



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



Contents

Research Components of the Kansas Agricultural Experiment Station.....1	Diagnostic Medicine/Pathobiology.....21
Station Publications3	Entomology.....23
Publications of Station Scientists.....4	Food Science Institute.....26
Administration4	Geography.....26
Agricultural Economics4	Grain Science and Industry.....26
Agronomy5	Horticulture, Forestry and Recreation Resources29
Anatomy and Physiology.....9	Hospitality Management and Dietetics29
Animal Sciences and Industry10	Human Nutrition29
Apparel, Textiles, and Interior Design.....14	Plant Pathology30
Biochemistry.....15	Statistics34
Biological and Agricultural Engineering.....16	Agricultural Research Center–Hays35
Biology.....18	Northwest Research-Extension Center37
Chemical Engineering.....20	Southeast Agricultural Research Center38
Clinical Sciences.....21	Southwest Research-Extension Center39
Computer Science.....21	

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

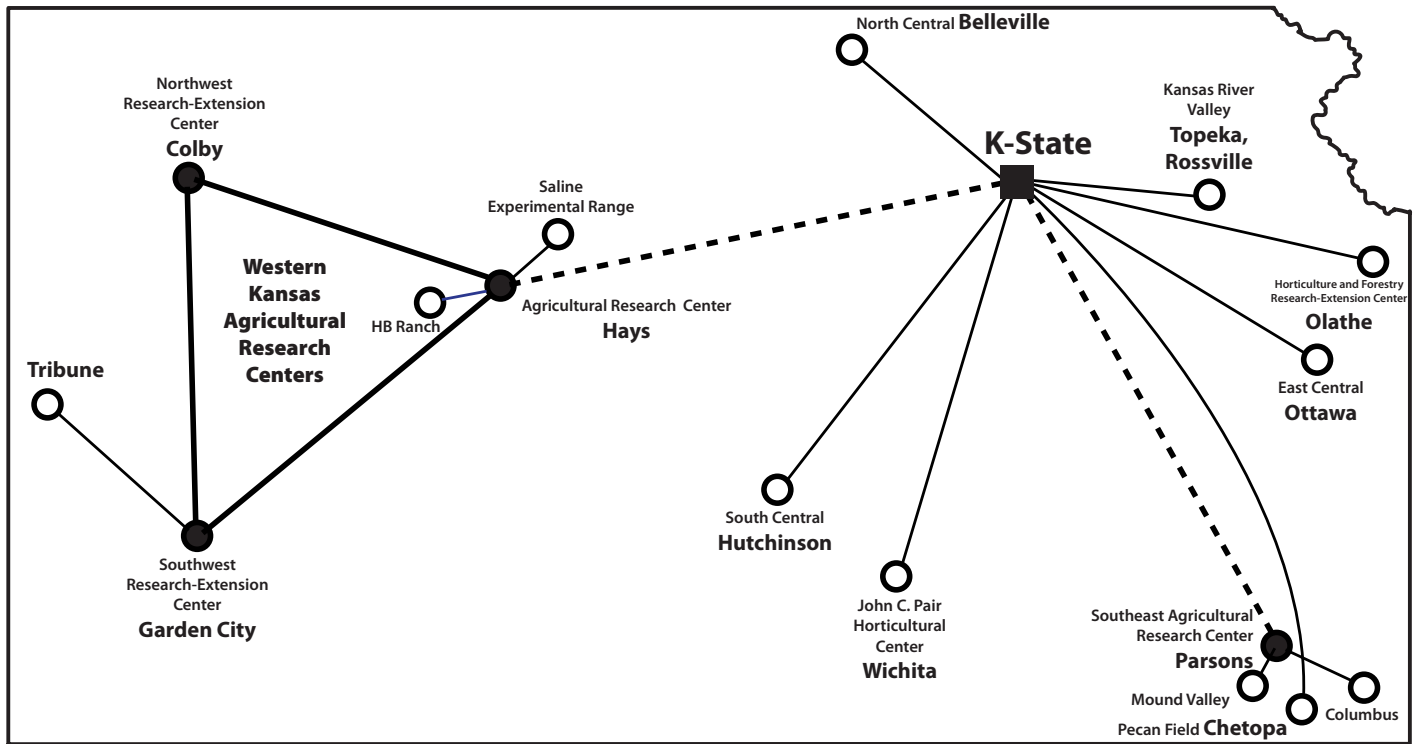
East Central - Ottawa
Kansas River Valley - Rossville, Silver Lake
North Central - Belleville
Pecan Field - Chetopa
South Central - Hutchinson

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
In: Encyclopedia of soil science, R. Lal (Ed.).
London: Taylor & Francis, pp. 1-4, 2010

- 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
Crop Science, 48(3):1090-1097, 2008
- 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
Journal of Plant Registrations, 4(1):67-69, 2010
- 09-045-J Nonmetric multidimensional scaling corrects for population structure in association mapping with different sample types
C. Zhu, J. Yu
Genetics, 182:875-888, 2009
- 09-065-J Estimating the saltation and suspension components from field wind erosion
L.J. Hagen, S. Van Pelt, B. Sharratt
Aeolian Research, 1:147-153, 2010
- 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
Crop Science, 49:1221-1226, 2009
- 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
Applied Soil Ecology, 43(1):122-130, 2009
- 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
Weed Technology, 24:85-90, 2010
- 09-129-B Effects of ultraviolet-B radiation and its interactions with climate change factors on agricultural crop growth and yield
K.R. Reddy, P.V.V. Prasad, S.K. Singh
In: UV radiation in global climate change measurements, modeling and effects on ecosystems, W. Gao, D.L. Schmoltdt, J.R. Slusser (Eds.). London: Springer-Verlag, Beijing: Tsinghua University Press, pp. 395-436, 2010
- 09-152-J No-till induced increase in organic carbon reduces maximum bulk density of soils
H. Blanco-Canqui, L.R. Stone, A.J. Schlegel, D.J. Lyon, M.F. Vigil, M.M. Mikha, P.W. Stahlman, C.W. Rice
Soil Science Society of America Journal, 73:1871-1879, 2009

- 09-165-J Groundnut yield response and economic benefits of fungicide and phosphorus application in farmer-managed trials in northern Ghana
J.B. Naab, S.S. Seini, K.O. Gyasi, G.Y. Mahama, P.V.V. Prasad, K.J. Boote, J.W. Jones
Experimental Agriculture, 45:385-399, 2009
- 09-170-J Regional study of no-till impacts on near-surface aggregate properties that influence soil erodibility
H. Blanco-Canqui, M.M. Mikha, J.G. Benjamin, L.R. Stone, A.J. Schlegel, D.J. Lyon, M.F. Vigil, P.W. Stahlman
Soil Science Society of America Journal, 73:1361-1368, 2009
- 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
- 09-226-J Mapping quantitative trait loci for long coleoptile in Chinese wheat landrace Wangshuibai
J-B. Yu, G-H. Bai, W-C. Zhou
Crop Science, 50(1):43-50, 2010
- 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]
T. Tesso, N. Ochanda, L. Claflin, M. Tuinstra
African Journal of Plant Science, 3(11):254-262, 2009
- 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. Lingenfelter
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
N.L. Klocke, L.R. Stone, S. Briggemann, D.A. Bolton
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. Lingenfelter
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. Propheter, 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. Lingenfelter
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. Lingenfelter
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
administration
F. Pierucci-Alves, C.L. Duncan, J.D.
Lillich, B.D. Schultz
Biology of Reproduction, 82(1):132-
135, 2010

Publications without contribution numbers

Antimicrobial host defense peptides in
an arteriviral infection: Differential
peptide expression and virus
inactivation
Y. Sang, P. Ruchala, R.I. Lehrer, C.R.
Ross, R.R.R. Rowland, F. Blecha
Viral Immunology, 22(4):235-242,
2009

Cultured mammary epithelial
monolayers (BME-UV) express
functional organic anion and cation
transporters
M.M. Al-Bataineh, D. van der Merwe,
B.D. Schultz, R. Gehring
Journal of Veterinary Pharmacology
and Therapeutics, 32:422-428, 2009

Animal Sciences and Industry

- 02-322-J Evaluating the relationships among blood glucose, performance, morbidity and mortality in receiving heifers
H.J. LaBrune, J.S. Drouillard, T.B. Farran, J.J. Sindt, S.P. Montgomery, R.D. Hunter
Bovine Practitioner, 43:122-127, 2009
- 05-234-J Effect of ractopamine dose and feeding duration on pig performance in a commercial finishing facility
R.G. Main, S.S. Dritz, M.D. Tokach, R.D. Goodband, J.L. Nelssen
Journal of Swine Health and Production, 17:134-139, 2009
- 06-049-J Expression of porcine Toll-like receptor 2, 4 and 9 gene transcripts in the presence of lipopolysaccharide and *Salmonella enterica* serovars Typhimurium and Choleraesuis
T.E. Burkey, K.A. Skjolaas, S.S. Dritz, J.E. Minton
Veterinary Immunology and Immunopathology, 130(1-2):96-101, 2009
- 06-138-J Comparison of full-fat corn germ, whole cottonseed, and tallow as fat sources for lactating dairy cattle
W.F. Miller, J.E. Shirley, E.C. Titgemeyer, M.J. Brouk
Journal of Dairy Science, 92(7):3386-3391, 2009
- 06-232-J Effects of melengestrol acetate on L-selectin and β 2-integrin expression of polymorphonuclear leukocytes from heifers challenged with lipopolysaccharide
M.E. Corrigan, J.S. Drouillard, C.R. Wyatt, E.R. Loe, B.E. Depenbusch, A.S. Webb, M.J. Quinn, H-F. Wang, J.J. Higgins
International Journal of Applied Research in Veterinary Medicine, 7:169-180, 2009
- 07-157-J Effects of intermittent ractopamine HCl use on pig growth performance in late finishing
C.R. Neill, R.D. Goodband, M.D. Tokach, J.L. Nelssen, S.S. Dritz, J.M. DeRouchey, C.N. Groesbeck, K.R. Lawrence
Professional Animal Scientist, 29:239-242, 2010
- 07-270-J Determining the effect of lysine:calorie ratio on growth performance of ten- to twenty-kilogram of body weight nursery pigs of two different genotypes
J.D. Schneider, M.D. Tokach, S.S. Dritz, J.L. Nelssen, J.M. DeRouchey, R.D. Goodband
Journal of Animal Science, 88:137-146, 2010
- 08-045-J Effects of feeding elevated concentrations of supplemental copper and zinc on the antimicrobial susceptibility profiles of fecal bacteria in feedlot cattle
M.E. Jacob, J.T. Fox, T.G. Nagaraja, J.S. Drouillard, S.K. Narayanan
Foodborne Pathogens and Disease, 7(6):643-648, 2010
- 08-082-J Effects of dry-rolled or steam-flaked corn finishing diets with or without 25% distiller's dried grains on ruminal fermentation and apparent total tract digestion
M.L. May, M.J. Quinn, C.D. Reinhardt, L. Murray, M.L. Gibson, K.K. Karges, J.S. Drouillard
Journal of Animal Science, 87:3630-3638, 2009
- 08-135-J Effects of pH, lactate cation, and lactate ion concentration on *in vitro* metmyoglobin-reducing activity
S. Hutchinson, M. Seyfert, M.C. Hunt, J.J. Higgins
Journal of Muscle Foods, 21(1):79-86, 2010

- 08-206-J Evaluation of dry distiller's grains and roughage source in steam-flaked corn based finishing diets
S. Uwituze, G.L. Parsons, M.K. Shelor, B.E. Depenbusch, K.K. Karges, M.L. Gibson, C.D. Reinhardt, J.S. Drouillard
Journal of Animal Science, 88:258-274, 2009
- 08-233-J Effects of irradiation of feed ingredients added to meal of pelleted diets on growth performance of weanling pigs
C.N. Groesbeck, J.M. DeRouchey, M.D. Tokach, R.D. Goodband, S.S. Dritz, J.L. Nelssen
Journal of Animal Science, 87:3997-4002, 2009
- 08-393-J Relationship of various incoming cattle traits with feedlot performance and carcass traits
C.D. Reinhardt, W.D. Busby, L.R. Corah
Journal of Animal Science, 87:3030-3042, 2009
- 08-399-J Ovulation and pregnancy outcomes in response to human chorionic gonadatropin before resynchronized ovulation in dairy cattle
B.S. Buttrey, M.G. Burns, J.S. Stevenson
Theriogenology, 73:449-459, 2010
- 09-011-J Additive effects of a steroidal implant and zilpaterol hydrochloride on feedlot performance, carcass characteristics, and skeletal muscle messenger ribonucleic acid abundance in finishing steers
T.J. Baxa, J.P. Hutcheson, M.F. Miller, J.C. Brooks, W.T. Nichols, M.N. Streeter, D.A. Yates, B.J. Johnson
Journal of Animal Science, 88:330-337, 2010
- 09-013-J Optimizing use of distillers grains in finishing diets containing steam-flaked corn
B.E. Depenbusch, E.R. Loe, J.J. Sindt, J.J. Higgins, J.S. Drouillard, N.A. Cole
Journal of Animal Science, 87(8):2644-2652, 2009
- 09-070-J Effects of increasing levels of dried corn distillers grains with solubles on growth performance, carcass characteristics, and meat quality of yearling heifers
B.E. Depenbusch, C.M. Coleman, J.J. Higgins, J.S. Drouillard
Journal of Animal Science, 87(8):2653-2663, 2009
- 09-106-J Effects of dry aging of bone-in and boneless strip loins using two aging processes for two aging times
S.L. DeGeer, M.C. Hunt, C.L. Bratcher, B.A. Crozier-Dodson, D.E. Johnson, J.F. Stika
Meat Science, 83:768-774, 2009
- 09-117-J Prediction of Japanese colour score
S.M. Ryan, J.A. Unruh, K. Adhikari, M.C. Hunt, C. Schultz-Kaster, J.O. Matthews
Meat Science, 84:165-171, 2010
- 09-130-J Ice cream: Foam formation and stabilization - A review
X. E, Z.J. Pei, K.A. Schmidt
Food Reviews International, 26(2):122-137, 2010
- 09-133-J Evaluation of two thermal processing schedules at low relative humidity for elimination of *Escherichia coli* O157:H7 and *Salmonella* serovars in chopped and formed beef jerky
N. Harper, M.N. Roberts, K.J.K. Getty, E.A.E. Boyle, D.Y.C. Fung
Journal of Food Protection, 72(12):2476-2482, 2009
- 09-141-J Effects of alfalfa hay inclusion rate on productivity of lactating dairy cattle fed wet corn gluten feed-based diets
C.R. Mullins, K.N. Grigsby, B.J. Bradford
Journal of Dairy Science, 92:3510-3516, 2009

