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Director's report of research in Kansas 2010

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Director's report of research in Kansas 2010

Abstract

This report contains the title, author, and publication information for manuscripts published by station scientists.

Keywords

Kansas; Agricultural Experiment Station; Research; Publications; Finances; Projects

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DIRECTOR'S REPORT OF RESEARCH IN KANSAS 2010

JULY 1, 2009 TO JUNE 30, 2010



KANSAS AGRICULTURAL
EXPERIMENT STATION

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, 2010. This report contains the title, author, and publication information for manuscripts published by station scientists. The report was published only in electronic format.

Gary Pierzynski
Interim Director, K-State Research and Extension
and Interim Dean, College of Agriculture

A Message from the Director

We are pleased to provide this 2010 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 2010 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.

Gary Pierzynski
Interim Director, K-State Research and Extension
and Interim Dean, College of Agriculture



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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.

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

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

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

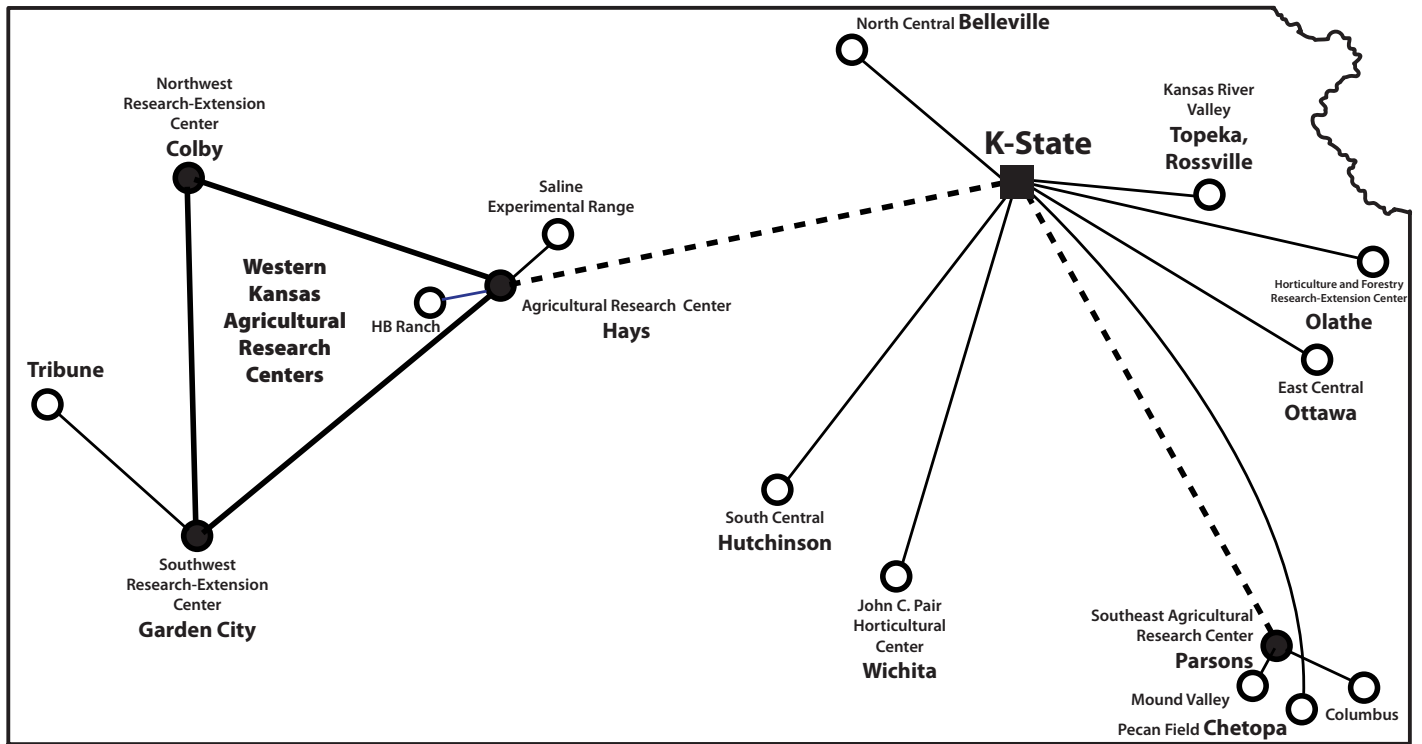
East Central - Ottawa
Kansas River Valley - Rossville, Silver Lake
North Central - Belleville
Pecan Field - Chetopa
South Central - Hutchinson

