2011

Director's report of research in Kansas 2010

Kansas State University. Agricultural Experiment Station

Follow this and additional works at: https://newprairiepress.org/kaesrr

Part of the Other Animal Sciences Commons

Recommended Citation
Kansas State University. Agricultural Experiment Station (2011) "Director's report of research in Kansas 2010," Kansas Agricultural Experiment Station Research Reports: Vol. 0: Iss. 3. https://doi.org/10.4148/2378-5977.3317

This report is brought to you for free and open access by New Prairie Press. It has been accepted for inclusion in Kansas Agricultural Experiment Station Research Reports by an authorized administrator of New Prairie Press. 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. 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. K-State Research and Extension is an equal opportunity provider and employer.
Director's report of research in Kansas 2010

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

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

Creative Commons License
This work is licensed under a Creative Commons Attribution 4.0 License.

This research report is available in Kansas Agricultural Experiment Station Research Reports: https://newprairiepress.org/kaesrr/vol0/iss3/5
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
Station Publications ...........................................3
Publications of Station Scientists .......................4
  Administration .............................................4
  Agricultural Economics ...............................4
  Agronomy ....................................................5
  Anatomy and Physiology ...............................9
  Animal Sciences and Industry ...................10
  Apparel, Textiles, and Interior Design .......14
  Biochemistry ..............................................15
  Biological and Agricultural Engineering .............................16
  Biology .......................................................18
  Chemical Engineering ................................20
  Clinical Sciences ........................................21
  Computer Science ........................................21

Diagnostic Medicine/Pathobiology............21
Entomology .................................................23
Food Science Institute .................................26
Geography .....................................................26
Grain Science and Industry ....................26
Horticulture, Forestry and Recreation
  Resources ...................................................29
Hospitality Management and
  Dietetics ..................................................29
Human Nutrition ...........................................29
Plant Pathology ...........................................30
Statistics ....................................................34
Agricultural Research Center–Hays ..........35
Northwest Research-Extension Center ......37
Southeast Agricultural Research Center ....38
Southwest Research-Extension Center ......39

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](http://www.ksre.ksu.edu), and click on “About Us” in the sidebar.
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

<table>
<thead>
<tr>
<th>Letter</th>
<th>Type of Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Proceedings of meeting or symposium</td>
</tr>
<tr>
<td>B</td>
<td>Book or book chapter</td>
</tr>
<tr>
<td>C</td>
<td>Computer program</td>
</tr>
<tr>
<td>D</td>
<td>Department report</td>
</tr>
<tr>
<td>J</td>
<td>Journal manuscript</td>
</tr>
<tr>
<td>S</td>
<td>Station publication (report of progress, keeping up with research, special publication, or bulletin)</td>
</tr>
<tr>
<td>T</td>
<td>Trade publication</td>
</tr>
</tbody>
</table>

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)

DRR09 Director’s report of research in Kansas 2009
March 2010, 47 pp. (electronic only)

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

08-342-J The effects of decoupling on land allocation
T. Serra, D. Zilberman, J.M. Gil, A.M. Featherstone

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

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.

10-103-S Dairy Research 2009
Multiple authors
Coordinating author: J. Stevenson

10-120-J Leadership development in agricultural economics: Challenges for academic units
M.A. Boland

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

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
<table>
<thead>
<tr>
<th>Factors impacting food safety risk perceptions</th>
<th>05-337-J Marker-assisted characterization of Asian wheat lines for resistance to <em>Fusarium</em> head blight</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Journal of Agricultural Economics</em>, 60(3):625-644, 2009</td>
<td></td>
</tr>
</tbody>
</table>