- 09-144-J Effects of zilpaterol hydrochloride feeding duration on crossbred beef semimembranosus steak color in aerobic or modified atmosphere packaging
J.A. Gunderson, M.C. Hunt, T.A. Houser, E.A.E. Boyle, M.E. Dikeman, D.E. Johnson, D.L. VanOverbeke, G.G. Hilton, C. Brooks, J. Killefer, D.M. Allen, M.N. Streeter, W.T. Nichols, J.P. Hutcheson, D.A. Yates
Journal of Animal Science, 87(11):3739-3750, 2009
- 09-151-J Feeding zilpaterol hydrochloride to calf-fed Holsteins has minimal effects on semimembranosus steak color
J.A. Gunderson, M.C. Hunt, T.A. Houser, E.A.E. Boyle, M.E. Dikeman, D.E. Johnson, D.L. VanOverbeke, G.G. Hilton, C. Brooks, J. Killefer, D.M. Allen, M.N. Streeter, W.T. Nichols, J.P. Hutcheson, D.A. Yates
Journal of Animal Science, 87(11):3751-3763, 2009
- 09-160-J Contributions of muscles of various color stabilities to the overall color stability of ground beef
C.R. Raines, M.C. Hunt, J.A. Unruh
Journal of Food Science, 75(1):C85-C89, 2009
- 09-162-J Cow biological type affects ground beef color stability
C.R. Raines, M.C. Hunt, J.A. Unruh
Meat Science, 83:752-758, 2009
- 09-207-J Effects of fibre orientation, myoglobin redox form, and postmortem storage on NIR tissue oximeter measurements of beef *longissimus* muscle
A. Mohan, M.C. Hunt, T.E. Barstow, T.A. Houser, C. Bopp, D.M. Hueber
Meat Science, 84:79-85, 2010
- 09-227-J Inactivation of *Bacillus subtilis* spores with surface active peracids and characterization of formed free radicals using electron spin resonance spectroscopy
A. Mohan, C.E. Sizer, J. Dunn, M.C. Hunt
Journal of Food Science, 74(7):M411-417, 2009
- 09-268-J Pregnancy outcome after insemination of frozen-thawed bovine semen packaged in two straw sizes: A meta-analysis
J.S. Stevenson, J.J. Higgins, Y. Jung
Journal of Dairy Science, 92:4432-4438, 2009
- 09-269-J Daily injection of tumor necrosis factor- α increases hepatic triglycerides and alters transcript abundance of metabolic genes in lactating dairy cattle
B.J. Bradford, L.K. Mamedova, J.E. Minton, J.S. Drouillard, B.J. Johnson
Journal of Nutrition, 139:1451-1456, 2009
- 09-282-J Effects of ractopamine hydrochloride are not confined to mammalian tissue: Evidence for direct effects of ractopamine hydrochloride supplementation on fermentation by ruminal microorganisms
C.E. Walker, J.S. Drouillard
Journal of Animal Science, 88:697-706, 2010
- 09-285-J Case study: Feed intake and performance of heifers sired by high- or low-residual feed intake angus bulls
J. Minick Bormann, D.W. Moser, T.T. Marston
The Professional Animal Scientist, 26:328-331, 2010
- 09-290-J Efficacy of commercial enzymes in diets containing various concentrations and sources of dried distillers grains with solubles for nursery pigs
C.K. Jones, J.R. Bergstrom, M.D. Tokach, J.M. DeRouchey, R.D. Goodband, J.L. Nelssen, S.S. Dritz
Journal of Animal Science, 88:2084-2091, 2010
- 09-291-J Effects of fermented soybean meal and specialty animal protein sources on nursery pig performance
C.K. Jones, J.M. DeRouchey, J.L. Nelssen, M.D. Tokach, S.S. Dritz, R.D. Goodband
Journal of Animal Science, 88:1725-1732, 2010

- 09-300-J Plasma pharmacokinetics of oral chlortetracycline in group fed, ruminating, Holstein steers in a feedlot setting
J.B. Reinbold, J.F. Coetzee, R. Gehring, J.A. Havel, L.C. Hollis, KC Olson, M.D. Apley
Journal of Veterinary Pharmacology and Therapeutics, 33(1):76-83, 2010
- 09-339-J Microbial translocation of needle-free versus traditional needle injection-enhanced beef strip loins
A.N. Ray, M.E. Dikeman, B.A. Crow, R.K. Phebus, J.P. Grobbel, L.C. Hollis
Meat Science, 84(1):208-211, 2010
- 09-346-J Tissue expression of angiopoietin-like protein 4 in cattle
L.K. Mamedova, K. Robbins, B.J. Johnson, B.J. Bradford
Journal of Animal Science, 88:124-130, 2010
- 09-354-J Insemination timing affects pregnancy rates in beef cows treated with CO-Synch protocol including an intravaginal progesterone insert
C.A. Dobbins, D.R. Eborn, D.E. Tenhouse, R.M. Breiner, S.K. Johnson, T.T. Marston, J.S. Stevenson
Theriogenology, 72:1009-1016, 2009
- 09-376-J A comparison of needle-free and needle-injection methods and solutions for enhancement of beef *longissimus lumborum* muscles
B.A. Crow, M.E. Dikeman, L.C. Hollis, R.A. Phebus, A. Ray, T.A. Houser, J.P. Grobbel
Meat Science, 84(3):529-539, 2010
- 09-377-J Resynchronized ovulation in lactating dairy cattle of unknown pregnancy: Occurrence and timing of gonadotropin-releasing hormone
J.S. Stevenson, C.A. Martel
The Professional Animal Scientist, 25:605-609, 2009
- 09-387-J Oral inoculation with *Salmonella enterica* serovar Typhimurium or Choleraesuis promotes divergent responses in the somatotropic growth axis of swine
B.L. Davis, J.N. Fraser, T.E. Burkey, K.A. Skjolaas, S.S. Dritz, B.J. Johnson, J.E. Minton
Journal of Animal Science, 88(5):1642-1648, 2010
- 09-388-J Interaction of *Bacillus* species and *Salmonella enterica* serovar Typhimurium in immune or inflammatory signaling from swine intestinal epithelial cells
C.C. Aperce, T.E. Burkey, B. KuKanich, B.A. Crozier-Dodson, S.S. Dritz, J.E. Minton
Journal of Animal Science, 88(5):1649-1656, 2010
- 10-004-J Headspace volume and percentage of carbon monoxide affects carboxymyoglobin layer development of modified atmosphere packaged beef steaks
C.R. Raines, M.C. Hunt
Journal of Food Science, 75(1):C62-C65, 2010
- 10-010-T Is alfalfa hay worth the price?
C.R. Mullins, B.J. Bradford
Hoard's Dairyman, February 2010, p. 137
- 10-014-S Swine Day 2009
Multiple authors
Coordinating author: R. Goodband
KS Agric. Exp. Stn. Report of Prog. 1020, November 2009
- 10-095-J Effects of a molasses-coated cottonseed product on diet digestibility, performance, and milk fatty acid profile of lactating dairy cattle
C.R. Mullins, B.J. Bradford
Journal of Dairy Science, 93(7):3128-3135, 2010
- 10-103-S Dairy Research 2009
Multiple authors
Coordinating author: J. Stevenson
KS Agric. Exp. Stn. Report of Prog. 1021, December 2009

- 10-144-J Rates of luteolysis and pregnancy in dairy cows after treatment with cloprostenol or dinoprost
J.S. Stevenson, A.P. Phatak
Theriogenology, 73:1127-1138, 2010
- 10-170-S Cattlemen's Day 2010
Multiple authors
Coordinating author: J. Drouillard
KS Agric. Exp. Stn. Report of Prog. 1029, March 2010
- 10-203-J Kinetics of myoglobin redox form stabilization by malate dehydrogenase
A. Mohan, S. Muthukrishnan, M.C. Hunt, T.J. Barstow, T.A. Houser
Journal of Agricultural and Food Chemistry, 58(11):6994-7000, 2010
- 10-204-J Myoglobin redox form stabilization by compartmentalized lactate and malate dehydrogenases
A. Mohan, M.C. Hunt, S. Muthukrishnan, T.A. Houser, T.E. Barstow
Journal of Agricultural and Food Chemistry, 58(11):7021-7029, 2010
- 10-244-J Effects of malate, lactate, and pyruvate on myoglobin redox stability in homogenates of three bovine muscles
A. Mohan, M.C. Hunt, T.J. Barstow, T.A. Houser, S. Muthukrishnan
Meat Science, 86:304-310, 2010

Publications without contribution numbers

- Anaerobes
L.E. Erickson, D.Y.C. Fung
In: Encyclopedia of industrial biotechnology: Bioprocess, bioseparation, and cell technology
New York: John Wiley and Sons, pp. 1-15, 2010
- Application of a colony PCR technique with Fung's double tube method for rapid detection and confirmation of *Clostridium perfringens*
C. Ruengwilysup, C. Detvisitsakun, N. Aumyat, D.Y.C. Fung
Journal of Rapid Methods and Automation in Microbiology, 17(3):280-290, 2009

Characterization of specific passive immunity stimulated by vaccination of beef cows grazing native range with *E. coli* O157:H7-SRP
B.W. Wileman, D.U. Thompson, KC Olson, L.A. Pacheco, J.R. Jaeger, D.T. Burkhardt, J. Sandstrom, D.A. Emery
Bovine Practitioner, 44:12-16, 2010

Development of a colloidal gold strip for rapid detection of ochratoxin A with mimotope peptide
W. Lai, D.Y.C. Fung, Y. Xu, R. Liu, Y. Xiong
Food Control, 20:791-795, 2009

'Natural' suppression of the growth of foodborne pathogens in meat products
D.Y.C. Fung, L. Thompson
International Review of Food Science and Technology, 01/2009:80-81, 2009

Apparel, Textiles, and Interior Design

- 08-328-B Understanding and improving textile recycling: A systems perspective
J.M. Hawley
In: Sustainable textiles: Life cycle and environmental impact. R. Blackburn (Ed.). Cambridge, England: Woodhead Publishing, pp. 179-199, 2009

Publications without contribution numbers

- Exploration of second-hand apparel acquisition behaviors and barriers
K.Y. Hiller Connell
Proceedings of the International Textile and Apparel Association Annual Conference
Bellevue, WA, 2009
- Fabric of India life: The 2006-2007 Fulbright experience
J.M. Hawley
Fiber, issue 4, 2009
- Natural dyestuffs: Sustainable practices for color effects
S.J. Haar
Proceedings of the International Textile and Apparel Association Annual Conference
Bellevue, WA, 2009

