



# DIRECTOR'S REPORT OF RESEARCH IN KANSAS 2015

JULY 1, 2014–JUNE 30, 2015

**K-STATE**  
Research and Extension



# Letter of Transmittal

Office of the Director

To the Honorable Sam Brownback, 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, 2015. This report contains the title, author, and publication information for manuscripts published by station scientists. The report was published only in electronic format.

John D. Floros, Ph.D.  
Director, K-State Research and Extension  
Dean, College of Agriculture

## A Message from the Director

It is a pleasure to provide the 2015 Director's Report of Research in Kansas. The report documents our current research programs 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. This reduces printing costs and makes the report accessible to a broader audience.

The 2015 Director's Report of Research in Kansas includes a list of journal articles, station publications, and other published manuscripts from scientists in our departments, research stations, and associated programs.

The Agricultural Experiment Station serves as the research component of K-State Research and Extension. During our strategic planning process, we received input from 5,000 stakeholders to determine five grand challenges facing Kansans — global food systems, water, health, developing tomorrow's leaders, and community vitality. Our research programs provide the latest information through our statewide extension network to address those challenges.

John D. Floros, Ph.D.  
Director, K-State Research and Extension  
Dean, College of Agriculture



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## PDF Search Tips

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## A Message from the Associate Director of Research

The Hatch Act established the Kansas Agricultural Experiment Station in 1887 as the food, agriculture, and natural resources research component of Kansas State University, the state’s only land-grant university.

Our statewide network of centers and experiment fields allows our faculty to evaluate crop and livestock production systems across a wide range of environmental conditions.

Southeast Kansas is approximately 2,000 feet lower in elevation, receives almost 25 inches more precipitation per year, and the temperature averages about six degrees warmer than northwest Kansas. To be successful, producers must have access to crop varieties and management strategies developed for their local climate and soil conditions. Researchers work closely with farmers and ranchers to ensure that projects directly relate to local needs.

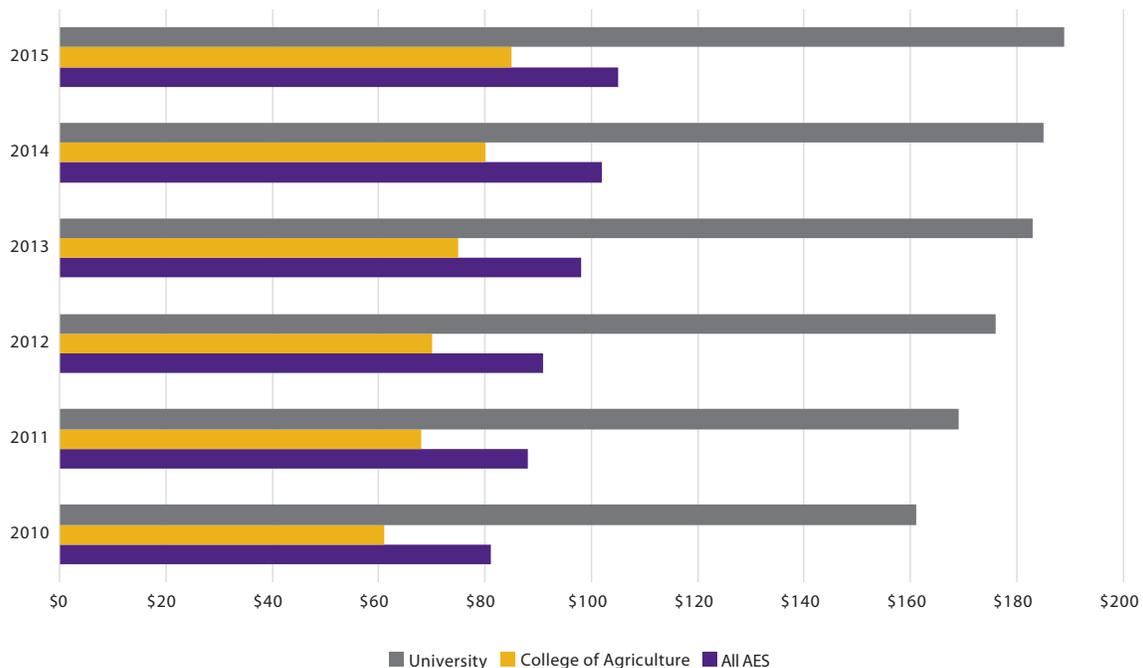
K-State’s Agricultural Experiment Station funds research in 20 academic departments across five colleges on three campuses. In addition to long-term research projects on livestock and crop breeding, scientists are looking at new ways to control pests and diseases, emerging technologies to save water and energy, food safety, postharvest storage, weed control, and more.

