

# CURRICULUM VITAE

December 2015

**Qingwu Xue, Ph.D.**

Associate Professor, Texas A&M AgriLife Research at Amarillo

Associate Professor, Department of Soil and Crop Science, Texas A&M University

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## **EDUCATION**

Ph.D. University of Nebraska, 2000, Agronomy (Agricultural Meteorology)

*Dissertation: Phenolgy and Gas Exchange in Winter Wheat. Advisor: Albert Weiss*

M.S. West Texas A&M University, 1995, Agriculture

*Thesis: Physiological Responses of Wheat Genotypes to Water Stress in a Growth Chamber Experiment. Advisors: B. A. Stewart & M. D. Lazar.*

M.S. The Chinese Academy of Sciences, 1988, Plant Eco-physiology

*Thesis: Effects of Nitrogen Nutrition on Water Relations and Photosynthesis in Wheat under Soil Drought. Advisor: Peiyuan Chen.*

B.S. Shaanxi Normal University, 1985, Biology

## **POSITION DESCRIPTION**

### **Research – 90% Effort**

**Crop Physiology** - Develop a competitive and extramurally funded research program in the area of crop water use, water use efficiency, and abiotic and biotic stress resistance in major field crops in the Texas High Plains. The overall goal of my research program is to provide selection tools for breeders and geneticists and management tools for agronomists and producers, through better understanding the physiological mechanisms of crop performance under stress conditions. The major research focuses include understanding physiological and molecular mechanisms of drought tolerance, identifying plant traits conferring to stress tolerance, understanding the interactions of abiotic and biotic stresses, evaluating and developing field phenotyping tools, and developing management strategies under stress conditions. Advise graduate student research.

**Agronomy** – Due to the absence of extension agronomist, I managed agronomy research program in 2012 and 2013 cropping seasons. The goal of agronomy research is to provide unbiased field management information to producers in Texas High Plains & beyond. The research activities include evaluation of new varieties and hybrids (wheat, grain sorghum, forage sorghum, energy sorghum and corn), investigation of water and N use efficiency in grain sorghum and cotton under various soil water regimes, and evaluation of new herbicides, fungicides and PGRs for improving crop yields and grain quality in major crops (corn, wheat sorghum and cotton).

### **Teaching –5% Effort**

My teaching efforts include student and professional training, extension education and guest lecturing.

### **Service –5% Effort**

Serve on committees in AgriLife Research and department as requested. Serve on committees in professional societies. Interact with and make presentations to students, producers and industry stakeholders. Serve as a manuscript reviewer for scientific journals.

### **EXPERIENCE**

**Dec. 2009-present, Assistant Professor, Crop Stress Physiology, 100% research,** Texas A&M AgriLife Research-Amarillo, 6500 Amarillo Blvd W, Amarillo TX 79106.

**Oct. 2008-Nov. 2009, Research Scientist, Agronomy, 100% Research,** North Dakota State University/USDA-ARS, P. O. Box 459, Mandan, ND 58554.

**Aug. 2002-Oct. 2008, Research Associate,** Northwestern Agricultural Research Center, Montana State University, 4570 Montana 35, Kalispell, MT 59901.

**Feb. 2000-Jul. 2002, Postdoctoral Research Scientist,** Northwestern Agricultural Research Center, Montana State University, 4570 Montana 35, Kalispell MT 59901.

**Jan. 1996-Jan. 2000, Graduate Research Assistant,** School of Natural Resources Sciences, University of Nebraska, Lincoln, NE 68583.

**Jan. 1994- Dec. 1995, Graduate Research Assistant,** Dryland Agriculture Institute, West Texas A&M University, Canyon, TX, 79016; Texas A&M Agriculture Experiment Station, Amarillo/Bushland, TX 79106.

**Jul. 1992-Jan. 1994, Visiting Scientist,** USDA-ARS, Conservation & Production Research Laboratory, Bushland, TX, 79012.

**Jul. 1988-Jul. 1992, Research Assistant Professor,** National Laboratory of Soil Erosion & Dryland Farming on Loess Plateau, Institute of Soil & Water Conservation, The Chinese Academy of Sciences, Yangling, Shaanxi, 712100, PRC.

### **TEACHING (Students/professional Training)**

#### **Post-doctoral Research Scientists (2):**

Dr. Baozhen Hao, May 2012- Sep. 2015

Dr. Gautam Pradhan, Aug. 2012-Mar. 2014 (Research Agronomist, North Dakota State University).

#### **Visiting Scientists (4):**

Dr. Yinghua Zhang, Associate Prof., China Agriculture University, Mar. 2011- Mar. 2012.

Dr. Hongda Wen, Prof., Hebei Agricultural University, China, Aug. 2012-Feb. 2013.

Dr. Yuanquan Chen, Associate Prof., China Agriculture University, May 2013-May 2014.

Mr. Bin Wang, China Agriculture University, Oct. 2014-Sep. 2015.

#### **Graduate Committee Co-Chair (4):**

Ms. Xiaobo (Michelle) Hou, MS student, West Texas A&M University (WTAMU), Jan. 2011 – May 2013.

Ms. Sarah Ajayi, MS student, WTAMU, Jan. 2012- Dec. 2013.

Ms. Sarah Ajayi, Ph.D. student, Texas A&M University (TAMU), Jan. 2014 -

Mr. Mahendra Bhandari, MS student, WTAMU (in application process for Aug. 2014).

**Graduate Committee Member (11):**

Mr. Chongyuan Zhang, MS, WTAMU, Jan. 2010-Dec. 2012.  
Mr. Yella Sanjeev Reddy, MS, WTAMU, Jan. 2011- May 2013.  
Mr. Jacob Becker, MS, WTAMU, Jan. 2011-May 2013.  
Mr. Smit Dhakal, MS, WTAMU, Sep. 2012- May 2014.  
Ms. Angela Simmons, MS, WTAMU, Sep. 2013- May 2015.  
Ms. Timber Barkley, MS, WTAMU, Sep. 2012 -  
Mr. Ahmed Attia, Ph.D., TAMU, Sep. 2012 – Dec. 2014  
Mr. Silvano Assanga Ocheya, Ph.D., TAMU, Sep. 2012 –  
Mr. Sushil Thapa, Ph.D., WTAMU, Jan. 2013-  
Ms. Yan Yang, Ph.D. student, TAMU, September 2014-present.  
Mr. Pramod Pokhrel, MS student, WTAMU, September 2014 – present.

**Graduated Graduate students (8):**

**Co-chaired (2):** Xiaobo Hou, MS, May 2013, Res. Assistant, Texas A&M AgriLife Research; Sarah Ajayi, MS, Dec. 2013, Ph.D. student, TAMU.

**Committed (6):** Chongyuan Zhang, MS, Dec. 2012, Ph.D. student, Washington State University; Yella Sanjeev Reddy, MS, May 2013, Res. Associate, Richardson Seeds Co., Vega, TX; Jacob Becker, MS, May 2013, Agronomy Manager, NextSteppe Seeds, Herford, TX; Smit Dhakal, MS, May 2014, Ph.D. student, TAMU; Angela Simmons, MS, May 2015; Ahmed Attia, Ph.D. TAMU, Dec. 2014.

**Other student training activities (2):**

Dr. David Verbree was conducting his Ph.D. research in my program from 2010 to 2012. I provided technical and financial support. He currently is an assistant professor at University of Tennessee.

**Undergraduate student workers supervised (14):**

Mr. Dallie Thomas, Jordan Hicks, Travis Brown, Conner Brown, Preston Sirmon, Tyler (Chance) Reynolds, Brad Parker, Bronc Finch, Kyle Reinart, WTAMU; Ms. Janae Noggler, Korrie Britten, WTAMU; Ms. Isabella Porras, Amarillo College; Mr. Cole Pope, Mr. Chorcy Reynolds, Amarillo College.

