



DIRECTOR'S REPORT OF RESEARCH IN KANSAS 2018 AND 2019

JULY 1, 2017–JUNE 30, 2019

K-STATE
Research and Extension

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

Letter of Transmittal

Office of the Director

To the Honorable Laura Kelly, 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, 2019. This report contains the title, author, and publication information for manuscripts published by station scientists. The report was published only in electronic format.

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

A Message from the Director

It is a pleasure to provide the 2018 and 2019 Director's Report of Research in Kansas. The report documents our research programs and some of our accomplishments. K-State Research and Extension provides trusted, practical education to help individuals, businesses and communities solve problems, develop skills, and build a better future.

This report is produced and distributed in electronic format. This reduces printing costs and makes the report accessible to a broader audience.

The 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-extension centers, and associated programs.

The Kansas Agricultural Experiment Station was established in 1887 to conduct research vital to the success of Kansas. In 1914, the Kansas Cooperative Extension Service was created to disseminate research-based information to the public. 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 network to address those challenges.

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



Contents

3	<i>Letter of Transmittal</i>
4	<i>A Message from the Director</i>
6	<i>A Message from the Associate Director of Research</i>
7	<i>Making a State Impact</i>
8	<i>Research Components of the Kansas Agricultural Experiment Station</i>
9	<i>Kansas State University Agricultural Research Locations</i>
10	<i>Station Publications</i>
10	Reports of Progress
10	Special Publications
10	Understanding Contribution Numbers
11	Agricultural Economics
12	Agricultural Research Center - Hays
16	Agronomy
36	Anatomy and Physiology
38	Animal Sciences and Industry
51	Apparel, Textiles, and Interior Design
51	Biochemistry and Molecular Biophysics
52	Biological and Agricultural Engineering
55	Division of Biology
58	Clinical Sciences
58	Communications and Agricultural Education
59	Diagnostic Medicine/Pathobiology
64	Entomology
70	Food, Nutrition, Dietetics and Health
71	Grain Science and Industry
76	Horticulture and Natural Resources
79	Northwest Research-Extension Center
81	Plant Pathology
89	Southeast Research and Extension Center
91	Southwest Research-Extension Center
94	Statistics

PDF Search Tips

To find publications by a particular author, type the surname in the “find” search box in the Acrobat toolbar in this document. Use “Find Next” until all relevant publications are found.

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 nation's first operational 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.

This research helps Kansas farmers contribute to feeding a growing world population. By 2050, there will be an estimated 9.6 billion people globally. Every year, we develop and test nearly 1,000 new wheat breeding lines, tirelessly working to find only the best ones that will grow well in Kansas. A K-State wheat variety has been the top variety planted in Kansas for eight of the past nine years.

Great wheat varieties mean great harvests for Kansas farmers, which in turn benefit the local, regional and state economies.

K-State's Agricultural Experiment Station funds research in 18 academic departments across five colleges on two 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 an example of our researchers' capabilities, when it became clear that industrial hemp presented an opportunity as an alternative crop, we were able to quickly begin field trials at the John C. Pair Horticultural Center so that Kansas farmers might have the option of safely growing the crop.