As Kansas’ largest employer, agriculture contributes 43 percent of the state’s economy. More than 234,000 people are involved in the production, distribution, and transportation of agricultural products. Our research focuses on the agricultural industry and helping it grow in a sustainable manner.

Kansas Agricultural Experiment Station research expenditures — all funds used to produce research outcomes — represent the majority of Kansas State University’s total research effort. Funds are usually awarded through a highly competitive federal grant system.

J. Ernest Minton  
 Associate Director, Research, K-State Research and Extension  
 Associate Dean, Research and Graduate Programs, College of Agriculture

**Agricultural Experiment Station and University Research Expenditures (in millions)**



## Making a State Impact



### ***Drop by precious drop: Researchers and farmers work together***

From Kansas City to Liberal, we're reliant on farmers to help grow the world's food supply and contribute to the \$64.6 billion that agriculture brings to the state's economy. But growing crops requires water, which is in short supply and growing scarcer in parts of the state.

Kansas State University researchers and Kansas farmers are collaborating to determine if a new technology, mobile drip irrigation (MDI), works well enough to merit the upfront purchase and maintenance costs of installation on farms on a broad scale.

Mobile drip irrigation brings together existing technology — center pivot systems that are highly visible in some parts of the state — with new hose-like products called drip irrigation lines, said Danny Rogers, K-State Research and Extension irrigation engineer.

With the widely used center-pivot systems, water is sprayed either above or within the canopy of the crop that's being irrigated. Some of the water stays on leaves or is lost to evaporation before it reaches the ground, possibly as much as 20 percent. By adding drip lines, which drag along the soil surface, less water is lost to evaporation and more is available for plants' roots.

"It started with a question," extension water resource engineer Jonathan Aguilar said of how K-State scientists and farmers began working together to test the new irrigation method. He and other K-State researchers were already studying the new technology on a limited scale on university property near Garden City. But first one farmer, then another asked the researchers if the technology worked as well as manufacturers claimed — especially for large-scale farming.

Ensuing discussions, which included the Kansas Water Office and Kansas Department of Agriculture, led to establishing three water-technology demonstration farms in 2016 — all on privately owned farmland. K-State is now conducting multiyear MDI equipment studies with various crops and soil types on two farms near Garden City and one near Larned.

Garden City overlies the Ogallala Aquifer, a massive underground water source that is increasingly being depleted, and Larned is over the Big Bend Prairie Aquifer.

"Part of the work is focused on education," Aguilar said. To help show farmers and others how the technology may be used and shed light on the research that's underway, K-State Research and Extension and the Kansas Water Office hosted field days on the three farms in 2016. The events drew more than 350 people, about twice as many at each site than a normal educational event. More such events are planned in upcoming years.

Pictured at left is Isaya Kisekka, research water resource engineer at the Southwest Research Extension Center in Garden City. Kisekka is one of the many faculty members working on this project in the Garden City area.

# 22

*Watershed Restoration and Protection Strategy (WRAPS) plans developed and implemented (2010–2016)*

# 56

*Mesonet weather data stations available throughout the state*

# Research Components of the Kansas Agricultural Experiment Station

(see map, next page)

## **Academic Departments**

### **College of Agriculture**

Agricultural Economics  
Agronomy  
Animal Sciences and Industry  
Communications and Agricultural Education  
Entomology  
Grain Science and Industry  
Horticulture and Natural Resources  
Plant Pathology

### **College of Arts and Sciences**

Biochemistry and Molecular Biophysics  
Biology  
Sociology, Anthropology, and Social Work  
Statistics

