

## Faculty Vitae

Name: Scott Staggenborg

Highest Degree: Ph.D. from Texas Tech University received August, 1993

Date of Appointment: May 1995

Rank: Associate Professor

Budgeted Time (Tenths):

Research- Extension-	1.0	Teaching- Directed Service-
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Program Area:

Significant Accomplishments 1993 to Present:

Since my appointment in 1995, my significant accomplishments include conducting an agronomic program that encompasses 22 counties and the use a team approach with extension and research faculty and county agricultural extension agents. My program focuses on 1) adoption of precision agriculture technology by producers, (2) improvement of water quality while maintaining production levels, and (3) increasing production efficiency of grain crops in the area.

I conducted one of the first projects in the region to assess site-specific corn seeding rates and a separate program to assess the use of infrared images as a crop production and diagnostic tool.

I provided leadership on projects regarding to evaluate high-oil corn hybrids and narrow row grain sorghum. I have also provided statewide leadership in the development and implementation of a cotton research and extension program.

Goals for the Next Five Years:

My five-year goals include continued development of educational materials that can be utilized by extension agents, extension specialists and industry personnel. These goals

include the development of management systems that produce optimum yields by cultivating the benefits of intensive crop rotations, proper planting dates and seeding rates, appropriate hybrid selection to match environmental conditions and improved pest control measures.

I intend to continue developing my individual skills in the development and application of site-specific agriculture. Specifically, to develop a system to maximize profitability and minimize the risks associated with variable rate herbicide applications as well as adopting precision agriculture technology to enhance water quality in Kansas.

#### Publications:

Referee Journal Articles and Chapters	Since 1993	7	Total	7
Numbered Extension Publications	Since 1993	5	Total	5
Proceedings Papers	Since 1993	21	Total	24

#### Most Significant Publications Since 1993:

Staggenborg, S.A. , W.B. Gordon, R.K. Taylor, S.R. Duncan, and D.L. Fjell. 1998. Narrow row sorghum production in Kansas. Kansas State Research and Extension Publication MF 2388.

Staggenborg, S.A. , K.C. Dhuyvetter, D.L. Fjell, and R.L. Vanderlip. 1996. Fall freeze damage in summer grain crops. Kansas Research and Extension Publication No. MF 2234.

Staggenborg, S.A., R.L. Vanderlip, G.J. Roggenkamp, and K.D. Kofoid. 1999. Methods of simulating freeze damage during sorghum grain fill. *Agron. J.* 91:46-53.

Staggenborg, S.A., D.L. Fjell, D.L. Devlin, W.B. Gordon, L.D. Maddux, and B.H. Marsh. 1999. Selecting optimum planting dates and plant populations for dryland corn in Kansas. *J. of Prod. Agric.* 12:85-90.

Staggenborg, S.A., D.L. Fjell, D.L. Devlin, W.B. Gordon, and B.H. Marsh. 1999. Grain sorghum response to row spacings and seeding rates in Kansas. *J. of Prod. Agric.* 12:390-395.

Staggenborg, S.A., and R.L. Vanderlip. 1996. Sorghum grain yield reductions caused by duration and timing of freezing temperatures. *Agron. J.* 88:473-478.

Staggenborg, S.A., R.J. Lascano, and D.R. Krieg. 1996. Determining cotton water use in a semiarid climate with the GOSSYM cotton simulation model. *Agron. J.* 88:740-745.

Graduate Student Involvement:

Students Graduated Since 1993	M.S.	2	Ph.D.	--
Current Students	M.S.	--	Ph.D.	--
Current Member of Advisory Committee	M.S.	2	Ph.D.	--

Grant Activity:

Most Common Sources of Extramural Support (ex. NSF, Sorghum Commission, NRI, Industry, Variety Performance):

Kansas Corn Commission

Kansas Soybean Commission

High Plains Sunflower Growers Association

Deere and Company

Various Private Companies

Proposals Submitted Since January 1, 1997:	Number	23	\$ 331,700
Funded	Number	12	\$ 219,986

Current dollars (grant or contract) available to support your work \$

Most Significant Funded Projects Since 1993:

Staggenborg, S.A. , R. K. Taylor, D. L. Fjell, K.C. Dhuyvetter. "Assessing the role of Infrared Images and Yield Maps in Corn Production." Submitted to Kansas Corn Commission. 1998-1999, \$15,000. 1999-2000, \$15,000.

Taylor, R.K., G. Kilgore, S.A. Staggenborg, and T. Kastens. "Using Georeferenced Data to Optimize Soybean Production." Submitted to Kansas Soybean Commission. 1998-1999, \$18,500. 1999-2000, \$18,500.

Staggenborg, S.A. , W.B. Gordon, D. E. Peterson, D. L. Fjell, K.C. Dhuyvetter. "Evaluating Roundup-Ready Soybean Yields under Different Management Strategies." Submitted to Kansas Soybean Commission. 1998-1999, \$8,000. 1999-2000, \$8,000.

Maddux, L.D., S.A. Staggenborg, W. B. Gordon, D.L. Fjell, and K.C. Dhuyvetter. "Environmental Stress Impacts on High Oil Corn Yields." Submitted to Kansas Corn Commission. 1998-1999, \$6,000. 1999-2000, \$6,000.

Gordon, W.B., D.L. Fjell, S.A. Staggenborg, and V.L. Martin. "The Effect of Row Spacing and Plant Population on Corn Yields". Submitted to Kansas Corn Commission. 1997-1998, \$8,000. 1998-1999, \$8,000

Staggenborg, S.A. , D.L. Fjell, D.L. Devlin, W.B. Gordon, B.H. Marsh, and K.C. Dhuyvetter. "The Effect of Variable Rate-Precision Planting on Corn Yields". Submitted to Kansas Corn Commission. 1996-1997, \$9,200. 1997-1998, \$10,300.

Teaching:

Courses Taught:

Course Number	Title	Most Recent Enrollment
N/A		

Number of Undergraduate Research Assistants: N/A

Number of Undergraduate Advisees: N/A

Service Activities: