

CURRICULUM VITAE

David R. Drake
Assistant Professor/Extension Agronomy Specialist
Department of Soil and Crop Sciences
Texas A&M University

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EDUCATION

- 2003 **Doctor of Philosophy**
Major: Plant Breeding and Genetics
Wheat and Oat Breeding for Disease and Insect Resistance
Department of Agronomy
Purdue University, West Lafayette, Indiana
- 1997 **Master of Science**
Major: Plant Breeding and Genetics
Wheat and Oat Breeding for Disease and Insect Resistance
Department of Agronomy
Purdue University, West Lafayette, Indiana
- 1995 **Bachelor of Science**
Major: Plant Science
Minors: Chemistry and Portuguese
Department of Plants, Soils, and Biometeorology
Utah State University, Logan, Utah

PROFESSIONAL EXPERIENCE

- 2009-present **Assistant Professor/Extension Agronomy Specialist**
Department of Soil and Crop Sciences, Texas A&M University, San Angelo, Texas
- 2005-2009 **Extension Assistant Professor, Diversified Crops Specialist, and Sevier County Director**, Utah State University Extension, Richfield, Utah
- 2001-2005 **Extension Assistant Professor and Sevier County Director**, Utah State University Extension, Richfield, Utah
- 1995-2001 **Research Assistant**, Small Grains Breeding Program,
Department of Agronomy, Purdue University, West Lafayette, Indiana
Major Advisor: Dr. H.W. Ohm

1993-1995 **Research Technician**, Grass and Alfalfa Breeding Program,
Forage and Range Research Lab, USDA-Agriculture Research Service,
Logan, Utah Major Advisor: Dr. K.H. Asay

Recent Scholarship

Peer Reviewed and Numbered Extension Publications

- Drake, D.R.**, Easterling, B.R., Thompson, W. et. al. (2016). Agronomic Cotton Variety Trials, The Southern Rolling Plains and Permian Basin of Texas – 2015. [Departmental Publication] SCS-2016-10. Texas A&M AgriLife Extension, College Station, TX
- Drake, D.R.**, Easterling, B.R., Palmer, M. et. al. (2016). Wheat and Small Grains Variety and Agronomy Trials, The Southern Rolling Plains and Permian Basin of Texas – 2015-16. [Departmental Publication] SCS-2016-24. Texas A&M AgriLife Extension, College Station, TX
- Neely, C., Hathcoat, D., **Drake, D.R.** et. al. (2016). 2016 Texas Wheat Uniform Variety Trials (Statewide). [Departmental Publication] SCS-2016-22. Texas A&M AgriLife Extension, College Station, TX
- Neely, C. Hathcoat, D., **Drake, D.R.**, et. al. (2016). 2016 Forage Variety Results Texas Cool-Season Forage Variety Trials (Statewide). [Departmental Publication] SCS-2016-23. Texas A&M AgriLife Extension, College Station, TX
- Kimura, E., Bell, J., Trostle, C., Neely, C., and **Drake, D.R.** (2016). Potential causes of yellowing during the tillering stages of wheat in Texas. [Extension Publication] ESC-040. Texas A&M AgriLife Extension, College Station, TX

Peer Reviewed Publications

- Drake, D.R.** (in revision – Returned from reviewers for revision July 2016) First Reported Control of Phymatotrichopsis Root Rot in alfalfa with the fungicide Flutriafol. Plant Disease
- Drake, D.R.**, Wendal, D.J., Beck, B.R., Peterson, S.J., Palmer, M.D., Frame, D.D., & Tripp, A.C. (2008). Farm fuel frontiers - Opportunities and challenges of growing and refining on-farm fuel in Utah. *The Journal of the Utah Academy of Sciences, Arts, and Letters*, 85, 235-246.
- Drake, D.R.**, Wendal, D.J., Beck, B.R., Peterson, S.J., Palmer, M.D., Larsen, A.N., Sorensen, K.N., & Tripp, A.C. (2007). The Central Utah Biodiesel Project, first year and a half and counting. *The Journal of the Utah Academy of Sciences, Arts, and Letters*, 84, 121-129.

Abstracts and Proceedings

- Drake, D.R.** (2017) Evaluation of Salinity Management Products and Practices in West Texas Irrigated Cotton – 2016 Results [Poster Presentation & Proceedings]. Beltwide Cotton Conference, Dallas, TX Jan 2017
- Thompson, W.J. and **Drake, D.R.** (2017) Texas' Extra Long Staple (ELS) Cotton Acreage Response. [Poster Presentation & Proceedings]. Beltwide Cotton Conference, Dallas, TX Jan 2017
- Drake, D.R.** (2016) Evaluation of Salinity Management Products in West Texas Irrigated Cotton Production. [Poster Presentation & Proceedings]. Beltwide Cotton Conference, New Orleans, LA Jan 2016
- Drake, D.R.**, Neely, C, Ibrahim, A., Rudd, J., Sutton, R., Duncan, R., Hathcoat, D., Simoneux, S., Baker, J., and French, R. (2016) Response of Hard Red Winter Wheat Varieties with Varying Levels of Disease Resistance to Foliar Fungicide Applications in Multiple Year

and Location Trials in Texas. [Abstract & Poster] Edgar S. McFadden Symposium San Antonio, TX Apr. 17-20, 2016