**Seminars and guest lectures to graduate students:**

**March 5, 2014** – Presented “Improve Crop Yields and Water Use Efficiency in the Southern Great Plains” in TAMU Department of Soil and Crop Sciences Seminar Series, College Station, TX.

**February 18-19, 2014** – Presented “Phenotyping Drought Tolerance and WUE in Wheat Using Remote Sensing Tools” in Departments of Agronomy and Agricultural Meteorology, China Agricultural University, Beijing, China.

**November 5, 2012** – Guest lecture on “Improve Crop Yields and Water Use Efficiency in the Southern Great Plains” in graduate class (Plant-Soil-Water Relations), Department of Agricultural Science, WTAMU, Canyon, TX.

**November 2-3, 2011** – Presented “Agricultural research in Texas AgriLife Research and Extension at Amarillo, TX”, “Improving Crop Yields and WUE in the US Southern Great Plains”, “Deficit Irrigation in Wheat and Corn – Physiological Mechanisms”, and “Writing Scientific Manuscripts – Experience as an Author and a Reviewer” in a seminar series, State Key Laboratory of Soil Erosion and Dryland Farming on Loess Plateau, Institute of Soil & Water Conservation, The Chinese Academy of Sciences, Yangling, China.

**April 16, 2010** – Presented “Improving Drought Resistance & Water Use Efficiency in Wheat: Texas High Plains” in Plant Breeding Circle, Department of Soils and Crop Science, Texas A&M University, College Station, TX.

**October 16, 2006** – Presented “Seeding Rate and Seed Size Effects on Spring Wheat and Wild Oat Competition: Ecological and Economic analysis” in College of Life Sciences, Shaanxi Normal University, Xian, China.

**April 2001** – Presented “Phenology and Gas Exchange in Winter Wheat. National Laboratory of Soil Erosion & Dryland Farming on Loess Plateau, Institute of Soil & Water Conservation, The Chinese Academy of Sciences, Yangling, Shaanxi, China.

## **GRANTS AND CONTRACTS AWARDED**

I have written and assisted in the development of many successful proposals and contracts from various agencies and sources in the research areas of interest. Since 2010, these proposals and contracts have garnered nearly **\$9.9 million**, of which **\$1.052 million** went to my research programs (Crop Physiology and Agronomy).

## **HONORS AND AWARDS**

**Dean’s Outstanding Achievement Award – Interdisciplinary Research Team, TAM Wheat Improvement Team, College of Agriculture and Life Sciences, Texas A&M University, September 2015.**

**The Blue Legacy Award in Agriculture, The Texas Water Conservation Advisory Council, November 2012.**

**Science and Technology Progress Award, Shaanxi Province, March 2004.**

**Widaman Trust Distinguished Graduate Assistant Award, University of Nebraska-Lincoln, September 1998.**

**Second Prize Award, First Student Research Conference, West Texas A&M University, 1994.**

**Excellent Publication Award, Xian Branch, The Chinese Academy of Sciences, 1992.**

**Excellent Publication Award, Shaanxi Society of Botany, 1990.**

## **MEMBERSHIPS**

American Society of Agronomy

Crop Science Society of America

Soil Science Society of America

Association of Chinese Soil & Plant Scientists in North America

Western Crop Science Society of America

Western Society of Weed Science

Alpha Zeta, Agricultural Honor Society

## **PUBLICATIONS**

[Underlined names are post-doctoral scientists, visiting scientists, and research staff under Xue’s supervision; underlined italic names are graduate students co-chaired and committed by Xue]

### **Referred Journal Articles (60-career; 30-since joined AgriLife Research)**

1. Attia, A., N. Rajan, G. Ritchie, E. Barnes, S. Cui, A. Ibrahim, D. Hays, **Q. Xue**, and J. Wilborn. 2015. Cotton yield, fiber quality, water use efficiency, and spectral reflectance responses to irrigation and tillage management in the Texas Rolling Plains. *Agronomy Journal* 107: 1355-1364.

2. Attia, A., N. Rajan, **Q. Xue**, A. Ibrahim, D. Hays. 2015 Application of DSSAT-CERES-Wheat model to simulate winter wheat response to irrigation management in the Texas High. *Agricultural Water management* (in press).
3. Hao, B. **Q. Xue**, T. H. Marek, K. E. Jessup, J. Becker, X. Hou, W. Xu, E. D. Bynum, and B. W. Bean, P. D. Colaizzi, and T. A. Howell 2015. Water use and grain yield in drought-tolerant corn in the Texas High Plains. *Agronomy Journal* 107: 1922-1930.
4. Hao, B. **Q. Xue**, T. H. Marek, K. E. Jessup, X. Hou, W. Xu, E. D. Bynum, and B. W. Bean. 2015. Soil water extraction, water use and grain yield in drought-tolerant maize in the Texas High Plains. *Agricultural Water management* 155: 11-21.
5. Hao, B. **Q. Xue**, T. H. Marek, K. E. Jessup, X. Hou, W. Xu, E. D. Bynum, and B. W. Bean. 2015. Radiation use efficiency, biomass production, and grain yield in two maize hybrids differing in drought tolerance. *Journal of Agronomy and Crop Science* (in press).
6. Pradhan, G. P., **Q. Xue**, K. E. Jessup, B. Hao, J. A. Price, and C. M. Rush. 2015. Physiological Responses of Hard Red Winter Wheat to Infection by *Wheat streak mosaic virus*. *Phytopathology*. 105: 621-627.
7. Zhang, J., P. An, Z. Pan, B. Hao, L. Wang, Z. Dong, X. Pan, and **Q. Xue**. 2015. Adaptation to a warming-drying trend through cropping system adjustment over three decades: A case study in the northern agro-pastoral ecotone of China. *Journal of Meteorological Research*. 29: 496-514.
8. Liu, S.Y., S. Ocheya, S. Dhakal, X. Gu, C.-T. Tan, Y. Yang J.C. Rudd, D.B. Hays, A.M. Ibrahim, **Q. Xue**, S. Chao, R. Devkota, C. Shachter, T. Huggins, S. Mohammed, M.P. Fuentealba. 2015. Validation of chromosomal locations of 90K array SNP in US wheat. *Crop Science* (In Press). doi: 10.2135/cropsci2015.03.0194.
9. Pradhan, G., **Q. Xue**, S. Liu, J. C. Rudd, K. E. Jessup, and J. R. Mahan. 2014. Cooler canopy temperature contributed to higher yield in new drought tolerant cultivars. *Crop Sci*. 54: 2275-2284.
10. Reddy, S. K., S. Liu, J. C. Rudd, **Q. Xue**, P. Payton, S. A. Finlayson, J. Mahan, A. Akhunova, S. V. Holalu, and N. Lu. 2014. Physiology and transcriptomics of water-deficit stress responses in wheat cultivars TAM 111 and TAM 112. *J. Plant Physiol*. 171: 1289-1298.
11. Liu, S., J. C. Rudd, G. Bai, S. Haley, A. M. H. Ibrahim, **Q. Xue**, D. B. Hays, R. A. Graybosch, R.N. Devkota, and P. St. Amand. 2014. Molecular markers linked to genes important for hard winter wheat production and marketing in the U.S. Great Plains. *Crop Sci*. 54: 1304-1321.
12. Hao, B., **Q. Xue**, Y. H. Zhang, B. A. Stewart, and Z. M. Wang. 2014. Deficit irrigation in winter wheat- U.S. Southern High Plains and North China Plain. *J. Arid Land Studies* 24-1: 129-132.
13. Pradhan, G., **Q. Xue**, S. Liu, J. C. Rudd, and K. E. Jessup. 2014. Effective use of soil water contributed to high yield in wheat in the U.S. Southern High Plains. *J. Arid Land Studies* 24-1: 153-156.
14. **Xue, Q.**, J. C. Rudd, S. Liu, K. E. Jessup, R. N. Devkota, and J. R. Mahan. 2014. Yield determination and water use efficiency of wheat under water-limited conditions in the US Southern High Plains. *Crop Sci*. 54: 34-47.
15. Hao, B., **Q. Xue**, B. Bean, W. L. Rooney, J. Becker. 2014. Biomass production, water and nitrogen use efficiency in photoperiod-sensitive sorghum in the Texas High Plains Biomass and Bioenergy. *Biomass and Bioenergy*. 62: 108-116.
16. Mu, L., Y. Liang, **Q. Xue**, C. Chen, and X. Lin. 2014. Using the DNDC model to compare