**Agronomy**

<table>
<thead>
<tr>
<th>04-439-J Wind erodibility of organic soils</th>
<th>06-071-J The wind erosion prediction system: WEPS 1.0 user manual</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Soil Science Society of America Journal</em>, 74:250-257, 2010</td>
<td>USDA publication, Engineering and Wind Erosion Research Unit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>05-043-J Impact of M1A1 main battle tank disturbance on soil quality, invertebrates, and vegetation characteristics</th>
<th>06-111-J Deletion of chromosome arms altered wheat resistance to <em>Fusarium</em> head blight and deoxynivalenol accumulation in Chinese Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Journal of Terramechanics</em>, 42:159-176, 2005</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>05-078-J Molecular mapping of a quantitative trait locus for aluminum tolerance in wheat cultivar Atlas 66</th>
<th>06-294-J Quantitative trait loci for aluminum resistance in wheat</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>05-247-J Quantitative trait loci for aluminum resistance in wheat cultivar Chinese Spring</th>
<th>07-070-J Quantitative trait loci for <em>Fusarium</em> head blight resistance in a recombinant inbred population of Wangshuibai/Wheaton</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>05-248-J Novel quantitative trait loci (QTL) for <em>Fusarium</em> head blight resistance in wheat cultivar Chokwang</th>
<th>07-250-J Consumption of mycorrhizal and saprophytic fungi by Collembola in grassland soils</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>05-336-J Main effects, epistasis, and environmental interactions of quantitative trait loci for <em>Fusarium</em> head blight resistance in a recombinant inbred population</th>
<th>08-106-J Erosion by wind: Modeling</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-X. Ma, G-H. Bai, X. Zhang, W-Z. L</td>
<td>L.J. Hagen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>07-070-J Quantitative trait loci for <em>Fusarium</em> head blight resistance in a recombinant inbred population of Wangshuibai/Wheaton</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>07-250-J Consumption of mycorrhizal and saprophytic fungi by Collembola in grassland soils</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>J.L. Jonas, G.W.T. Wilson, P.M. White, A. Joern</td>
<td></td>
</tr>
<tr>
<td>Soil Biology and Biochemistry, 39:2594-2602, 2007</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>08-106-J Erosion by wind: Modeling</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>L.J. Hagen</td>
<td></td>
</tr>
</tbody>
</table>


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 salutation and suspension components from field wind erosion L.J. Hagen, S. Van Pelt, B. Sharratt Aeolian Research, 1:147-153, 2010


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


<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal, Volume/Issue/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Document ID</td>
<td>Title</td>
<td>Authors</td>
<td>Journal/Publication Details</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
<td>-----------------------------</td>
</tr>
</tbody>
</table>
10-212-S  Field Research 2010
Multiple authors
Coordinating author: J. Shroyer
1030, April 2010

10-213-S  Kansas Fertilizer Research 2009
Multiple authors
Coordinating author: D. Ruiz-Diaz
1031, April 2010

10-220-S  2009 Kansas Performance Tests with
Sunflower Hybrids
Multiple authors
Coordinating author: J. Lingenfelser
1024, January 2010

10-221-S  2009 Kansas Performance Tests with
Alfalfa Varieties
Multiple authors
Coordinating author: J. Lingenfelser
1025, January 2010

10-257-S  Agricultural Research 2010
Multiple authors
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
1034, June 2010

10-319-S  2009 Kansas Performance Tests with
Cotton Varieties
Multiple authors
Coordinating author: S. Staggenborg
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
<table>
<thead>
<tr>
<th>Issue</th>
<th>Title</th>
<th>Authors</th>
<th>Journal/Year</th>
</tr>
</thead>
</table>
08-206-J  Evaluation of dry distiller’s grains and roughage source in steam-flaked corn based finishing diets

08-233-J  Effects of irradiation of feed ingredients added to meal of pelleted diets on growth performance of weanling pigs

08-393-J  Relationship of various incoming cattle traits with feedlot performance and carcass traits
C.D. Reinhardt, W.D. Busby, L.R. Corah

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

09-013-J  Optimizing use of distillers grains in finishing diets containing steam-flaked corn

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

09-106-J  Effects of dry aging of bone-in and boneless strip loins using two aging processes for two aging times
Meat Science, 83:768-774, 2009