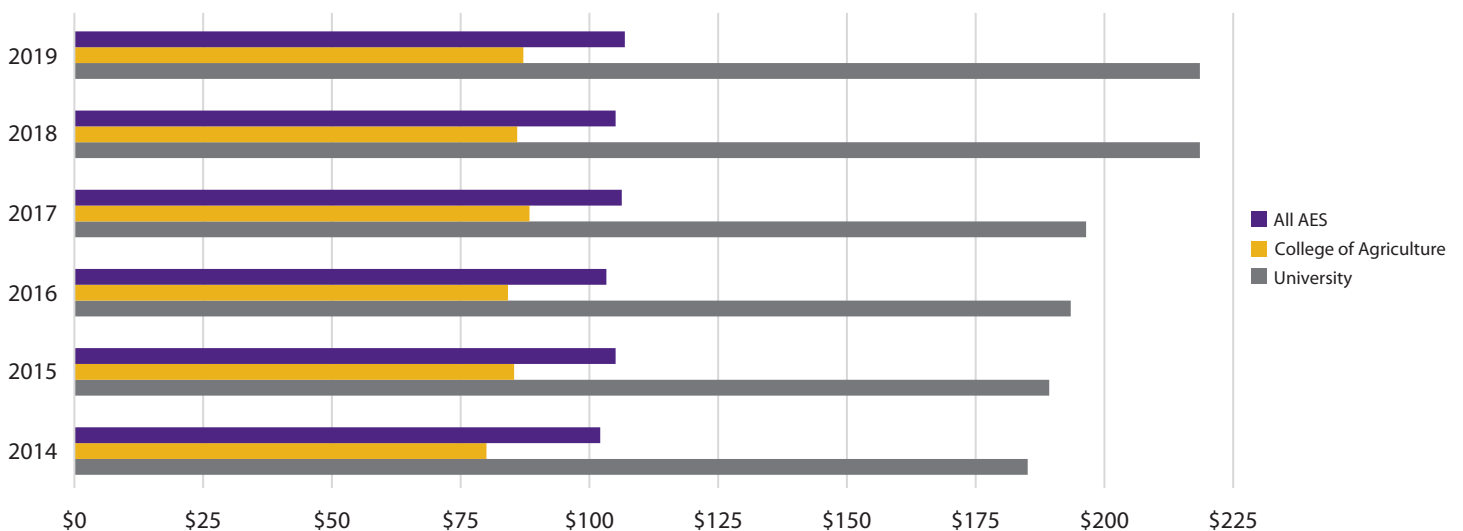
As Kansas' largest employer, agriculture contributes 43 percent of the state's economy. According to current data from the national study, Feeding the Economy, 258,670 people are directly employed in Kansas agriculture, accounting for more than \$9.26 billion in wages and \$11.2 billion in business taxes. 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.

Martin Draper
Associate Dean, Research and Graduate Studies
Director for Research



Agricultural Experiment Station and University Research Expenditures (in millions)



Making a State Impact

Kansas' Pet Food Industry Has Found Its New Best Friend

In 2012, the College of Ag launched the K-State Pet Food Program. It's the first of its kind offering education and research devoted to improving the nutrition and safety of food for pets, and endangered and captive wild animals.

Greg Aldrich, a research associate professor for the college, helped start and continues to coordinate the program. He's not hard to spot. Aldrich is the one with the silver lab, Lucre, always by his side.

In recent years, pet food has become serious business, especially in Kansas. Pet food manufacturers located within the Kansas City Animal Health Corridor had sales of \$30.6 billion in 2014. This represents 61% of the total pet food sold in the US and accounts for 49% of global pet food sales, according to the KC Animal Health Corridor's 2014 Asset Survey. The Animal Health Corridor runs from Kansas State University in Manhattan to the University of Missouri in Columbia. Between these two research universities are more than 300 companies and organizations focused on animal health and nutrition, including Hill's Pet Nutrition, Mars Petcare, Nestlé Purina PetCare and Cargill.

At K-State, Aldrich's focus is on educating students to become leaders in the pet food industry, and provide research to companies to make their pet food safer, more nutritious and have a longer shelf life.

Aldrich spent the majority of his career working in industry. After earning his PhD from the University of Illinois in animal nutrition, Aldrich joined the Iams Company and then several other companies where he formulated pet diets. From industry, Aldrich moved to consulting, particularly for small startups that are often short on equipment and research staff. His consulting often brought Aldrich to K-State.

"I was using the extrusion laboratory here on campus to make some of these products, and I started a dialogue with some of the faculty," he said.

At first, Aldrich was asked to teach one class, then two classes, and the college hired him to be a research associate professor. Aldrich is excited by his new role.



