

**STEVE HAGUE**  
Associate Professor, Cotton Breeder  
Department of Soil and Crop Sciences, Texas A&M University

**Education**

2000 PhD Plant Breeding, Texas A&M University  
1997 M.S. Agronomy, Texas Tech University  
1994 B.S. Agricultural Science, Texas A&M University – Commerce

**Positions and Employment**

2006- Assistant/Associate Professor, Cotton Breeder, Department of Soil and Crop Sciences, Texas A&M University  
  
2002-2006 Cotton Trait Introgression Breeder/ Station Manager, Bayer CropScience  
  
2000-2002 Assistant Professor, Cotton and Soybean Research Agronomist, Northeast Research Station, Louisiana State University

**Program Overview**

My research emphasis is to create cotton cultivars and germplasm with high-yield potential, excellent drought tolerance and resistance to insects endemic to Texas. I make active use of a wide array of cotton germplasm including exotic upland and interspecific lines. My cotton testing region includes Central and South Texas, as well as the Rolling Plains. I emphasize high-impact learning experiences in my teaching responsibilities. Courses include undergraduate Plant Breeding and Genetics (SCSC 304); Professional Development in Agronomy (SCSC 305); International Agricultural Systems (SCSC 410); Mexico Study Abroad (SCSC 421); crops judging; undergraduate research; undergraduate internships; graduate research and advising. Within these courses are several distance delivered and a writing intensive sections.

**Significant 5 Year Accomplishments (2011-2015)**

Research: Helped to acquire \$ 4,129, 500 of which \$981,000 went directly into my program. I have co-released eight germplasm lines and one cultivar with several more poised for release in 2016. My program has identified the optimal testing regions for cotton in Texas (non-High Plains); determined the mode of action for a high-level of host plant resistance to the cotton fleahopper and discovered the trait is highly heritable; evaluated several devices to measure drought stress in cotton so that we can begin to characterize lines as being drought tolerant versus susceptible; progressing in the assembly of a SNP toolkit for cotton breeders. I have served as an officer in the American Society of Agronomy – Southern Branch; associate editor for the Journal of Cotton Science; the treasurer/secretary for the International Cotton Genome Initiative. I have reviewed 21 manuscripts, 19 grant proposals, and authored/co-authored 32 peer-reviewed publications. Teaching: I have instructed five semesters of SCSC 304 (including distance delivered and honors sections), SCSC 305, three semesters of SCSC 410 (writing intensive), and one semester of SCSC 421. Supervised six PhD and five MS graduate students. Supervised six undergraduate research projects and 26 undergraduate internships. I have served on the TAMU's Honors Council (student academic integrity), the TAMU Honors and Undergraduate Research Advisory Committee, and the TAMU committee to develop high-impact learning experiences.

## Publications

### Ten most recent publications (59 total)

1. McCloud, L.A., S. Hague, A. Knutson, C.W. Smith, and M. Brewer. 2015. Cotton square morphology offers new insights into host plant resistance to cotton fleahopper (*Hemiptera: Miridae*) in upland cotton. *J. Econ. Entomology*. tov275.
2. McCloud, 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. Entomology*. tov128.
3. Zeng, L., B.T. Campbell, E. Bechere, J. Dever, J. Zhang, A. Jones, T.B. Raper, S. Hague, W. Smith, G.O. Myers. 2015. Genotypic and environmental effects on cottonseed oil, nitrogen, and gossypol contents in 18 years of regional high quality tests. *Euphytica* 206(3) 815-824.
4. Hulse-Kemp, A., J. Lemm, J. Plieske, H. Ashrafi, R. Buyyarapu, D. Fang, J. Frelichowski, M. Giband, S. Hague, and L.L. Hinze. 2015. Development of a 63K SNP array for cotton and high-density mapping of intra-and inter-specific populations of *Gossypium* spp. G3: Genes| Genomes| Genetics. G3.115.01.
5. Brown, N., 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, TAM 94L-25. *Crop Sci.* 55(4): 1513-1523.
6. Kothari, N., J. Dever, S. Hague, and E. Hequet. 2015. Evaluating intraplant cotton fiber variability. *Crop Sci.* 55(2): 564-570.
7. Smith, C W., E. Hequet, S. Hague, and D. Jones. 2015. Registration of TAM 06WE-621 upland cotton with improved fiber strength and yarn performance. *J. Plant Reg.* 8(3): 308-312.
8. 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(4):1347-1353.
9. 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. 54(2): 514-519.
10. Beyer, B. M., C.W. Smith, P. Richard; S. Hague, E.F. Hequet. 2015. Test cross evaluation of upland cotton accessions for selected fiber properties. *Crop Sci.* 54(1) 60-67.

## Awards and Honors

- 2011, Special Achievement Award for Teaching, Soil and Crop Sciences Department, Texas A&M University.

## Professional Experience

- Advised/co-advised six PhD students, five MS students.
- Authored/co-authored 59 peer-reviewed journal articles, 1 book chapter, 3 plant patents, and 65 scientific abstracts/presentations.
- Acquired \$6,456, 000 of which \$1,769,000 went into my research program.
- Courses instructed: Plant Breeding and Genetics (SCSC 304); Professional Agronomy Development (SCSC 305); International Agricultural Systems (SCSC 410); Study Abroad-Mexico (SCSC 421); Study Abroad – Australia (SCSC 489); Crops Judging (SCSC 489); Undergraduate Research (491); Undergraduate Internships (SCSC 485); Experimental Designs in Agriculture (SCSC 660).