- Surveying knowledge, attitudes, & interest about sustainability among apparel and textiles undergraduates
C.M. Armstrong, D.J.C. Meyer-Brosdahl
Proceedings of the International Textile and Apparel Association Annual Conference
Bellevue, WA, 2009
- Students' attitude-behavior gap on issues of labor exploitation
K.Y. Hiller Connell, J.M. Kozar
Proceedings of the International Textile and Apparel Association Annual Conference
Bellevue, WA, 2009
- ### Biochemistry
- 06-013-J Loss of Purkinje cells in the PKC gamma H101Y transgenic mouse
Y. Zhang, A. Snider, L. Willard, D. Takemoto, G. Lin
Biochemical and Biophysical Research Communications, 378:524-528, 2009
- 06-158-J Synergistic cooperation between two ClpB isoforms in aggregate reactivation
M. Nagy, I. Guenther, V. Akoev, M.E. Barnett, M.I. Zavodszky, S. Kedzierska-Mieszkowska, M. Zolkiewski
Journal of Molecular Biology, 396:697-707, 2010
- 07-124-J The serpin gene family in *Anopheles gambiae*
C. Suwanchaichinda, M.R. Kanost
Gene, 442:47-54, 2009
- 07-125-J Functions of *Manduca sexta* hemolymph proteinases HP6 and HP8 in two innate immune pathways
C. An, J. Ishibashi, H. Jiang, M.R. Kanost
Journal of Biological Chemistry, 284:19716-19726, 2009
- 08-290-J Characterization of endogenous and recombinant laccase-2, a multicopper oxidase from the tobacco hornworm, *Manduca sexta*
N.T. Dittmer, M.J. Gorman, M.R. Kanost
Insect Biochemistry and Molecular Biology, 39:596-606, 2009
- 08-360-J Mechanical properties of insect cuticle, a hierarchically ordered biomaterial
J. Lomakin, C. Eichler, Y. Arakane, K.J. Kramer, S. Muthukrishnan, R.W. Beeman, M.R. Kanost, S.H. Gherke
Biomacromolecules, 100:470-471, 2009
- 09-078-J Identification, RNAi knockdown, and functional analysis of an ejaculate protein that mediates a postmating, prezygotic phenotype in a cricket
J.L. Marshall, D.L. Huestis, Y. Hiromasa, S. Wheeler, C. Oppert, S.A. Marshall, J.M. Tomich, B. Oppert
PLOS One, 4(10):e7537, 2009
doi:10.1371/journal.pone.0007537
- 09-150-J Effects of alkaline treatment on the structure of phosphorylated wheat starch and its digestibility
Y. Sang, P.A. Seib, A.I. Herrera, O. Prakash, Y-C. Shi
Food Chemistry, 118:323-327, 2010
- 09-314-J Structural interpretation of paramagnetic relaxation enhancement-derived distances for disordered protein states
D. Ganguly, J. Chen
Journal of Molecular Biology, 390:467-477, 2009
- 09-395-J An insight into the transcriptome and proteome of the salivary gland of the stable fly, *Stomoxys calcitrans*
X. Wang, J.M. Ribeiro, A.B. Broce, M.J. Wilkerson, M.R. Kanost
Insect Biochemistry and Molecular Biology, 39:607-614, 2009
- 10-043-J Tyrosine hydroxylase is required for cuticle sclerotization and pigmentation in *Tribolium castaneum*
M.J. Gorman, Y. Arakane
Insect Biochemistry and Molecular Biology, 40:267-273, 2010

- 10-203-J Kinetics of myoglobin redox form stabilization by malate dehydrogenase
A. Mohan, S. Muthukrishnan, M.C. Hunt, T.J. Barstow, T.A. Houser
Journal of Agricultural and Food Chemistry, 58(11):6994-7000, 2010
- 10-204-J Myoglobin redox form stabilization by compartmentalized lactate and malate dehydrogenases
A. Mohan, M.C. Hunt, S. Muthukrishnan, T.A. Houser, T.E. Barstow
Journal of Agricultural and Food Chemistry, 58(11):7021-7029, 2010
- 10-244-J Effects of malate, lactate, and pyruvate on myoglobin redox stability in homogenates of three bovine muscles
A. Mohan, M.C. Hunt, T.J. Barstow, T.A. Houser, S. Muthukrishnan
Meat Science, 86:304-310, 2010
- Publications without contribution numbers
- The *Tribolium castaneum* larval gut transcriptome and proteome: A resource for the study of the coleopteran gut
K. Morris, M. Lorenzen, Y. Hiromasa, J.M. Tomich, C. Oppert, E.N. Elpidina, K. Vinokurov, J.L. Jurat-Fuentes, J. Fabrick, B.S. Oppert
Journal of Proteome Research, 8(8):3889-3898, 2009
- Biological and Agricultural Engineering**
- 05-130-J Improved water resistance of soy protein adhesive at isoelectric point
D. Wang, X.S. Sun, G. Yang, Y. Wang
Transactions of the ASABE, 52(1):173-177, 2009
- 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
- 08-313-J Culture of microalga *Botryococcus* in livestock wastewater
Y. Shen, W. Yuan, Z. Pei, E. Mao
Transactions of the ASABE, 51(4):1395-1400, 2008
- 08-337-J Evaluation and characterization of forage sorghum as feedstock for fermentable sugar production
D.Y. Corredor, J.M. Salazar, K.L. Hohn, S. Bean, B. Bean, D. Wang
Applied Biochemistry and Biotechnology, 158(1):164-179, 2009
- 08-401-J Predicting the temperature-dependent viscosity of biodiesel fuels
W. Yuan, A.C. Hansen, Q. Zhang
Fuel, 88:1120-1126, 2009
- 09-009-J Germination-improved ethanol fermentation performance of high-tannin sorghum in a laboratory dry-grind process
S. Yan, X. Wu, F. MacRitchie, D. Wang
Cereal Chemistry, 86(6):597-600, 2009
- 09-010-J Field comparison of PM10 samplers
L. Guo, R.G. Maghirang, E.B. Razote, J.G. Tallada, J.P. Harner, III, W.L. Hargrove
Applied Engineering in Agriculture, 25(5):737-744, 2009
- 09-065-J Estimating the saltation and suspension components from field wind erosion
L.J. Hagen, S. Van Pelt, B. Sharratt
Aeolian Research, 1:147-153, 2010
- 09-076-J Heterotrophic culture of *Chlorella protothecoides* in various nitrogen sources for lipid production
Y. Shen, W. Yuan, Z. Pei, E. Mao
Applied Biochemistry and Biotechnology, 160:1674-1684, 2009
- 09-079-J Size distribution and rate of dust generated during grain elevator handling
J.M. Boac, R.G. Maghirang, M.E. Casada, J.D. Wilson, Y.S. Jung
Applied Engineering in Agriculture, 25(4):533-541, 2009
- 09-169-J SWAT discharge response to spatial rainfall variability in a Kansas watershed
P. Tuppad, K.R. Douglas-Mankin, J.K. Koelliker, J.M.S. Hutchinson
Transactions of the ASABE, 2010

- 09-228-J Microalgae mass production methods
Y. Shen, Z. Pei, W. Yuan, E. Mao
Transactions of the ASABE,
52(4):1275-1287, 2009
- 09-232-J Computational investigation of the
effect of biodiesel fuel properties on
diesel engine NOx emissions
W. Yuan, A.C. Hansen
International Journal of Agricultural
and Biological Engineering, 2(2):41-48,
2009
- 09-237-J The effect of nitrogen and extraction
method on algae lipid yield
Y. Shen, Z. Pei, W. Yuan, E. Mao
International Journal of Agricultural
and Biological Engineering, 2(1):51-57,
2009
- 09-312-J Properties of field-sprouted sorghum
and their performance on ethanol
production
S. Yan, X. Wu, J. Dahlberg, F.
MacRitchie, J.D. Wilson, D. Wang
Journal of Cereal Science, 51(3):374-
380, 2010
- 09-313-J Effect of nozzle type and water volume
on dollar spot control in greens-height
creeping bentgrass
M.M. Kennelly, R.E. Wolf
Applied Turfgrass Science, 2008
doi:10.1094/ATS-2009-0921-01-RS
- 09-330-J Comparison of methods for extracting
kafirin proteins from sorghum distillers
dried grains with solubles
Y. Wang, M. Tilley, S. Bean, S. Sun, D.
Wang
Journal of Agricultural and Food
Chemistry, 57(18):8366-8372, 2009
- 10-103-S Dairy Research 2009
Multiple authors
Coordinating author: J. Stevenson
KS Agric. Exp. Stn. Report of Prog.
1021, December 2009
- 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
- 10-159-J Evaluation and characterization of
sorghum biomass as feedstock for sugar
production
K. Theerarattananoon, X. Wu, S.
Staggenborg, J. Propheter, R. Madl, D.
Wang
Transactions of the ASABE, 53(2):509-
525, 2010
- 10-293-S Field Day 2010, Southwest Research
Extension Center
Multiple authors
KS Agric. Exp. Stn. Report of Prog.
1034, June 2010
- 10-305-A Estimating sward forage mass and crude
protein
J.L. Moyer, R.R. Price, J.J. Higgins,
L.W. Lomas
Proceedings of the American Forage
and Grassland Council Conference
Springfield, MO, June 2010, pp. 6
- 10-327-A Comparison of different pretreatment
methods on cellulosic conversion of
photoperiod-sensitive sorghum
F. Xu, Y-C. Shi, D. Wang
2010 ASABE Annual International
Meeting
Pittsburgh, PA, June 21-June 24, 2010,
Paper No. 1008872
- Publications without contribution numbers
- Laboratory scale electrostatically
assisted wet scrubber for controlling
dust in livestock buildings
E. Almuhanha, R.G. Maghirang, J.P.
Murphy, L.E. Erickson
Applied Engineering in Agriculture,
25(5):745-750, 2009
- Simultaneous monitoring of stored
grain with relative humidity,
temperature, and carbon dioxide sensors
H.B. Gonzales, P.R. Armstrong, R.G.
Maghirang
Applied Engineering in Agriculture,
25(4):595-604, 2009

Biology

- 06-050-J Age-specific survival and probable causes of mortality in female lesser prairie-chickens
C.A. Hagen, J.C. Pitman, B.K. Sandercock, R.J. Robel, R.D. Applegate
Journal of Wildlife Management, 71:518-525, 2007
- 06-094-J Long-term response patterns of tallgrass prairie to frequent summer burning
E.G. Towne, K.E. Kemp
Journal of Rangeland Ecology & Management, 61:509-520, 2008
- 06-200-J Weight loss via exercise with controlled dietary intake may affect phospholipid profile for cancer prevention in murine skin tissues
P. Ouyang, Y. Jiang, H.M. Doan, L. Xie, D. Vasquez, R. Welti, Z. Su, N. Lu, B. Herndon, S-S. Yang, R. Jeannotte, W. Wang
Cancer Prevention Research, 3(4):466-477, 2010
- 07-162-J Spatial variation in lesser prairie-chicken demography: A sensitivity analysis of population dynamics and management alternatives
C.A. Hagen, B.K. Sandercock, J.C. Pitman, R.J. Robel
Journal of Wildlife Management, 73:1325-1332, 2009
- 07-204-J Mutation of juxtamembrane cysteines in the tetraspanin CD81 affects palmitoylation and alters interaction with other proteins at the cell surface
C. Delandre, T.R. Penabaz, A.L. Passarelli, S.K. Chapes, R.J. Clem
Experimental Cell Research, 315:1953-1963, 2009
- 07-247-J Grasshopper (Orthoptera: Acrididae) communities respond to fire, bison grazing and weather in North American tallgrass prairie: A long-term study
J.L. Jonas, A. Joern
Oecologia, 153:699-711, 2007
- 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
- 08-041-J Thresholds in macroinvertebrate biodiversity and stoichiometry across water-quality gradients in Central Plains (USA) streams
M.A. Evans-White, W.K. Dodds, D.G. Huggins, D.S. Baker
Journal of the North American Benthological Society, 28:855-868, 2009
doi:10.1899/08-113.1
- 08-175-J Interactive changes between macrophages and adipocytes
L. Xie, M.T. Ortega, S. Mora, S.K. Chapes
Clinical Vaccine Immunology, 17:651-659, 2010
- 08-304-J Analysis of repetitive DNA distribution patterns in the *Tribolium castaneum* genome
S. Wang, M.D. Lorenzen, R.W. Beeman, S.J. Brown
Genome Biology, 9:R61, 2008
doi:10.1186/gb2008-9-3-r61
- 09-001-B Laws, theories and patterns in ecology
W.K. Dodds
Berkeley, CA: University of California Press, pp. 256, 2009
- 09-046-J Movement behavior of red flour beetle: Response to habitat cues and patch boundaries
S.A. Romero, J.F. Campbell, J.R. Nechols, K.A. With
Environmental Entomology, 39:919-929, 2010
- 09-058-J Stream discharge and riparian land use influence in-stream concentrations and loads of phosphorus from Central Plains watersheds
E.B.K. Banner, A.J. Stahl, W.K. Dodds
Environmental Management, 44:552-565, 2009
doi:10.1007/s00267-009-9332-6