"Pet food manufacturers in the Kansas City Animal Health Corridor had sales representing 61% of the total pet food sold in the US."

"The pet food industry is going through a very transformative period," explains Aldrich. "And, the timing couldn't be better. Last year, there were more than 5,000 new pet food products introduced to the world and 475 of those new products came from the US. We're about 50 years behind in what we need to know about companion-animal nutrition, and we have a lot of consumers out there with an appetite for new and better pet food."

Aldrich believes his new role at K-State's College of Ag positions him well to help improve pet nutrition, prepare his students for outstanding careers in this industry, and support the economy of this state by helping Kansas-based pet food companies.



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
Division of Biology
Statistics

College of Engineering

Biological and Agricultural Engineering

College of Human Ecology

Apparel, Textiles, and Interior Design
Family Studies and Human Services
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)
K-State Research and Extension Center for Horticultural Crops (Olathe)
Northwest Research-Extension Center (Colby)
Southeast Research and Extension Center (Parsons, Columbus, Mound Valley)
Southwest Research Center (Tribune)
Southwest Research-Extension Center (Garden City)

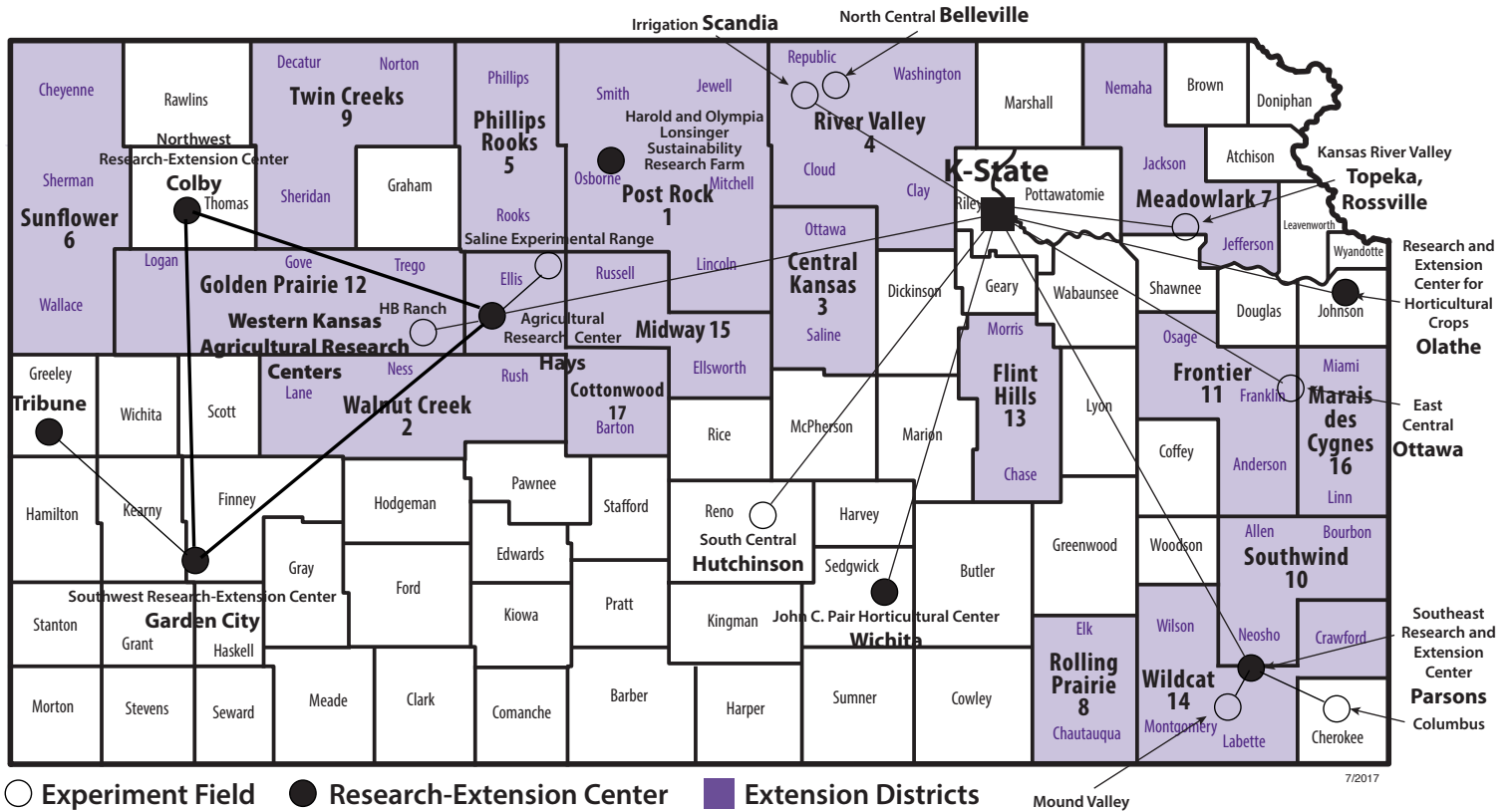
Experiment Fields

East Central (Ottawa)
John C. Pair Horticultural Center (Haysville)
Kansas River Valley (Rossville, Topeka)
North Central and Irrigation (Belleville, Scandia)
Pecan Field (Chetopa)
South Central (Hutchinson)

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



Associated Programs

- AgManager.info
- Beef Cattle Research Center
- Beef Stocker Unit
- Bio Materials and Technology Lab
- Bioprocessing and Industrial Value-Added Products
- Biosecurity Research Institute
- Cargill Feed Safety Research Center
- Center for Bio-based Products by Design
- Center for Risk Management Education and Research
- Center for Rural Enterprise Engagement
- Center for Sorghum Improvement
- Center for Sustainable Energy
- Environmental Health and Safety Office
- Food Science Institute