- soil organic carbon dynamics under different crop rotation and fertilizer strategies. *Spanish J. Agric. Res.* 12: 265-276.
17. Lu, H., K. E. Jessup, **Q. Xue**, and R. H. Cherry. 2013. Morphological and physiological responses of St. Augustinegrass cultivars to different levels of soil moisture. *J. Crop Improvement.* 27: 291-308.
  18. Wang, B., W. Liu, **Q. Xue**, T. Dang, C. Gao, J. Chen, and B. Zhang. 2013. Soil water cycle and crop water use efficiency after long-term nitrogen fertilization in Loess Plateau. *Plant Soil Environ.* 59: 1-7.
  19. Zhang, Y. P., Y. H. Zhang, **Q. Xue**, and Z. M. Wang. 2013. Remobilization of water soluble carbohydrates in non-leaf organs and contribution to grain yield in winter wheat under reduced irrigation. *International J. Plant Production.* 7: 97-116.
  20. Zhang, Y. H., N. Sun, J. Hong, Q. Zhang, C. Wang, **Q. Xue**, S. Zhou, Q. Huang, and Z. Wang. 2013. Effect of source-sink manipulation on photosynthetic characteristics of flag leaf and the remobilization of dry mass and nitrogen in vegetative organs of wheat. *J. Integrative Agriculture.* Doi:10.1016/S2095-3119(13)60665-6.
  21. Zhang, W. H., W. Z. Liu, **Q. Xue**, J. Chen, and X. Y. Han. 2013. Evaluation of the AquaCrop model for simulating yield response of winter wheat to water on the southern Loess Plateau of China. *Water Science & Technology.* 68: 821-828.
  22. Schmer, M. R., **Q. Xue**, J. R. Hendrickson. 2012. Salinity effects on perennial, warm-season (C<sub>4</sub>) grass germination adapted to the northern Great Plains. *Canadian J. Plant Sci.* 92: 873-881.
  23. Zhang, Y. H., S. L. Zhou, Q. Huang, G. H. Leng, **Q. Xue**, B. A. Stewart, and Z. M. Wang. 2012. Effects of sucrose and ammonium nitrate on phosphoenolpyruvate carboxylase and ribulose-1, 5-bisphosphate carboxylase activities in wheat ears. *Australian J. Crop Sci.* 6: 822-827.
  24. Zhang, Y. H., Y. P. Zhang, N. Niu, D. Su, **Q. Xue**, B. A. Stewart, and Z. M. Wang. 2012. Effect of source–sink manipulation on accumulation of micronutrients and protein in wheat grains. *J. Plant Nutr. Soil Sci.* 175: 622–629.
  25. **Xue, Q.**, B. A. Stewart, M. D. Lazar, G. Piccinni, and C. D. Salisbury. 2012. Genotypic variation in osmotic adjustment and transpiration efficiency among closely-related wheat lines. *J. Crop Improvement.* 26:258–281.
  26. **Xue, Q.**, P. E. Nyren, G. Wang, E. Eriksmoen, G. Bradbury, M. Halverson, E. Aberle, K. Nichols and M. Liebig. 2011. Biomass composition of perennial grasses for biofuel production in North Dakota. *Biofuels* 2: 515-528.
  27. **Xue, Q.**, A. Weiss, P. S. Baenziger, and D. R. Shelton. 2011. Seeding rate and genotype affect yield and end-use quality in winter wheat. *J. Agro. Crop Sci.* 2: 18-25.
  28. Blake, N. K., R. N. Stougaard, D.K. Weaver, J.D. Sherman, S.P. Lanning, Y. Naruoka, **Q. Xue**, J.M. Martin and L.E. Talbert. 2011. Identification of quantitative trait loci for resistance to the orange wheat blossom midge in spring wheat. *Plant Breeding.* 130: 25-30.
  29. Buttrey, E. K., B. W. Bean, F. T. McCollum, III, R. E. Brandon, **Q. Xue**, and T. H. Marek. 2011. Yield, water use efficiency, and nutritive value of six warm-season perennial grasses in response to irrigation level. Online. *Forage and Grazinglands* doi:10.1094/FG-2011-1021-01-RS.
  30. Liang, Y. L., C. Chen, **Q. Xue**, X. J. Lin and Q. Peng. 2011. Long-term soil organic carbon and crop yield dynamics on cropland in hilly and gully areas of Loess Plateau. *J. Agron.* 10: 40-47.

31. Zhang, Z. S, X. R. Li, T. Wang, X. P. Wang, **Q. Xue**, and L. C. Liu. 2008. Distribution and seasonal dynamics of roots in a revegetated stand of *Artemisia ordosica* Kracsh. in the Tengger Desert (North China). *Arid Land Res. and Manage.* 22: 195-211.
32. **Xue, Q.** and R. N. Stougaard. 2006. Effects of spring wheat seed size and reduced rates of tralkoxydim on wild oat control, wheat yield and economic returns. *Weed Technol.* 20: 472-477.
33. Guillen-Portal, F. R., R. N. Stougaard, **Q. Xue**, and K. M. Eskridge. 2006. Compensatory mechanisms associated with the effect of spring wheat seed size on wild oat competition. *Crop Sci.* 46:935-945.
34. **Xue, Q.**, Z. Zhu, J. T. Musick, B. A. Stewart, and D. A. Dusek. 2006. Physiological mechanisms contributing to the increased water-use efficiency in winter wheat under deficit irrigation. *J. Plant Physiol.* 163: 154-164.
35. Zheng, S. X., Z. P. Shangguan, and **Q. Xue**. 2006. Changes of stomatal parameters of four typical species in the Loess Plateau of China over the last century. *Acta Agriculturae Scandinavica, Section B-Soil and Plant Science* 56: 284-291.
36. Zheng, S. X., Z. P. Shangguan, and **Q. Xue**. 2006. The delta C-13 changes in four plant species of the Loess Plateau over the last 70 years. *Acta Physiologiae Plantarum.* 28: 257-262.
37. Stougaard, R. N. and **Q. Xue**. 2005. Quality versus quantity: spring wheat seed size and seeding rate effects on *Avena fatua* interference, economic returns and economic thresholds. *Weed Res.* 45: 351-360.
38. Shangguan, Z. P., S. X. Zheng, L. M. Zhang, and **Q. Xue**. 2005. Effect of nitrogen fertilization on leaf chlorophyll fluorescence in field-grown winter wheat. *Agri. Sci. China.* 4: 15-20.
39. Stougaard, R. N. and **Q. Xue**. 2004. Spring wheat (*Triticum aestivum*) seed size and seeding rate effects on yield loss due to wild oat (*Avena fatua*) interference. *Weed Sci.* 52: 133-141.
40. **Xue, Q.**, A. Weiss, T. J. Arkebauer, and P. S. Baenziger. 2004. Influence of soil water status and atmospheric vapor pressure deficit on leaf gas exchange in field-grown winter wheat. *Environ. Exp. Bot.* 51: 167-179.
41. **Xue, Q.**, A. Weiss, and P. S. Baenziger. 2004. Predicting leaf appearance in field-grown winter wheat: evaluating linear and non-linear models. *Ecological Modelling* 175: 261-270.
42. **Xue, Q.**, A. Weiss, and P. S. Baenziger. 2004. Predicting phenological development in winter wheat. *Climate Res.* 25: 243-252.
43. Shangguan, Z. P., M. A. Shao, S. J. Ren, L. M. Zhang, and **Q. Xue**. 2004. Effect of nitrogen on root and shoot relations and gas exchange in winter wheat. *Botanical Bulletin of Academia Sinica.* 45: 49-54.
44. **Xue, Q.**, Z. Zhu, J. T. Musick, B. A. Stewart, and D. A. Dusek. 2003. Root growth and water uptake in winter wheat under deficit irrigation. *Plant and soil* 257: 151-161.
45. Streck, N. A., A. Weiss, **Q. Xue**, and P. S. Baenziger. 2003. Improving predictions of developmental stages in winter wheat: a modified Wang and Engel model. *Agric. For. Meteorol.* 115: 139-150.
46. Streck, N. A., A. Weiss, **Q. Xue**, and P. S. Baenziger. 2003. Incorporating a chronology response into the prediction of leaf appearance rate in winter wheat. *Ann. Bot.* 92: 181-190.
47. Shangguan, Z. P. and **Q. Xue**. 2003. Mechanisms of physiological regulation for improving dryland crop water use. *Agric. Sci. China.* 2: 957-963.