- 09-210-J FT-IR microspectroscopy enhances biological and ecological analysis of algae
J.N. Murdock, D.L. Wetzel
Applied Spectroscopy Reviews, 44(4):335-361, 2009
- 09-218-J Variation in gene expression of *Andropogon gerardii* in response to altered environmental conditions associated with climate change
S.E. Travers, Z. Tang, D. Caragea, K.A. Garrett, S.H. Hulbert, J.E. Leach, J. Bai, A. Saleh, A.K. Knapp, P.A. Fay, J. Nippert, P.S. Schnable, M.D. Smith
Journal of Ecology, 98:374-383, 2010
- 09-220-J Virion-associated viral fibroblast growth factor stimulates cell motility
C. Lehiy, O. Martinez, A.L. Passarelli
Virology, 395:152-160, 2009
- 09-248-J Annual fire and mowing alter biomass, depth distribution, and C and N content of roots and soil in tallgrass prairie
D.J. Kitchen, J.M. Blair, M.A. Callahan, Jr.
Plant and Soil, 323:235-247, 2009
doi:10.1007/s11104-009-9931-2
- 09-327-J Horizontal transfer of the tetracycline resistance gene *tetM* mediated by pCF10 among *Enterococcus faecalis* in the house fly (*Musca domestica* L.) alimentary canal
M. Akhtar, H. Hirt, L. Zurek
Microbial Ecology, 58:509-518, 2009
- 09-329-J Consumer return chronology alters recovery trajectory of stream ecosystem following drought
J.N. Murdock, K.B. Gido, W.K. Dodds, K.N. Bertrand, M.R. Whiles
Ecology, 91:1048-1062, 2010
- 09-349-J *Ehrlichia chaffeensis* infections in *Drosophila melanogaster*
A. Luce-Fedrow, T. Von Ohlen, S.K. Chapes
Infection and Immunity, 77:4815-4826, 2009
- 09-356-J Quantitative characterization of polar lipids from wheat whole-meal, flour, and starch
S.M. Finnie, R. Jeannotte, J.M. Faubion
Cereal Chemistry, 86(6):637-645, 2009
- 09-357-J Variation in polar lipids located on the surface of wheat starch
S.M. Finnie, R. Jeannotte, C.F. Morris, M. Giroux, J.F. Faubion
Journal of Cereal Science, 51:73-80, 2010
- 09-358-J Variation in polar lipids composition with near-isogenic wheat lines containing different puroindoline haplotypes
S.M. Finnie, R. Jeannotte, C.F. Morris, M. Giroux, J.F. Faubion
Journal of Cereal Science, 51:66-72, 2010
- 09-389-J Membrane lipid composition and heat tolerance in cool-season turfgrasses including a hybrid bluegrass
K. Su, D.J. Bremer, R. Jeannotte, C. Yang, R. Welti
Journal of the American Society for Horticultural Science, 134(5):511-520, 2009
- 10-052-J Viral fibroblast growth factor, matrix metalloproteases, and caspases are associated with enhancing systemic infection by baculoviruses
J.C. Means, A.L. Passarelli
Proceedings of the National Academy of Sciences, USA, 107(21):9825-9830, 2010
- 10-088-J Erratum: Influence of spatial positioning within stream networks on fish assemblage structure in the Kansas River basin, USA
D.J. Thornbrugh, K.B. Gido
Canadian Journal of Fisheries and Aquatic Sciences, 67(3):596-596, 2010
- 10-097-J Male Cd81 knockout genotype disrupts Mendelian distribution of offspring
W.J. Mordica, R.J. Gallagher, J.L. Kennedy, S.K. Chapes
Comparative Medicine, 60(3):196-199, 2010

- 10-124-J The woodland vole on Konza Prairie Biological Station, Kansas
D.W. Kaufman, G.A. Kaufman
Transactions of the Kansas Academy of Science, 112:229-230, 2009
- 10-198-J *Caenorhabditis elegans* genomic response to soil bacteria predicts environment-specific genetic effects on life history traits
J.D. Coolon, K.L. Jones, T.C. Todd, B.C. Carr, M.A. Herman
PLoS Genetics, 5(6):e1000503.
doi:10.1371/journal.pgen.1000503

Publications without contribution numbers

Contingent productivity responses to more extreme rainfall regimes across a grassland biome
J.L. Heisler-White, J.M. Blair, E.F. Kelly, K. Harmony, A.K. Knapp
Global Change Biology, 15(12):2894-2904, 2009
doi:10.1111/j.1365-2486.2009.01961.x

Discovery of *Plasmodium* modulators by genome-wide analysis of circulating hemocytes in *Anopheles gambiae*
S.B. Pinto, F. Lombardo, A.C. Koutsos, R.M. Waterhouse, K. McKay, C. An, K. Ramakrishnan, F.C. Kafatos, K. Michel
Proceedings of the National Academy of Sciences, 106(50):21270-21275, 2009

Highly polymorphic microsatellites in the North American Snakeweed Grasshopper, *Hesperotettix viridis*
T. Grace, A. Joern, J.L. Apple, S.J. Brown, S.M. Wisely
Journal of Orthoptera Research, 18(1):19-21, 2009
doi:10.1665/034.018.0111

Microsatellite isolation and development in the Eastern yellowbelly racer (*Coluber constrictor flaviventris*) for use in landscape genetic studies
P.E. With, K.A. With, S.M. Wisely
(Molecular Ecology Resources database accessions 37758–37769).
<http://tomato.biol.trinity.edu/>. Cited as: Molecular Ecology Resources Primer Development Consortium et al. 2009. Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009–31 July 2009. Molecular Ecology Resources 9:1460-1466.

Non-destructive determination of age and species of *Anopheles gambiae* s.l. using near-infrared spectroscopy
V.S. Mayagaya, K. Michel, M.Q. Benedict, G.F. Killeen, R.A. Wirtz, H.M. Ferguson, F.E. Dowell
American Journal of Tropical Medicine and Hygiene, 81(4):622-630, 2009.

Chemical Engineering

- 08-337-J Evaluation and characterization of forage sorghum as feedstock for fermentable sugar production
D.Y. Corredor, J.M. Salazar, K.L. Hohn, S. Bean, B. Bean, D. Wang
Applied Biochemistry and Biotechnology, 158(1):164-179, 2009
- 09-089-J Grain-based activated carbons for natural gas storage
T. Zhang, W.P. Walawender, L.T. Fan
Bioresource Technology, 101(6):1983-1991, 2010

Publications without contribution numbers:

Stochastic simulation of disinfection of bacteria: Non-linear approach
A. Argoti, L.T. Fan, S.T. Chou
8th World Congress of Chemical Engineering
Montreal, Canada, 2009

Clinical Sciences

- 09-173-J Prevalence of *Escherichia coli* O157:H7 in gut contents of beef cattle at slaughter
C. Walker, X. Shi, M. Sanderson, J. Sargeant, T.G. Nagaraja
Foodborne Pathogens and Disease, 7:249-255, 2010
- 09-300-J Plasma pharmacokinetics of oral chlortetracycline in group fed, ruminating, Holstein steers in a feedlot setting
J.B. Reinbold, J.F. Coetzee, R. Gehring, J.A. Havel, L.C. Hollis, KC Olson, M.D. Apley
Journal of Veterinary Pharmacology and Therapeutics, 33(1):76-83, 2010
- 09-337-J Porcine vas deferens luminal pH is acutely increased by systemic xylazine administration
F. Pierucci-Alves, C.L. Duncan, J.D. Lillich, B.D. Schultz
Biology of Reproduction, 82(1):132-135, 2010
- Publications without contribution numbers
- Cultured mammary epithelial monolayers (BME-UV) express functional organic anion and cation transporters
M.M. Al-Bataineh, D. van der Merwe, B.D. Schultz, R. Gehring
Journal of Veterinary Pharmacology and Therapeutics, 32:422-428, 2009

Computer Science

- 09-218-J Variation in gene expression of *Andropogon gerardii* in response to altered environmental conditions associated with climate change
S.E. Travers, Z. Tang, D. Caragea, K.A. Garrett, S.H. Hulbert, J.E. Leach, J. Bai, A. Saleh, A.K. Knapp, P.A. Fay, J. Nippert, P.S. Schnable, M.D. Smith
Journal of Ecology, 98:374-383, 2010

Diagnostic Medicine/Pathobiology

- 05-234-J Effect of ractopamine dose and feeding duration on pig performance in a commercial finishing facility
R.G. Main, S.S. Dritz, M.D. Tokach, R.D. Goodband, J.L. Nelssen
Journal of Swine Health and Production, 17:134-139, 2009
- 06-049-J Expression of porcine Toll-like receptor 2, 4 and 9 gene transcripts in the presence of lipopolysaccharide and *Salmonella enterica* serovars Typhimurium and Choleraesuis
T.E. Burkey, K.A. Skjolaas, S.S. Dritz, J.E. Minton
Veterinary Immunology and Immunopathology, 130(1-2):96-101, 2009
- 06-232-J Effects of melengestrol acetate on L-selectin and β 2-integrin expression of polymorphonuclear leukocytes from heifers challenged with lipopolysaccharide
M.E. Corrigan, J.S. Drouillard, C.R. Wyatt, E.R. Loe, B.E. Depenbusch, A.S. Webb, M.J. Quinn, H-F. Wang, J.J. Higgins
International Journal of Applied Research in Veterinary Medicine, 7:169-180, 2009
- 07-270-J Determining the effect of lysine:calorie ratio on growth performance of ten- to twenty-kilogram of body weight nursery pigs of two different genotypes
J.D. Schneider, M.D. Tokach, S.S. Dritz, J.L. Nelssen, J.M. DeRouchey, R.D. Goodband
Journal of Animal Science, 88:137-146, 2010
- 08-045-J Effects of feeding elevated concentrations of supplemental copper and zinc on the antimicrobial susceptibility profiles of fecal bacteria in feedlot cattle
M.E. Jacob, J.T. Fox, T.G. Nagaraja, J.S. Drouillard, S.K. Narayanan
Foodborne Pathogens and Disease, 7(6):643-648, 2010

- 08-233-J Effects of irradiation of feed ingredients added to meal of pelleted diets on growth performance of weanling pigs
C.N. Groesbeck, J.M. DeRouchey, M.D. Tokach, R.D. Goodband, S.S. Dritz, J.L. Nelssen
Journal of Animal Science, 87:3997-4002, 2009
- 08-294-J Prevalence of *Escherichia coli* O157:H7 in organically and naturally raised beef cattle
S. Reinstein, J.T. Fox, X. Shi, M.J. Alam, D.G. Renter, T.G. Nagaraja
Applied and Environmental Microbiology, 75(16):5421-5423, 2009
- 09-127-J The role of cholesterol pathways in norovirus replication
K-O. Chang
Journal of Virology, 83:8587-8595, 2009
- 09-173-J Prevalence of *Escherichia coli* O157:H7 in gut contents of beef cattle at slaughter
C. Walker, X. Shi, M. Sanderson, J. Sargeant, T.G. Nagaraja
Foodborne Pathogens and Disease, 7:249-255, 2010
- 09-261-J Dietary interactions and interventions affecting *Escherichia coli* O157 colonization and shedding in cattle
M.E. Jacob, T.R. Callaway, T.G. Nagaraja
Foodborne Pathogens and Disease, 6:785-792, 2009
- 09-290-J Efficacy of commercial enzymes in diets containing various concentrations and sources of dried distillers grains with solubles for nursery pigs
C.K. Jones, J.R. Bergstrom, M.D. Tokach, J.M. DeRouchey, R.D. Goodband, J.L. Nelssen, S.S. Dritz
Journal of Animal Science, 88:2084-2091, 2010
- 09-291-J Effects of fermented soybean meal and specialty animal protein sources on nursery pig performance
C.K. Jones, J.M. DeRouchey, J.L. Nelssen, M.D. Tokach, S.S. Dritz, R.D. Goodband
Journal of Animal Science, 88:1725-1732, 2010
- 09-327-J Horizontal transfer of the tetracycline resistance gene *tetM* mediated by pCF10 among *Enterococcus faecalis* in the house fly (*Musca domestica* L.) alimentary canal
M. Akhtar, H. Hirt, L. Zurek
Microbial Ecology, 58:509-518, 2009
- 09-362-J Survival of *Enterococcus faecalis* (OG1RF:pCF10) in poultry and cattle feed: Vector competence of the red flour beetle, *Tribolium castaneum* (Herbst)
H.C. Lakshmikantha, B. Subramanyam, L. Zurek
Journal of Food Protection, 73:568-573, 2009
- 09-387-J Oral inoculation with *Salmonella enterica* serovar Typhimurium or Choleraesuis promotes divergent responses in the somatotropic growth axis of swine
B.L. Davis, J.N. Fraser, T.E. Burkey, K.A. Skjolaas, S.S. Dritz, B.J. Johnson, J.E. Minton
Journal of Animal Science, 88(5):1642-1648, 2010
- 09-388-J Interaction of *Bacillus* species and *Salmonella enterica* serovar Typhimurium in immune or inflammatory signaling from swine intestinal epithelial cells
C.C. Aperce, T.E. Burkey, B. KuKanich, B.A. Crozier-Dodson, S.S. Dritz, J.E. Minton
Journal of Animal Science, 88(5):1649-1656, 2010
- 09-395-J An insight into the transcriptome and proteome of the salivary gland of the stable fly, *Stomoxys calcitrans*
X. Wang, J.M. Ribeiro, A.B. Broce, M.J. Wilkerson, M.R. Kanost
Insect Biochemistry and Molecular Biology, 39:607-614, 2009

- 10-014-S Swine Day 2009
Multiple authors
Coordinating author: R. Goodband
KS Agric. Exp. Stn. Report of Prog.
1020, November 2009
- 10-015-J Genetic relatedness of *Escherichia coli*
O157 isolates from cattle feces and
preintervention beef carcasses
C.C. Dodd, D.G. Renter, J.T. Fox, X.
Shi, M.W. Sanderson
Foodborne Pathogens Disease,
7(4):357-65, 2010
- 10-084-J A benefit of high temperature:
Increased effectiveness of a rice
bacterial blight disease resistance gene
K.M. Webb, I. Ona, J. Bai, K.A.
Garrett, T. Mew, C.M. Vera Cruz, J.E.
Leach
New Phytologist, 185:568-576, 2010
- 10-126-J Animal- and truckload-level
associations between *Escherichia coli*
O157:H7 in feces and on hides at
harvest and contamination of
preevisceration beef carcasses
M.E. Jacob, D.G. Renter, T.G. Nagaraja
Journal of Food Protection, 73:1030-
1037, 2010

