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DIRECTOR'S REPORT OF RESEARCH IN KANSAS 2012

JULY 1, 2011–JUNE 30, 2012



Kansas State University Agricultural Experiment Station and Cooperative Extension Service

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, 2012. This report contains the title, author, and publication information for manuscripts published by station scientists. The report was published only in electronic format.

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

A Message from the Director

We are pleased to provide this 2012 Director's Report of Research in Kansas. The report is intended to inform you about our research programs underway 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 2012 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 the grand challenges facing Kansas citizens.

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



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<i>15</i>	<i>Biochemistry and Molecular Biophysics</i>
<i>15</i>	<i>Biological and Agricultural Engineering</i>
<i>17</i>	<i>Chemical Engineering</i>
<i>17</i>	<i>Clinical Sciences</i>
<i>17</i>	<i>Diagnostic Medicine/Pathobiology</i>
<i>18</i>	<i>Division of Biology</i>
<i>19</i>	<i>Entomology</i>
<i>21</i>	<i>Grain Science and Industry</i>
<i>23</i>	<i>Horticulture, Forestry, and Recreation Resources</i>
<i>23</i>	<i>Human Nutrition</i>
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Search Tips

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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, next page)

Academic Departments

College of Agriculture

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

College of Arts and Sciences

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

College of Engineering

Biological and Agricultural Engineering
Chemical Engineering

College of Human Ecology

Apparel, Textiles, and Interior Design
Hospitality Management and Dietetics
Human Nutrition

College of Veterinary Medicine

Anatomy and Physiology
Clinical Sciences
Diagnostic Medicine/Pathobiology

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

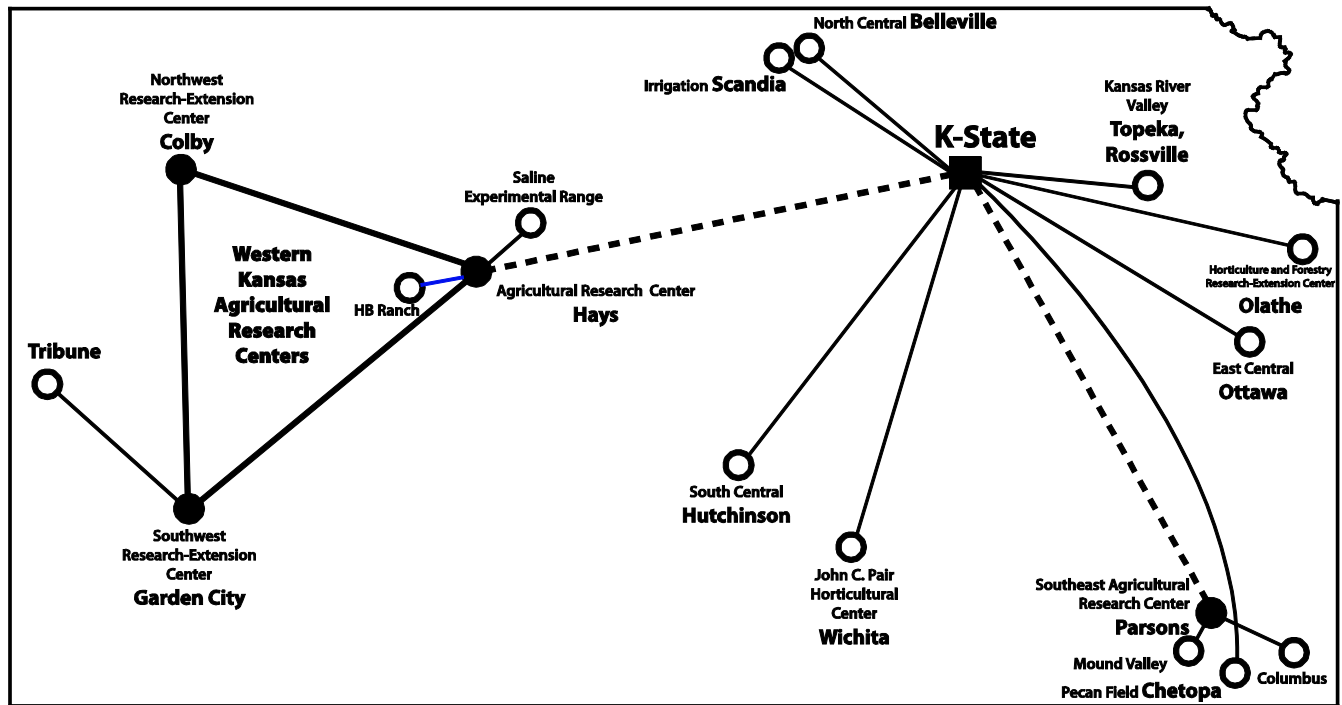
East Central - Ottawa
Kansas River Valley - Rossville, Silver Lake
North Central - Belleville
Pecan Field - Chetopa
South Central - Hutchinson