48. **Xue, Q.** and R. N. Stougaard. 2002. Spring wheat seeding seed size and seeding rate affect wild oat demographics. *Weed Sci.* 50: 312-320.
49. **Xue, Q.**, S. Madhavan, A. Weiss, T. J. Arkebauer, and P. S. Baenziger. 2002. Genotypic variation of gas exchange parameters and carbon isotope discrimination in winter wheat. *J. Plant Physiol.* 159: 891-898.
50. Zhang, S., L. Shan, and **Q. Xue.** 2000. Effects of nitrogen and phosphorus nutrition on water relations in wheat. *Acta Plant Nutrition and Fertilizer*, 6: 147-151.
51. Li, Y., Z. P. Shangguan, P. Chen, C. Zhang, **Q. Xue,** and Y. Liang. 1994. Mathematical model study on effects of nitrogen and soil moisture at planting on green leaf area after heading for wheat. *Acta Agric. Northwest Sinica* 3: 3-8.
52. Shangguan, Z. P., Y. Li, P. Chen, C. Zhang, **Q. Xue,** and Y. Liang. 1994. Mathematical model study on effects of nitrogen and soil moisture at planting on accumulation and translocation of assimilates in wheat. *Acta Agric. Northwest Sinica* 3: 63-68.
53. **Xue, Q.** and P. Chen. 1990. Effect of soil drought on stomatal response and photosynthesis in wheat. *Acta Bot. Northwestern China*, 11(suppl).
54. **Xue, Q.** and P. Chen. 1990. Effects of nitrogen nutrition on water status and photosynthesis in wheat under soil drought. *Acta Phytophysiolgia Sinica*, 16(1): 49-56.
55. **Xue, Q.** and P. Chen. 1990. Effects of nitrogen nutrition level on photosynthesis of wheat under rapid water stress. *Acta Bot. Sinica*, 32(7): 533-537.
56. **Xue, Q.** and P. Chen. 1990. Effect of different types of drought stress on water relations and photosynthesis in wheat. *Acta Agric. Northern China*, 5(2): 26-32.
57. **Xue, Q.** and P. Chen. 1990. Effect of osmotic adjustment on diurnal changes of photosynthesis in wheat. *Acta Agric. Northern China*, 5(suppl): 38-43.
58. **Xue, Q.**, and Z. Shangguan. 1990. Photosynthesis and yield of dryland crops. *Shanxi Agric. Sci.* (11): 27-30.
59. **Xue, Q.**, and P. Chen. 1989. Effects of nitrogen nutrition on photosynthesis of flag leaf of wheat during grain filling under limited soil moisture. *Agric. Res. In Arid Areas* (3): 86-93.
60. **Xue, Q.**, and P. Chen. 1989. Effect of nitrogen nutrition on growth and water use in wheat. *Shaanxi Agric. Sci.* (5): 9-11.

### **Book chapters**

1. **Xue, Q.**, G. Wang, and P. E. Nyren. 2012. Biomass Production in Northern Great Plains of USA – Agronomic Perspective. In: Biomass / Book 2, Miodrag Darko Matovic (ed.), InTech, ISBN 980-953-307-506-3 (in review).
2. **Xue, Q.**, W. Liu and B. A. Stewart. 2012. Improving wheat yield and water use efficiency under semi-arid environment – The US Southern Great Plains and China’s Loess Plateau. In: R. Lal and B. A. Stewart (eds.), *Advances in Soil Science: Soil Water and Agronomic Productivity*. Taylor & Francis, 2012.
3. Zhang, S., L. Shan, and **Q. Xue.** 2001. Crop drought resistance and nutrition. In: S. Lou and X. Wang (eds.). *Physiological Basis of Crop Yield*. pp189-197. The Chinese Agriculture Press, Beijing (\*).
4. **Xue, Q.** 1998. Metabolic responses of crops to drought stress. In: L. Shan and P. Chen (eds.). *Ecophysiological Basis of Dryland Farming*. pp78-95. The Chinese Academic Press, Beijing (\*).
5. Xu, M., **Q. Xue,** and J. T. Musick. 1998. The study of yield and water relations in winter wheat under limited irrigation. In: L. Shan and P. Chen (eds.). *Ecophysiological Basis of*



Dryland Farming. pp174-188. The Chinese Academic Press, Beijing (\*).

(\*): Chinese; (\*\*): Chinese with English abstract.