Publications without contribution numbers

Antimicrobial host defense peptides in
an arteriviral infection: Differential
peptide expression and virus
inactivation
Y. Sang, P. Ruchala, R.I. Lehrer, C.R.
Ross, R.R.R. Rowland, F. Blecha
Viral Immunology, 22(4):235-242,
2009

Challenges involved in the Salmonella
Saintpaul outbreak and lessons learned
E. Taylor, J. Kastner, D. Renter
Journal of Public Health Management
and Practice, 16:221-231, 2010

Cultured mammary epithelial
monolayers (BME-UV) express
functional organic anion and cation
transporters
M.M. Al-Bataineh, D. van der Merwe,
B.D. Schultz, R. Gehring
Journal of Veterinary Pharmacology
and Therapeutics, 32:422-428, 2009

Entomology

- 08-142-J A review of stored-product entomology
information sources
D.W. Hagstrum, B. Subramanyam
American Entomologist, 55:174-183,
2009
- 08-151-J Aphid feeding activates expression of a
transcriptome of oxylipin-based defense
signals in wheat involved in resistance
to herbivory
C.M. Smith, X.M. Liu, L.J. Wang, X.
Liu, M.S. Chen, S. Starkey, J. Bai
Journal of Chemical Ecology, 36:260-
276, 2010
- 08-194-J Differential responses of wheat
inhibitor-like genes to Hessian fly
(*Mayetiola destructor*) attacks during
compatible and incompatible
interactions
J. Wu, X. Liu, S. Zhang, Y.C. Zhu, R.J.
Whitworth, M.S. Chen
Journal of Chemical Ecology, 34:1005-
1012, 2008
- 08-360-J Mechanical properties of insect cuticle,
a hierarchically ordered biomaterial
J. Lomakin, C. Eichler, Y. Arakane,
K.J. Kramer, S. Muthukrishnan, R.W.
Beeman, M.R. Kanost, S.H. Gherke
Biomacromolecules, 100:470-471, 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
Journal of Plant Registrations, 4(1):67-
69, 2010
- 09-005-J Foraging on and consumption of two
species of papaya pest mites,
Tetranychus kanzawai and *Panonychus*
citri (Acari: Tetranychidae) by *Mallada*
basalis (Neuroptera: Chrysopidae)
L.L. Cheng, J.R. Nechols, D.C.
Margolies, J.F. Campbell, P.S. Yang,
C.C. Chen, C.T. Lu
Environmental Entomology, 38:715-
722, 2009

- 09-024-J Multiple season reductions in herbicide, downy brome (*Bromus tectorum*), and irrigation in corn
R.S. Currie, N.L. Klocke, H.N. Davis, L.L. Buschman
Weed Technology, 23(3):371-378, 2009
- 09-046-J Movement behavior of red flour beetle: Response to habitat cues and patch boundaries
S.A. Romero, J.F. Campbell, J.R. Nechols, K.A. With
Environmental Entomology, 39:919-929, 2010
- 09-078-J Identification, RNAi knockdown, and functional analysis of an ejaculate protein that mediates a postmating, prezygotic phenotype in a cricket
J.L. Marshall, D.L. Huestis, Y. Hiromasa, S. Wheeler, C. Oppert, S.A. Marshall, J.M. Tomich, B. Oppert
PLOS One, 4(10):e7537, 2009
doi:10.1371/journal.pone.0007537
- 09-114-J Plant spacing and weed control affect sunflower stalk insects and the girdling behavior of *Dectes texanus* (Coleoptera: Cerambycidae)
J.P. Michaud, P.A. Stahlman, J.L. Jyoti, A.K. Grant
Journal of Economic Entomology, 102:1044-1053, 2009
- 09-124-J Identification of variants of the High Plains virus infecting wheat in Kansas
D.L. Seifers, T.J. Martin, T.L. Harvey, S. Haber, O. Krokhin, V. Spicer, S. Ying, K.G. Standing
Plant Disease, 93(12):1265-1274, 2009
- 09-148-J The nature of resistance to *Dectes texanus* (Col., Cerambycidae) in wild sunflower, *Helianthus annuus*
J.P. Michaud, A.K. Grant
Journal of Applied Entomology, 133:518-523, 2009
- 09-177-J Global phylogenetics of *Diuraphis noxia* (Hemiptera: Aphididae), an invasive aphid species: Evidence for multiple invasions into North America
X. Liu, J.L. Marshall, P. Stary, O. Edwards, G. Puterka, L. Dolatti, M.E. Bouhssini, J. Malinga, C.M. Smith
Journal of Economic Entomology, 103:958-965, 2010
- 09-229-J Efficacy of methoprene applied at different temperatures and rates on surface substrates to control eggs and fifth instars of *Plodia interpunctella*
Hübner
E.A. Jenson, F.H. Arthur, J.R. Nechols
Journal of Economic Entomology, 102:1992-2002, 2009
- 09-251-J Inheritance and categories of resistance in wheat to Russian wheat aphid (Hemiptera: Aphididae) biotype 1 and biotype 2
S.A. Khan, M. Murugan, S. Starkey, A. Manley, C.M. Smith
Journal of Economic Entomology, 102:1654-1662, 2009
- 09-271-J The foraging behavior of *Lysiphlebus fabarum* (Marshall), a thelytokous parasitoid of the black bean aphid in Iran
A. Rasekh, J.P. Michaud, A. Kharazi-Pakdel, H. Allahyari, E. Soleymannejadian
Journal of Insect Behavior, 23:165-179, 2010
- 09-277-J Efficacy of an esfenvalerate plus methoprene aerosol for the control of eggs and fifth instars of *Plodia interpunctella* (Lepidoptera: Pyralidae)
E.A. Jenson, F.H. Arthur, J.R. Nechols
Insect Science, 17:21-28, 2010
- 09-278-J Transgenesis and paratransgenesis to control insect-borne diseases: Current status and future challenges
I.V. Coutinho-Abrea, K.Y. Zhu, M. Ramalho-Ortigao
Parasitology International, 59(1):1-8, 2010

- 09-289-J Assessment of house fly dispersal between rural and urban habitats in Kansas, USA
S. Chakrabarti, S. Kambhampati, L. Zurek
Journal of the Kansas Entomological Society, 83:172-188, 2010
- 09-306-J Assessment of prey preference by the generalist predator, *Mallada basalis* (Walker) (Neuroptera: Chrysopidae), when offered two species of spider mites, *Tetranychus kanzawai* Kishida and *Panonychus citri* (McGregor) (Acari: Tetranychidae), on papaya
L. Cheng, J.R. Nechols, D.C. Margolies, J.F. Campbell, P.S. Yang
Biological Control, 53:267-272, 2010
- 09-310-J Methoprene and synergized pyrethrins as an aerosol treatment to control *Plodia interpunctella* (Hubner), the Indian meal moth (Lepidoptera: Pyralidae)
E.A. Jenson, F.H. Arthur, J.R. Nechols
Journal of Stored Products Research, 46:103-110, 2010
- 09-327-J Horizontal transfer of the tetracycline resistance gene *tetM* mediated by pCF10 among *Enterococcus faecalis* in the house fly (*Musca domestica* L.) alimentary canal
M. Akhtar, H. Hirt, L. Zurek
Microbial Ecology, 58:509-518, 2009
- 09-348-J Characterization of the stable fly (Diptera : Muscidae) larval developmental habitat at round hay bale feeding sites
J. Talley, A. Broce, L. Zurek
Journal of Medical Entomology, 46(6):1310-1319, 2009
- 09-362-J Survival of *Enterococcus faecalis* (OG1RF:pCF10) in poultry and cattle feed: Vector competence of the red flour beetle, *Tribolium castaneum* (Herbst)
H.C. Lakshmikantha, B. Subramanyam, L. Zurek
Journal of Food Protection, 73:568-573, 2009
- 09-369-J Biorational approaches to managing stored-product insects
T.W. Phillips, J.E. Throne
Annual Review of Entomology, 55:375-397, 2010
- 09-391-J Plant architecture, prey distribution and predator release strategy interact to affect foraging efficiency of the predatory mite *Phytoseiulus persimilis* (Acari: Phytoseiidae) on cucumber
L.M. Gontijo, D.C. Margolies, J.R. Nechols, R.A. Cloyd
Biological Control, 53:136-141, 2010
- 09-395-J An insight into the transcriptome and proteome of the salivary gland of the stable fly, *Stomoxys calcitrans*
X. Wang, J.M. Ribeiro, A.B. Broce, M.J. Wilkerson, M.R. Kanost
Insect Biochemistry and Molecular Biology, 39:607-614, 2009
- 10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1007, August 2009
- 10-046-J Sulfuryl flouride fumigation effects on the safety, volatile composition, and sensory quality of dry cured ham
R.K. Sekhon, M.W. Schilling, T.W. Phillips, M.J. Aikins, M.M. Hasan, W.B. Mikel
Meat Science, 84:505-511, 2010
- 10-048-J Mass-rearing of the redlegged ham beetle, *Necrobia rufipes* De Geer (Coleoptera: Cleridae) for laboratory research
M.M. Hasan, T.W. Phillips
Journal of Stored Products Research, 46:38-42, 2010
- 10-151-S 2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1019, November 2009

10-160-S 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1023, December 2009

Publications without contribution numbers:

EST sequencing of blood-fed and Leishmania-infected midgut of *Lutzomyia longipalpis*, the principal visceral leishmaniasis vector in the Americas
A.N. Pitaluga, V. Beteille, A.R. Lobo, J.R.O. Farias, A.M. Dávila, A.A. Souza, J.M. Ramalho-Ortigao, Y.M. Traub Cseko
Molecular Genetics and Genomics, 282:307-317, 2009

Effects of cowpea varietal susceptibility and low pressure on the mortality of life stages of *Callosobruchus maculatus* (Coleoptera: Bruchidae)
G.N. Mbata, T.W. Phillips, M.W.E. Payton
Journal of Stored Product Research, 45:232-235, 2009

High Plains sunflower production handbook
Multiple authors
Coordinating author: J.P. Michaud
KS Agric. Exp. Stn. MF2384, 2009

Insect population dynamics in commercial grain elevators
P.W. Flinn, D.W. Hagstrum, C. Reed, T.W. Phillips
Journal of Stored Product Research, 46:43-47, 2010

Ecology and IPM of insects at grain elevators and flat storages
D.W. Hagstrum, P.W. Flinn, C.R. Reed, T.W. Phillips
Biopesticides International, 6:1-20, 2010

Food Science Institute

09-133-J Evaluation of two thermal processing schedules at low relative humidity for elimination of *Escherichia coli* O157:H7 and *Salmonella* serovars in chopped and formed beef jerky
N. Harper, M.N. Roberts, K.J.K. Getty, E.A.E. Boyle, D.Y.C. Fung
Journal of Food Protection, 72(12):2476-2482, 2009

Geography

09-169-J SWAT discharge response to spatial rainfall variability in a Kansas watershed
P. Tuppad, K.R. Douglas-Mankin, J.K. Koelliker, J.M.S. Hutchinson
Transactions of the ASABE, 2010

Grain Science and Industry

05-130-J Improved water resistance of soy protein adhesive at isoelectric point
D. Wang, X.S. Sun, G. Yang, Y. Wang
Transactions of the ASABE, 52(1):173-177, 2009

08-142-J A review of stored-product entomology information sources
D.W. Hagstrum, B. Subramanyam
American Entomologist, 55:174-183, 2009

08-239-J FT-IR microscopic imaging of plant material
D.L. Wetzel
In: Infrared and raman spectroscopic imaging, R. Salzer, H.W. Siesler (Eds.). Weinheim, Germany: Wiley-VCH Verlag GmbH & Co. KGaA, pp. 225-258, 2009

08-377-J Effect of an enzyme preparation on wheat flour and dough color, mixing, and test baking
B.P. Lamsal, J.M. Faubion
Food and Science Technology, 42:1461-1467, 2009