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 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
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 2010. For a full list of departments and programs of the Kansas State University 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



Station Publications

Reports of Progress

- SRP 1015 K-State Turfgrass Research 2009
(electronic only)
- SRP 1018 2009 Kansas Performance Tests with Winter
Wheat Varieties
- SRP 1019 2009 Kansas Performance Tests with Corn
Hybrids
- SRP 1020 Swine Day 2009 (electronic only)
- SRP 1021 Dairy Research 2009
- SRP 1022 2009 Kansas Performance Tests with
Soybean Varieties
- SRP 1023 2009 Kansas Performance Tests with Grain
Sorghum Hybrids
- SRP 1024 2009 Kansas Performance Tests with
Sunflower Hybrids
- SRP 1025 2009 Kansas Performance Tests with Alfalfa
Varieties
- SRP 1026 2009 National Winter Canola Variety Trial
- SRP 1027 2010 Chemical Weed Control for Field
Crops, Pastures, Rangeland, and
Noncropland
- SRP 1028 2009 Kansas Performance Tests with Cotton
Varieties
- SRP 1029 Cattlemen's Day (electronic only)
- SRP 1030 Field Research 2010 (electronic only)
- SRP 1031 Kansas Fertilizer Research 2009
(electronic only)
- SRP 1033 2010 Agricultural Research, Southeast
Agricultural Research Center
- SRP 1034 Field Day 2010, Southwest Research-
Extension Center

Special Publications

- DRR09 Director's report of research in Kansas 2009
(electronic only)

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

Publications of Station Scientists (by unit and contribution number)

Note: Manuscripts are cross-listed under all relevant units according to authors' affiliations and appointments (i.e., Kansas Agricultural Experiment Station tenths).

Administration

- 10-079-D Guidelines for exchange, increase and release of plant genetic materials developed by the Kansas Agricultural Experiment Station
E. Minton, G. Pierzynski
January 2010, 8 pp. (electronic only)
http://www.ksre.ksu.edu/library/misc2/Gen_Mat_Guidelines.pdf
- DRR09 Director's report of research in Kansas 2009
March 2010, 47 pp. (electronic only)
<http://www.ksre.ksu.edu/library/misc2/DRR09.pdf>

Agricultural Economics

- 08-341-J A note on Allen-Uzawa partial elasticities of substitution: The case of the translog cost function
A. Christev, A.M. Featherstone
Applied Economics Letters, 16(11):1165-1169, 2009
- 08-342-J The effects of decoupling on land allocation
T. Serra, D. Zilberman, J.M. Gil, A.M. Featherstone
Applied Economics, 41(18):2323-2333, 2009
- 09-077-J Effects of label information on consumer willingness-to-pay for food attributes
Z. Gao, T. Schroeder
American Journal of Agricultural Economics, 91(3):795-809, 2009
- 09-299-J Sunkist Growers: Refreshing the brand
M. Boland, V. Pozo, D. Sumner
Review of Agricultural Economics, 31(3):628-639, 2009
- 10-089-J Market power and the cattle cycle
J.M. Crespi, T. Xia, R.D. Jones
American Journal of Agricultural Economics, 92(3):685-697, 2010

