

**C. Wayne Smith**  
Professor-Cotton Breeding  
Associate Department Head

**Education**

1974 Ph.D., University of Tennessee/Knoxville, Department of Plant and Soil Science  
1971 M.S., Auburn University, Department of Agronomy and Soils  
1969 B.S., Auburn University, Agricultural Science

**Professional History**

2001 - present: Professor, cotton breeding; Graduate Coordinate and Associate Department Head  
4/15/05 – 9/1/06: Professor, cotton breeding; Assoc. Dept. Head; and Interim Dept. Head  
5/1/86 - 2001: Professor, cotton breeding, Department of Soil and Crop Sciences/TAMUS  
10/1/74 - 4/30/86: Assistant to Professor, cotton breeding, Univ. of Ark. AES

2014 – 2015: Editor, Journal Plant Registrations  
2016 – present: Editor-in-Chief, Crop Science Society of America  
2016 – 2018: Secretary-Vice President-President, National Association of Plant Breeders

**Program Overview**

Research duties include development of superior germplasm/cultivars which will enhance the productivity, improve the product quality, and/or decrease production costs associate with cotton production in Texas. Primary research sites in Texas are College Station, Weslaco, Corpus Christi, Thrall, and Chillicothe, as well as colleagues at Lubbock. Primary geographical areas of responsibilities are central and south Texas with secondary goals aimed at all cotton producing areas of Texas and the United States. Teaching/administrative duties include teaching at the undergraduate level (SCSC 311W) and graduate level (SCSC 610 and SCSC 641),direction of graduate students in plant breeding, administration of departmental academic affairs, and coordination of graduate program in Soil and Crop Sciences, including recruitment and general advising. Position directs the graduate program in SCSC with majors in AGRONOMY, SOIL SCIENCE, and PLANT BREEDING, and directs the Distance M.S. and Ph.D. Program in Plant Breeding with M.S. and Ph.D. degrees conferred by Soil and Crop Sciences and Horticultural Sciences. Non traditional teaching includes but is not limited to a monthly Plant Breeding Bulletin (newsletter), oversight of a weekly seminar series involving plant breeding faculty and graduate students in SCSC, HORT, and other departments, and the distance plant breeding graduate program

**Significant Accomplishments:**

**Benchmark genetic material developed and released (career=131 germplasm lines and 5 cultivars)**

TAM 11K-13 ELSU	2018	Journal Plant Registration 12:112-117
Tamcot G11 (cultivar)	2017	Journal Plant Registration
TAM 06WE-621	2014	Journal Plant Registration 8:308-312
Tamcot 73 (cultivar)	2011	Journal Plant Registration 5:273-278
Extra Long Staple Upland GP lines 2008	2008	Journal Plant Registration 3:81-85
TAM 945L-25	2002	Crop Science 43:742
TAM 88G-104	1998	Crop Science 41:1369

**Benchmark Academic Accomplishment**

Developed and direct the only research MS and PhD program in plant breeding at Texas A&M University and in the United States.