- 09-009-J Germination-improved ethanol fermentation performance of high-tannin sorghum in a laboratory dry-grind process
S. Yan, X. Wu, F. MacRitchie, D. Wang
Cereal Chemistry, 86(6):597-600, 2009
- 09-026-J Innovative FT-IR imaging of protein film secondary structure before and after heat treatment
E.S. Bonwell, D.L. Wetzel
Journal of Agricultural and Food Chemistry, 57(21):10067-10072, 2009
- 09-060-J Sodium bisulfite-induced changes in physiochemical, surface and adhesive properties of soy β -conglycinin
L. Zhang, X.S. Sun
Journal of the American Oil Chemists' Society, 87(5):583-590, 2009
- 09-130-J Ice cream: Foam formation and stabilization - A review
X. E, Z.J. Pei, K.A. Schmidt
Food Reviews International, 26(2):122-137, 2010
- 09-139-J Determination of phytic acid in cereals - A brief review
P. Wu, J.C. Tian, C.E. Walker, F.C. Wang
International Journal of Food Science and Technology, 44:1671-1676, 2009
- 09-150-J Effects of alkaline treatment on the structure of phosphorylated wheat starch and its digestibility
Y. Sang, P.A. Seib, A.I. Herrera, O. Prakash, Y-C. Shi
Food Chemistry, 118:323-327, 2010
- 09-178-J Dough rheology and wet milling of hard waxy wheat flours
L. Guan, P.A. Seib, R.A. Graybosch, S. Bean, Y-C. Shi
Journal of Agricultural and Food Chemistry, 57:7030-7038, 2009
- 09-179-J Phenotypic expression in wheat revealed using FT-IR microspectroscopy
L.R. Brewer, D.L. Wetzel
Vibrational Spectroscopy, 52(1):93-96, 2009
- 09-210-J FT-IR microspectroscopy enhances biological and ecological analysis of algae
J.N. Murdock, D.L. Wetzel
Applied Spectroscopy Reviews, 44(4):335-361, 2009
- 09-252-J Subzero glass transition of waxy maize starch studied by differential scanning calorimetry
Y. Sang, Y-C. Shi, S. Alavi
Starch, 61(12):687-695, 2009
- 09-266-J Consumption of cross-linked resistant starch (type RS4XL) on glucose and insulin responses in humans
E.K. Al-Tamimi, P.A. Seib, B.S. Snyder, M.D. Haub
Journal of Nutrition and Metabolism, 2009
doi:10.1155/2010/651063
- 09-270-J Ethanol production from orange peels: Two-stage hydrolysis and fermentation studies using optimized parameters through experimental design
H.S. Oberoi, P.V. Vadlani, L. Saida, J.P. Abeykoon, R.L. Madl
Journal of Agriculture & Food Chemistry, 58(6):3422-3429, 2010
- 09-284-J Effect of peptide sequence on surface properties and self-assembly of an amphiphilic pH-responsive peptide
J.N. Shera, X.S. Sun
Biomacromolecules, 10:2446-2450, 2009
- 09-301-J Underlying reasons for waxy rice flours having different pasting properties
L-J. Zhu, Q-Q. Liu, Y-J. Sang, M-H. Gu, Y-C. Shi
Food Chemistry, 120(1):94-100, 2010
- 09-312-J Properties of field-sprouted sorghum and their performance on ethanol production
S. Yan, X. Wu, J. Dahlberg, F. MacRitchie, J.D. Wilson, D. Wang
Journal of Cereal Science, 51(3):374-380, 2010

- 09-330-J Comparison of methods for extracting kafirin proteins from sorghum distillers dried grains with solubles
Y. Wang, M. Tilley, S. Bean, S. Sun, D. Wang
Journal of Agricultural and Food Chemistry, 57(18):8366-8372, 2009
- 09-340-J Effect of sieve tension in quadrumat senior laboratory milling
R.A. Miller, J.A. Gwartz
Cereal Chemistry, 86(6):665-668, 2009
- 09-356-J Quantitative characterization of polar lipids from wheat whole-meal, flour, and starch
S.M. Finnie, R. Jeannotte, J.M. Faubion
Cereal Chemistry, 86(6):637-645, 2009
- 09-357-J Variation in polar lipids located on the surface of wheat starch
S.M. Finnie, R. Jeannotte, C.F. Morris, M. Giroux, J.F. Faubion
Journal of Cereal Science, 51:73-80, 2010
- 09-358-J Variation in polar lipids composition with near-isogenic wheat lines containing different puroindoline haplotypes
S.M. Finnie, R. Jeannotte, C.F. Morris, M. Giroux, J.F. Faubion
Journal of Cereal Science, 51:66-72, 2010
- 09-362-J Survival of *Enterococcus faecalis* (OG1RF:pCF10) in poultry and cattle feed: Vector competence of the red flour beetle, *Tribolium castaneum* (Herbst)
H.C. Lakshmikantha, B. Subramanyam, L. Zurek
Journal of Food Protection, 73:568-573, 2009
- 09-382-J Mechanical and thermal properties, morphology, relaxation characteristics of poly (lactic acid) and soy flour/wood flour blends
Y. Li, X.S. Sun, K. Venkateshan
Polymer International, 59(8):1099-1109, 2010
- 10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1007, August 2009
- 10-062-B Analysis of extraneous matter
H. Dogan, B. Subramanyam, J.R. Pedersen
In: Food analysis, S. Nielsen (Ed.). New York: Springer, pp. 351-366, 2010
- 10-159-J Evaluation and characterization of sorghum biomass as feedstock for sugar production
K. Theerarattananoon, X. Wu, S. Staggenborg, J. Propheter, R. Madl, D. Wang
Transactions of the ASABE, 53(2):509-525, 2010
- 10-185-J Sorghum proteins: The concentration, isolation, modification, and food applications of kafirins
N.J. de Mesa-Stonestreet, S. Alavi, S.R. Bean
Journal of Food Science, 75(5):90-104, 2010
- 10-278-J Preparation and characterization of polymer-inorganic nanocomposites by in situ melt polycondensation of L-lactic acid and surface-hydroxylated MgO
Y. Li, X.S. Sun
Biomacromolecules, 11:1847-1855, 2010
doi:10.1021/bm100320q
- 10-327-A Comparison of different pretreatment methods on cellulosic conversion of photoperiod-sensitive sorghum
F. Xu, Y-C. Shi, D. Wang
2010 ASABE Annual International Meeting
Pittsburgh, PA, June 21-June 24, 2010, Paper No. 1008872

Horticulture, Forestry, and Recreation Resource

- 05-008-J Evaluation of plant defense activators for dollar spot and brown patch control on creeping bentgrass putting greens
Q. Zhang, J. Fry, N. Tisserat
International Turfgrass Society Research Journal, 10:180-185, 2005
- 06-155-J Calcium silicate fails to reduce foliar diseases on creeping bentgrass and tall fescue
J. Fry, Q. Zhang, K. Lowe, N. Tisserat
Turfgrass Trends, 2006
- 08-123-J Can older gardeners meet the physical activity recommendation through gardening?
S. Park, C. Shoemaker, M. Haub
HortTechnology, 18(4):639-643, 2008
- 08-349-J Improved zoysiagrass cultivar could have use in transition zone
J. Fry, Q. Zhang, D. Okeyo, M. Engelke, D. Genovesi
Golfdom, Turfgrass Trends, August 1, 2008
<http://www.golfdom.com/cultivation/improved-zoysia-cultivar-could-have-use-transition>
- 09-032-J Environmental stresses induce health-promoting phytochemicals in lettuce
M-M. Oh, E. Carey, C.B. Rajashekar
Plant Physiology and Biochemistry, 47:578-583, 2009
- 09-081-J A model for healthy aging with horticulture
C.A. Shoemaker, M. Lin
Acta Horticulturae, 775:93-98, 2008
- 09-092-J How to measure exercise intensity of gardening tasks as a physical activity for older adults using metabolic equivalents
S. Park, C.A. Shoemaker, M.D. Haub
Acta Horticulturae, 775:37-40, 2008

- 09-389-J Membrane lipid composition and heat tolerance in cool-season turfgrasses including a hybrid bluegrass
K. Su, D.J. Bremer, R. Jeannotte, C. Yang, R. Welti
Journal of the American Society for Horticultural Science, 134(5):511-520, 2009
- 09-392-J Moss control on creeping bentgrass greens with standard and alternative approaches
M. Kennelly, D.M. Settle, T.C. Todd, J.D. Fry
HortScience, 45:654-659, 2010

Hospitality Management and Dietetics

Publications without contribution numbers

Customer orientation of service employees and rapport: Influences on service-outcome variables in full-service restaurants
W. Kim, C. Ok
Journal of Hospitality & Tourism Research, 34(1):34-55, 2010

Contingency variables for customer share of visits to full-service restaurants
W. Kim, C. Ok, D. Canter
International Journal of Hospitality Management, 29(1):136-147, 2010

Human Nutrition

- 97-392-J The proliferative effects of retinoic acid on primary cultures of adult rat type II pneumocytes depend upon cell density
R.C. Baybutt, B.W. Smith, E.V. Donskaya, L. Hu, T. Li, W. Wang
In Vitro Cellular & Developmental Biology – Animal, 2009
doi:10.1007/s11626-009-9236-z
- 06-200-J Weight loss via exercise with controlled dietary intake may affect phospholipid profile for cancer prevention in murine skin tissues
P. Ouyang, Y. Jiang, H.M. Doan, L. Xie, D. Vasquez, R. Welti, Z. Su, N. Lu, B. Herndon, S-S. Yang, R. Jeannotte, W. Wang
Cancer Prevention Research, 3(4):466-477, 2010

- 08-123-J Can older gardeners meet the physical activity recommendation through gardening?
S. Park, C. Shoemaker, M. Haub
HortTechnology, 18(4):639-643, 2008
- 09-003-B Lignan biosynthesis enhancement in transgenic wheat
A.K. Ayella, W. Wang
In: Agriculture Research and Technonolgy, K. Bundgaard and L. Isaksen (Eds.). Hauppauge, New York: Nova Science Publishers, pp. 441-450, 2010
- 09-016-J Mitochondrial and sarcoplasmic protein changes in hearts from copper deficient rats: Upregulation of PGC1- α transcript and protein as a cause for mitochondrial biogenesis in copper deficiency
D.M. Medeiros, Y. Jiang, D. Klahsen, D. Lin
Journal of Nutritional Biochemistry, 20:823-830, 2009
- 09-092-J How to measure exercise intensity of gardening tasks as a physical activity for older adults using metabolic equivalents
S. Park, C.A. Shoemaker, M.D. Haub
Acta Horticulturae, 775:37-40, 2008
- 09-117-J Prediction of Japanese colour score
S.M. Ryan, J.A. Unruh, K. Adhikari, M.C. Hunt, C. Schultz-Kaster, J.O. Matthews
Meat Science, 84:165-171, 2010
- 09-266-J Cosumption of cross-linked resistant starch (type RS4XL) on glucose and insulin responses in humans
E.K. Al-Tamimi, P.A. Seib, B.S. Snyder, M.D. Haub
Journal of Nutrition and Metabolism, 2009
doi:10.1155/2010/651063
- 10-172-J Selenium, but not lycopene or vitamin E, decreases growth of transplantable dunning R3327-H rat prostate tumors
B.L. Lindshield, N.A. Ford, K. Canene-Adams, A.M. Diamond, M.A. Wallig, J.W. Erdman, Jr.
PLOS One, 5(4), 2010

Plant Pathology

- 05-008-J Evaluation of plant defense activators for dollar spot and brown patch control on creeping bentgrass putting greens
Q. Zhang, J. Fry, N. Tisserat
International Turfgrass Society Research Journal, 10:180-185, 2005
- 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
- 07-205-J Comparison of natural populations of *Mycosphaerella graminicola* from single fields in Kansas and California
M. Kabbage, S.H. Hulbert, J.F. Leslie, B. Bockus
Physiological and Molecular Plant Pathology, 74:55-59, 2009
- 07-207-J Genetic diversity of *Mycosphaerella graminicola*, the causal agent of Septoria leaf blotch, in Kansas winter wheat
M. Kabbage, S.H. Hulbert, J.F. Leslie, B. Bockus, K. Zeller
Journal of Agricultural Food and Environmental Sciences, 2(1), 2008
- 08-131-J Intraspecific functional diversity in hosts and its effects on disease risk across a climatic gradient
K.A. Garrett, L.N. Zuniga, E. Roncal, G.A. Forbes, C.C. Mundt, Z. Su, R.J. Nelson
Ecological Applications, 19:1868-1883, 2009
- 08-140-J Beyond yield: Plant disease in the context of ecosystem services
M.R. Cheatham, M.N. Rouse, P.D. Esker, S. Ignacio, W. Pradel, R. Raymundo, A.H. Sparks, G.A. Forbes, T.R. Gordon, K.A. Garrett
Phytopathology, 99(11):1228-1236, 2009

