

Dr. Douglas M. Kingman
Associate Professor
Department of Agricultural and Industrial Sciences
College Sciences

Degrees Earned

Ph.D., Agricultural Systems Management, 2002, Purdue University, West Lafayette, Indiana
M.S., Agricultural Systems Management, 1999, Purdue University, West Lafayette, Indiana
M.Ed., Agricultural Education, 1998, Texas A&M University, College Station, Texas
B.S., Agricultural Systems Management, 1991, Texas A&M University, College Station, Texas

Professional Licensure and Certifications

None

Peer-Review Publications and Artistic Performances/Exhibitions

Kingman, D.M., J.E. Muller, and K. Nelson. 2007. Prototype Engulfment Rescue Tube Testing. *Journal of Agricultural Systems, Technology, and Education*. Vol. 22.

Rhykerd, R.L., K.W. Tudor, B.R. Wiegand, D.M. Kingman, and D.G. Morrish. 2006. Enhancing experiential learning through a hands-on crop production and marketing contest. *NACTA Journal* 50(4).

Kingman, D.M. and W.E. Field. 2005. Using fault tree analysis to identify contributing factors to engulfment in flowing grain in on-farm grain bins. *Journal of Agricultural Safety and Health*. American Society of Agricultural Engineers. Vol. 11(4).

Kingman, D.M., A.M. Yoder, N.S. Hodge, R. Ortega, and W.E. Field. 2005. Utilizing expert panels in agricultural safety and health research. *Journal of Agricultural Safety and Health*. American Society of Agricultural Engineers. Vol. 11(1).

Kingman, D.M., A. Spaulding, and W.E. Field. 2004. Predicting the potential of engulfment utilizing an on-farm grain storage hazard assessment tool. *Journal of Agricultural Safety and Health*. American Society of Agricultural Engineers. Vol. 10(4).

Kingman, D.M., G.R. Deboy and W.E. Field. 2003. Contributing factors to engulfments in on-farm grain storage bins: 1980 through 2001. *Journal of Agromedicine*. Vol. 9(1).

Kingman, D.M., W.E. Field and D.E. Maier. 2001. Summary of fatal entrapments in on-farm grain storage bins, 1966-1998. *Journal of Agricultural Safety and Health*. American Society of Agricultural Engineers. Vol. 7(3).

Refereed Abstracts

None

Research Monographs and Technical Reports

Kingman, D.M. 2001. Corn Fungus, A Deadly Threat To Crop And Man. News Release: Purdue University Extension Service, West Lafayette, Indiana.

Kingman, D.M., W.E. Field and B.A. Talbert. 2000. Development of a Prototype On-Farm Flowing Grain Hazard Awareness and Rescue Curriculum. ASAE Paper No. 00-7020. St. Joseph, Michigan: ASAE.

Kingman, D.M., D.E. Maier and W.E. Field. 1999. Summary of Entrapments In On-Farm Grain Storage Bins. ASAE Paper No. 99-7041. St. Joseph, Michigan: ASAE.

Kingman, D.M. 1999. Routinely Working With Diesel Can Make You Dangerous With Gasoline. News Release: Purdue University Extension Service, West Lafayette, Indiana.

Kingman, D.M. 1999. Unusual East Winds Create Deadly Conditions In Some Grain Bins. News Release: Purdue University Extension Service, West Lafayette, Indiana.

Funded External Grants

\$256,000 (\$720,000) from USDA- Texas Agrilife Extension for assisting farmers and ranchers with disabilities (2010-2014).

\$10,000 from the Parten Foundation for bio-diesel fuel research and assessment of power output from vegetable oils (2007-2011).

\$15,000 from Entergy for alternative energy research and development (2009).

\$68,000 from Hewlett Packard to establish the HP Agriculture Technology Learning Laboratory that consists of 25 laptops and ancillary equipment (2007).

\$5,000 in-kind contribution (JD 4520 tractor) from Paben Farms, Inc. for support of the SHSU bio-diesel research initiative: Output of selected alternative bio-diesel fuels (2006).

\$1,000,000 from the U.S. Department of Energy for wind energy research and curriculum development at Illinois State University (2005).

\$500,000 from the Illinois Clean Energy Community Foundation for the installation of a Vestas NM82 Wind Turbine Generator at the ISU farm (2004).

\$4,638 from John Deere Company, Crop Systems Research for a project to identify the opinions of customers who own and operate John Deere Auto Trac™ Self-Steering Systems on their tractors, combines, or applicators (2004) .

\$135,000 from the National Institute for Occupational Safety and Health through the Great Lakes Center for Agricultural Safety and Health over two years to field test the Farm Grain Hazard Assessment Tool (FGHAT) with 100 Illinois farmers and 25 commercial facility operators. In addition, a web based version of the FGHAT will be developed and pilot tested with Illinois farmers (2003).