- Fungal Genetics Stock Center
- Grain-Feed Microbiology and Toxicology Laboratory
- Great Plains Diagnostic Network
- International Grains Program Institute
- Insect Zoo
- Hal Ross Flour Mill
- Horse Unit
- K-State Global Food Systems
- K-State Libraries
- K-State Meat Lab (cooking, sensory, color, chemistry, microbiology, customized)
- K-State Pet Food Program

- K-State Radio Network
- K-State Rapid Response Center
- Kansas Agriculture and Rural Leadership
- Kansas Center for Agricultural Resources and the Environment
- Kansas Center for Sustainable Agriculture and Alternative Crops
- Kansas Cooperative Extension Service
- Kansas FFA
- Kansas Wheat Innovation Center
- Kansas Youth Institute
- Kansas Value-Added Foods Lab
- Kansas Water Resources Institute
- Konza Prairie Biological Station
- KSRE News and Media Services
- National Science Foundation Industry/University Cooperative Research for Wheat Genetics
- O. H. Kruse Feed Technology Innovation Center
- Plant Biotechnology Center
- Sheep and Meat Goat Center
- Soil Carbon Center
- Tom Avery Poultry and Game Bird Research Unit
- University Gardens
- Veterinary Diagnostic Laboratory
- Weather Data Library
- Wheat Genetics Resource Center
- Wheat Quality Lab

Station Publications

Reports of Progress

SRP 1134	2016 National Winter Canola Variety Trials
SRP 1135	2017 Kansas Performance Tests with Winter Wheat Varieties
SRP 1136	2017 Kansas Performance Tests with Corn Hybrids
SRP 1137	2017 Kansas Performance Tests with Soybean Varieties
SRP 1138	2017 Kansas Performance Tests with Grain Sorghum Hybrids
SRP 1139	2018 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
SRP 1140	2017 Kansas Performance Tests with Sunflower Hybrids
SRP 1141	2017 National Winter Canola Variety Trials
SRP 1142	2014-2017 Field Pea Performance Test Results
SRP 1143	2018 Kansas Performance Tests with Winter Wheat Varieties
SRP 1145	2018 Kansas Performance Tests with Corn Hybrids
SRP 1146	2018 Kansas Performance Tests with Soybean Varieties
SRP 1147	2018 Kansas Performance Tests with Grain Sorghum Hybrids
SRP 1148	2019 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
SRP 1149	2018 Kansas Performance Tests with Sunflower Hybrids
SRP 1150	2018 National Winter Canola Variety Trials