- 10-098-J Comparison of returns from legumes in endophyte-infected tall fescue for hay
J.L. Moyer, K.C. Dhuyvetter, D. Shoup
Forage and Grazinglands, 2009
doi:10.1094/FG-2009-1014-01-RS
- 10-103-S Dairy Research 2009
Multiple authors
Coordinating author: J. Stevenson
KS Agric. Exp. Stn. Report of Prog. 1021, December 2009
- 10-120-J Leadership development in agricultural economics: Challenges for academic units
M.A. Boland
Journal of Agricultural and Resource Economics, 34(3):367-382, 2009
- 10-130-D Irrigation equipment cost survey in Kansas
J. Schlegel, L.J. Tsoodle
Agricultural Economics Department
Staff Paper no. 10-01, 2009, 9 pp.
- 10-153-D 2005 irrigation equipment cost survey in Kansas
J. Schlegel, L.J. Tsoodle
Agricultural Economics Department
Staff Paper no. 10-02, 2009, 9 pp.
- 10-173-J An analysis of the 2002 Farm Bill's value-added producer grants program
M.A. Boland, J.C. Crespi, D. Oswald
Journal of Agribusiness, 27(1/2):107-123, 2009

Publications without contribution numbers

- Consumer valuations of beef steak food safety enhancement in Canada, Japan, Mexico, and the United States
G.T. Tonsor, T.C. Schroeder, J.M.E. Pennings, J. Mintert
Canadian Journal of Agricultural Economics, 57(3):395-416, 2009