## Abstracts

### 2015

1. Ajayi, S. O., **Q. Xue**, N. Rajan, A. M. H. Ibrahim, S. K. Reddy, J. C. Rudd, S. Liu, R. Sui, and K. E. Jessup. 2015. Evaluating physiological traits of winter wheat genotypes using remote sensing techniques. ASA-CSSA-SSSA, 2015 International Annual Meetings, November 15-18, 2015, Minneapolis, MN.
2. Ajayi, S. O., **Q. Xue**, N. Rajan, A. M. H. Ibrahim, S. K. Reddy, J. C. Rudd, S. Liu, R. Sui, and K. E. Jessup. 2015. Spectral vegetation indices for estimating growth of winter wheat genotypes. ASA-CSSA-SSSA, 2015 International Annual Meetings, November 15-18, 2015, Minneapolis, MN.
3. Ajayi, S. O., **Q. Xue**, N. Rajan, A. M. H. Ibrahim, S. K. Reddy, J. C. Rudd, S. Liu, R. Sui, and K. E. Jessup. 2015. Remote sensing techniques for assessing growth and performance of wheat genotypes: preliminary results. 2015 Texas Small Grain Workers Meeting, August 12, 2015, Amarillo TX.
4. Bhandari, M., S. Liu, Q. Xue, J. C. Rudd, and B. A. Stewart. 2015. Infrared Thermal Imaging Crop Canopies for Estimating Canopy Temperature. West Texas A&M University Student Research Conference, April 16, 2015, Canyon, TX. (**First Prize Winner in Poster Competition**)
5. Bhandari, M., S. Liu, **Q. Xue**, J. C. Rudd, and B. A. Stewart. 2015. Infrared thermal imaging for estimating crop canopy temperature. ASA-CSSA-SSSA, 2015 International Annual Meetings, November 15-18, 2015, Minneapolis, MN.
6. Dhakar, S., C.-T. Tan, S.Y. Liu, J.C. Rudd, **Q. Xue**, B. Blaser, R. Devkota, C.M. Rush, M.P. Fuentealba. 2015. Development of high throughput KASP SNP markers for wheat curl mite resistance and their application in marker-assisted breeding. **Texas A&M Breeding Symposium**. Feb. 19. College Station, TX. (**1<sup>st</sup> place in poster competition**).
7. Dhakar, S., J. C. Rudd, S. Liu, **Q. Xue**, R. N. Devkota, C. M. Rush, C. T. Tan, M. P. Fuentealba, and B. C. Blaser. 2015. Development of high throughput KASP SNP markers for wheat curl mite resistance and their application in marker-assisted breeding. ASA-CSSA-SSSA, 2015 International Annual Meetings, November 15-18, 2015, Minneapolis, MN.
8. Dhakar, S., R. N. Devkota, J. Baker, S. Baker, Y. Yang, **Q. Xue**, A. M. H. Ibrahim, S. Liu, and J. C. Rudd. 2015. QTL associated with yield in TAM 111 and TAM 112 and their interactions with environment. 2015 Texas Small Grain Workers Meeting, August 12, 2015, Amarillo TX.
9. Dong, X., B. Speer, Y. Zhang, D. Hathcoat, A. M. H. Ibrahim, C. B. Neely, **Q. Xue**, J. C. Rudd. 2015. Cultivar-irrigation interactions in shoot/root traits of 15 wheat varieties in Wintergarden region. ASA-CSSA-SSSA, 2015 International Annual Meetings, November 15-18, 2015, Minneapolis, MN.
10. Leskovar, D. I., Y. Othman, K. Crosby, X. Dong, **Q. Xue**, and T. H. Marek. 2015. Water relations, gas exchange, and yield of pepper cultivars under water deficit stress. American Society for Horticultural Science Annual Conference, New Orleans, LA, August 4-7, 2015.

11. Liu, W., **Q. Xue**, S. Guo, T. Dang, C. Gao. 2015. Long-term fertilization effect on crop yield and water use efficiency in a rainfed cropland on the Loess Plateau. ASA-CSSA-SSSA, 2015 International Annual Meetings, November 15-18, 2015, Minneapolis, MN.
12. Ocheya, S.A., C.-T. Tan, S. Liu, G. Zhang, J. Rudd, A. Ibrahim, **Q. Xue**, R. Devkota, J. Chen, H. Scott, G. Bai, S. Chao, J. Baker, S. Baker, S. Dhakal, M.P. Fuentealba. 2015. Identification of SNP markers linked to *Wsm2* and QTL for yield and yield components. Texas A&M Breeding Symposium. Feb. 19. College Station, TX. (**Invited**). Pioneer Inc. sponsored and broadcasted to worldwide through WebEx.
13. Ocheya, S., C. T. Tan, S. Dhakal, J. C. Rudd, G. Zhang, **Q. Xue**, A. M. H. Ibrahim, R. N. Devkota, S. D. Haley, J. Chen, M. P. Fuentealba, S. Baker, J. Baker, and S. Liu. 2015. Identification of high throughput snp markers for grain yield, yield components and WSMV resistance in wheat. ASA-CSSA-SSSA, 2015 International Annual Meetings, November 15-18, 2015, Minneapolis, MN.
14. Ocheya, S., M. P. Fuentealba, C. T. Tan, S. Dhakal, J. C. Rudd, G. Zhang, **Q. Xue**, A. M. H. Ibrahim, R. N. Devkota, S. D. Haley, J. Chen, S. Baker, J. Baker, and S. Liu. 2015. Genetic mapping for drought tolerance in TAM 111 and *Wsm2* in CO960293-2 using 90K SNP array. 2015 Texas Small Grain Workers Meeting, August 12, 2015, Amarillo TX.
15. Pokhrel, P., B. A. Stewart, **Q. Xue**, S. Thapa, and M. Bhandari. 2015. Concentrating fertilizer under clumps of grain sorghum to increase efficiency. ASA-CSSA-SSSA, 2015 International Annual Meetings, Minneapolis, MN.
16. Tan, C. T., M. P. Fuentealba, S. Ocheya, S. Dhakal, J. C. Rudd, Q. Xue, G. Zhang, G. Bai, X. Zhang, S. D. Haley, and S. Liu. 2015. Validation and application of single nucleotide polymorphism in marker-assisted breeding for host plant resistance in wheat. 2015 Texas Small Grain Workers Meeting, August 12, 2015, Amarillo TX.
17. Tan, C.-T., S. Ocheya, S. Dhakal, J.C. Rudd, **Q. Xue**, G. Zhang, G. Bai, X. Zhang, R. Devkota, M.P. Fuentealba, S.Y. Liu. 2015. Development of high throughput SNPs for host plant resistance. **9<sup>th</sup> International Wheat Conference**. Sep. 20-25. Sydney, AUS.
18. Tan, C. T., S. A. Ocheya, G. Zhang, S. D. Haley, J. C. Rudd, **Q. Xue**, G. Bai, X. Zhang, P. Byrne, M. P. Fuentealba, S. Liu. 2015. Development and Validation of Kasp Markers for Marker-Assisted Selection of *Wsm2* in Wheat. ASA-CSSA-SSSA, 2015 International Annual Meetings, Minneapolis, MN.
19. Thapa, S., B. A. Stewart, **Q. Xue**, Y. Chen, P. Pokhrel, and T. Barkley. 2015. Growing grain sorghum in clumps to improve microclimate and grain yield. International Soil Conservation Organization (ISCO) 18 Conference, May 31-June 4, 2015, El Paso, TX.
20. Thapa, S., B. A. Stewart, **Q. Xue**, Y. Chen, P. Pokhrel, and T. Barkley. 2015. Growing sorghum and corn in clumps as a strategy to improve microclimate, grain yield and harvest index. ASA-CSSA-SSSA, 2015 International Annual Meetings, Minneapolis, MN.
21. Wang, B., Y. Zhang, B. Hao, X. Xu, Z. Wang, and Q. Xue. 2015. Yield and water use efficiency in extremely-late sown winter wheat under high seeding rate in the North China Plain. 2015 Texas Small Grain Workers Meeting, August 12, 2015, Amarillo TX.
22. **Xue, Q.**, B. Hao, T. Marek, P. Gowda, T. Howell, W. Xu, J. Tolk, and S. Evett. 2015. Evapotranspiration and Water Use Efficiency of Corn in the Texas High Plains. World Environmental & Water Resources Congress. May 17-21, 2015, Austin, TX.
23. **Xue, Q.**, B. Hao, T. H. Marek, K. E. Jessup, J. D. Becker, W. Xu, E. Bynum, B. W. Bean, P. D. Colaizzi, and T. A. Howell. 2015. Water use and grain yield in maize hybrids under limited irrigation. ASA-CSSA-SSSA, 2015 International Annual Meetings, Minneapolis, MN.

24. Yang, Y., B. Basnet, S.Y. Liu, A.M.H. Ibrahim, J.C. Rudd, **Q. Xue**, C. Johnson. 2015. Analysis of QTL by environment interactions for stripe rust resistance in TAM 111 using saturated genetic maps with SNP and RADseq markers. Texas A&M Breeding Symposium. Feb. 19. College Station, TX. (**Invited**). Pioneer Inc. sponsored and broadcasted to worldwide through WebEx.
25. Yang, Y., K. Joseph, M. P. Fuentealba, S. Dhakal, **Q. Xue**, J. C. Rudd, A. Ibrahim, R. N. Devkota, J. Baker, and S. Liu. 2015. QTL associated with yield components in TAM 111 and TAM 112 and their interactions with environments. 2015 Texas Small Grain Workers Meeting, August 12, 2015, Amarillo TX.