**Refereed Publications since 2014 (122 career total) (\* graduate student directed)**

- Beyer, B.\*, C. Wayne Smith, Richard Percy, Steve Hague, and Eric Hequet. 2014. Test cross evaluation of upland cotton accessions for selected fiber properties. *Crop Sci.* 54:60-67.
- Jernigan, K. \*, C. Wayne Smith, E. Hequet, Benjamin Beyer, and Richard Percy. 2014. Combining ability and variability for fiber maturity among diverse world cotton germplasm. *Crop Sci.* 54:906-913
- Jernigan, Kendra\*, C. Wayne Smith, Eric Hequet, Benjamin Beyer, and Richard Percy. 2014. Combining ability and variability for fiber color among diverse cotton genotypes. *Crop Sci.* 54:1041-1047
- Ng, E.-H.\*, C. W. Smith, E. Hequet, S. Hague, and J. Dever. 2014. Diallel Analysis of Fiber Quality Traits with an Emphasis on Elongation in Upland Cotton. *Crop Sci.* 54: 2: 514-519
- Ng, E.-H.\*, C.W. Smith, E. Hequet, S. Hague, and J. Dever. 2014. Generation Means Analysis for Fiber Elongation in Upland Cotton. *Crop Sci.* 54:1347-1353.
- Jones, W.\*, K. Joy, and C. Wayne Smith. 2014. Within boll yield components of extra long staple upland cotton. *Crop Sci.* 54:1057-1061
- Smith, C.W., E. Hequet, S. Hague, and D. Jones. 2014. Registration of TAM 06WE-621 upland cotton with improved fiber strength and yarn performance. *JPR* 8:308-312.
- Knutson, A., S. Isaacs, C. Campos, M. Campos, and C. Wayne Smith. 2014. Resistance to cotton fleahopper feeding in primitive and converted race stocks of cotton, *Gossypium hirsutum*. *Cotton Science* 18:385-392.
- Brown, N.I.\*, C.W. Smith, S. Hague, D. Auld, E. Hequet, K. Joy and D. Jones. 2015. Within-boll yield characteristics and their correlation with fiber quality parameters following mutagenesis of upland cotton, *Gossypium hirsutum*, TAM 94L-25. *Crop Science* 55:1513-1523.
- McLoud, L.A., S. Hague, A. Knutson, C. Wayne Smith, and M. Brewer. 2015. Cotton square structure offers new insights into host plant resistance to cotton fleahopper (*pseudatomoscelis seriatus* Reuter) in upland cotton. *J. Econ. Ento.* 108:
- McLoud, L.A., A. Knutson, M. Campos-Figueroa, C.W. Smith, and S. Hague. 2015. Evaluating pilose, a cultigen of *Gossypium hirsutum*, as a source of resistance to cotton fleahopper (Hemiptera: Miridae). *J. Econ. Ento.* 108: 2048-2054.
- Zeng, Linghe, Todd Campbell, Efreem Bechere, Jane Dever, Jinfa Zhang, Andrea Jones, Tyson Raper, Steve Hague, Wayne Smith, Gerald Myers, and Fred Bourland. 2015. Genotypic and environmental effects on cottonseed oil, nitrogen, and gossypol contents in eighteen years of Regional High Quality Tests. *Euphytica* 206:815-824.
- Jones, Whitney M.\*, C. Wayne Smith, and James L. Starr. 2016. Single plant selection for seedling disease complex in upland cotton. *Crop Sci.* 56:1-8 (doi: 10.21.35/cropsci2015.12.0767).
- Hugie, K.L.\*, D. Fang, W. Smith, Ping Li, Lori Hinze, S. Hague, and D. Jones. 2016. Utility Assessment of Published Microsatellite Markers for Fiber Length and Bundle Strength QTL in a Cotton Breeding Program. *Crop Sci* 56:2983-2995.
- Bhangu, D.\*, C. Wayne Smith, Steve Hague. 2017. Performance of Extra Long Staple Upland, Long Staple Upland, and Extra Strength Upland Fiber Traits in South Texas. *Cotton Sci.* 21:190-198.
- Hugie, K.L.,\* W. Smith, K. Joy, and D. Jones. 2017. Divergent selection for fiber length and bundle strength and correlated responses in cotton. *Crop Sci* 57:1-9.
- Smith, C. Wayne, Eric Hequet, Steve Hague, and Don Jones. 2018. Registration of Tamcot G11 upland cotton cultivar with improved fiber length. *JPR* 12:7-12.
- Smith, C. Wayne, Eric Hequet, Steve Hague, and Don Jones. 2018. Registration of TAM 11K-13 ELSU, TAM 11L-24 LSU, and TAM 11T-08 ESU germplasm lines of upland cotton. *JPR* 12:112-117.