- 08-151-J Aphid feeding activates expression of a transcriptome of oxylipin-based defense signals in wheat involved in resistance to herbivory
C.M. Smith, X.M. Liu, L.J. Wang, X. Liu, M.S. Chen, S. Starkey, J. Bai
Journal of Chemical Ecology, 36:260-276, 2010
- 08-236-J Estimating the risk of crop epidemics from coincident spatiotemporal processes
M. Haran, L.S. Bhat, J. Molineros, E. De Wolf
Journal of Agricultural, Biological, and Environmental Statistics, 15:158-175, 2009
- 08-292-J *Pseudomonas syringae* pv. phaseolicola mutants compromised for type III secretion system gene induction
X. Deng, Y. Xiao, L. Lan, J.M. Zhou, X. Tang
Molecular Plant-Microbe Interactions, 22:964-976, 2009
- 08-347-B Cytogenetic analysis of wheat and rye genomes
B.S. Gill, B. Friebe
In: Genetics and genomics of the Triticeae, plant genetics/genomics: Crops and models, C. Feuillet, G.J. Muehlbauer (Eds.).
New York, NY: Springer Science and Business Media, pp. 121-135, 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
Journal of Plant Registrations, 4(1):67-69, 2010
- 09-004-J The major threshability genes soft glume (*sog*) and tenacious glume (*Tg*), of diploid and polyploid wheat, trace their origin to independent mutations at non-orthologous loci
S. Sood, V. Kuraparthi, G. Bai, B.S. Gill
Theoretical and Applied Genetics, 119:341-351, 2009
- 09-062-J A benefit of high temperature: Increased effectiveness of a rice bacterial blight disease resistance gene
K.M. Webb, I. Ona, J. Bal, K.A. Garrett, T-W. Mew, C. Vera Cruz, J.E. Leach
New Phytologist, 185:568-576, 2010
- 09-066-J Wheat-*Thinopyrum intermedium* recombinants resistant to *wheat streak mosaic virus* and *Triticum mosaics virus*
B. Friebe, L.L. Qi, D.L. Wilson, Z.J. Chang, D.L. Seifers, T.J. Martin, A.K. Fritz, B.S. Gill
Crop Science, 49:1221-1226, 2009
- 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
Applied Soil Ecology, 43(1):122-130, 2009
- 09-115-J The grain mold pathogen, *Fusarium thapsinum*, reduces caryopsis formation in *Sorghum bicolor*
C.R. Little, C.W. Magill
Journal of Phytopathology, 157:518-519, 2009
- 09-118-B Challenges and approaches to statistical design and inference in high dimensional investigations
G.L. Gadbury, K.A. Garrett, D.B. Allison
In: Plant systems biology, D.A. Belostotsky (Ed.).
Totowa, NJ: The Humana Press Inc., pp. 181-206, 2009
- 09-191-B *Fusarium* genetics and pathogenicity
J.F. Leslie, J-R. Xu
In: Cellular and molecular biology of filamentous fungi, K.A. Borkovich, D. Ebbole (Eds.).
Washington, DC: ASM Press, pp. 607-621, 2010

- 09-206-J Disciplinary, institutional, funding, and demographic trends in plant pathology: What does the future hold for the profession?
D.M. Gadoury, J. Andrews, K. Baumgartner, M. Bjerkness, T.J. Burr, M.M. Kennelly, A. Lichens-Park, J. MacDonald, S. Savary, H. Scherm, A. Talley, G-L. Wang
Plant Disease, 93:1228-1237, 2009
- 09-218-J Variation in gene expression of *Andropogon gerardii* in response to altered environmental conditions associated with climate change
S.E. Travers, Z. Tang, D. Caragea, K.A. Garrett, S.H. Hulbert, J.E. Leach, J. Bai, A. Saleh, A.K. Knapp, P.A. Fay, J. Nippert, P.S. Schnable, M.D. Smith
Journal of Ecology, 98:374-383, 2010
- 09-236-J Relatedness of *Macrophomina phaseolina* isolates from tallgrass prairie, maize, soybean, and sorghum
A.A. Saleh, H.U. Ahmed, T.C. Todd, S.E. Travers, K.A. Zeller, J.F. Leslie, K.A. Garrett
Molecular Ecology, 19:79-91, 2010
- 09-293-J Recombinant *Rp1* genes confer necrotic or nonspecific resistance phenotypes
S.M. Smith, M. Steinau, H.N. Trick, S.H. Hulbert
Molecular Genetics and Genomics, 283:591-602, 2010
- 09-308-J Rapid in planta evaluation of root expressed transgenes in chimeric soybean plants
J. Li, T.C. Todd, H.N. Trick
Plant Cell Reports, 29:113-123, 2010
- 09-313-J Effect of nozzle type and water volume on dollar spot control in greens-height creeping bentgrass
M.M. Kennelly, R.E. Wolf
Applied Turfgrass Science, 2008
doi:10.1094/ATS-2009-0921-01-RS
- 09-334-J A molecular-cytogenetic method for locating genes to pericentromeric regions facilitates a genome-wide comparison of synteny between the centromeric regions of wheat and rice
L. Qi, B. Friebe, P. Zhang, B.S. Gill
Genetics, 183:1235-1247, 2009
- 09-335-J Wheat-rye recombinants with resistance to Hessian fly (*H21*)
J.C. Cainong, L. Zavatsky, M.S. Chen, J. Johnson, B. Friebe, B.S. Gill, A.J. Lukaszewski
Crop Science, 50:920-925, 2010
- 09-352-J Deletion and overexpression of the *Aspergillus nidulans* GATA factor AreB reveals unexpected pleiotropy
K.H. Wong, M.J. Hynes, R.B. Todd, M.A. Davis
Microbiology, 155(12):3868-3880, 2009
- 09-392-J Moss control on creeping bentgrass greens with standard and alternative approaches
M. Kennelly, D.M. Settle, T.C. Todd, J.D. Fry
HortScience, 45:654-659, 2010
- 10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1007, August 2009
- 10-013-D Annual wheat newsletter
W.J. Raupp
Plant Pathology Department Report, volume 55, 2009, 298 pp.
<http://wheat.pw.usda.gov/ggpages/awn/55/>
- 10-053-J The type III effectors of *Xanthomonas*
F.F. White, N. Potnis, J.B. Jones, R. Koebnik
Molecular Plant Pathology, 10:749-766, 2009
- 10-054-J Host and pathogen factors controlling the Rice-*Xanthomonas oryzae* interaction
F.F. White, B. Yang
Plant Physiology, 150:1677-1686, 2009
- 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

- 10-071-B Application of aerobiology to IPM
S. Isard, D. Mortensen, S. Fleischer,
E.D. De Wolf
In: Integrated pest management:
Concepts, tactics, strategies, and case
studies, B. Radcliffe, W.D. Hutchison,
R.E. Cancelado (Eds.).
New York: Cambridge University
Press, pp. 550, 2009
- 10-072-B Plant pathogens as indicators of climate
change
K.A. Garrett, M. Nita, E.D. De Wolf, L.
Gomez, A.H. Sparks
In: Climate change: Observed impacts
on plant earth, T.M. Letcher (Ed.).
Amsterdam: Elsevier, pp. 492, 2009
- 10-077-J Genome comparisons reveal a dominant
mechanism of chromosome number
reduction in grasses and accelerated
genome evolution in Triticeae
M.C. Luo, K.R. Deal, E.D. Akhunov,
A.R. Akhunova, O.D. Anderson, J.A.
Anderson, N. Blake, M.T. Clegg, D.
Coleman-Derr, E.J. Conley, C.C.
Crossman, J. Dubcovsky, B.S. Gill,
Y.Q. Gu, J. Hadam, H.Y. Heo, N. Huo,
G. Lazo, Y. Ma, D.E. Matthews, P.E.
McGuire, P.L. Morrell, C.O. Qualset, J.
Renfro, D. Tabanao, L.E. Talbert, C.
Tian, D.M. Toleno, M.L. Warburton,
F.M. You, W. Zhang, J. Dvorak
Proceedings of the National Academy
of Sciences, 106:15780-15785, 2009
- 10-084-J A benefit of high temperature:
Increased effectiveness of a rice
bacterial blight disease resistance gene
K.M. Webb, I. Ona, J. Bai, K.A.
Garrett, T. Mew, C.M. Vera Cruz, J.E.
Leach
New Phytologist, 185:568-576, 2010
- 10-085-B Diagnostic networks for plant
biosecurity
J.P. Stack
In: Knowledge and technology transfer
for plant pathology, N. Hardwick, M.L.
Gullino (Eds.).
Dordrecht: Springer, pp. 124, 2010
- 10-086-B Bioterrorism: A threat to plant
biosecurity?
J.P. Stack, F. Suffert, M.L. Gullino
In: The role of plant pathology in food
safety and food security, R.N. Strange,
M.L. Gullino (Eds.).
Dordrecht: Springer, pp. 155, 2010
- 10-091-J *Uromyces ciceris-arietini*, the cause of
chickpea rust: New hosts in the
Trifolieae, Fabaceae
D.L. Stuteville, W.L. Graves, L.J.
Dixon, L.A. Castlebury, A.M. Minnis
Plant Disease, 94:293-297, 2010
- 10-134-J Analysis of expressed sequence tags for
Frankliniella occidentalis, the western
flower thrips
D. Rotenberg, A.E. Whitfield
Insect Molecular Biology, 19(4):537-
551, 2010
- 10-141-B *Magnaporthe oryzae* and rice blast
disease
C-H. Khang, B. Valent
In: Cellular and molecular biology of
filamentous fungi, K. Borkovich, D.
Ebbole (Eds.).
Washington DC: ASM Press, pp. 802,
2010
- 10-151-S 2009 Kansas Performance Tests with
Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog.
1019, November 2009
- 10-160-S 2009 Kansas Performance Tests with
Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog.
1023, December 2009
- 10-194-B Transgenic plants in breeding and crop
production: Soybean
J.M. Widholm, J.J. Finer, L.O. Vodkin,
H.N. Trick, P. LaFayette, J. Li, W.
Parrott
In: Genetic modification of plants -
Agriculture, horticulture, and forestry,
F. Kempken, C. Jung (Eds.).
Berlin: Springer Verlag and New York:
Heidelberg, pp. 675, 2010

- 10-198-J *Caenorhabditis elegans* genomic response to soil bacteria predicts environment-specific genetic effects on life history traits
J.D. Coolon, K.L. Jones, T.C. Todd, B.C. Carr, M.A. Herman
PLoS Genetics, 5(6):e1000503.
doi:10.1371/journal.pgen.1000503
- 10-249-J Feasibility of physical map construction from fingerprinted bacterial artificial chromosome libraries of polyploid plant species
M.C. Luo, Y.Q. Ma, F.M. You, O.D. Anderson, D. Kopecky, H. Simkova, J. Safar, J. Dolezel, B.S. Gill, P.E. McGuire, J. Dvorak
BMC Genomics, 11:122, 2010
- 10-254-B Advances in genetics, genomics and control of rice blast disease
G-L. Wang, B. Valent (Eds.).
New York: Springer Science and Business Media, pp. 464, 2009
- 10-257-S Agricultural Research 2010
Multiple authors
KS Agric. Exp. Stn. Report of Prog. 1033, April 2010
- 10-268-J Recent advances in rice blast effector research
B. Valent, C.H. Khang
Current Opinion in Plant Biology, 13(4):434-441, 2010
- 10-272-J Translocation of Magnaporthe oryzae effectors into rice cells and their subsequent cell-to-cell movement
C.H. Khang, R. Berruyer, M.C. Giraldo, P. Kankanala, S-Y. Park, K. Czymmek, S. Kang, B. Valent
The Plant Cell, 22:1388-1403, 2010
- Statistics**
- 06-094-J Long-term response patterns of tallgrass prairie to frequent summer burning
E.G. Towne, K.E. Kemp
Journal of Rangeland Ecology & Management, 61:509-520, 2008
- 06-200-J Weight loss via exercise with controlled dietary intake may affect phospholipid profile for cancer prevention in murine skin tissues
P. Ouyang, Y. Jiang, H.M. Doan, L. Xie, D. Vasquez, R. Welti, Z. Su, N. Lu, B. Herndon, S-S. Yang, R. Jeannotte, W. Wang
Cancer Prevention Research, 3(4):466-477, 2010
- 06-232-J Effects of melengestrol acetate on L-selectin and β 2-integrin expression of polymorphonuclear leukocytes from heifers challenged with lipopolysaccharide
M.E. Corrigan, J.S. Drouillard, C.R. Wyatt, E.R. Loe, B.E. Depenbusch, A.S. Webb, M.J. Quinn, H-F. Wang, J.J. Higgins
International Journal of Applied Research in Veterinary Medicine, 7:169-180, 2009
- 08-082-J Effects of dry-rolled or steam-flaked corn finishing diets with or without 25% distiller's dried grains on ruminal fermentation and apparent total tract digestion
M.L. May, M.J. Quinn, C.D. Reinhardt, L. Murray, M.L. Gibson, K.K. Karges, J.S. Drouillard
Journal of Animal Science, 87:3630-3638, 2009
- 08-135-J Effects of pH, lactate cation, and lactate ion concentration on *in vitro* metmyoglobin-reducing activity
S. Hutchinson, M. Seyfert, M.C. Hunt, J.J. Higgins
Journal of Muscle Foods, 21(1):79-86, 2010
- 09-013-J Optimizing use of distillers grains in finishing diets containing steam-flaked corn
B.E. Depenbusch, E.R. Loe, J.J. Sindt, J.J. Higgins, J.S. Drouillard, N.A. Cole
Journal of Animal Science, 87(8):2644-2652, 2009