#### 2014 (18)

1. Ajayi, S., **Q. Xue**, G. Pradhan, R. Siu, S. K. Reddy, K. E. Jessup, A. Ibrahim, J. C. Rudd, and S. Liu. 2014. Monitoring early plant growth of wheat genotypes using ground based plant health sensing system. The 26th Annual Texas Plant Protection Conference, December 10-11, 2014, Bryan, TX.
2. Ajayi, S., S. K. Reddy, P. Gowda, S.Liu, J. C. Rudd, **Q. Xue**, and B. A. Stewart. 2014. Use of spectral reflectance for estimating plant parameters of wheat genotypes in the Texas High Plains. Borlaug Summit on Wheat for Food Security, March 25-28, 2014, Ciudad Obregón, Mexico.
3. Attia, A., N. Rajan, A. Ibrahim, D. Hays, and **Q. Xue**. 2014. Application of CSM-CERES-Wheat Model for Irrigation Management of Winter Wheat in the Texas High Plains. ASA-CSSA-SSSA, 2014 International Annual Meetings, Long Beach, CA.
4. Attia, A., N. Rajan, G. Ritchie, A. Ibrahim, D. Hays, and **Q. Xue**. 2014. Deficit irrigation and tillage effects on lint yield and profitability of four cotton cultivars in the Texas Rolling Plains. Beltwide Cotton Conferences, January 06 - 08, 2014, New Orleans, LA.
5. Attia, A., N. Rajan, G. Ritchie, E. Barnes, S. Cui, A. Ibrahim, D. Hays, and **Q. Xue**. 2014. Cotton yield, fiber quality, water use efficiency, and spectral reflectance responses to irrigation and tillage management in the Texas Rolling Plains. ASA-CSSA-SSSA, 2014 International Annual Meetings, Long Beach, CA.
6. Dhakal, S., J. C. Rudd, **Q. Xue**, R. Devkota, M. P. Fuentealba, B. Blaser, C.M. Rush, S.Y. Liu. 2013. Screening wheat curl mite resistance in Texas and Great Plains hard winter wheat. Ogallala Aquifer Program Workshop, Mar 25-26, 2014, Lubbock, TX.
7. Dhakal, S., S. Liu, J. C., **Q. Xue**, B. Blaser. 2014. Genetic Mapping of the Wheat Curl Mite Resistance in TAM 112. The 26th Annual Texas Plant Protection Conference, December 10-11, 2014, Bryan, TX.
8. Hao, B., **Q. Xue**, K. E. Jessup, T. H. Marek, W. Xu, E. Bynum and B. Bean. 2014. Water use and grain yield in drought tolerant maize in the Texas High Plains. ASA-CSSA-SSSA, 2014 International Annual Meetings, Long Beach, CA.
9. Liu, S., S. Assanga, S. Dhakal, D. B. Hays, J. C. Rudd, A. M.H. Ibrahim, Q. Xue, S. Chao, R. Devkota, P. Sengodan, T. Huggins, and S. Mohammed. 2014. Validation of SNP chromosome locations using three wheat mapping populations. **Borlaug Summit on Wheat for Food Security**, March 25-28, 2014, Ciudad Obregón, Mexico.
10. Ocheya, S.A., **S.Y. Liu\***, J.C. Rudd, A. Ibrahim, Q. Xue, D. Hays, R. Devokota, G. Zhang, J. Chen. 2014. Identifying SNP markers for drought tolerance in wheat. Borlaug Summit on Wheat for Food Security, Book of Abstracts. Mexico, Mar. 25-28, 2014. Cd. Obregon, Sonora, Mexico.
11. Ocheya, S.A., **S.Y. Liu\***, J.C. Rudd, A. Ibrahim, Q. Xue, R. Devokota, S. Chao, G. Zhang, S.

- Haley, J. Chen, C-T., Tan, M. P. Fuentealba. Genetic Mapping and Introgression of QTLs for Drought Tolerance and Wsm2 from Hard Red Winter Wheat into Ug99 Resistant Spring Wheat Cultivars for African Countries. Agricultural Biosciences International Center, Oct 5-9, 2014, Saskatoon, SK, Canada.
12. Ocheya, S.A., S.Y. Liu, J.C. Rudd, A. Ibrahim, **Q. Xue**, R. Devkota, S. Chao, G. Zhang, S. Haley, J. Chen, C-T., Tan, M. P. Fuentealba. Validating diagnostic SNP markers for Wsm2 and mapping and introgression of QTL for drought tolerance from hard red winter wheat into Ug99 resistant spring wheat cultivars for African countries. The first International Conference on Genomics, Traits and Business, Sep 21-24, Charlotte, NC USA.
  13. Pradhan, G. P., **Q. Xue**, K. E. Jessup, C. C. Rudd, S. Liu, T. H. Marek, R. N. Devkota, and J. Baker. 2014. Impact of irrigation levels on the growth, yield, and seasonal evapotranspiration of hard red winter wheat. ASA-CSSA-SSSA, 2014 International Annual Meetings, Long Beach, CA.
  14. Reddy, S. K., J. Baker, S. Baker, D. Malinowski, C. Neely, A. Ibrahim, S. Liu, **Q. Xue**, D. Drake, G. Pradhan, Y. Emendack, R. Devkota, and J. C. Rudd. 2014. Phenotyping for biomass and ground cover estimation in wheat and other winter small grains. **Borlaug Summit on Wheat for Food Security**, March 25-28, 2014, Ciudad Obregón, Mexico.
  15. Tan C-T., S.A. Ocheya, S-Y. Liu, J.C. Rudd, **Q Xue**, G. Zhang<sup>3</sup>, G. Bai, X. Zhang, M.P. Fuentealba. 2014. Validation and application of diagnostic KASPar SNP markers for host plant resistance in wheat. The first international Conference on Genomics, Traits and Business, Sep 21-24, Charlotte, NC USA.
  16. Thapa, S., Y. Chen, **Q. Xue**, and B. A. Stewart. 2014. Manipulating plant geometry to improve microclimate and grain yield. ASA-CSSA-SSSA, 2014 International Annual Meetings, Long Beach, CA.
  17. **Xue, Q.**, B. Hao, K. E. Jessup, T. H. Marek, X. Hou, and J. D. Becker. 2014. Evaluation of late corn planting with early maturity hybrids in the Texas high plains. ASA-CSSA-SSSA, 2014 International Annual Meetings, Long Beach, CA.
  18. Yang, Y., B. Basnet, S. Liu, A. H. Ibrahim, J. C. Rudd, **Q. Xue**, C. Johnson. 2014. Analysis of QTL by environment interactions for stripe rust resistance in TAM 111 using saturated genetic maps with SNP and Genotyping-by-Sequencing markers. The 26th Annual Texas Plant Protection Conference, December 10-11, 2014, Bryan, TX.