- Factors impacting food safety risk perceptions
G.T. Tonsor, T.C. Schroeder, J.M.E. Pennings
Journal of Agricultural Economics, 60(3):625-644, 2009
- Agronomy**
- 04-439-J Wind erodibility of organic soils
D.J. Kohake, L.J. Hagen, E.L. Skidmore
Soil Science Society of America Journal, 74:250-257, 2010
- 05-043-J Impact of M1A1 main battle tank disturbance on soil quality, invertebrates, and vegetation characteristics
P.S. Althoff, S.J. Thien
Journal of Terramechanics, 42:159-176, 2005
- 05-078-J Molecular mapping of a quantitative trait locus for aluminum tolerance in wheat cultivar Atlas 66
H-X. Ma, G-H. Bai, B.F. Carver, L-L. Zhou
Theoretical and Applied Genetics, 112:51-57, 2005
- 05-247-J Quantitative trait loci for aluminum resistance in wheat cultivar Chinese Spring
H-X. Ma, G-H. Bai, W-Z. Lu
Plant and Soil, 283:239-249, 2006
- 05-248-J Novel quantitative trait loci (QTL) for Fusarium head blight resistance in wheat cultivar Chokwang
J. Yang, G-H. Bai, G.E. Shaner
Theoretical and Applied Genetics, 111:1571-1579, 2005
- 05-336-J Main effects, epistasis, and environmental interactions of quantitative trait loci for Fusarium head blight resistance in a recombinant inbred population
H-X. Ma, G-H. Bai, X. Zhang, W-Z. L
Phytopathology, 96:534-541, 2006
- 05-337-J Marker-assisted characterization of Asian wheat lines for resistance to *Fusarium* head blight
J-B. Yu, G-H. Bai, S-B. Cai, T. Ban
Theoretical and Applied Genetics, 113(2):308-320, 2006
- 06-071-J The wind erosion prediction system: WEPS 1.0 user manual
J. Tatarko, L.E. Wagner, S. Van Donk, L.J. Hagen, F. Fox, E.L. Skidmore, G.L. Tibke
USDA publication, Engineering and Wind Erosion Research Unit
- 06-111-J Deletion of chromosome arms altered wheat resistance to Fusarium head blight and deoxynivalenol accumulation in Chinese Spring
H-X. Ha, G-H. Bai, B.S. Gill, L.P. Hart
Plant Disease, 90:1545-1549, 2006
- 06-294-J Quantitative trait loci for aluminum resistance in wheat
L-L. Zhou, G-H. Bai, H. Xiang, B.F. Carver
Molecular Breeding, 19(2):153-161, 2007
- 07-070-J Quantitative trait loci for Fusarium head blight resistance in a recombinant inbred population of Wangshuibai/Wheaton
J-B. Yu, G-H. Bai, W-C. Zhou, Y-H. Dong, F.L. Kolb
Phytopathology, 98(1):87-94, 2008
- 07-250-J Consumption of mycorrhizal and saprophytic fungi by Collembola in grassland soils
J.L. Jonas, G.W.T. Wilson, P.M. White, A. Joern
Soil Biology and Biochemistry, 39:2594-2602, 2007
- 08-106-J Erosion by wind: Modeling
L.J. Hagen
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- 08-170-J New Fusarium head blight-resistant sources from Asian wheat germplasm
J-B. Yu, G-H. Bai, S-B. Cai, Y. Hong, T. Ban
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- 08-171-J Diverse origins of aluminum-resistant sources in wheat
S-W. Hu, G-H. Bai, B.F. Carver, D. Zhang
Theoretical and Applied Genetics, 118(1):29-41, 2008
- 08-172-J Quantitative trait loci for aluminum resistance in a Chinese wheat landrace FSW
S. Cai, G-H. Bai, D. Zhang
Theoretical and Applied Genetics, 117(1):49-56, 2008
- 08-216-J Quantitative trait loci for resistance to pre-harvest sprouting in US hard white winter wheat Rio Blanco
S. Liu, S. Cai, R. Graybosch, C. Chen, G-H. Bai
Theoretical and Applied Genetics, 117(5):691-699, 2008
- 08-354-J Molecular markers for wheat leaf rust resistance gene *Lr41*
X-C. Sun, G-H. Bai, B.F. Carver, R. Bowden
Molecular Breeding, 23(2):311-321, 2009
- 08-385-J Registration of K1639-2 soybean germplasm resistant to soybean cyst nematode and soybean aphid
W.T. Schapaugh, J. Meng, T. Todd, J. Reese, J. Diaz-Montano, C.M. Smith
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- 09-045-J Nonmetric multidimensional scaling corrects for population structure in association mapping with different sample types
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- 09-065-J Estimating the saltation and suspension components from field wind erosion
L.J. Hagen, S. Van Pelt, B. Sharratt
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- 09-066-J Wheat – *thinopyrum intermedium* recombinants resistant to *wheat streak mosaic virus* and *triticum mosaic virus*
B. Friebe, L.L. Qi, D.L. Wilson, Z.J. Chang, D.L. Seifers, T.J. Martin, A.K. Fritz, B.S. Gill
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- 09-069-J Response of soil microbial and invertebrate communities to tracked vehicle disturbance in tallgrass prairie
P.S. Althoff, T.C. Todd, S.J. Thien, M.A. Callahan, Jr., P.M. White
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- 09-072-J Mineralogy and morphological properties of buried polygenetic paleosols formed in late quaternary sediments on upland landscapes of the central plains, USA
D.R. Presley, P.E. Hartley, M.D. Ransom
Geoderma, 154:508-517, 2010
- 09-080-J Effect of postemergence mesotrione application timing on grain sorghum
M.J.M. Abit, K. Al-Khatib, D.L. Regehr, M.M. Classen, P.W. Stahlman, P.W. Geier, B.W. Gordon, R.S. Currie, B.L.S. Olson
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- 09-165-J Groundnut yield response and economic benefits of fungicide and phosphorus application in farmer-managed trials in northern Ghana
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H. Blanco-Canqui, M.M. Mikha, J.G. Benjamin, L.R. Stone, A.J. Schlegel, D.J. Lyon, M.F. Vigil, P.W. Stahlman
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- 09-222-J Wheat and sorghum residue removal for expanded uses increases sediment and nutrient loss in runoff
H. Blanco-Canqui, R.J. Stephenson, N.O. Nelson, D.R. Presley
Journal of Environmental Quality, 38(6):2365-2372, 2009
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- 09-247-J Enhancement in leaf photosynthesis and upregulation of Rubisco in the C₄ sorghum plant at elevated growth carbon dioxide and temperature occur at early stages of leaf ontogeny
P.V.V. Prasad, J.C.V. Vu, K.J. Boote, L.H. Allen, Jr.
Functional Plant Biology, 36:761-769, 2009
- 09-254-J Mapping quantitative trait loci for quality factors in an inter-class cross of US and Chinese wheat
X. Sun, F. Marza, H. Ma, B.F. Carver, G. Bai
Theoretical and Applied Genetics, 120(5):1041-1051, 2010
- 09-260-J Tillage and crop rotation phase effects on soil physical properties in the west-central Great Plains
L.R. Stone, A.J. Schlegel
Agronomy Journal, 102:483-491, 2010
- 09-309-J Allelic diversities in rice starch biosynthesis lead to a diverse array of rice eating and cooking qualities
Z. Tian, Q. Qian, Q. Liu, M. Yan, X. Liu, C. Yan, G. Liu, Z. Gao, S. Tang, D. Zeng, Y. Wang, J. Yu, M. Gu, J. Li
Proceedings of the National Academy of Sciences, 106:21760-21765, 2009
- 09-338-J An improved method for screening *Fusarium* stalk rot resistance in grain sorghum [*Sorghum bicolor* (L.) Moench]
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- 09-353-J Genetic diversity and population structure analysis of accessions in the US historic sweet sorghum collection
M.L. Wang, C. Zhu, N.A. Barkley, Z. Chen, J.E. Erpelding, S.C. Murray, M.R. Tuinstra, T. Tesso, G.A. Pederson, J. Yu
Theoretical and Applied Genetics, 120:13-23, 2009
- 09-367-J Soil response to long-term cropping systems on an Argiustoll in the Central Great Plains
H. Blanco-Canqui, L.R. Stone, P.W. Stahlman
Soil Science Society of America Journal, 74:602-611, 2009
- 09-373-J The genetic architecture of maize flowering time
E.S. Buckler, J.B. Holland, P. Bradbury, C. Acharya, P. Brown, C. Browne, E. Ersoz, S. Flint-Garcia, A. Garcia, J.C. Glaubitz, M.M. Goodman, C. Hajres, K. Guill, D.E. Kroon, S. Larsson, N. Lepak, H. Li, S.E. Mitchell, G. Pressoir, J. Peiffer, M. Oropeza Rosas, T.R. Rocheford, M.C. Romay, S. Romero, S. Salvo, H. Sanchez Villeda, H. Sofia da Silva, Q. Sun, F. Tian, N. Upadyayula, D. Ware, H. Yates, J. Yu, Z. Zhang, S. Kresovich, M.M. McMullen
Science, 325:714-718, 2009