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
K-State Libraries
Kansas Agriculture and Rural Leadership
Kansas Center for Agricultural Resources
and the Environment
Kansas Center for Sustainable Agriculture
and Alternative Crops
Kansas Water Resources Institute
Konza Prairie Biological Station
International Grains Program
International Meat and Livestock Program
Plant Biotechnology Center
Veterinary Diagnostic Lab
Weather Data Library
Wheat Genetic and Genomic Resources Center

* List includes units having faculty with KAES appointments in fiscal year 2012. 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 1053	K-State Turfgrass Research 2011
SRP 1054	2011 Kansas Performance Tests with Winter Wheat Varieties
SRP 1055	2011 Kansas Performance Tests with Corn Hybrids
SRP 1056	Swine Day 2011
SRP 1057	Dairy Research 2011
SRP 1058	2011 Kansas Performance Tests with Soybean Varieties
SRP 1059	2011 Kansas Performance Tests with Grain Sorghum Hybrids
SRP 1060	2011 Kansas Performance Tests with Sunflower Hybrids
SRP 1061	2011 Kansas Performance Tests with Alfalfa Varieties
SRP 1062	2011 National Winter Canola Variety Trial
SRP 1063	2012 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
SRP 1064	2011 Kansas Performance Tests with Cotton Varieties
SRP 1065	Cattlemen's Day 2012
SRP 1066	Field Research 2012
SRP 1067	Kansas Fertilizer Research 2011
SRP 1069	2012 Agricultural Research, Southeast Agricultural Research Center
SRP 1070	Field Day 2012, Southwest Research-Extension Center

Special Publications

DRR11	Director's Report of Research in Kansas 2011
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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 at:
www.ksre.ksu.edu/bookstore