### 1994-2013

1. Reddy, S., S. Liu, A. Akhunova, Y. Weng, J. C. Rudd, **Q. Xue**, P. Payton, and J. R. Mahan. 2013. Comparative transcriptomics involving greenbug and water-deficit stress responses in hard-red winter wheat. Plant and Animal Genome Conference, San Diego, CA. (No. P0787).
2. Pradhan, G. P., **Q. Xue**, S. Liu, J. C. Rudd, and K. E. Jessup. 2013. Effective use of soil water contributed to high yield in wheat in the U.S. Southern High Plains. DT-11: Desert Technology 11 International Conference. Nov. 19-22, 2013, San Antonio, TX.
3. Hao, B., **Q. Xue**, Y. H. Zhang, B. A. Stewart and Z. M. Wang. 2013. Deficit Irrigation in Winter Wheat – The U.S. Southern High Plains and North China Plain. DT-11: Desert Technology 11 International Conference. Nov. 19-22, 2013, San Antonio, TX.
4. Thapa, S., Y. Chen, **Q. Xue**, and B. A. Stewart. 2013. Manipulating Plant Geometry to Improve Microclimate for Dryland Crops. DT-11: Desert Technology 11 International Conference. Nov. 19-22, 2013, San Antonio, TX.
5. **Xue, Q.**, G. P. Pradhan, B. Hao, R. Sui, and K. E. Jessup. 2013. Evaluation of a ground-based sensing system for wheat performance under water-limited conditions. ASA-CSSA-

- SSSA, 2013 International Annual Meetings, Tampa, FL.
6. Hao, B., **Q. Xue**, T. H. Marek and K. E. Jessup. 2013. Radiation use efficiency in drought tolerant corn in the Texas High Plains. ASA-CSSA-SSSA, 2013 International Annual Meetings, Tampa, FL.
  7. Pradhan, G. P., **Q. Xue**, K. E. Jessup, S. Liu, J. C. Rudd, and J. R. Mahan. 2013. Identifying drought tolerant wheat genotypes using wireless infrared thermometer in the US Southern High Plains. ASA-CSSA-SSSA, 2013 International Annual Meetings, Tampa, FL.
  8. Stewart, B. A., and **Q. Xue**. 2013. Strategies for incremental gains in crop yields in water deficient areas. ASA-CSSA-SSSA, 2013 International Annual Meetings, Tampa, FL.
  9. Ocheya, S. A., S. Liu, J. C. Rudd, A. M. H. Ibrahim, **Q. Xue**, D. B. Hays, R. N. Devkota, G. Zhang, and J. Chen. 2013. Identification of SNP markers for drought tolerance in wheat. ASA-CSSA-SSSA, 2013 International Annual Meetings, Tampa, FL.
  10. Liu, S., J. C. Rudd, G. Bai, S. Haley, A. M. H. Ibrahim, **Q. Xue**, D. B. Hays, R. A. Graybosch, R.N. Devkota, and P. St. Amand. 2013. Molecular markers linked to genes important for hard winter wheat production and marketing in the U.S. Great Plains. ASA-CSSA-SSSA, 2013 International Annual Meetings, Tampa, FL.
  11. Attia, A., S. S. Nair, N. Rajan, G. L. Ritchie, A.M.H. Ibrahim, P. B. DeLaune, D. B. Hays, and **Q. Xue**. 2013. Modeling cotton growth and yield response to different irrigation management using Cotton2K. ASA-CSSA-SSSA, 2013 International Annual Meetings, Tampa, FL.
  12. Attia, A., N. Rajan, G. L. Ritchie, A.M.H. Ibrahim, D. B. Hays, and **Q. Xue**. 2013. Identifying drought tolerant cotton cultivars using spectral reflectance and canopy temperature. ASA-CSSA-SSSA, 2013 International Annual Meetings, Tampa, FL.
  13. Dhakal, S., J. C. Rudd, Q. Xue, R. N. Devkota, M. P. Fuentealba, B. Blaser, and S. Liu. Wheat curl mite resistance in TAM112. Texas Plant Protection Association Conference, Dec. 10-11, Bryan, TX.
  14. Liu, S., **Q. Xue**, A. M. Ibrahim, S. Krishna Reddy, and J. C. Rudd. 2012. Genetic and physiological evaluation of yield and other important traits of hard red winter wheat in the Texas High Plains. ASA-CSSA-SSSA, 2012 International Annual Meetings. Cincinnati, OH.
  15. Stougaard, R. N., and **Q. Xue**. 2012. Spring wheat seed size and cultivar effects on yield and wild oat interference. 2012 Weed Science Society of America Annual Meeting, February 6-9, Waikoloa, HI.
  16. Zhang, Y. H., **Q. Xue**, B. A. Stewart, K. E. Jessup, and Z. M. Wang. 2012. Genotypic variation of drought tolerance and water use efficiency in wheat seedlings in the US Southern High Plains. ASA-CSSA-SSSA, 2012 International Annual Meetings. Cincinnati, OH.
  17. Hou, X., K.E. Jessup, **Q. Xue**, and B.A. Stewart. 2012. Grain Sorghum Response to Soil Water Deficit and Nitrogen Rate. 2012 Annual Student Research Conference, West Texas A&M University, April 13, 2012, Canyon TX.
  18. Reddy, Y.S., B. A. Stewart, B. C. Blaser, and **Q. Xue**. 2012. Influence of plant geometries on transpiration efficiency and harvest index in corn, sorghum and millet. 2012 Annual Student Research Conference, West Texas A&M University, April 13, 2012, Canyon TX.
  19. Krishna Reddy, S., S. Liu, **Q. Xue**, J. C. Rudd, M. Fuentealba, K.E. Jessup, P. Payton, and J. Mahan. 2012. Mechanisms of adaptation to water-stress conditions in widely planted TAM wheat cultivars. ASA-CSSA-SSSA, 2012 International Annual Meetings. Cincinnati, OH.
  20. Ajayi, S., S. Krishna Reddy, S. Liu, P. Gowda, **Q. Xue**, T. Marek, J. Rudd, C. M. Biradar, and K. E. Jessup. 2012. Reflectance based characterization of wheat cultivars for identifying

- drought tolerance. ASA-CSSA-SSSA, 2012 International Annual Meetings. Cincinnati, OH.
21. Becker, J. D., B. Bean, **Q. Xue**, and T. Marek. 2012. Drought tolerant corn under varying irrigation and seeding rates. ASA-CSSA-SSSA, 2012 International Annual Meetings. Cincinnati, OH.
  22. Krishna Reddy, S., S. Liu, J. C. Rudd, R. N. Devkota, **Q. Xue**, P. Payton, and J. Mahan. 2012. Gene expression profiling of water deficit stress responses in widely adapted wheat cultivars TAM 111 and TAM 112. Plant Biology 2012, Austin, TX.
  23. **Xue, Q.**, B. Bean, B.A. Stewart, X. Hou, K.E. Jessup, J. Becker, and D. Baltensperger. 2011. Grain Sorghum Response to Nitrogen and Phosphorus under Various Irrigation Conditions. 2011 Sorghum Research/Extension Symposium. Texas Tech University, Lubbock, TX.
  24. Hou, X., **Q. Xue**, B.A. Stewart, K.E. Jessup, and D. Baltensperger. 2011. Grain sorghum response to soil water deficit and nitrogen rate. 2011 Great Plains Sorghum Conference & 28<sup>th</sup> Biennial Sorghum Research and Utilization Conference, Stillwater, OK.
  25. **Xue, Q.**, T. Marek, B. Bean, W. Xu, J. Michels, K. Jessup, and J. Becker. Physiological determination of yield in corn hybrids under limited irrigation in the Texas High Plains. ASA-SSSA-SSSA, 2011 International Annual Meetings. San Antonio, TX.
  26. **Xue, Q.**, K. Jessup, J. Rudd, S. Liu, S. Baker, R. Devkota, and J. Mahan. Different mechanisms of adaptation to drought stress in two wheat cultivars? ASA-CSSA-SSSA, 2011 International Annual Meetings. San Antonio, TX.
  27. Zhang, Y. H., Z. Wang, S. Zhou, Y. Zhang, S. Zhang, **Q. Xue**, B.A. Stewart. A water-saving and high-yielding cultivation system for winter wheat production in Northern China Plain: Wuqiao Model. ASA-CSSA-SSSA, 2011 International Annual Meetings. San Antonio, TX.
  28. **Xue, Q.**, W. Liu and B. A. Stewart. 2011. Improving yield and water use efficiency in wheat under deficit irrigation: Experience of the US Southern Great Plains. *2011 Yangling International Agri-Science Forum*, November 5-7, 2011, Yangling, China.
  29. **Xue, Q.**, J. Rudd, H. Lu, B. Bean, P. Colaizzi, J. Mahan, K. E. Jessup, R. Devkota, and P. Payton. 2010. Physiological basis for improving yield and water use efficiency of wheat in the Southern High Plains. ASA-CSSA-SSSA, 2010 International Annual Meeting. Long Beach, CA.
  30. **Xue, Q.**, J. Rudd, H. Lu, B. Bean, P. Colaizzi, K. Jessup, R. Devkota, and J. Mahan. 2010. Yield Determination in Wheat under Drought Stress: Physiological Basis. Texas Small Grains Workers Meeting, Commerce, TX, August 3, 2010.
  31. **Xue, Q.**, K. Jessup, T. Marek, W. Xu, B. Bean, J. Michels, T. Howell, P. Colaizzi, and C. Rush. Physiological Characterization of Deficit Irrigation Corn. Texas North Plains Corn Irrigation Research and Extension Field Day. Etter, TX, August 25, 2010.
  32. **Xue, Q.**, P. Nyren, E. Eriksmoen, G. Bradbury, M. Halverson, E. Aberle, K. Nichols, and M. Liebig, 2009. Composition of Perennial Grasses for Biofuel Production in Central and Western North Dakota. In: 2009 Annual Meeting Abstracts, ASA-CSSA-SSSA, Pittsburg, PA.
  33. Stougaard, R. N. and **Q. Xue**. 2008. Effects of imazamox rates on wild oat control in herbicide-resistant spring wheat. Proc. West. Soc. Weed Sci.
  34. Stougaard, R. N. and **Q. Xue**. 2007. White cockle responses to auxinic herbicides. Proc. West. Soc. Weed Sci.
  35. **Xue, Q.** and R. N. Stougaard. 2006. Spring wheat seeding rate and seed size affect water-use efficiency under wild oat competition. Second International Symposium on Soil Erosion and Dryland Farming, Yangling, Shaanxi, PRC.