### **College of Engineering**

Biological and Agricultural Engineering  
Chemical Engineering

### **College of Human Ecology**

Apparel, Textiles, and Interior Design  
Hospitality Management  
Food, Nutrition, Dietetics and Health

### **College of Veterinary Medicine**

Anatomy and Physiology  
Clinical Sciences  
Diagnostic Medicine/Pathobiology

## **Research Centers**

Agricultural Research Center  
(Hays, HB Ranch, and Saline Experimental Range)  
John C. Pair Horticultural Center (Haysville)  
K-State Research and Extension Center  
for Horticultural Crops (Olathe)  
Northwest Research-Extension Center (Colby)  
Southeast Agricultural Research Center (Parsons,  
Columbus, Mound Valley)  
Southwest Research-Extension Center (Garden City)  
Southwest Research-Extension Center (Tribune)

## **Experiment Fields**

East Central – Ottawa  
Kansas River Valley – Rossville, Topeka  
North Central and Irrigation – Belleville, Scandia  
Pecan Field – Chetopa  
South Central – Hutchinson

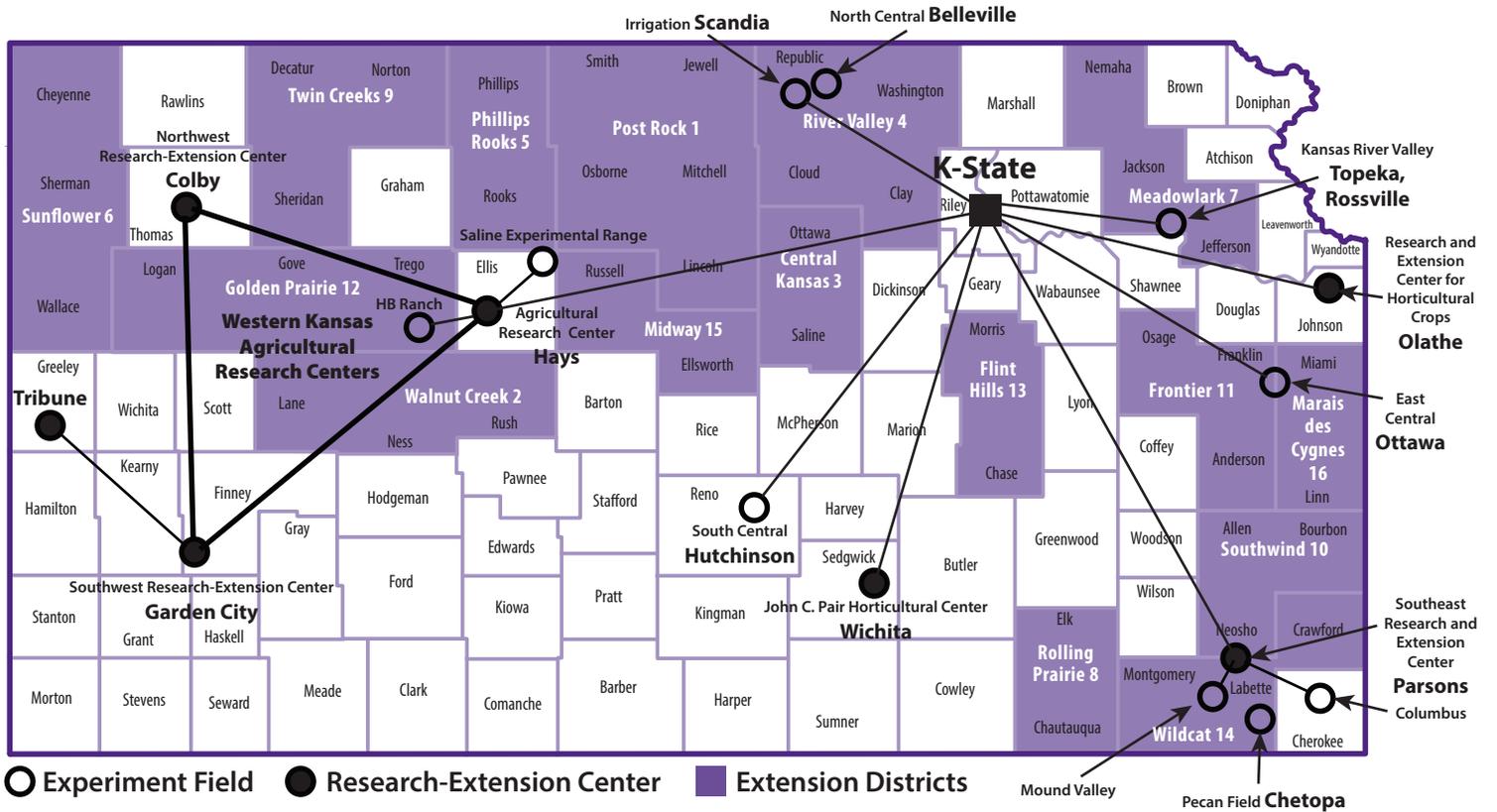
## **Associated Programs**

Bioprocessing and Industrial Value Added Products  
Center for Biobased Products by Design  
Center for Sustainable Energy  
Food Science Institute  
Great Plains Diagnostic Network  
Center for Sorghum Improvement  
IGP Institute  
K-State Libraries  
Kansas Agriculture and Rural Leadership  
Kansas Center for Agricultural Resources  
and the Environment  
Kansas Center for Sustainable Agriculture  
and Alternative Crops  
Kansas Water Resources Institute  
Konza Prairie Biological Station  
National Science Foundation Industry/University  
Cooperative Research for Wheat Genetics  
Plant Biotechnology Center  
Veterinary Diagnostic Laboratory  
Weather Data Library  
Wheat Genetics Resource Center

## **USAID Feed the Future Innovation Labs**

Applied Wheat Genomics  
Reduction of Post-Harvest Loss  
Sorghum and Millet  
Sustainable Intensification

# Kansas State University Agricultural Research Locations



# Station Publications

## Reports of Progress

SRP 1107	K-State Turfgrass Research 2014