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

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

Agricultural Economics

- | | | | |
|----------|--|----------|---|
| 12-007-J | Determining the probability of default of agricultural loans in a French bank
A. Joualt, A.M. Featherstone
Journal of Applied Finance and Banking, 1(1):1-30, 2011 | 12-213-J | Measuring the benefits to advertising under monopolistic competition
Boland, M.A., J.M. Crespi, J. Silva, T. Xia
Journal of Agricultural and Resource Economics, 37(1):144-155, 2012 |
| 12-008-J | Labor productivity convergence in the Kansas farm sector: A three-stage procedure using data envelopment analysis and semiparametric regression analysis
A. Muger, M. Langemeier, A. Featherstone
Journal of Productivity Analysis, 38(1):63-79, 2012
doi:10.1007/s11123-011-0235-1, 2011 | 12-236-D | 2011 nonirrigated crop-share leasing arrangements in Kansas
J.B. Schlegel, L.J. Tsoodle
Agricultural Economics Staff Paper no. 12-02, 2011, 22 pp. |
| 12-035-J | On the relationship between openness to trade and efficiency levels in low-income countries: Evidence from the Latin American and the Caribbean countries
A. Chacon-Cascante, A.M. Featherstone
International Research Journal of Finance and Economics, 74:169-87, 2011 | 12-272-J | Fixed effects estimation of the intensive and extensive margins of irrigation water demand
N.P. Hendricks, J.M. Peterson
Journal of Agricultural and Resource Economics, 37(1):1-19, 2012 |
| 12-082-D | Impact of tillage system on input demands for farms
E. Yeager, M. Langemeier, T. Xia
Agricultural Economics Staff Paper no. 12-01, 2011, 19 pp. | 12-285-A | Do men and women perform differently on different types of test questions?
A.S. Thompson, A.L. Jager, R.O. Burton, Jr.
Proceedings of SAEA [Southern Agricultural Economics Association] annual meeting
Birmingham, AL, 2012 |
| 12-118-D | Staff, programs, and publications in Agricultural Economics, Kansas State University 2010
J. Maberry
Agricultural Economics Staff Paper no. 11-04, 2011, 55 pp. | 12-291-J | Nitrogen fertilization affects economic return from crabgrass hay
J.L. Moyer, K. Dhuyvetter, D.W. Sweeney
Forage and Grazinglands, 2012
doi:10.1094/FG-2012-0320-01-RS |
| 12-119-D | Staff, programs, and publications in Agricultural Economics, Kansas State University 2009
J. Maberry
Agricultural Economics Staff Paper no. 10-3, 2010, 47 pp. | 12-365-D | Staff, programs, and publications in Agricultural Economics, Kansas State University 2011
Agricultural Economics Staff Paper no. 12-03, 2011, 73 pp. |
| | | 12-396-J | A stochastic production function analysis of maize hybrids and yield variability in drought-prone areas of Kenya
A.D. Jones, T.J. Dalton, M. Smale
Tegemeo Institute of Agricultural Policy and Development, WPS 49, 2012 |

Agricultural Research Center–Hays

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|----------|---|----------|--|
| 12-017-S | 2011 Kansas Performance Tests with Winter Wheat Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1054, July 2011 | 12-137-A | Subsurface drip irrigation in alfalfa
F.R. Lamm, K.R. Harmoney, A.A. Aboukheira, S.K. Johnson
Proceedings of the Irrigation Association Technical Conference, San Diego, California, November 6-8, 2011, 10 pp. |
| 12-052-J | Sorghum pathology and biotechnology - A fungal disease perspective: Part II.
Anthracnose, stalk rot, and downy mildew
T. Tesso, R. Perumal, C.R. Little, A. Adeyanju, G.L. Radwan, L.K. Prom, C.W. Magill
European Journal of Plant Science and Biotechnology, 6(1):31-45, 2012 | 12-150-J | Single and sequential applications of tribenuron on broadleaf weed control and crop response in tribenuron-resistant sunflower
A.S. Godar, P.W. Stahlman, J.A. Dille
Weed Technology, 25(3):391-397, 2011
doi:10.1614/WT-D-10-00154.1 |
| 12-055-J | Effects of prepartum and postpartum bolus injections of trace minerals on performance of beef cows and calves grazing native range
L.R. Mundell, J.R. Jaeger, J.W. Waggoner, J.S. Stevenson, D.M. Grieger, L.A. Pacheco, J.W. Bolte, N.A. Aubel, G.J. Eckerle, M.J. Macek, S.M. Ensley, L.J. Havenga, KC Olson
The Professional Animal Scientist, 28(1):82-88, 2012 | 12-184-J | Summer cover crops fix nitrogen, increase crop yield, and improve soil-crop relationships
H. Blanco-Canqui, M.M. Claassen, D.R. Presley
Agronomy Journal, 104(1):137-147, 2012 |
| 12-088-J | Larval food supply constrains female reproductive schedules in <i>Hippodamia convergens</i> (Coleoptera: Coccinellidae)
G. Vargas, J.P. Michaud, J.R. Nechols
Annals of the Entomological Society of America, 105(6):832-839, 2012 | 12-198-J | Cryptic maternal effects in the ladybird beetle <i>Hippodamia convergens</i> vary with maternal age and body size
G.A. Vargas, J.P. Michaud, J.R. Nechols
Entomologia Experimentalis et Applicata, 146: 302-311, 2012 |
| 12-090-J | Comparing morphological development and nutritive value of Caucasian old world bluestem and native grasses
K.R. Harmoney, K.R. Hickman
Forage and Grazinglands, 2012
doi:10.1094/FG-2012-0127-01-RS | 12-209-S | 2012 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland
Multiple authors
Coordinating authors: D. Peterson, C.R. Thompson
KS Agric. Exp. Stn. Report of Prog. 1063, December 2011 |
| 12-096-J | Effects of a new herbicide (Aminocyclopyrachlor) on buffalograss and forbs in shortgrass prairie
K.R. Harmoney, P.W. Stahlman, P.W. Geier, R. Rupp
Weed Technology, 26(3):455-459, 2012 | 12-214-S | 2011 Kansas Performance Tests with Soybean Varieties
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1058, December 2011 |
| | | 12-215-S | 2011 Kansas Performance Tests with Corn Hybrids
Multiple authors
Coordinating author: J. Lingenfelter
KS Agric. Exp. Stn. Report of Prog. 1055, November 2011 |