- 09-070-J Effects of increasing levels of dried corn distillers grains with solubles on growth performance, carcass characteristics, and meat quality of yearling heifers
B.E. Depenbusch, C.M. Coleman, J.J. Higgins, J.S. Drouillard
Journal of Animal Science, 87(8):2653-2663, 2009
- 09-079-J Size distribution and rate of dust generated during grain elevator handling
J.M. Boac, R.G. Maghirang, M.E. Casada, J.D. Wilson, Y.S. Jung
Applied Engineering in Agriculture, 25(4):533-541, 2009
- 09-106-J Effects of dry aging of bone-in and boneless strip loins using two aging processes for two aging times
S.L. DeGeer, M.C. Hunt, C.L. Bratcher, B.A. Crozier-Dodson, D.E. Johnson, J.F. Stika
Meat Science, 83:768-774, 2009
- 09-118-B Challenges and approaches to statistical design and inference in high dimensional investigations
G.L. Gadbury, K.A. Garrett, D.B. Allison
In: Plant systems biology, D.A. Belostotsky (Ed.).
Totowa, NJ: The Humana Press Inc., pp. 181-206, 2009
- 09-144-J Effects of zilpaterol hydrochloride feeding duration on crossbred beef semimembranosus steak color in aerobic or modified atmosphere packaging
J.A. Gunderson, M.C. Hunt, T.A. Houser, E.A.E. Boyle, M.E. Dikeman, D.E. Johnson, D.L. VanOverbeke, G.G. Hilton, C. Brooks, J. Killefer, D.M. Allen, M.N. Streeter, W.T. Nichols, J.P. Hutcheson, D.A. Yates
Journal of Animal Science, 87(11):3739-3750, 2009
- 09-151-J Feeding zilpaterol hydrochloride to calf-fed Holsteins has minimal effects on semimembranosus steak color
J.A. Gunderson, M.C. Hunt, T.A. Houser, E.A.E. Boyle, M.E. Dikeman, D.E. Johnson, D.L. VanOverbeke, G.G. Hilton, C. Brooks, J. Killefer, D.M. Allen, M.N. Streeter, W.T. Nichols, J.P. Hutcheson, D.A. Yates
Journal of Animal Science, 87(11):3751-3763, 2009
- 09-268-J Pregnancy outcome after insemination of frozen-thawed bovine semen packaged in two straw sizes: A meta-analysis
J.S. Stevenson, J.J. Higgins, Y. Jung
Journal of Dairy Science, 92:4432-4438, 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
- 10-014-S Swine Day 2009
Multiple authors
Coordinating author: R. Goodband
KS Agric. Exp. Stn. Report of Prog. 1020, November 2009
- 10-305-A Estimating sward forage mass and crude protein
J.L. Moyer, R.R. Price, J.J. Higgins, L.W. Lomas
Proceedings of the American Forage and Grassland Council Conference
Springfield, MO, June 2010, pp. 6

Agricultural Research Center–Hays

- 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
Crop Science, 49:1221-1226, 2009

- 09-080-J Effect of postemergence mesotrione application timing on grain sorghum
M. Joy, M. Abit, K. Al-Khatib, R.S. Currie, P.W. Stahlman, P.W. Geier, B.W. Gordon, B.L.S. Olson, M.M. Claassen, D.L. Regehr
Weed Technology, 24:85-90, 2010
- 09-124-J Identification of variants of the High Plains virus infecting wheat in Kansas
D.L. Seifers, T.J. Martin, T.L. Harvey, S. Haber, O. Krokhin, V. Spicer, S. Ying, K.G. Standing
Plant Disease, 93(12):1265-1274, 2009
- 09-148-J The nature of resistance to *Dectes texanus* (Col. Cerambycidae) in wild sunflower, *Helianthus annuus*
J.P. Michaud, A.K. Grant
Journal of Applied Entomology, 133:518-523, 2009
- 09-152-J No-till induced increase in organic carbon reduces maximum bulk density of soils
H. Blanco-Canqui, L.R. Stone, A.J. Schlegel, D.J. Lyon, M.F. Vigil, M.M. Mikha, P.W. Stahlman, C.W. Rice
Soil Science Society of America Journal, 73:1871-1879, 2009
- 09-170-J Regional study of no-till impacts on near-surface aggregate properties that influence soil erodibility
H. Blanco-Canqui, M.M. Mikha, J.G. Benjamin, L.R. Stone, A.J. Schlegel, D.J. Lyon, M.F. Vigil, P.W. Stahlman
Soil Science Society of America Journal, 73:1361-1368, 2009
- 09-189-J Using long-term relative yield and quality to select adapted small grain forages
K.R. Harmony, C.A. Thompson
Forage and Grazinglands, 2010
doi:10.1094/FG-2010-0125-01-RS
- 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
- 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
- 10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1007, August 2009
- 10-028-J Energy crops and their implications on soil and environment
H. Blanco-Canqui
Agronomy Journal, 102(2):403-419, 2010
- 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
- 10-151-S 2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: W. Aschwege
KS Agric. Exp. Stn. Report of Prog. 1019, November 2009
- 10-160-S 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: W. Aschwege
KS Agric. Exp. Stn. Report of Prog. 1023, December 2009
- 10-212-S Field Research 2010
Multiple authors
Coordinating authors: H. Blanco, P.W. Stahlman
KS Agric. Exp. Stn. Report of Prog. 1030, April 2010
- 10-220-S 2009 Kansas Performance Tests with Sunflower Hybrids
Multiple authors
Coordinating author: W. Aschwege
KS Agric. Exp. Stn. Report of Prog. 1024, January 2010

Publications without contribution numbers

Characterization of specific passive immunity stimulated by vaccination of beef cows grazing native range with *E. coli* O157:H7-SRP

B.W. Wileman, D.U. Thompson, KC Olson, L.A. Pacheco, J.R. Jaeger, D.T. Burkhardt, J. Sandstrom, D.A. Emery
Bovine Practitioner, 44:12-16, 2010

Contingent productivity responses to more extreme rainfall regimes across a grassland biome

J.L. Heisler-White, J.M. Blair, E.F. Kelly, K. Harmony, A.K. Knapp
Global Change Biology, 15(12):2894-2904, 2009
doi:10.1111/j.1365-2486.2009.01961.x

High Plains sunflower production handbook

Multiple authors

Coordinating author: J.P. Michaud
KS Agric. Exp. Stn. MF2384, 2009

Top-dress applications of UAN fertilizer with herbicides on wheat

Multiple authors

Coordinating author: P.W. Stahlman
KS Agric. Exp. Stn. MF2903, 2009

Northwest Research–Extension Center

10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties

Multiple authors

Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1007, August 2009

10-107-J Effect of dripline flushing velocity on subsurface drip irrigation systems

J. Puig-Bargués, F.R. Lamm, T.P.

Tooien, G.A. Clark

Transactions of the ASABE, 53(1):147-155, 2010

10-108-J Subsurface drip irrigation emitter spacing effects on soil water redistribution, corn yield and water productivity

G.P. Arbat, F.R. Lamm, A.A. Abou Kheira

Applied Engineering in Agriculture, 26(3):391-399, 2010

10-109-A Managing the challenges of subsurface drip irrigation

F.R. Lamm

Proceedings of the 2009 Irrigation Association Technical Conference
San Antonio, TX, 2009

10-110-A Summary of twenty years of Kansas SDI research

F.R. Lamm, D.H. Rogers, M. Alam, D. O'Brien, T. Trooien

Proceedings of the 2009 Irrigation Association Technical Conference
San Antonio, TX, 2009

10-111-A Impact of management on the life expectancy of drip systems

J. Encisco-Medina, W.L. Multer, F.R. Lamm

Proceedings of the 2009 Irrigation Association Technical Conference
San Antonio, TX, 2009

10-112-A Microirrigation for sustainable water use: Research and outreach through a multi-state collaboration

D.O. Porter, F.R. Lamm, L.J. Schwankl, K.A. Shackel

Proceedings of the 2009 Irrigation Association Technical Conference
San Antonio, TX, 2009

10-113-A Effect of the changing U.S. economy on the relative profitability of center pivot sprinklers and SDI systems

D.M. O'Brien, F.R. Lamm, D.H. Rogers, T.J. Dumler

Proceedings of the 2009 Irrigation Association Technical Conference
San Antonio, TX, 2009

10-114-A Using SDI to effectively irrigate with biological effluent

T.P. Trooien, D.J. Hills, F.R. Lamm

Proceedings of the 2009 Irrigation Association Technical Conference
San Antonio, TX, 2009

10-151-S 2009 Kansas Performance Tests with Corn Hybrids

Multiple authors

Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1019, November 2009

- 10-160-S 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
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. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1022, December 2009
- 10-183-J Effect of flushing frequency on emitter clogging in microirrigation with effluents
J. Puig-Bargués, G. Arbat, M. Elbana, M. Duran-Ros, J. Barragan, F. Ramirez de Cartagena, F.R. Lamm
Agricultural Water Management, 97(6):883-891, 2010
- 10-212-S Field Research 2010
Multiple authors
Coordinating author: J. Shroyer
KS Agric. Exp. Stn. Report of Prog. 1030, 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
- 10-224-J Sunflower, soybean, and grain sorghum crop production as affected by dripline depth
F.R. Lamm, A.A. Abou Kheira, T.P. Trooien
Applied Engineering in Agriculture, 26(5):873-882, 2010
- 10-228-A Twenty-one years of SDI research in Kansas
F.R. Lamm, D.H. Rogers, M. Alam, D.M. O'Brien, T.P. Trooien
Proceedings of the 22nd annual Central Plains Irrigation Conference
Kearney, NE, February 2010
- 10-229-A How economic factors affect the profitability of center pivot sprinkler and SDI systems
D.M. O'Brien, F.R. Lamm, D.H. Rogers, T.J. Dumler
Proceedings of the 22nd annual Central Plains Irrigation Conference
Kearney, NE, February 2010, pp. 97-109
- 10-293-S Field Day 2010, Southwest Research Extension Center
Multiple authors
KS Agric. Exp. Stn. Report of Prog. 1034, June 2010
- Southeast Agricultural Research Center**
- 10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1007, August 2009
- 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
- 10-098-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
- 10-151-S 2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1019, November 2009

- 10-160-S 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
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. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1022, December 2009
- 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
- 10-305-A Estimating sward forage mass and crude protein
J.L. Moyer, R.R. Price, J.J. Higgins, L.W. Lomas
Proceedings of the American Forage and Grassland Council Conference
Springfield, MO, June 2010, pp. 6
- Southwest Research–Extension Center**
- 09-024-J Multiple season reductions in herbicide, downy brome (*Bromus tectorum*), and irrigation in corn
R.S. Currie, N.L. Klocke, H.N. Davis, L.L. Buschman
Weed Technology, 23(3):371-378, 2009
- 09-080-J Effect of postemergence mesotrione application timing on grain sorghum
M. Joy, M. Abit, K. Al-Khatib, R.S. Currie, P.W. Stahlman, P.W. Geier, B.W. Gordon, B.L.S. Olson, M.M. Claassen, D.L. Regehr
Weed Technology, 24:85-90, 2010
- 09-152-J No-till induced increase in organic carbon reduces maximum bulk density of soils
H. Blanco-Canqui, L.R. Stone, A.J. Schlegel, D.J. Lyon, M.F. Vigil, M.M. Mikha, P.W. Stahlman, C.W. Rice
Soil Science Society of America Journal, 73:1871-1879, 2009
- 09-170-J Regional study of no-till impacts on near-surface aggregate properties that influence soil erodibility
H. Blanco-Canqui, M.M. Mikha, J.G. Benjamin, L.R. Stone, A.J. Schlegel, D.J. Lyon, M.F. Vigil, P.W. Stahlman
Soil Science Society of America Journal, 73:1361-1368, 2009
- 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
- 09-379-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. Lingenfelter
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
N.L. Klocke, L.R. Stone, S. Briggemann, D.A. Bolton
Journal of Applied Engineering in Agriculture, 26(3):413-418, 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 |
| 10-151-S | 2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1019, November 2009 | 10-293-S | Field Day 2010, Southwest Research Extension Center
Multiple authors
KS Agric. Exp. Stn. Report of Prog. 1034, June 2010 |
| 10-160-S | 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1023, December 2009 | Publications without contribution numbers | |
| 10-167-S | 2009 Kansas Performance Tests with Soybean Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1022, December 2009 | Corn and grain sorghum production with limited irrigation
N.L. Klocke, R.S. Currie
Proceedings of the Sustainability Management Conference
Denver, CO, 2009 | |
| 10-212-S | Field Research 2010
Multiple authors
Coordinating author: J. Shroyer
KS Agric. Exp. Stn. Report of Prog. 1030, April 2010 | Crop selections and water allocations for limited irrigation
N.L. Klocke, L.R. Stone, T.J. Dumler, S. Briggeman
Proceedings of the Sustainability Management Conference
Denver, CO, 2009 | |
| 10-213-S | Kansas Fertilizer Research 2009
Multiple authors
Coordinating author: D. Ruiz-Diaz
KS Agric. Exp. Stn. Report of Prog. 1031, April 2010 | Crop yield predictor for deficit irrigation scheduling
N.L. Klocke, L.R. Stone, S. Briggeman
Proceedings of the Innovations in Irrigation Conference
San Antonio, TX, 2009 | |
| 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 | Value of crop residues for evaporation suppression and deficit irrigation
N.L. Klocke
Proceedings of the 21st High Plains No-till Conference
Greeley, CO, 2009, p. 27 | |

DIRECTOR'S REPORT OF RESEARCH IN KANSAS 2010

Copyright 2011 Kansas State University Agricultural Experiment Station and Cooperative Extension Service. Contents of this publication may be freely reproduced for educational purposes. All other rights reserved. In each case, credit Director's Report of Research in Kansas 2010, Kansas State University, May 2011.

Brand names appearing in this publication are for product identification purposes only. No endorsement is intended, nor is criticism implied of similar products not mentioned.

Publications from Kansas State University are available on the World Wide Web at: *www.ksre.ksu.edu*

KANSAS STATE UNIVERSITY AGRICULTURAL EXPERIMENT STATION
AND COOPERATIVE EXTENSION SERVICE