- 09-378-J Variation explained in mixed model association mapping
G. Sun, C. Zhu, S. Yang, W. Song, M.H. Kramer, H.P. Piepho, J. Yu
Heredity, 105:333-340, 2010
- 09-379-J Forage yield and quality of hard red and hard white winter wheat across cutting dates
J.D. Holman, C.R. Thompson, R.L. Hale, A.J. Schlegel
Agronomy Journal, 102(2):759-773, 2010
- 10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelser
KS Agric. Exp. Stn. Report of Prog. 1007, August 2009
- 10-040-J Planning for deficit irrigation
N.L. Klocke, R.S. Currie, L.R. Stone, D.A. Bolton
Journal of Applied Engineering in Agriculture, 26(3):405-412, 2010
- 10-041-J Technical note: Scheduling for deficit irrigation - Crop yield predictor
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Journal of Applied Engineering in Agriculture, 26(3):413-418, 2010
- 10-066-J K, Cl, and N fertilization affects grain sorghum production and stalk rot
D.W. Sweeney, D.J. Jardine, J.L. Moyer, D.A. Whitney
Crop Management, 2010
doi:10.1094/CM-2010-0126-01-RS
- 10-079-D Guidelines for exchange, increase and release of plant genetic materials developed by the Kansas Agricultural Experiment Station
E. Minton, G. Pierzynski
January 2010, 8 pp. (electronic only)
http://www.ksre.ksu.edu/library/misc2/Gen_Mat_Guidelines.pdf
- 10-133-S 2010 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
Multiple authors
Coordinating author: D. Peterson
KS Agric. Exp. Stn. Report of Prog. 1027, January 2010
- 10-135-S 2009 National Winter Canola Variety Trial
Multiple authors
Coordinating author: M. Stamm
KS Agric. Exp. Stn. Report of Prog. 1026, January 2010
- 10-151-S 2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelser
KS Agric. Exp. Stn. Report of Prog. 1019, November 2009
- 10-159-J Evaluation and characterization of sorghum biomass as feedstock for sugar production
K. Theerarattananoon, X. Wu, S. Staggenborg, J. Prophet, R. Madl, D. Wang
Transactions of the ASABE, 53(2):509-525, 2010
- 10-160-S 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelser
KS Agric. Exp. Stn. Report of Prog. 1023, December 2009
- 10-167-S 2009 Kansas Performance Tests with Soybean Varieties
Multiple authors
Coordinating author: J. Lingenfelser
KS Agric. Exp. Stn. Report of Prog. 1022, December 2009
- 10-190-J Effect of probe deflection on dual-probe heat-pulse thermal conductivity measurements
G.J. Kluitenberg, T. Kamai, J.A. Vrugt, J.W. Hopmans
Soil Science Society of America Journal, 74(5):1537-1540, 2010

