

## **Calvin L. Trostle, Ph.D.**

Professor & Extension Agronomist, Texas A&M AgriLife Extension Service  
Dept. of Soil and Crop Sciences/Texas A&M University, Lubbock, Texas

### **Education/Training**

1996 Ph.D. Soil Science, University of Minnesota  
1993 M.S. Soil Chemistry, Texas A&M University  
1984 B.S. Agronomy, Kansas State University

### **Positions and Employment**

1999-Present Assistant/Associate/Full Professor, Soil & Crop Sciences, Texas A&M AgriLife Extension, Lubbock, TX  
1996-1998 Post-doc/Assistant Research Scientist, Texas A&M AgriLife Research, Beaumont, TX

### **Program Overview**

I provide extension education/applied research support primarily to the Texas High Plains region and secondarily across Texas for grain sorghum, sunflower, peanuts, wheat/small grains, guar, alfalfa, winter canola, summer annual forages, castor, and sesame. I conduct additional programming in dryland reduced tillage systems, cover cropping, soil fertility/soil testing, and *Rhizobium/Bradyrhizobium* inoculants for legumes. I also serve as extension state specialist for sunflower. Annually I conduct 50-60 producer Extension programs, over 30 print media interviews, at least 80 radio interviews (regularly scheduled on five stations) and I contribute to three newsletters on at least a monthly basis. I collaborate or initiate annual county agent Extension trainings on 2 or more topics. I am affiliated with Texas Tech University as an adjunct professor, Plant & Soil Sciences, College of Agriculture & Natural Resources, 2001-current (currently co-chair two M.S. committees, committee member for two additional students).

### **Significant 5-Year Accomplishments**

Applied Research: Initiated long-term dryland conservation tillage project, Texas South Plains (2012). Developed “Wheat Variety Picks” for the Texas High Plains and regional wheat growers. Field testing data in support of the first commercial release of a high oleic Valencia peanut variety. Coordination of sunflower hybrid testing for Texas identifying high yielding commercial confectionary and oilseed hybrids. Development of the use of harvest aids in guar production in the Southwest U.S.

Extension Education: Identification of grain sorghum ‘pick’ hybrids for the Texas South Plains. Initiation of a regional no-till working group for farmers as well as the first annual cover-crop/no-till extension education (joint with USDA-NRCS). Conducted over 300 extension education programs. Print and broadcast media activities include Wall Street Journal, Bloomberg, Dow Jones Newswire, Time magazine, National Public Radio, Public Radio International.

Industry Activities: Development of production strategies and education programs for guar in the southwest U.S. Coordinate annual Texas field sunflower survey in conjunction with National Sunflower Association. Provide monthly newsletter contributions for Texas Sorghum Association and Wheat Farmer/Row Crop Farmer (Lone Tree Publishing, Topeka, KS).

### **Publications**

#### ***Ten most recent publications (30 total)***

1. Grichar, W.J., P.A. Dotray, C.L. Trostle. 2015. Castor (*Ricinus communis* L.) tolerance and weed control with pre-emergence herbicides. *Industrial Crops Products*. 76:710-716.
2. Trostle, C., M. Kelley. 2015. 13<sup>th</sup> Annual alternative crop options after failed cotton in the Texas South Plains/Late season planting guide. 2015-SCS-02. Dept. Soil & Crop Sciences, Texas A&M Univ.

3. Darapuneni, M.K., G. Morgan, A. Ibrahim, R. Duncan, B. Bean, T. Baughman, C. Trostle, L. Tarpley, R. Sutton, J. Grichar, B. Wiedenfeld. 2014. The evaluation of cool-season oilseed crops for yield and adaptation in Texas: an approach for selection of efficient biofuel feedstock. *Ind. J. Agronomy Agric. Res.* 5:62-74.
4. Neely, C., C. Trostle, M. Welch. 2014. Wheat freeze injury in Texas. ESC-026. Texas A&M AgriLife Extension Service, College Station, TX.
5. DeLaune, P., C. Trostle. 2012. Nitrates in irrigation water: An asset for crop production. Texas A&M AgriLife Extension Service, College Station, TX. E-619.
6. Grichar, J., P. Dotray, C. Trostle. 2012. Castor (*Ricinus communis* L.) tolerance to post-emergence herbicides and weed control efficacy. *Int. J. Agronomy*. DOI:10.1155/2012/832749.
7. Trostle, C., K. Siders. 2012. Suggestions for Small-Acreage Alfalfa Producers, West Texas. Texas A&M AgriLife Extension Service, College Station, TX. E-598.
8. Scasta, J.D, C.L. Trostle, M. Foster. 2012. Evaluating alfalfa (*Medicago sativa* L.) cultivars for salt tolerance using laboratory, greenhouse and field methods. *J. Agric. Sci.* 4:90-103.
9. Marsalis, M., L.M. Lauriault, C.L. Trostle. 2012. Millets for forage and grain in New Mexico and West Texas. Guide A-417. New Mexico St. Univ. Coop. Extension, Las Cruces, NM.
10. Nansen, C., C. Trostle, S. Angadi, P. Porter, X. Martini. 2012. Abiotic factors affecting canola establishment and insect pest dynamics. *Intl. J. Agron.* DOI: 10.1155/2012/838903

#### **Awards and Honors**

- 2006, 2002, Editor's citation for excellence in manuscript review, Soil Science Society of America Journal.

#### **Professional Experience**

- Advised/co-advised 5 M.S. students.
- Authored/co-authored 17 peer-reviewed journal articles, 13 extension publications, over 90 scientific abstracts/presentations.
- Acquired >\$1.9 million of which >\$600,000 went to my program.
- Editor, *Agronomy Journal*, 2013-2015.
- Vice-chair & Chair, Semi-arid dryland cropping systems community, American Soc. Agronomy, 2012-2013.
- Member, germplasm committee (2014-) & research committee, (2010-), National Sunflower Association.