12-216-S	2011 Kansas Performance Tests with Grain Sorghum Hybrids Multiple authors Coordinating author: J. Lingenfelter KS Agric. Exp. Stn. Report of Prog. 1059, December 2011	12-358-J	Field Day 2012 SWREC Multiple authors KS Agric. Exp. Stn. Report of Prog. 1070, May 2012
12-221-J	Alfalfa production with subsurface drip irrigation in the Central Great Plains F.R. Lamm, K.R. Harmon, A.A. Aboukheira, S.K. Johnson Transactions of the ASABE, 55(4):1203-1212, 2012	Agronomy	
12-245-S	2011 Kansas Performance Tests with Sunflower Hybrids Multiple authors Coordinating author: J. Lingenfelter KS Agric. Exp. Stn. Report of Prog. 1060, January 2012	12-005-J	Interpreting relationships between soil variables and soybean iron deficiency using factor analysis A.M. Liesch, D.A. Ruiz Diaz Soil Science Society of America Journal, 76(4):1311-1318, 2012 doi:10.2136/sssaj2011.0379
12-246-S	2011 Kansas Performance Tests with Alfalfa Varieties Multiple authors Coordinating author: J. Lingenfelter KS Agric. Exp. Stn. Report of Prog. 1061, January 2012	12-014-J	Physicochemical properties and adhesion performance of canola protein modified with sodium bisulfite N. Li, G. Qi, X.S. Sun, M. J. Stamm, D. Wang Journal of the American Oil Chemists' Society, 89(5):897-908, 2012 doi:10.1007/s11746-011-1977-7
12-259-J	Multi-location study of soil enzyme activities as affected by types and rates of manure application and tillage practices V. Acosta-Martinez, M.M. Mikha, K.R. Sistani, P.W. Stahlman, J.G. Benjamin, M.F. Vigil, R. Erickson Agriculture, 1(1):4-21, 2011 doi:10.10390/agriculture1010004	12-017-S	2011 Kansas Performance Tests with Winter Wheat Varieties Multiple authors Coordinating author: J. Lingenfelter KS Agric. Exp. Stn. Report of Prog. 1054, July 2011
12-293-S	2012 Field Research Multiple authors KS Agric. Exp. Stn. Report of Prog. 1066, April 2012	12-031-J	Dryland and irrigated corn yield with climate, management, and hybrid changes from 1939 through 2009 Y. Assefa, K.L. Roozeboom, S.A. Staggenborg, J. Du Agronomy Journal, 104(2):473-482, 2012
12-294-S	2011 Kansas Fertilizer Research Multiple authors KS Agric. Exp. Stn. Report of Prog. 1067, April 2012	12-051-J	Sorghum pathology and biotechnology - A fungal disease perspective: Part I. Grain mold, head smut, and ergot C.R. Little, R. Perumal, T. Tesso, L.K. Prom, G.N. Odvody, C.W. Magill European Journal of Plant Science and Biotechnology, 6(1):10-30, 2012
12-333-J	New sources of resistance in Sorghum [<i>Sorghum bicolor</i> (L.) Noenck] 'Minicor' germplasm are effective against a diverse array of Potyvirus species D.L. Seifers, R. Perumal, C. Little Plant Disease, 96(12):1775-1779, 2012		