09-117-J  Prediction of Japanese colour score
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
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
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal/Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper Number</td>
<td>Title</td>
<td>Authors</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>09-300-J</td>
<td>Plasma pharmacokinetics of oral chlortetracycline in group fed, ruminating, Holstein steers in a feedlot setting</td>
<td>J.B. Reinbold, J.F. Coetzee, R. Gehring, J.A. Havel, L.C. Hollis, KC Olson, M.D. Apley</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meat Science, 84(1):208-211, 2010</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Theriogenology, 72:1009-1016, 2009</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meat Science, 84(3):529-539, 2010</td>
<td></td>
</tr>
<tr>
<td>09-377-J</td>
<td>Resynchronised ovulation in lactating dairy cattle of unknown pregnancy: Occurrence and timing of gonadotropin-releasing hormone</td>
<td>J.S. Stevenson, C.A. Martel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Professional Animal Scientist, 25:605-609, 2009</td>
<td></td>
</tr>
<tr>
<td>09-387-J</td>
<td>Oral inoculation with <em>Salmonella enterica</em> serovar Typhimurium or Choleraesuis promotes divergent responses in the somatotropic growth axis of swine</td>
<td>B.L. Davis, J.N. Fraser, T.E. Burkey, K.A. Skjolaas, S.S. Dritz, B.J. Johnson, J.E. Minton</td>
<td></td>
</tr>
<tr>
<td>09-388-J</td>
<td>Interaction of <em>Bacillus</em> species and <em>Salmonella enterica</em> serovar Typhimurium in immune or inflammatory signaling from swine intestinal epithelial cells</td>
<td>C.C. Aperce, T.E. Burkey, B. KuKanich, B.A. Crozier-Dodson, S.S. Dritz, J.E. Minton</td>
<td></td>
</tr>
<tr>
<td>10-004-J</td>
<td>Headspace volume and percentage of carbon monoxide affects carboxymyoglobin layer development of modified atmosphere packaged beef steaks</td>
<td>C.R. Raines, M.C. Hunt</td>
<td></td>
</tr>
<tr>
<td>10-010-T</td>
<td>Is alfalfa hay worth the price?</td>
<td>C.R. Mullins, B.J. Bradford</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hoard’s Dairyman, February 2010, p. 137</td>
<td></td>
</tr>
<tr>
<td>10-014-S</td>
<td>Swine Day 2009</td>
<td>Multiple authors</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coordinating author: R. Goodband</td>
<td></td>
</tr>
<tr>
<td>10-095-J</td>
<td>Effects of a molasses-coated cottonseed product on diet digestibility, performance, and milk fatty acid profile of lactating dairy cattle</td>
<td>C.R. Mullins, B.J. Bradford</td>
<td></td>
</tr>
<tr>
<td>10-103-S</td>
<td>Dairy Research 2009</td>
<td>Multiple authors</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coordinating author: J. Stevenson</td>
<td></td>
</tr>
<tr>
<td>Publication Number</td>
<td>Title</td>
<td>Authors</td>
<td>Journal/Conference/Website</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------</td>
</tr>
<tr>
<td>10-144-J</td>
<td>Rates of luteolysis and pregnancy in dairy cows after treatment with cloprostenol or dinoprost</td>
<td>J.S. Stevenson, A.P. Phatak</td>
<td>Theriogenology, 73:1127-1138, 2010</td>
</tr>
<tr>
<td>10-170-S</td>
<td>Cattlemen's Day 2010</td>
<td>Multiple authors</td>
<td>Coordinating author: J. Drouillard</td>
</tr>
</tbody>
</table>

**Apparel, Textiles, and Interior Design**

<table>
<thead>
<tr>
<th>Publication Number</th>
<th>Title</th>
<th>Authors</th>
<th>Journal/Conference/Website</th>
<th>Publication Details</th>
</tr>
</thead>
</table>

**Publications without contribution numbers**

- Anaerobes
  - L.E. Erickson, D.Y.C. Fung

- 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

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

- Exploration of second-hand apparel acquisition behaviors and barriers
  - K.Y. Hiller Connell

- 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
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  
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 multicyopper 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  
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  
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  
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
<table>
<thead>
<tr>
<th>Publication ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal</th>
<th>Volume/Issue</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Publications without contribution numbers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Biological and Agricultural Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05-130-J</td>
<td>Improved water resistance of soy protein adhesive at isoelectric point</td>
<td>D. Wang, X.S. Sun, G. Yang, Y. Wang</td>
<td>Transactions of the ASABE, 52(1):173-177, 2009</td>
<td></td>
<td>2009</td>
</tr>
<tr>
<td>09-065-J</td>
<td>Estimating the saltation and suspension components from field wind erosion</td>
<td>L.J. Hagen, S. Van Pelt, B. Sharratt</td>
<td>Aeolian Research, 1:147-153, 2010</td>
<td></td>
<td>2010</td>
</tr>
<tr>
<td>Publication ID</td>
<td>Title</td>
<td>Authors</td>
<td>Journal/Conference</td>
<td>Year</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------------------------------------</td>
<td>------</td>
<td></td>
</tr>
</tbody>
</table>

Publications without contribution numbers

- Laboratory scale electrostatically assisted wet scrubber for controlling dust in livestock buildings
  - E. Almuhanna, R.G. Maghirang, J.P. Murphy, L.E. Erickson