Drake, D.R. (2016) STEM Involvement of High School Students Enrolled in a STEM Curriculum with Cotton Agronomic Education [Abstract & Poster]. American Soc. of Agronomy Int. Mtgs. Phoenix, AZ Nov 2016

Drake, D.R. (2016) Effects on Soil Salinity of a Dryland Winter Wheat or Cotton Rotation in Irrigated Texas Cotton [Abstract & Poster]. American Soc. of Agronomy Int. Mtgs. Phoenix, AZ Nov 2016

Citations in Popular Press

Hawkins, C. (2016, Jan. 13) Cotton still king in Runnels County. The Winters Enterprise/Ballinger Ledger. <http://www.wintersenterprise.com>

Dormel, J. (2016, Feb. 19) Low prices, aphid weigh on plant decisions. Texas Agriculture Vol. 31 No. 13 pp14-15. Texas Farm Bureau

Hawkins, C. (2016, June 9) Runnels county farmers rush to harvest wheat, plant cotton. The Winters Enterprise/Ballinger Ledger. <http://www.Ballingerledger.com>

Byrns, S. (2016, Sept. 9) Hessian Fly Threat Looms Over South, West Central Texas Wheat Crop AgriLifeToday

Knutson, A., **Drake, D.**, and Byrns, S. (2016, Oct 4) Hessian Fly Threat Looms Over South, West Central Texas Wheat Crop. PMN News. <http://www.plantmanagementnetwork.org>

Hawkins, C. (2016, Dec 14) Cotton harvest delayed, crop is good so far. The Winters Enterprise/Ballinger Ledger. <http://www.Ballingerledger.com>

Newsletters

Drake, D.R. (2016, Oct.) Cotton Harvest Aids [Newsletter] Texas A&M AgriLife Extension, San Angelo, TX.

Editor Reviewed Books and Publications

Trostle, C., Bean, B., Nicholas, K., Isakeit, T., Porter, P., Parker, R., **Drake, D.**, and Baughman, T. (2010). West Texas (grain sorghum) production guide. United Sorghum Checkoff Program. Lubbock , TX.

Computer Programs/Mobile Device Applications

Thompson, W.J. and **Drake, D.R.** (2014) Cotton Root Rot Return to Treatment Calculator. Both Apple and Google platforms.

Publication Summary

| Type | Career Total |
|--|--------------|
| Peer Reviewed and Numbered Extension Publications | 32 |
| Refereed/Peer Reviewed Articles | 2 |
| Editor Reviewed Abstracts | 13 |
| Published Proceedings | 16 |
| Scientific Abstracts | 36 |
| Books | 1 |
| Chapters in Books | 2 |
| Thesis and Dissertation | 2 |
| Newsletters | 55 |
| Popular/Industry Articles | 37 |
| Newspaper Articles Authored | 117 |
| Radio/TV | 18 |
| Computer Programs/Mobile Device Applications | 1 |
| Co. Agent Subject Matter Resource Manuals | 3 |
| Translations of Extension Documents (Portuguese) | 2 |
| High School & Undergraduate Student Research Result Posters | 7 |

Summary of Agronomic Extension Activities, Contacts, and CEU's

| 2009-Present | Number Sessions | Educational Contracts | Pesticide Applicator CEU's |
|---|-----------------|-----------------------|----------------------------|
| Presenter at Extension Educational Sessions | 196 | 9980 | 140 |
| Field Days and Turn Row Sessions | 78 | 936 | 52 |
| Applied Research and Demonstration Agronomy Trials | 287 | 1435 | - |

Grants and Contracts Awarded

| Type and Role | Career | |
|--------------------------------|--------------------------|-----------------------------------|
| | Total dollars to all PIs | Dollars allocated to your program |
| PI | \$210,840 | \$113,500 |
| Co-PI | \$70,282 | \$48,602 |
| Total (PI + Co-PI) | \$281,122 | \$162,102 |
| PI | \$19,712 | \$19,712 |
| Co-PI | \$11,400 | \$11,400 |
| Total (PI + Co-PI) | \$331,112 | \$61,112 |
| Gifts and Gifts-in-Kind | \$279,599 | \$279,599 |
| Total | \$891,833 | \$502,813 |