- 12-052-J Sorghum pathology and biotechnology - A fungal disease perspective: Part II. Anthracnose, stalk rot, and downy mildew
T. Tesso, R. Perumal, C.R. Little, A. Ad-eyanju, G.L. Radwan, L.K. Prom, C.W. Magill
European Journal of Plant Science and Biotechnology, 6(1):31-45, 2012
- 12-056-J Integrating rare-variant testing, function prediction, and gene network in composite resequencing-based genome-wide association studies (CR-GWAS)
C. Zhu, X. Li, J. Yu
G3: Gene, Genomes, Genetics, 1(3):233-243, 2011
doi:10.1534/g3.111.000364
- 12-057-D Effects of Austrian winter pea cover crop and nitrogen rates on grain sorghum yield in a cover crop, grain sorghum, winter wheat rotation
W. Heer, K. Roozeboom, J. Shroyer
KS. Agric. Exp. Sta. Keeping up with Research (SRL) 142, September 2011
- 12-066-J Speciation of phosphorus in a fertilized, reduced till soil system: In-field treatment incubation study
R. Khatiwada, G.M. Hettiarachchi, D.B. Mengel
Soil Science Society of America Journal, 76(6):2006-2018, 2012
doi:10.2136/sssaj2011.0299
- 12-068-J Genotypic variation within sorghum in transpiration response to drying soil
M. Gholipour, T. R. Sinclair, P.V.V. Prasad
Plant Soil, 357(1-2):35-40, 2012
- 12-072-J High-iron biosolids compost-induced changes in lead and arsenic speciation and bioaccessibility in co-contaminated soils
S.L. Brown, I. Clausen, M.A. Chappell, K.G. Scheckel, M. Newville, G.M. Hettiarachchi
Journal of Environmental Quality, 41(5):1612-1622, 2012
doi:10.2134/jeq2010.0139
- 12-089-J Managing diminished irrigation capacity with preseason irrigation and plant density for corn production
A. Schlegel, L. Stone, T. Dumler, F. Lamm
Transactions of the ASABE, 55(2):525-531, 2012
- 12-093-J Quantitative trait loci responsible for Fusarium head blight resistance in Chinese landrace Baishanyuehuang
X. Zhang, H. Pan, G. Bai
Theoretical and Applied Genetics, 125(3):495-502, 2012
doi:10.1007/s00122-012-1848-0
- 12-113-J Registration of malt sorghum varieties, Macia and Red Swazi
A. Adugna, T. Tesso, T. Tadesse, E. Degu, G. Gebeyehu, S. Yetneberk, S. Admase, M. Bekele, Z. Elias, T. Woldu, T. Hadis, M. Teshome
Ethiopian Journal of Agricultural Science, 21:136-137, 2011
- 12-114-J Registration of pearl millet [*Pennisetum glaucum* (L.) R. Br.] Variety, Kola-1
A. Adugna, T. Tesso, E. Degu, T. Tadesse, S. Yetneberk, S. Admase, M. Bekele, Z. Elias, T. Woldu, T. Hadis, M. Teshome
Ethiopian Journal of Agricultural Science, 21:138-139, 2011
- 12-150-J Single and sequential applications of tribenuron on broadleaf weed control and crop response in tribenuron-resistant sunflower
A.S. Godar, P.W. Stahlman, J.A. Dille
Weed Technology, 25(3):391-397, 2011
doi:10.1614/WT-D-10-00154.1
- 12-162-J Impact of pelleting and acid pretreatment on biomass structure and thermal properties of wheat straw, corn stover, big bluestem, and sorghum stalk
K. Theerarattananoon, F. Xu, J. Wilson, S. Staggenborg, L. McKinney, P. Vadlani, Z.J. Pei, D. Wang
Transactions of the ASABE, 55(5):1845-1858, 2012