- Simultaneous monitoring of stored grain with relative humidity, temperature, and carbon dioxide sensors
  - H.B. Gonzales, P.R. Armstrong, R.G. Maghirang
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper ID</td>
<td>Title</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>10-097-J</td>
<td>Male Cd81 knockout genotype disrupts Mendelian distribution of offspring</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The woodland vole on Konza Prairie Biological Station, Kansas</td>
<td>D.W. Kaufman, G.A. Kaufman</td>
</tr>
<tr>
<td>environment-specific genetic effects on life history traits</td>
<td></td>
</tr>
<tr>
<td>across a grassland biome</td>
<td></td>
</tr>
<tr>
<td>circulating hemocytes in Anopheles gambiae</td>
<td>An, K. Ramakrishnan, F.C. Kafatos, K. Michel</td>
</tr>
<tr>
<td>Grasshopper, Hesperotettix viridis</td>
<td></td>
</tr>
<tr>
<td>Microsatellite isolation and development in the Eastern yellowbelly</td>
<td>P.E. With, K.A. With, S.M. Wisely</td>
</tr>
<tr>
<td>racer (Coluber constrictor flaviventris) for use in landscape</td>
<td></td>
</tr>
<tr>
<td>genetic studies</td>
<td></td>
</tr>
<tr>
<td>gambiae s.l. using near-infrared spectroscopy</td>
<td>H.M. Ferguson, F.E. Dowell</td>
</tr>
<tr>
<td>circulating hemocytes in Anopheles gambiae</td>
<td>An, K. Ramakrishnan, F.C. Kafatos, K. Michel</td>
</tr>
<tr>
<td>Grasshopper, Hesperotettix viridis</td>
<td></td>
</tr>
<tr>
<td>Microsatellite isolation and development in the Eastern yellowbelly</td>
<td>P.E. With, K.A. With, S.M. Wisely</td>
</tr>
<tr>
<td>racer (Coluber constrictor flaviventris) for use in landscape</td>
<td></td>
</tr>
<tr>
<td>genetic studies</td>
<td></td>
</tr>
<tr>
<td>fermentable sugar production</td>
<td></td>
</tr>
<tr>
<td>approach</td>
<td></td>
</tr>
</tbody>
</table>
### Clinical Sciences

<table>
<thead>
<tr>
<th>Publication ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal and Year</th>
</tr>
</thead>
</table>

**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

<table>
<thead>
<tr>
<th>Publication ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal and Year</th>
</tr>
</thead>
</table>

### Diagnostic Medicine/Pathobiology

<table>
<thead>
<tr>
<th>Publication ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal and Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal Key</td>
<td>Title</td>
<td>Authors</td>
<td>Journal/Publication Details</td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>09-261-J</td>
<td>Dietary interactions and interventions affecting <em>Escherichia coli</em> O157 colonization and shedding in cattle</td>
<td>M.E. Jacob, T.R. Callaway, T.G. Nagaraja</td>
<td>Foodborne Pathogens and Disease, 6:785-792, 2009</td>
</tr>
<tr>
<td>Publication ID</td>
<td>Title</td>
<td>Authors</td>
<td>Journal/Conference/Website</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Publications without contribution numbers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paper ID</td>
<td>Title</td>
<td>Authors</td>
<td>Journal/Volume/Issue</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
</tbody>
</table>
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

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

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
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. Lingenfelser

10-046-J Sulfuryl fluoride fumigation effects on the safety, volatile composition, and sensory quality of dry cured ham
Meat Science, 84:505-511, 2010

10-048-J Mass-rearing of the red-legged ham beetle, Necrobia rufipes De Geer (Coleoptera: Cleridae) for laboratory research
M.M. Hasan, T.W. Phillips

10-151-S 2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelser
10-160-S 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelser

Publications without contribution numbers:

EST sequencing of blood-fed and Leishmania-infected midgut of *Lutzomyia longipalpis*, the principal visceral leishmaniasis vector in the Americas

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

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

Ecology and IPM of insects at grain elevators and flat storages
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
Journal of Food Protection, 72(12):2476-2482, 2009

**Geography**

09-169-J SWAT discharge response to spatial rainfall variability in a Kansas watershed
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

08-239-J FT-IR microscopic imaging of plant material
D.L. Wetzel

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
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal</th>
<th>Volume/Issue/Start Page</th>
</tr>
</thead>
</table>
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. Gwirtz

09-356-J  Quantitative characterization of polar lipids from wheat whole-meal, flour, and starch
S.M. Finnie, R. Jeannotte, J.M. Faubion

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

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 reed 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. Lingenfelser