Research Reports

2018 Hays Roundup Research Report

2018 and 2019 Research Reports

*Cattlemen's Day
Southeast Research and Extension Center
Agricultural Research
Kansas Turfgrass Research
Forage Report
Kansas Field Research
Kansas Fertilizer Research
Southwest Research-Extension Center
Swine Day
Dairy Research

Special Publications

DRR17 Director's Report of Research in Kansas 2017

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/>.

*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, Vol. 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

- 18-015-J Disaggregating sorghum yield reductions under warming scenarios exposes narrow genetic diversity in US breeding programs
J. Tack, J. Lingenfelter, S.V.K. Jagadish
Proceedings of the National Academy of Sciences
August 2017, Vol. 114, No. 35
www.pnas.org/cgi/doi/10.1073/pnas.1706383114
- 18-028-J The production, consumption and environmental impacts of rice hybridization in the USA
L. Nalley, J. Tack, A. Durand, G. Thoma, F. Tsiboe, A. Shew, A. Barkley
Agronomy Journal
January 2017
Vol. 109, Issue 1, Pg. 193-203
doi.org/10.2134/agronj2016.05.0281
- 18-029-A Heterogeneous yield impacts from adoption of genetically engineered corn and the importance of controlling for weather
J.L. Lusk, J. Tack, N.P. Hendricks
Agriculture Productivity and Producer Behavior
November 2019, Pg. 11-39
ISBN: 978-0-226-61980-4
- 18-151-J Irrigation offsets wheat yield reductions from warming temperatures
J. Tack, A. Barkley, N. Hendricks
Environmental Research Letter
November 2017
Vol. 12, No. 11
doi.org/10.1088/1748-9326/aa8d27
- 18-178-J Are smallholder farmers better or worse off from an increase in the international price of cereals?
T. Nakelse, T.J. Dalton, N.P. Hendricks, M. Hodjo
Food Policy
August 2018, Vol. 79, Pg. 213-223
doi.org/10.1016/j.foodpol.2018.07.006
- 18-207-J Value of arrival metaphylaxis in U.S. cattle industry
E.J. Dennis, D.L. Pendell, D.G. Renter, T.C. Schroeder
Journal of Agricultural and Resource Economics
May 2018, Vol. 43, Issue 2
<https://jareonline.org/articles/value-of-arrival-metaphylaxis-in-u-s-cattle-industry/>
- 18-218-S 2017 Kansas Performance Tests with Corn Hybrids, SRP1136
J. Lingenfelter and multiple co-authors
Kansas Agricultural Experiment Station
- 18-252-J Impact of nitrogen application rate on switchgrass yield, production costs, and nitrous oxide emissions
A. McGowan, D.H. Min, J. Williams, C. Rice
Journal of Environmental Quality
March 2018
Vol. 47, Issue 2, Pg. 228-237
doi.org/10.2134/jeq2017.06.0226
- 18-309-J Early-season stand count determination in corn via integration of imagery from unmanned aerial systems (UAS) and supervised learning techniques
S. Varela, P. Reddy Dhodda, W.H. Hsu, P.V.V. Prasad, Y. Assefa, N.R. Peralta, T. Griffin, A. Sharda, A. Ferguson, I.A. Ciampitti
Remote Sensing
February 2018
Vol. 10, Issue 2
doi.org/10.3390/rs10020343
- 18-500-J Economic value and water productivity of major irrigated crops in the Ogallala aquifer region
A. Araya, P.H. Gowda, B. Golden, A.J. Foster, J. Aguilar, R. Currie, I.A. Ciampitti, P.V.V. Prasad
Agriculture Water Management
April 2019, Vol. 214, Pg. 55-63
doi.org/10.1016/j.agwat.2018.11.015
- 18-511-J How do *E. coli* recalls impact cattle and beef prices?
D. Moon, G.T. Tonsor
Journal of Agricultural and Resource Economics
January 2020
Vol. 45, Issue 1, Pg. 92-106
[10.22004/ag.econ.298436](https://doi.org/10.22004/ag.econ.298436)