10-212-S Field Research 2010
Multiple authors
Coordinating author: J. Shroyer
KS Agric. Exp. Stn. Report of Prog.
1030, April 2010

10-213-S Kansas Fertilizer Research 2009
Multiple authors
Coordinating author: D. Ruiz-Diaz
KS Agric. Exp. Stn. Report of Prog.
1031, April 2010

10-220-S 2009 Kansas Performance Tests with
Sunflower Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog.
1024, January 2010

10-221-S 2009 Kansas Performance Tests with
Alfalfa Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog.
1025, January 2010

10-257-S Agricultural Research 2010
Multiple authors
KS Agric. Exp. Stn. Report of Prog.
1033, April 2010

10-262-J Mixed linear model approach adapted
for genome-wide association studies
Z. Zhang, E. Ersoz, C-Q. Lai, R.J.
Todhunter, H.K. Tiwari, M.A. Gore,
P.J. Bradbury, J. Yu, D.K. Arnett, J.M.
Ordovas, E.S. Buckler
Nature Genetics, 42:355-360, 2010

10-293-S Field Day 2010, Southwest Research
Extension Center
Multiple authors
KS Agric. Exp. Stn. Report of Prog.
1034, June 2010

10-319-S 2009 Kansas Performance Tests with
Cotton Varieties
Multiple authors
Coordinating author: S. Staggenborg
KS Agric. Exp. Stn. Report of Prog.
1028, May 2010

10-330-J Potential availability of fertilized
selenium in field capacity and
submerged soils as measured by an
isotopic dilution technique
L. Premarathna, M.J. McLaughlin, J.K.
Kirby, G.M. Hettiarachchi, D. Beak, S.
Stacey, D.J. Chittleborough
Soil Science Society of America
Journal, 74(5):1589-1596, 2010

Publications without contribution numbers

Top-dress applications of UAN
fertilizer with herbicides on wheat
Multiple authors
Coordinating author: P.W. Stahlman
KS Agric. Exp. Stn. MF2903, 2009

Anatomy and Physiology

09-212-J Testosterone upregulates anion
secretion across porcine vas deferens
epithelia in vitro
F. Pierucci-Alves, C.L. Duncan, B.D.
Schultz
Biology of Reproduction, 81(4):628-
635, 2009

09-337-J Porcine vas deferens luminal pH is
acutely increased by systemic xylazine
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F. Pierucci-Alves, C.L. Duncan, J.D.
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Cultured mammary epithelial
monolayers (BME-UV) express
functional organic anion and cation
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M.M. Al-Bataineh, D. van der Merwe,
B.D. Schultz, R. Gehring
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