SRP 1108	2014 Kansas Performance Tests with Winter Wheat Varieties
SRP 1109	2014 Kansas Performance Tests with Corn Hybrids
SRP 1110	Swine Day 2014
SRP 1111	Dairy Research 2014
SRP 1112	2014 Kansas Performance Tests with Soybean Varieties
SRP 1113	2014 Kansas Performance Tests with Grain Sorghum Hybrids
SRP 1114	2014 Kansas Performance Tests with Sunflower Hybrids
SRP 1116	2014 National Winter Canola Variety Trial
SRP 1117	2015 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland *Cattlemen's Day 2015 Field Research 2015 Kansas Fertilizer Research 2015 Roundup 2015, Agricultural Research Center-Hays 2015 Agricultural Research, Southeast Agricultural Research Center Field Day 2015, Southwest Research-Extension Center

## Special Publications

DRR14	Director's Report of Research in Kansas 2014
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## Understanding Contribution Numbers

Contribution numbers have three parts:

- The first two digits denote the year (state fiscal) of assignment.
- The second set of digits identifies the manuscript (numbered consecutively throughout the year).
- The suffix letter identifies the type of publication.

- 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 at:

<http://newprairiepress.org/kaesrr/>  
<http://www.bookstore.ksre.ksu.edu/>

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. Some citations include a digital object identifier (doi) for use in retrieving manuscripts online. To locate an object using its doi, simply paste the doi into your browser or visit <http://dx.doi.org/>.

\*As of March of 2015, Kansas Agricultural Experiment Station reports are posted at <http://newprairiepress.org/kaesrr/>. These reports no longer have "SRP" numbers. They are now listed by volume and issue (2015 Cattlemen's Day Research, Volume 1, Issue 1; <http://newprairiepress.org/kaesrr/vol1/iss1/>). Recommended citations and DOI numbers are listed with each report.