- 18-520-J From field experiments to regional forecasts: upscaling wheat grain and forage yield response to acidic soils
R.P. Lollato, T.E. Ochsner, D.B. Arnall, T. Griffin, J.T. Edwards
Agronomy Journal
January 2019
Vol. 111, Issue 1, Pg. 287-302
doi.org/10.2134/agronj2018.03.0206
- 19-092-J The potential implications of 'Big Ag Data' for USDA forecasts
J. Tack, K.H. Coble, R. Johansson, A. Harri, B.J. Barnett
Applied Economics Perspectives and Policy
December 2019
Vol. 41, Issue 4, Pg. 668-683
doi.org/10.1093/aep/ppy028
- 19-093-J Warming temperatures will likely induce higher premium rates and government outlays for the US crop insurance program
J. Tack, K. Coble, B. Barnett
Agricultural Economics
September 2018
Vol. 49, Issue 5, Pg. 635-647
doi.org/10.1111/agec.12448
- 19-094-J Is another genetic revolution needed to offset climate change impacts for US maize yields?
A. Ortiz-Bobea, J. Tack
Environmental Research Letters
November 2018
Vol. 13, No. 12
- Agricultural Research Center - Hays**
- 18-016-J Sustainable production of microbial lipids from lignocellulosic biomass using oleaginous yeast cultures
J.-E. Lee, P.V. Vadlani, D. Min
Journal of Sustainable Bioenergy Systems
March 2017
Vol. 7, Pg. 36-50
doi: 10.4236/jsbs.2017.71004
- 18-018-S 2017 Kansas Performance Tests with Winter Wheat Varieties, SRP1135
J. Lingenfelter and multiple co-authors
Kansas Agricultural Experiment Station
- 18-034-J QTL mapping of pre-harvest sprouting resistance in a white wheat cultivar Danby
M. Shao, G. Bai, T.W. Rife, J. Poland, M. Lin, S. Liu, H. Chen, T. Kumssa, A. Fritz, H. Trick, Y. Li, G. Zhang
Theoretical and Applied Genetics
June 2018
Vol. 131, Vol. 8, Pg. 1683-1697
doi.org/10.1007/s00122-018-3107-5
- 18-095-S 2017 Southwest Research-Extension Center Research Report
B. Gillen and multiple co-authors
Kansas Agricultural Experiment Station
Vol. 3, Issue 5
newprairiepress.org/kaesrr/vol3/iss5/
- 18-096-J Serum and plasma metabolites associated with postpartum ovulation and pregnancy risks in suckled beef cows subjected to artificial insemination
S.L. Hill, K.C. Olson, J. R. Jaeger, J.S. Stevenson
Journal of Animal Science
2018
Vol. 57, Issue 3, Pg. 258-272
doi.org/10.1093/jas/skx033
- 18-116-J Forage and seed production potential, nutritive value, and fatty acid profile of fenugreek
M. Anowarul Islam, A.K. Obour, D.C. Rule, M. Bandara, S.N. Acharya
Crop Science
June 2017
Vol. 108, Issue 2, Pg. 1764-1772
doi.org/10.2135/cropsci2016.08.0685
- 18-117-J Managing harvest time to control pod shattering in oilseed camelina
H.Y. Sintim, V.D. Zheljzkov, A.K. Obour, A.G. y Garcia
Agronomy Journal
March 2016
Vol. 108, Issue 2, Pg. 656-661
doi.org/10.2134/agronj2015.0300
- 18-118-J Evaluating agronomic responses of camelina to seeding date under rain-fed conditions
H.Y. Sintim, V.D. Zheljzkov, A.K. Obour, A.G. y Garcia, T.K. Foulke
Agronomy Journal
January 2016
Vol. 108, Issue 1, Pg. 349-357
doi.org/10.2134/agronj2015.0153

