only from department)	06-308-J	The mountain states lamb cooperative: Can vertical integration keep lamb producers from being fleeced? M.A. Boland, A. Bosse, G.W. Brester Review of Agricultural Economics, 29(1):157-169, 2007
06-122-J	An economic evaluation of site-specific herbicide application T.W. Rider, J.W. Vogel, J.A. Dille, K.C. Dhuyvetter, T. Kastens Precision Agriculture, 7:379-392, 2006	06-331-D	Staff, programs, and publications in Agricultural Economics, Kansas State University, 2005 D.L. Foster Agricultural Economics Department Staff Paper no. 06-02, 2006, 39 pp. (available only from department)
06-154-D	Comparison of 2002 census and KFMA farms M.R. Langemeier Agricultural Economics Department Staff Paper no. 06-01, 2005, 17 pp. (available only from department)	06-333-S	Agronomic and economic impacts of Kansas Agricultural Experiment Station wheat breeding program 1977-2005 L.L. Nalley, A.P. Barkley, F. Chumley KS Agric. Exp. Stn. Report of Progress 948, June 2006
06-175-A	Agricultural health and safety: A research agenda for agricultural economists R.M. Key, R.O. Burton, Jr., A.M. Featherstone Proceedings of the Southern Agricultural Economics Association Annual Meetings Orlando, FL, 2006	06-343-D	Evaluation of water conservation from more efficient irrigation systems B.B. Golden, J.M. Peterson Agricultural Economics Department Staff Paper no. 06-03, 2006, 70 pp. (available only from department)
06-176-D	Institutional reforms and their impact on agricultural production in the central Asian transition countries Y. Yahshilikov, D. Norman, A. Biere, M. Langemeier Agricultural Economics Department Research Report no. 38, 2006, 18 pp. (available only from department)	06-366-J	Determinants of agricultural economic faculty salaries: A quarter of a century later B.B. Golden, L.J. Tsoodle, O.O. Odeh, A.M. Featherstone Review of Agricultural Economics, 28(2):254-261, 2006
06-205-S	Beef cattle research 2006 K.W. Harborth, T.T. Marston, D.A. Llewellyn, B.B. Barnhardt, C.D. Reinhardt, D.A. Blasi, J.C. Forcherio, R.R. Scott, M.J. Quinn, J.S. Drouillard, E.R. Loe, B.E. Depenbusch, A.S. Webb, M.E. Corrigan, D.K. Walker, E.C. Titgemeyer, J.J. Higgins, B.J. Johnson, S.J. Winterholler, G.L. Parsons, E.K. Sissom, J.P. Hutcheson, R.S. Swingle, D.A. Yates, J.A. Christopher, J.R. Brethour, G.L. Stokka, L.C. Hollis, K.L. Teutemacher, M.W. Sanderson, A.M. Bryant, M.P. Epp, S.J. Glaenger, A. Babcock, R. Jones, M. Langemeier, D.R. Eborn, G.E. Freneau, D.M. Grieger, M.L. Ahnström, M. Seyfert, M.C. Hunt, D.E. Johnson, S.M. Ryan, R.A. Mancini, L. Veloso, J.A. Unruh KS Agric. Exp. Stn. Report of Progress 959, Mar. 2006	06-367-J	What determines productivity growth of agricultural cooperatives? C.B. Ariyaratne, A.M. Featherstone, M.R. Langemeier J. of Agricultural and Applied Economics, 38:47-60, 2006
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T.C. Willson, A.J. Schlegel, N.L. Klocke, T. Dumler, M. Alam

Agronomy Abstracts: 2004 Annual Meetings, American Society of Agronomy

Development of sustainable cropping systems in the High Plains

J.E. Sanchez, T.C. Willson, W.A. Payne, A.F. Cibils, K. Larson

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Introducing legume cover crops into large scale grain-cattle production systems

S.D. Kraich, J.E. Sanchez, T.C. Willson, C.A. Strasia, C. Raines, C. Bensch, M. Lamar, J. Nusz

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Fecal bacteria source tracing and abatement in the "Beef Empire" of SW Kansas

T.C. Willson, R.L. Frisbie, G.L. Marchin

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Water quality and quantity issues associated with irrigated alfalfa production in southwest Kansas

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Competing Priorities, Resolving Conflicts: Proceedings of the 20th Annual Water and the Future of Kansas Conference

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