36. Xue, Q., R. N. Stougaard, J. A. Mickelson, Q. Khan, and F. R. Guillen-Portal. 2005. Spring wheat seed size and cultivar effects on yield and wild oat interference. *Proc. West. Soc. Weed Sci.*
37. Stougaard, R. N. and Q. Xue. 2005. An economic analysis of spring wheat seed size and seeding rates effects on wild oat interference. *Proc. West. Soc. Weed Sci.*
38. Guillen-Portal, F. R., R. N. Stougaard, and Q. Xue. 2005. Mechanisms associated with the effect of seed size on spring wheat-wild oat interaction. Summer Conference of Crop Science Society of America, Western Society of Crop Science and Western Wheat Workers, Bozeman, MT.
39. Guillen-Portal, F. R., R. N. Stougaard, Q. Khan, and Q. Xue. 2005. Wheat seed size and weed-competitive related traits: an exploratory assessment of relationship. Summer Conference of Crop Science Society of America, Western Society of Crop Science and Western Wheat Workers, Bozeman, MT.
40. Stougaard, R. N., F. R. Guillen-Portal, and Q. Xue. 2003. Crop interference and crop response in spring wheat against wild oat. In: 2003 Annual Meeting Abstracts, ASA-CSSA-SSSA, Denver, CO.
41. **Xue, Q.** and R. N. Stougaard. 2003. Effects of spring wheat seed size and tralkoxydim rate on wild oat interference. *Proc. West. Soc. Weed Sci.*
42. **Xue, Q.** and R. N. Stougaard. 2001. Growth analysis of spring wheat with reference to seed size. In: 2001 Annual Meeting Abstracts, ASA-CSSA-SSSA, Charlotte, NC.
43. **Xue, Q.** and R. N. Stougaard. 2001. Effect of spring wheat seeding rate on wild oat competition: growth analysis. *Proc. West. Soc. Weed Sci.*
44. **Xue, Q.** and R. N. Stougaard. 2000. Effect of seed size on phenology, light penetration and growth in spring wheat. In: 2000 Annual Meeting Abstracts, ASA-CSSA-SSSA, Minneapolis, MN.
45. **Xue, Q.**, A. Weiss, and P. S. Baenziger. 1999. Predicting phenological development in winter wheat. p. 19. In: 1999 Annual Meeting Abstracts, ASA-CSSA-SSSA, Salt Lake City, UT.
46. **Xue, Q.**, A. Weiss, T. J. Arkebauer and P. S. Baenziger. 1998. Gas exchange responses to vapor pressure deficit in different wheat cultivars. p. 89. In: 1998 Annual Meeting Abstracts, ASA-CSSA-SSSA, Baltimore, MD.
47. Weiss, A., **Q. Xue** and B. G. Bugbee. 1998. Field evaluation of a small infrared thermometer. p. 21. In: 1998 Annual Meeting Abstracts, ASA-CSSA-SSSA, Baltimore, MD.
48. **Xue, Q.**, M. D. Lazar, G. Piccinni, C. D. Salisbury, and B. A. Stewart. 1997. A simplified system for understanding drought resistance in wheat. Division of Agriculture Res. Report, 97-1. Dryland Agricultural Institute, West Texas A&M University, Canyon, TX.
49. Lazar, M. D., G. Piccinni, **Q. Xue.**, W. C. Wang, C. D. Salisbury, and N. N. Saulescu. 1997. Yield variation among closely-related wheat lines under water stress is related to root length. *Plant Physiology*, 114: 107.
50. **Xue, Q.**, M. D. Lazar, G. Piccinni, C. D. Salisbury, and W. D. Worrall. 1995 Genotypic variation in osmotic adjustment among closely-related wheat lines. In: 1995 Agronomy Abstracts, ASA-CSSA-SSSA, St. Louis, Missouri.
51. **Xue, Q.**, J. T. Musick, and Z. Zhu 1994. Water deficit effects on soil and plant water relations of winter wheat. p. 173. In: 1994 Agronomy Abstracts, ASA-CSSA-SSSA, Seattle, Washington.

52. Zhu, Z, **Q. Xue**, and J. T. Musick. 1994. Water deficit effects on winter wheat growth and yield. p. 373. In: 1994 Agronomy Abstracts, ASA-CSSA-SSSA, Seattle, Washington.

### **Invited Presentations (35)**

#### *Regional and National:*

1. **Xue, Q.** 2015. Drought tolerance and water use efficiency in TAM wheat genotypes. Combined Wheat and Vegetable Field Day, Texas A&M AgriLife Research and Extension Center at Uvalde, April 21, 2015.
2. **Xue, Q.** 2015. Drought tolerance in new wheat varieties. Annual Wheat Field Day, Texas A&M AgriLife Research and USDA-ARS, Bushland, TX, May 21, 2015.
3. **Xue, Q.** 2014. Drought tolerance and water use efficiency in wheat. Combined Wheat and Vegetable Field Day, Texas A&M AgriLife Research and Extension Center at Uvalde, April 23, 2014.
4. **Xue, Q.** 2014. Improve Crop Yields and Water Use Efficiency in the Southern Great Plains, TAMU Department of Soil and Crop Sciences Seminar Series, College Station, TX, March 5, 2014.
5. **Xue, Q.**, T. H. Marek, B. Hao, K. E. Jessup, X. Hou, G. Pradhan, and J. Becker. 2014. Manage corn under reduced irrigation- agronomic perspective. 2014 High Plains Irrigation Conference and Trade Show, January 16, Amarillo, TX.
6. Bynum, E., **Q. Xue**, and T. H. Marek. 2013. Mite impacts on limited irrigation corn. 2013 High Plains Irrigation Conference and Trade Show, January 17, Amarillo, TX.
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