- 18-120-J Nitrogen application in sainfoin under rain-fed conditions in Wyoming: Productivity and cost implications
H.Y. Sintim, A.T. Adjesiwor, V.D. Zheljaskov, M. Anowarul Islam, A.K. Obour
Agronomy Journal
January 2016
Vol. 108, Issue 1, Pg. 294-300
doi.org/10.2134/agronj2015.0317
- 18-121-J Influence of nitrogen and sulfur application on camelina performance under dryland conditions
H.Y. Sintim, V.D. Zheljaskov, A.K. Obour, A.G. y Garcia, T.K. Foulke
Industrial Crops & Products
August 2015
Vol. 70, Pg. 253-259
doi.org/10.1016/j.indcrop.2015.03.062
- 18-122-J Hydrodistillation time affects dill seed essential oil yield, composition, and bioactivity
H.Y. Sintim, A. Burkhardt, A. Gawde, C.L. Cantrell, T. Astatkie, A.E. Obour, V.D. Zheljaskov, V. Schlege
Industrial Crops & Products
January 2015
Vol. 63, Pg. 190-196
doi.org/10.1016/j.indcrop.2014.09.058
- 18-131-J Soil nutrients status after fifty years of tillage and nitrogen fertilization
M.M. Mikha, A.K. Obour, J.D. Holman
Communications in Soil Science and Plant Analysis
July 2018
Vol. 49, Issue 16, Pg. 1953-1975
doi.org/10.1080/00103624.2018.1492599
- 18-163-J Seed yield and oil quality as affected by Camelina cultivar and planting date
E. Obeng, A.K. Obour, N.O. Nelson, J.A. Moreno, I.A. Ciampitti, D. Wang, T.P. Durrett
Journal of Crop Improvement
January 2019
Vol. 33, Issue 2, Pg. 202-222
doi.org/10.1080/15427528.2019.1566186
- 18-167-J High-polyphenol sorghum bran extract inhibits cancer cell growth through ROS induction, cell cycle arrest, and apoptosis
D. Smolensky, D. Rhodes, D.S. McVey, Z. Fawver, R. Perumal, T. Herald, L. Noronha
Journal of Medicinal Food
October 2018
Vol. 21, No. 10
doi.org/10.1089/jmf.2018.0008
- 18-191-J Evaluating grain sorghum hybrids for tolerance to iron chlorosis
A. Obour, A. Schlegel, R. Perumal, J. Holman, D. Ruiz Diaz
Journal of Plant Nutrition
January 2019
Vol. 42, Issue 4, Pg. 401-409
doi.org/10.1080/01904167.2018.1549677
- 18-198-J Tall wheatgrass and western wheatgrass for complementary cool-season forage systems
K. Harmony, J. Jaeger
Crop, Forage, and Turfgrass Management
January 2019
Vol. 5, No. 1
doi:10.2134/cftm2018.08.0065
- 18-203-T Is ecotype difference in switchgrass a reflection of photosynthetic efficiency?
D.D. Serba, M.C. Saha, S. Rao Uppalapati
Atlas of Science
November 2017
- 18-215-S 2018 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
C.R. Thompson, D.E. Peterson, W.H. Fick, R.S. Currie, V. Kumar, J.W. Slocombe
SRP1139
Kansas Agricultural Experiment Station
- 18-221-J Registration of six grain sorghum pollinator (R) lines
R. Perumal, T. Tesso, K.D. Kofoid, R.M. Aiken, P.V.V. Prasad, S.R. Bean, J.D. Wilson, T.J. Herald, C.R. Little
Journal of Plant Registration
December 2018
Vol. 13, No. 1, Pg. 113-117
doi:10.3198/jpr2017.12.0087crp