10-062-B  Analysis of extraneous matter
H. Dogan, B. Subramanyam, J.R. Pedersen

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
<table>
<thead>
<tr>
<th>Resource Title</th>
<th>Publication Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>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 <a href="http://www.golfdom.com/cultivation/improved-zoysia-cultivar-could-have-use-transition">http://www.golfdom.com/cultivation/improved-zoysia-cultivar-could-have-use-transition</a></td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td></td>
<td>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 Horticultrae, 775:37-40, 2008</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td>Hospitality Management and Dietetics</td>
<td>Publications without contribution numbers</td>
</tr>
</tbody>
</table>
**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
Ecological Applications, 19:1868-1883, 2009

08-140-J Beyond yield: Plant disease in the context of ecosystem services
Phytopathology, 99(11):1228-1236, 2009

08-123-J Can older gardeners meet the physical activity recommendation through gardening?
S. Park, C. Shoemaker, M. Haub

09-003-B Lignan biosynthesis enhancement in transgenic wheat
A.K. Ayella, W. Wang

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. Klaahsen, 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

09-117-J Prediction of Japanese colour score
Meat Science, 84:165-171, 2010

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

10-172-J Selenium, but not lycopene or vitamin E, decreases growth of transplantable dunning R3327-H rat prostate tumors
PLOS One, 5(4), 2010
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

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

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

Cytogenetic analysis of wheat and rye genomes
B.S. Gill, B. Friebe

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

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. Kuraparthy, G. Bai, B.S. Gill
Theoretical and Applied Genetics, 119:341-351, 2009

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-W. Mew, C. Vera Cruz, J.E. Leach
New Phytologist, 185:568-576, 2010

Wheat-Thinopyrum intermedium recombinants resistant to wheat streak mosaic virus and Triticum mosais virus
Crop Science, 49:1221-1226, 2009

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. Callaham, Jr., P.M. White

The grain mold pathogen, Fusarium thapsinum, reduces caryopsis formation in Sorghum bicolor
C.R. Little, C.W. Magill

Challenges and approaches to statistical design and inference in high dimensional investigations
G.L. Gadbury, K.A. Garrett, D.B. Allison

Fusarium genetics and pathogenicity
J.F. Leslie, J-R. Xu


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


09-334-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


10-054-J Host and pathogen factors controlling the Rice-Xanthomonas oryzae interaction F.F. White, B. Yang Plant Physiology, 150:1677-1686, 2009


32
<table>
<thead>
<tr>
<th>Entry</th>
<th>Title</th>
<th>Authors</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-085-B</td>
<td>Diagnostic networks for plant biosecurity</td>
<td>J.P. Stack</td>
<td>In: Knowledge and technology transfer for plant pathology, N. Hardwick, M.L. Gullino (Eds.). Dordrecht: Springer, pp. 124, 2010</td>
</tr>
<tr>
<td>10-134-J</td>
<td>Analysis of expressed sequence tags for Frankliniella occidentalis, the western flower thrips</td>
<td>D. Rotenberg, A.E. Whitfield</td>
<td>Insect Molecular Biology, 19(4):537-551, 2010</td>
</tr>
</tbody>
</table>
| 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  
BMC Genomics, 11:122, 2010 |
| 10-254-B | Advances in genetics, genomics and control of rice blast disease  
| 10-257-S | Agricultural Research 2010  
Multiple authors  
| 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  
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  
| 06-200-J | Weight loss via exercise with controlled dietary intake may affect phospholipid profile for cancer prevention in murine skin tissues  
Cancer Prevention Research, 3(4):466-477, 2010 |
| 06-232-J | Effects of melengestrol acetate on L-selectin and β2-integrin expression of polymorphonuclear leukocytes from heifers challenged with lipopolysaccharide  
| 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  
| 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  
| 09-013-J | Optimizing use of distillers grains in finishing diets containing steam-flaked corn  
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

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

09-106-J Effects of dry aging of bone-in and boneless strip loins using two aging processes for two aging times
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

09-144-J Effects of zilpaterol hydrochloride feeding duration on crossbred beef semimembranosus steak color in aerobic or modified atmosphere packaging

09-151-J Feeding zilpaterol hydrochloride to calf-fed Holsteins has minimal effects on semimembranosus steak color

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

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

10-305-A Estimating sward forage mass and crude protein
J.L. Moyer, R.R. Price, J.J. Higgins, L.W. Lomas