Recent Grants

- Drake, D.R.**, Webb, J., and Thompson, W. (2016) Developing Best Management Practices for Cotton Production in the Rolling Plains. Cotton Inc.State Support \$18,913 funded for 2017. PI
- Yang, C, Thomasson, A, Odvody, G, Isakeit, T, and **Drake, D.** (2016) Site-Specific Fungicide Application Based on Aerial Imagery for Effective Management of Cotton Root Rot. Cotton Inc. Funded \$45,000 requested for 2017. Co-PI
- Xu, W., Marek, T., Wallace, R., Whitney, T.R., Redden, R., Dong, X., Brooks, J.C., Odvody, G., Bell, J., and **Drake, D.R.**, A Sustainable Systems Approach To Improving Sweet Corn Production and Potential Secondary Use As A High Value Feed For Small Ruminant Production in the Southern States. \$1,352,219 Requested Drake Portion \$56,492. USDA-AFRI Specialty Crop Research Initiative Grant. In Review
- Drake, D.R.**, Easterling B., Thompson, W. (2016) Salinity Management in Irrigated Cotton Production in the Permian Basin, TransPecos, and Rolling Plains. Cotton Inc. \$15,250 not funded for 2017. PI

Teaching

Advising Undergraduate Students in Summer Internships

- 2009-2016 7 students
- 2006-2009 4 students

Graduate Student Committee Involvement

- Committee member – M.S. student, Angelo State University, San Angelo, TX 2014-2015

- Committee member – Ph.D. student, Utah State University, Logan, Utah 2007-2009

Courses Taught

- AGRY 321 (lab), Genetics, Department of Agronomy, Purdue University, West Lafayette, Indiana . 1998
- PLSC 555 (lab), Weed Science, Department of Plants, Soils, and Biometeorology, Utah State University, Logan, Utah. 1995

Service

Professional Service

- Texas Extension Specialists Association 2009-present
 - District 7 Representative 2014-2016
- American Society of Agronomy 2000-present
 - Award committee member 2016
- Crop Science Society of America 2000-present
- Epsilon Sigma Phi, The Fraternity of Extension Professionals 2002-present
- National Association of County Agricultural Agents and Extension 4-H Agents 2002-2009

University Service

- Extension Program Specialist Promotion Review Committee Member 2014
- San Angelo and Pecos Research and Extension Center Field Day Committees. 2009-Present
- Co-chair, Utah State University Extension Energy Committee 2005-2009
- Co-chair, Utah State University State and Regional Agricultural Inservice Committee 2001-2009
- Advisor, Purdue Chapter of Alpha Zeta, The National Honorary Professional Agriculture Fraternity 1995-2001

State and Local

- Member, Committee Member, and Board Member Farm Bureau 2001-2009
- Member, Ex-Officio Member, and Advisor to Farm Service, Soil Conservation, 4-H Advisory, and County Fair Committees 2001-2009

Community Service

- Chartering Organization Representative, Units 614 and 59 Boy Scouts of America 2009-2016
- Assistant Scoutmaster 2007-2009, Venturer Scout Leader 2001-2002 - Unit 623, Boy Scouts of America

- President, Annabella Irrigation Canal Company 2007-2009
- Board of Directors, Annabella Irrigation Canal and Otter Creek Reservoir Company 2005-2009
- Executive Secretary, Annabella 1st Ward, Church of Jesus Christ of Latter-day Saints 2002-2006

Awards and Honors for Service

- Superior Service Extension Team Award (2014). Cotton Replicated Variety Trial Team. Texas A&M AgriLife Extension
- Superior Service Extension Team Award (2013). Cotton Root Rot Team. Texas A&M AgriLife Extension
- Member of Wheat Team (2013) Texas A&M AgriLife Research Team Award.
- Member of “Texas Cotton Root Rot Team” (nominated 2010, not awarded) for 2011 Friends of Southern IPM-Bright Idea Award. Southern Region IPM Center. Raleigh, NC. Nominated for a team effort on finding a control agent and exploring application methods for a devastating disease of cotton. 1 of 1 awarded annually in the Southern U.S.
- State Early Career Award, Iota Chapter, Epsilon Sigma Phi (2007) Awarded to outstanding extension employee with less than 7 years of employment. 1 of 1 awarded annually in the State of Utah
- Award of Merit in Increasing Access to Higher Education, Utah System of Higher Education (2005). Awarded for conducting online extension programming to remote rural areas of the state. 1 of 3 awarded annually in the State of Utah
- Gold and Silver Awards, Utah Agriculture Statistics Service 2003-2004
- State Finalist, Young Farmer & Rancher Excellence in Agriculture Award, Utah Farm Bureau Federation 2002
- Eagle Scout, Boy Scouts of America 1982

International Activity

- Wheat Grazing Management Extension Training, hosted in Texas and via internet technology in Afghanistan. Aug and Oct 2016
- Host Brazilian Cotton Producer, Texas, Aug. 2014
- Agronomic Advisor for Cotton Root Rot Control in Chihuahua, Mexico April 2012
- Sesame Production and Seed Multiplication Extension Trainings in Mozambique, Africa. November 2011
- Regional Hybrid Sorghum and Millet Seed Workshop in Niamey, Niger, West Africa 1998
- Missionary, Church of Jesus Christ of Latter-day Saints. Recife, Brazil 1988-1990