\$40,000 from the Illinois Clean Energy Community Foundation for the installation of a 82m tall meteorological tower at the ISU farm (2003).

\$65,000 in-kind contribution from NEG-Micon, an Illinois-based wind turbine manufacturer that served as the contractor in erecting the meteorological tower with a total project cost of about \$105,000 (2003).

\$13,437 C-FAR/ISU Departmental Competitive Grant to measure and evaluate the wind-regime at the Illinois State University Farm at Lexington, Illinois (2003).

\$24,445 C-FAR/ISU Departmental Competitive Grant to design and field-test a containment system (Liberty Tube™, provisional patent pending) to assist rescue workers during the extrication of a victim who is partially engulfed in grain (2002).

\$5,000 Illinois State University Research Grant to construct and field-test a containment system to assist rescue workers during the extrication of a victim who is partially engulfed in grain (2002).

\$25,000 NIOSH grant through the Midwest Center for Agricultural Disease and Injury Research, Education and Prevention to address the problem of flowing grain entrapments in on-farm grain structures by using a systems approach to develop an assessment tool at Purdue University (1999).

Peer-Review Presentations/Posters

Kingman, D., J. Muller, and M. Lau. 2008. "BioDiesel Power Output Management." Poster presentation presented at the American Farm Bureau Federation Annual Convention, New Orleans, LA, January 13-15.

Pavelock, D., D.R Ullrich, and D.M. Kingman. 2008. Do service activities really attract students? Horticultural Science, 43 (3) (Abstract).

Pavelock, D., J. Largent, D.R. Ullrich, D.M. Kingman, J.E. Muller, and S.F. Kelley. 2008. Demographics and extracurricular involvement of students participating in the 2007 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show: A follow-up study. 2008 Annual Conference of the American Association for Agricultural Education, Reno, NV. (Presentation).

Pavelock, D., D. Ullrich, and D. Kingman. 2007. Recruitment through service activities: Does it really help? NACTA Journal (Abstract), 51 (2): 111.

Largent, J., D.M. Kingman, J. Muller, D. Pavelock, S. Kelley, & D. Ullrich. 2007. Demographics and Extracurricular Involvement of Students Participating in the 2007 Houston Livestock Show and Rodeo Agricultural Mechanics Project Show. 25th Annual National Agricultural Mechanics Professional Development Seminar and Blue Ribbon Presentations, Indianapolis, Indiana. (Published Proceedings, Poster, Presentation).

Fletcher, K.R., D.M. Kingman, B. Wiegand, A. Spaulding, P. O'Rourke. 2007. Selected Opinions and Perceptions of John Deere AutoTrac Self-Steering Systems. 25th Annual National Agricultural Mechanics Professional Development Seminar and Blue Ribbon Presentations, Indianapolis, Indiana. (Published Proceedings, Poster, Presentation).

Fletcher, K.R. and D.M. Kingman. 2006. Presentation: John Deere AutoTrac: Customer Opinions of a Guidance System. Agricultural Equipment Technology Conference, Louisville, KY.

Kingman, D.M. 2006. Presentation: Farm Grain Hazard Assessment Tool. NIOSH Research Initiatives; Great Lakes Center of Agricultural Safety and Health, The Ohio State University.

Fletcher, K.R., D.M. Kingman, A.D. Spaulding, P.D. O'Rourke. 2006. Poster: Customer Opinions of John Deere AutoTrac Self-Steering Systems. session presented at the Agricultural Equipment Technology Conference, Louisville, KY.

Fletcher, K.R. and D.M. Kingman. 2006. Presentation: John Deere AutoTrac: Customer Opinions of a Guidance System. Quad City Section Winter Meeting, American Society of Agricultural and Biological Engineers, Moline, IL.