Agricultural Research Center–Hays

09-066-J Wheat – thinopyrum intermedium recombinants resistant to wheat streak mosaic virus and triticum mosaic virus
Crop Science, 49:1221-1226, 2009
Effect of postemergence mesotrione application timing on grain sorghum
Weed Technology, 24:85-90, 2010

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

The nature of resistance to Dectes texanus (Col. Cerambycidae) in wild sunflower, Helianthus annuus
J.P. Michaud, A.K. Grant

No-till induced increase in organic carbon reduces maximum bulk density of soils

Regional study of no-till impacts on near-surface aggregate properties that influence soil erodibility

Using long-term relative yield and quality to select adapted small grain forages
K.R. Harmoney, C.A. Thompson
Forage and Grazinglands, 2010 doi:10.1094/FG-2010-0125-01-RS

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

Soil response to long-term cropping systems on an Argiustoll in the Central Great Plains
H. Blanco-Canqui, L.R. Stone, P.W. Stahlman

2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelser

Energy crops and their implications on soil and environment
H. Blanco-Canqui
Agronomy Journal, 102(2):403-419, 2010

2010 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
Multiple authors
Coordinating author: D. Peterson

2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: W. Aschwege

2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: W. Aschwege

Field Research 2010
Multiple authors
Coordinating authors: H. Blanco, P.W. Stahlman
KS Agric. Exp. Stn. Report of Prog. 1030, April 2010

2009 Kansas Performance Tests with Sunflower Hybrids
Multiple authors
Coordinating author: W. Aschwege
Publications without contribution numbers

Characterization of specific passive immunity stimulated by vaccination of beef cows grazing native range with *E. coli* O157:H7-SRP
Bovine Practitioner, 44:12-16, 2010

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

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

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
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. Lingenfelser
10-160-S 2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelser

10-167-S 2009 Kansas Performance Tests with Soybean Varieties
Multiple authors
Coordinating author: J. Lingenfelser

10-183-J Effect of flushing frequency on emitter clogging in microirrigation with effluents
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. Lingenfelser

10-221-S 2009 Kansas Performance Tests with Alfalfa Varieties
Multiple authors
Coordinating author: J. Lingenfelser

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

10-228-A Twenty-one years of SDI research in Kansas
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

Southeast Agricultural Research Center

10-008-S 2009 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelser

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

10-151-S 2009 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelser
10-160-S  2009 Kansas Performance Tests with Grain Sorghum Hybrids
Multiple authors
Coordinating author: J. Lingenfelser

10-167-S  2009 Kansas Performance Tests with Soybean Varieties
Multiple authors
Coordinating author: J. Lingenfelser

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. Lingenfelser

10-221-S  2009 Kansas Performance Tests with Alfalfa Varieties
Multiple authors
Coordinating author: J. Lingenfelser

10-257-S  Agricultural Research 2010
Multiple authors

10-305-A  Estimating sward forage mass and crude protein
J.L. Moyer, R.R. Price, J.J. Higgins, L.W. Lomas

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
Weed Technology, 24:85-90, 2010

09-152-J  No-till induced increase in organic carbon reduces maximum bulk density of soils

09-170-J  Regional study of no-till impacts on near-surface aggregate properties that influence soil erodibility

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. Lingenfelser

10-040-J  Planning for deficit irrigation
N.L. Klocke, R.S. Currie, L.R. Stone, D.A. Bolton
<table>
<thead>
<tr>
<th>Publication ID</th>
<th>Title</th>
<th>Authors</th>
<th>Journal/Conference/Report Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Publications without contribution numbers</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corn and grain sorghum production with limited irrigation</td>
<td>N.L. Klocke, R.S. Currie</td>
<td>Proceedings of the Sustainability Management Conference Denver, CO, 2009</td>
</tr>
<tr>
<td></td>
<td>Crop selections and water allocations for limited irrigation</td>
<td>N.L. Klocke, L.R. Stone, T.J. Dumler, S. Briggeman</td>
<td>Proceedings of the Sustainability Management Conference Denver, CO, 2009</td>
</tr>
<tr>
<td></td>
<td>Crop yield predictor for deficit irrigation scheduling</td>
<td>N.L. Klocke, L.R. Stone, S. Briggeman</td>
<td>Proceedings of the Innovations in Irrigation Conference San Antonio, TX, 2009</td>
</tr>
<tr>
<td></td>
<td>Value of crop residues for evaporation suppression and deficit irrigation</td>
<td>N.L. Klocke</td>
<td>Proceedings of the 21st High Plains No-till Conference Greeley, CO, 2009, p. 27</td>
</tr>
</tbody>
</table>