### Recommended Citation

Vesco, A. C.; Sexten, A. K.; Weibert, C. S.; Oleen, B. E.; Hollenbeck, W. R.; Grimes, L. C.; and Blasi, Dale (2015) "Evaluation of the Productivity of a Single Subcutaneous Injection of LongRange in Stocker Calves Compared With a Positive (Dectomax) and a Negative (Saline) Control," Kansas Agricultural Experiment Station Research Reports: Vol. 1: Iss. 1. <http://dx.doi.org/10.4148/2378-5977.1018>

## **Agricultural Economics**

- 14-346-T Overview of the Results of the Population-Based Survey of Northern Ghana, 2012  
V. Amanor-Boadu  
Monitoring, Evaluation and Technical Support Services (METSS), U.S. Agency for International Development (USAID), 2012
- 15-003-D Staff, programs, and publications in agricultural economics, Kansas State University, 2013  
D. Foster  
Department Staff Paper, 15-01  
SP15-01(2013):1-47
- 15-072-J Introduction of electronic combinatorial auction to a food manufacturer  
K.D. Harris, A. Biere  
International Food and Agribusiness Management Review, 2014  
17(3): 171-186
- 15-080-J Consumer Responses to Multiple and Superfluous Labels in the Case of Eggs  
Y. Heng, H.H. Peterson, and X. Li  
2016 Journal of Food Distribution Research  
47(2016)2
- 15-082-J Regression estimates of different land type prices and time adjustments  
B. Wilson, B. Schurle, M. Taylor, A. Featherstone, and G. Ibendahl  
Journal of the American Society of Farm Managers and Rural Appraisers, 2014  
192-203
- 15-085-J The effects of policy expectations on crop supply, with an application to base updating  
N.P. Hendricks, D.A. Sumner  
American Journal of Agricultural Economics, 2014  
96(3):903-923
- 15-086-J Crop supply dynamics and the illusion of partial adjustment  
N.P. Hendricks, A. Smith, and D.A. Sumner  
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96(5):1469-1491  
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- 15-087-J Futures prices in supply analysis: Are instrumental variables necessary?  
N.P. Hendricks, J.P. Janzen, A. Smith  
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N.P. Hendricks, S. Sinnathamby, K. Douglas-Mankin, A. Smith, D.A. Sumner, and D.H. Earnhart  
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- 15-116-J Registration of nine grain sorghum seed parent (A/B) lines  
R. Perumal, T. Tesso, K.D. Kofoid, P.V.V. Prasad, R.M. Aiken, S.R. Bean, J.D. Wilson, T.J. Herald, and C.R. Little  
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May 2015, Vol. 9 No. 2, p. 244-248  
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- 15-161-J Cost efficiency changes and adoption of biotechnology enhanced soybeans in Kansas  
S.M. Funk, J.S. Bergtold  
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98-107
- 15-162-J Crop machinery benchmarks  
M. Langemeier, G. Ibendahl  
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204-213