- Fletcher, K. and D.M. Kingman. 2005. Poster: John Deere Customer Opinions' of John Deere AutoTrac Systems. American Society of Agronomy, Salt Lake City, Utah.
- Kingman, D.M., R.L. Rhykerd, K.W. Tudor, B.R. Wiegand, and D.G. Morrish. 2005. Paper/Presentation: Enhancing Experiential Learning Through a Hands-on Crop Production and Marketing Contest. National Agricultural Mechanics Blue Ribbon Paper Session. National FFA Convention, Louisville, KY.
- Nelson, K. and D.M. Kingman. 2005. Presentation: Cultivating Youth for Farm Safety. National Institute of Farm Safety, Wintergreen, Virginia.
- Meteer, W., K. Nelson, and D.M. Kingman. 2005. Poster: Application and Assessment of the Farm Grain Hazard Assessment Tool. National Institute of Farm Safety, Wintergreen, Virginia.
- Meteer, W. and D.M. Kingman. 2005. Presentation: Field Testing the Farm Grain Hazard Assessment Tool. National Institute of Farm Safety, Wintergreen, Virginia.
- Rhykerd, R.L., D.M. Kingman, K.W. Tudor, and B.R. Wiegand. 2005. Presentation: Cultivating Active Learning in Agriculture. Enhancing the Campus Learning Culture: A University-Wide Symposium on Teaching and Learning, Bloomington, Illinois.
- Kingman, D.M. and M.J. Fleming. 2004. Poster: Improvements to a Prototype Plastic Grain Rescue Tube. National Institute of Farm Safety, Keystone, Colorado.
- Kingman, D.M. 2004. Paper/Article: Liberty Tube™ Prototype Plastic Grain Rescue Tube. *Resource Magazine*, September 2004 Vol. 11(7). Published by ASAE, St. Joseph, Michigan.
- Nelson, K. and D.M. Kingman. 2004. Presentation: A Web-based version of the Farm Grain Hazard Assessment Tool. National Institute of Farm Safety, Keystone, Colorado.
- Rhykerd, R.L., K.W. Tudor, B.R. Wiegand, and D.M. Kingman. 2004. Paper: Impact of a Crop Production and Marketing Contest on Student Learning. In *With Zeal Unceasing, Essays on Teaching at Illinois State University*. D. Hesse, L. Ostergaard, and K. McKinney eds. Normal, IL, pp 139-144.
- Kingman, D.M. and M.J. Fleming. 2004. Poster: Prototype Plastic Grain Rescue Tube. Improving Agricultural Health and Safety Programs Through Evaluation Conference, The Ohio State University. March 2004, Columbus, Ohio.
- Kingman, D.M. and W.E. Field. 2003. Presentation: Using Fault Tree Analysis to Identify Contributing Factors to Engulfment in Flowing Grain in On-Farm Grain Bins. Fifth International Symposium: Future of Rural Peoples, Rural Economy, Healthy People, Environment, Rural Communities. Saskatoon, Saskatchewan, Canada.
- Rhykerd, R.L., K.W. Tudor, B.R. Wiegand, D.M. Kingman. 2002. Paper/Presentation: Agricultural Production and Profit: Student Contest. American Society of Agronomy Abstracts. November 13, 2002, Indianapolis, IN.
- Kingman, D.M. and W.E. Field. 2001. Paper/Article: Buried Alive. *Resource Magazine*, January 2001 Vol.8(1). Published by ASAE, St. Joseph, Michigan (cover article).
- Kingman, D.M., D.E. Maier and W.E. Field. 2000. Poster: Summary of Fatal Entrapments In On-Farm Bins and Recommended Intervention Strategies. AETC Poster No. 00AETC-109. Kansas City, Missouri.

Work or Professional Experiences

Associate Professor, Department of Agricultural and Industrial Sciences, Sam Houston State University (2010-present)

Assistant Professor, Department of Agricultural and Industrial Sciences, Sam Houston State University (2006-2010)

Visiting Program Specialist, Texas AgriLife Extension Service, Biological and Agricultural Engineering Department, Texas A&M University (2008)

Independent Agricultural and Industrial Safety Consultant, Expert Witness (1998-present)

Managing Member, Liberty Rescue Systems, L.L.C. (2005-present)

Assistant Professor, Department of Agriculture, Illinois State University (2001-2005)

Safety Training Instructor, Purdue University, West Lafayette, Indiana (1998-2001)

Research Assistant, Department of Agricultural and Biological Engineering, Purdue University, West Lafayette, Indiana (1998-2001)

Student Technician, Instructional Materials Service, Department of Agricultural Education, Texas A&M University, College Station, Texas (1997-98)

Engineering Technician, USDA/ARS Aerial Application Research Unit, College Station, Texas (1997-98)

Maintenance Manager, Camp Cooley Ranch, Ltd., Franklin, Texas (1994-97)

Research Technician, USDA/ARS Aerial Application Research Unit, College Station, Texas (1993-94)

Irrigation Equipment Sales, Design, Installation, ATS Irrigation, Inc., Brenham, Texas (1992-93)

Honors and Awards

Blue Ribbon Award, Rain Water Harvesting, American Society of Agricultural and Biological Engineers (2010)

Graduate Research Faculty Member, Sam Houston State University (2006)

University Research Initiative Award, Illinois State University (2006)

Fellow, Illinois State University Teaching Technology Program (2003)

Graduate Research Faculty Member, Illinois State University (2002)

Outstanding Graduate Student Teaching Award, Purdue University (1999)

Outstanding Agricultural Education Graduate Student Runner-up, Texas A&M (1998)

Gamma Sigma Delta Agriculture Honor Society

Alpha Zeta Agriculture Honor Society

Other Competencies

none