



David B. Weaver

Professor Emeritus – Plant Breeding

CROP, SOIL AND ENVIRONMENTAL
SCIENCES

EDUCATION

1981 Ph.D., Purdue University (Agronomy)

1976 M.S., University of Georgia (Agronomy)

1974 B.S.A., University of Georgia (Agronomy)

PROFESSIONAL EXPERIENCE

1992-Present Professor, Auburn University

1987-1992 Associate Professor, Auburn University

1981-1987 Assistant Professor, Auburn University

1978-1980 Graduate Research Assistant, Purdue University

1980-1981 Graduate Teaching Assistant, Purdue University

HONORS & AWARDS

Outstanding Faculty Member Award, College of Agriculture,
Student Government Association, 2016

Club Advisor of the Year, College of Agriculture, 2015

Cotton Genetics Research Award, National Cotton Council, 2015

Richard L. Guthrie Award for Achievement in International
Agriculture, 2015

Club Advisor of the Year, College of Agriculture, 2014

Fellow, Crop Science Society of America, 2013

Ralph “Shug” Jordan Professor of Writing, 2013

Dean’s Award for Advising Excellence, 2010

Fellow, American Society of Agronomy, 2009

Dean’s Award for Teaching Excellence, 2008

PROFESSIONAL AFFILIATIONS

American Society of Agronomy

Crop Science Society of America

RESEARCH ACTIVITIES

Breeding, genetics and production of cotton and soybean. Primary focus is on cultivar development and germplasm enhancement, particularly with regard to pest resistance and fiber quality traits of cotton.

COURSES

CSES 1000, Basic Crop Science

CSES 1003, Basic Crop Science (distance)

CSES 5100/6100, Plant Genetics and Crop Improvement

CSES 5103/6106, Plant Genetics and Crop Improvement (distance)

SELECT PUBLICATIONS

Weaver, D. B., and R. R. Sharpe. 2013. Registration of 'Henderson' soybean. *J. Plant Registrations* 7: 1-5.

Weaver, D. B. R. B. Sikkens, K. S. Lawrence, C. Sürmelioglu, E. van Santen, and R. L. Nichols. 2013. RENlon and its effects on agronomic and fiber quality traits in upland cotton. *Crop Sci.* 53:913-920.

Weaver, D. B. 2015. Cotton nematodes. p. 547 – 570. In D. Fang (ed.) *Cotton*. American Society of Agronomy Monograph. Madison, WI.

Campbell, B. T., D. B. Weaver, R. Sharpe, J. Wu, and D. C. Jones. 2013. Breeding potential of elite Pee Dee germplasm in upland cotton breeding programs. *Crop Sci.* 53:894-895.

Tapley, M., B. V. Ortiz, E. van Santen, K. S. Balkcom, P. Mask, and D. B. Weaver. 2013. Location, seeding date, and variety interactions on winter wheat yield in southeastern United States.

Agronomy J. 105:509-518.

Hutmacher, R., M. Ulloa, S. D. Wright, B. T. Campbell, R. Percy, T. Wallace, G. Myers, F. Bourland, D. B. Weaver, P. Chee, P. Thaxton, J. Zhang, W. Smith, J. Dever, V. Kuraparthi, D. Bowman, D.

Jones., and J. Burke. 2013. Elite-Upland cotton germplasm-pool assessment of *Fusarium* wilt (FOV) resistance in California.

Agronomy J. 105:1635-1644

Wu, Tingting, D. B. Weaver, R. D. Locy, S. McElroy, and E. van Santen. 2013. Identification of vegetative heat tolerant upland cotton (*Gossypium hirsutum* L.) germplasm utilizing chlorophyll fluorescence measurement during heat stress. *Plant Breeding* DOI: 10.1111/pbr.12139.

Walker, D. R., D. K. Harris, Z. R. King, Z. Li, H. R. Boerma, J. B. Buckley, D. B. Weaver, E. J. Sikora, E. R. Shipe, J. D. Mueller, J. W. Buck, R. W. Schneider, J. J. Marois, D. L. Wright, and R. L. Nelson. 2014. Evaluation of soybean germplasm accessions for resistance to *Phakopsora pachyrhizi* populations in the southeastern United States, 2009-2012. *Crop Sci.* DOI: 10.2135/cropsci2013.08.0513.

Li, Ruijuan, A. M. Rashotte, N. K. Singh, D. B. Weaver, K. S.

Lawrence, and R. D. Locy. 2014. Integrated signaling networks in plant responses to sedentary endoparasitic nematodes: a perspective. *Plant Cell Reports* DOI: 10.1007/s00299-014-1676-6.

Schrimsher, D. W., K. S. Lawrence, R. B. Sikkens, and D. B. Weaver. 2014. Nematicides enhance growth and yield of *Rotylenchulus reniformis* resistant cotton genotypes. *J. Nematol.* 46:365-375.

Hu, Hongtao, A. M. Rashotte, N. K. Singh, D. B. Weaver, L. Goertzen, S. R. Singh, and R. D. Locy. 2015. The complexity of posttranscriptional small RNA regulatory networks revealed by in silico analysis of *Gossypium arboreum* L. leaf, flower and boll small regulatory RNAs. *PLoS ONE* 10(6): e0127468.

doi:10.1371/journal.pone.0127468

Li, Ruijuan, A. M. Rashotte, N. K. Singh, K. S. Lawrence, D. B. Weaver, and R. D. Locy. 2015. Transcriptome analysis of cotton (*Gossypium hirsutum* L.) genotypes that are susceptible, resistant, and hypersensitive to reniform nematode (*Rotylenchulus reniformis*). *PLoS ONE* 11/2015; 10(11):e0143261.

DOI:10.1371/journal.pone.0143261

Stallings, A. M, K. S. Balkcom, C. W. Wood, E. A. Guertal and D. B. Weaver. 2016. Nitrogen mineralization from 'AU Golden' sunn hemp residue. *J. Plant Nutrition* 39:

DOI:10.1080/01904167.2016.1193613