- 15-163-J Characteristics that help a farm achieve long-term viability  
G. Ibendahl, M. Langemeier  
Journal of the American Society of Farm Managers and Rural Appraisers, 2014  
240-250
- 15-164-J Revealed demand for country-of-origin labeling of meat in the United States  
M. Taylor, G. Tonsor  
Journal of Agricultural and Resource Economics  
38(2):235-247, 2013
- 15-165-J Dairy farmer policy preferences  
C. Wolf, G. Tonsor  
Journal of Agricultural and Resource Economics, 2013  
38(2):220-234, 2013
- 15-296-A Using the K-State center pivot sprinkler and SDI economic comparison spreadsheet - 2015  
F.R. Lamm, D. O'Brien, and D.H. Rogers  
Proceedings of the 27th Annual Central Plains Irrigation Conference, Colby, Kansas, February 17-18, 2015, Pages 161-168
- 15-303-D Staff, programs, and publications in agricultural economics, Kansas State University, 2014  
D. Foster  
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SP15-02(2014):1-45
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- 13-279-J Some Biological Properties of Isolates of *Triticum* mosaic virus From the Great Plains states of the USA  
D.L. Seifers, S. Wegulo, G. Hein, G. Byamukama, E. De Wolf, N. Tisserat, and M. Langham  
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- 13-309-J Performance evaluation of AR4 Climate Models in simulating daily precipitation over the Indian region using skill scores  
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- 13-317-J Physiological differences among sorghum (*Sorghum bicolor* L. Moench) genotypes under high temperature stress  
D. Maduraimuthu, P.V.V. Prasad, M. Marimuthu, R. Perumal, and U.K. Reddy  
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<http://dx.doi.org/10.1016/j.envexpbot.2013.11.013>
- 13-377-J Integrating resistance and tolerance for improved evaluation of sorghum lines against Fusarium stalk rot and charcoal rot  
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- 14-093-J Paternal effects correlate with female reproductive stimulation in the polyandrous ladybird *Cheilomenes sexmaculata*  
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Vol. 9 No. 2, p. 190-195, 2015  
doi:10.3198/jpr2014.04.0023crc
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E.A. Bailey, J.R. Jaeger, T.B. Schmidt, J.W. Waggoner, L.A. Pacheco, D.U. Thomson, and K.C. Olson  
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doi:10.15232/pas.2014-01348
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Multiple authors  
Coordinating author, J. Lingenfelser  
Kansas Agricultural Experiment Station  
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- 15-017-S 2014 Kansas performance tests with corn hybrids  
Multiple authors  
Coordinating author, J. Lingenfelser  
Kansas Agricultural Experiment Station  
Report of Progress 1109, November 2014
- 15-018-S 2014 Kansas performance tests with soybean varieties  
Multiple authors  
Coordinating author, J. Lingenfelser  
Kansas Agricultural Experiment Station  
Report of Progress 1112, December 2014
- 15-019-S 2014 Kansas performance tests with grain sorghum hybrids  
Multiple authors  
Coordinating author, J. Lingenfelser  
Kansas Agricultural Experiment Station  
Report of Progress 1113, November 2014
- 15-020-S 2014 Kansas performance tests with sunflower hybrids  
Multiple authors  
Coordinating author, J. Lingenfelser  
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Report of Progress 1114, January 2015
- 15-065-J Consultant's perspective on the evolution and management of glyphosate-resistant kochia (*Kochia scoparia*) in western Kansas  
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R. Perumal, T. Tesso, K.D. Kofoid, P.V.V. Prasad, R.M. Aiken, S.R. Bean, J.D. Wilson, T.J. Herald, and C.R. Little  
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- 15-178-S 2015 Chemical weed control for field crops, pastures, rangeland, and noncropland  
Multiple authors; coordinating author  
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SRP1117  
<http://www.bookstore.ksre.ksu.edu/Item.aspx?catId=236&pubId=18279>
- 15-187-J Genetic analysis of threshability in grain sorghum [*Sorghum bicolor* (L) Moench]  
A. Adeyanju, R. Perumal, and T. Tesso  
Plant Breeding - Wiley Online Library  
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- 15-208-J Oilseed Camelina (*Camelina sativa* L. Crantz): Production systems, prospects and challenges in the USA Great Plains  
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- 15-265-J Animal finishing phase response to modified intensive-early stocking on shortgrass rangeland  
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Geoderma 277: 1-9, May 2016  
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K.L. White, J.M. Bormann, K.C. Olson, J.R. Jaeger, S. Johnson, B. Downey, D.M. Grieger, J.W. Waggoner, D.W. Moser, and R.L. Weaver  
Journal of Animal Science  
December 2015  
doi:10.2527/jas.2015-9327
- 15-393-S Kansas Field Research, Kansas River Valley  
Multiple authors; coordinating author  
E. Adee, D.A. Ruiz Diaz  
Kansas Agricultural Experiment Station  
Research Reports  
Vol. 1, Issue 2, 2015  
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- 15-394-S Kansas Fertilizer Research  
Multiple authors; coordinating author  
D.A. Ruiz Diaz  
Kansas Agricultural Experiment Station  
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- 15-396-S Southwest Research Extension Center Field Day  
Multiple authors; coordinating author  
R. Currie  
Kansas Agricultural Experiment Station  
Research Reports, V. 1, I. 5, 2015  
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- 15-411-J Wheat streak mosaic virus resistance in eight wheat germplasm lines  
X. Zhang, G. Bai, R. Xu, and G. Zhang  
Phytopathology  
Plant Breeding, 135, 26-30 (2016)  
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## Agronomy

- 13-156-J Partitioning hydraulic resistance in *Sorghum bicolor* leaves reveals unique correlations to stomatal conductance during drought  
T.W. Ocheltree, J.B. Nippert, M.B. Kirkham, and P.V.V. Prasad  
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41(1) 25-36  
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