12-184-J	Summer cover crops fix nitrogen, increase crop yield, and improve soil-crop relationships Humberto Blanco-Canqui, M.M. Claassen, D.R. Presley Agronomy Journal, 104(1):137-147, 2012	12-211-J	Response of streamflow to climate change and human activities in Xitiaoxi river basin in China C. Zhang, B. Zhang, W. Li, F. Jin Hydrological Processes, 2012 doi:10.1002/hyp.9539
12-199-B	Computer simulation in plant breeding X. Li, C. Zhu, J. Wang, J. Yu Advances in Agronomy, 116:219-264, 2012	12-214-S	2011 Kansas Performance Tests with Soybean Varieties Multiple authors Coordinating author: J. Lingenfelser KS Agric. Exp. Stn. Report of Prog. 1058, December 2011
12-200-J	Genic and non-genic contributions to natural variation of quantitative traits in maize X. Li, C. Zhu, C-T. Yeh, W. Wu, E.M. Takacs, K.A. Petsch, F. Tian, G. Bai, E.S. Buckler, G.J. Muehlbauer, M.C.P. Timmermans, M.J. Scanlon, P. S. Schnable, J. Yu Genome Research, 22(12):2436-2444, 2012	12-215-S	2011 Kansas Performance Tests with Corn Hybrids Multiple authors Coordinating author: J. Lingenfelser KS Agric. Exp. Stn. Report of Prog. 1055, November 2011
12-201-J	Parallel domestication of the <i>Shattering1</i> genes in cereals Z. Lin, X. Li, L.M. Shannon, C-T. Yeh, M.L. Wang, G. Bai, Z. Peng, J. Li, H.N. Trick, T.E. Clemente, J. Doebley, P.S. Schnable, M.R. Tuinstra, T.T. Tesso, F. White, J. Yu Nature Genetics, 44(6):720-724, 2012 doi:10.1038/ng.2281	12-216-S	2011 Kansas Performance Tests with Grain Sorghum Hybrids Multiple authors Coordinating author: J. Lingenfelser KS Agric. Exp. Stn. Report of Prog. 1059, December 2011
12-209-S	2012 Chemical Weed Control for Field Crops, Pastures, Rangeland, and Noncropland Multiple authors Coordinating authors: D. Peterson, C.R. Thompson KS Agric. Exp. Stn. Report of Prog. 1063, December 2011	12-217-B	Research needs for agriculture under elevated carbon dioxide M.B. Kirkham In: Handbook of Climate Change and Agroecosystems: Global and Regional Aspects and Implications, D. Hillel and C. Rosenzweig (Eds.) London: World Scientific, pp. 225-234, 2012
12-210-J	Effect of drought and high temperature stress on synthetic hexaploid wheat G.P. Pradhan, P.V.V. Prasad, A.K. Fritz, M.B. Kirkham, B.S. Gill Functional Plant Biology, 39(3):190-198, 2012	12-226-J	Allometric model to quantify sorghum canopy formation S. Narayanana, R.M. Aiken, P.V. V. Prasad, Z. Xin, G. Paul, J. Yu ASA CSSA SSSA International Annual Meetings, San Antonio, TX, 2011
		12-228-J	Internationalization of soil physics from an American perspective M.B. Kirkham International Agrophysics, 26(2):181-185, 2012 doi:10.2478/v10247-012-0026-6

12-245-S	2011 Kansas Performance Tests with Sunflower Hybrids Multiple authors Coordinating author: J. Lingenfelser KS Agric. Exp. Stn. Report of Prog. 1060, January 2012	12-311-A	Assessment of plant-available soil water on producer fields in Western Kansas F.R. Lamm, D.H. Rogers, A.J. Schlegel, N.L. Klocke, L.R. Stone, R.M. Aiken, L.K. Shaw Proceedings of the 24th Annual Central Plains Irrigation Conference Colby, KS, 2012
12-246-S	2011 Kansas Performance Tests with Alfalfa Varieties Multiple authors Coordinating author: J. Lingenfelser KS Agric. Exp. Stn. Report of Prog. 1061, January 2012	12-314-A	Optimizing cropping systems under limited irrigation conditions A. Schlegel, L. Stone, T. Dumler, F. Lamm Proceedings of the 24th Annual Central Plains Irrigation Conference Colby, KS, 2012
12-257-J	Assessing the educational needs of urban gardeners and farmers on the subject of soil contamination A.M. Raes Harms, D.R. Presley, G.M. Hettiarachchi, S.J. Thien Journal of Extension, 51(1), 2011	12-315-A	A return look at dormant-season irrigation strategies A. Schlegel, L. Stone, T. Dumler, F. Lamm Proceedings of the 24th Annual Central Plains Irrigation Conference Colby, KS, 2012
12-290-J	Nutrient losses in field-scale surface runoff from claypan soil receiving turkey litter and fertilizer D.W. Sweeney, G.M. Pierzynski, P.L. Barnes Agriculture, Ecosystems & Environment 150:19–26, 2012	12-319-J	Spatial application of WEPS for estimating wind erosion in the Pacific Northwest L. Wagner, F. Fox, S. Chung, B. Lamb Transactions of the ASABE Proceedings International Symposium on Erosion and Landscape Evolution (ISELE), Anchorage, AK, 2011
12-293-S	2012 Field Research Multiple authors KS Agric. Exp. Stn. Report of Prog. 1066, April 2012	12-322-J	Overview of the management submodel in the Wind Erosion Prediction System L. Wagner Proceedings International Symposium on Erosion and Landscape Evolution (ISELE), Anchorage, AK, 2011
12-294-S	2011 Kansas Fertilizer Research Multiple authors KS Agric. Exp. Stn. Report of Prog. 1067, April 2012	12-328-J	Selenate-enriched urea granules are a highly effective fertilizer for selenium bio-fortification of paddy rice grain L. Premarathna, M. McLaughlin, J. Kirby, G.M. Hettiarachchi, S. Stacey, D. Chittleborough Journal of Agricultural and Food Chemistry, 60(23):6037–6044, 2012 doi:10.1021/jf3005788
12-302-J	Presence of tannins in sorghum grains is conditioned by different natural alleles of <i>Tannin1</i> X. Li, W. Xiang, C. Zhu, Z. Lin, Y. Wu, J. Li, S. Pandravada, D.D. Ridder, G. Bai, M.L. Wang, H.N. Trick, S.R. Bean, M.R. Tuinstra, T.T. Tesso, J. Yu PNAS, 109(26):10281-10286, 2012		

- 12-332-B Association mapping of genetic resources: Achievements and future perspectives
S. Sukumaran, J. Yu
2nd International Symposium on Genomics of Plant Genetic Resources
Bologna, Italy, 2010
- 12-336-J A History of Wind Erosion Prediction in the United States Department of Agriculture
J. Tatarko, M.A. Sporcic, E.L. Skidmore
Aeolian Research, 2012
doi:10.1016.j/aeolia.2012.08.004
- 12-349-S 2012 Agricultural Research SEARC Multiple authors
Coordinating author: Lyle Lomas
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