- 18-228-J Seeding rate and nitrogen application effects on oat forage yield and nutritive value
A.K. Obour, J.D. Holman, A.J. Schlegel
Journal of Plant Nutrition
May 2019
Vol. 42, Issue 13, Pg. 1452-1460
doi.org/10.1080/01904167.2019.1617311
- 18-278-S 2017 Kansas Performance Tests with Sunflower Hybrids, SRP1140
J. Lingenfelter and multiple co-authors
Kansas Agricultural Experiment Station
- 18-344-S 2018 Hays Roundup Research Report
Keith Harmony and multiple co-authors
Kansas Agricultural Experiment Station
Vol. 4, Issue 2
newprairiepress.org/kaesrr/vol4/iss2/
- 18-365-J Integrated aerial and destructive phenotyping differentiates chilling stress tolerance during early seedling growth in sorghum
A. Chilawal, R. Bhemanahalli, R. Perumal, A.R. Asebedo, E. Bashir, A. Lamsal, D. Sebelo, N.J. Shetty, S.V.K. Jagadish
Field Crops Research
October 2018
Vol. 227, Pg. 1-10
doi.org/10.1016/j.fcr.2018.07.011
- 18-372-J Differential germination characteristics of dicamba-resistant kochia (*Bassia scoparia*) populations in response to temperature
V. Kumar, P. Jha, C.A. Lim, P.W. Stahlman
Weed Science
November 2018
Vol. 66, Issue 6, Pg. 721-178
doi.org/10.1017/wsc.2018.54
- 18-373-J Genome comparison implies the role of Wsm2 in membrane trafficking and protein degradation
G. Zhang and Z. Hua
PeerJ
April 2018
Vol. 6
doi.org/10.7717/peerj.4678
- 18-384-J Great plains yucca (*Yucca glauca*) control on shortgrass rangelands
W.H. Fick, K. Harmony
Weed Technology
November 2018
Vol. 33, Issue 1, Pg. 192-295
doi.org/10.1017/wet.2018.85
- 18-408-J Imputation accuracy of wheat genotyping-by-sequencing (GBS) data using barley and wheat genome references
H. Alipour, G. Bai, G. Zhang, M.R. Bihamta, V. Mohammadi, S.A. Peyghambari
PLoS ONE
January 2019
Vol. 14, Issue 1
doi.org/10.1371/journal.pone.0208614
- 18-490-B Agroclimatology of oats, barley and minor millets
M. Djanaguiraman, P.V.V. Prasad, Z.P. Stewart, R. Perumal, D. Min, I. Djalovic, I.A. Ciampitti
Agroclimatology Monograph
June 2018, Vol. 60, Ch. 10
doi.org/10.2134/agronmonogr60.2018.0020
- 18-503-J Soil physicochemical properties influenced by nitrogen sources and rates in the central Great Plains
M.M. Mikha, A.K. Obour, V. Kumar, P.W. Stahlman
Journal of Soil and Water Conservation
November 2019
Vol. 74, Issue 6, Pg. 584-593
doi.org/10.2489/jswc.74.6.584
- 18-519-J Glyphosate- and dicamba-resistant genes are not linked in Kochia (*Bassia scoparia*)
J. Ou, A.K. Fritz, P.W. Stahlman, R.S. Currie, M. Jugulam
Weed Science
December 2018
Vol. 67, Issue 1, Pg. 16-21
doi.org/10.1017/wsc.2018.78
- 18-621-J Herbicide-resistant kochia (*Bassia scoparia*) in North America: A review
V. Kumar, P. Jha, M. Jugulam, R. Yadav, P.W. Stahlman
Weed Science
January 2019
Vol. 67, Issue 1, Pg. 4-15
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DIRECTOR'S REPORT OF RESEARCH IN KANSAS 2018 AND 2019

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