

CURRICULUM VITAE
September 2017

Qingwu Xue, Ph.D.

Associate Professor, Texas A&M AgriLife Research at Amarillo

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EDUCATION

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

Dissertation: Phenology 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

Sep. 2015 - present, Associate Professor, Crop Stress Physiology, 100% research, Texas A&M AgriLife Research-Amarillo, 6500 Amarillo Blvd W, Amarillo TX 79106.

Dec. 2009-Aug. 2015, 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)

1. Graduate students – Chair/Co-chair (7)

Name	Degree	Univ.	Period	Current position
Ms. Sarah Ajayi	Ph.D.	TAMU	2014-present	
Mr. Mahendra Bhandari	Ph.D.	TAMU	2016-present	
Mr. Rajan Shrestha	M.S.	WTAMU	2016-present	
Mr. Zane Jenkins	M.S.	WTAMU	2017-present	
Mr. Mahendra Bhandari	M.S.	WTAMU	2014-2016	Ph.D. student
Ms. Sarah Ajayi	M.S.	WTAMU	2012-2014	Ph.D. student
Ms. Xiaobo Hou	M.S.	WTAMU	2011-2014	Ph.D. student

2. Graduate students – Committee (13)

Name	Degree	Univ.	Period	Current position
Mr. Anil Adhikari	Ph.D.	TAMU	2016-present	
Ms. Yan Yang	Ph.D.	TAMU	2014-present	
Ms. Ainslinn Walton	M.S.	WTAMU	2016-present	
Mr. Silvano A. Ocheya	Ph.D.	TAMU	2012-2016	Corn Breeder
Mr. Sushil Thapa	Ph.D.	WTAMU	2012-2016	Post-doc
Mr. Ahmed Attia	Ph.D.	TAMU	2012-2014	Professor
Mr. Pramod Pokhrel	M.S.	WTAMU	2014-2016	Ph.D. student
Ms. Timber Barkley	M.S.	WTAMU	2014-2015	USDA
Ms. Angela Simmons	M.S.	WTAMU	2013-2015	Science teacher
Mr. Smit Dhakal	M.S.	WTAMU	2012-2014	Ph.D. student
Mr. Jacob Becker	M.S.	WTAMU	2011-2013	Manager (Pioneer)
Mr. Yella Sanjeev Reddy	M.S.	WTAMU	2011-2013	Sorghum Seeds R&D
Mr. Chongyuan Zhang	M.S.	WTAMU	2010-2012	Ph.D. student

3. Other graduate students training in my laboratory (3)

Name	Degree	Period	University/activity
Ms. Menglin Ding	M.S.	2016-present	CAU, student intern
Mr. Bin Wang	Ph.D.	2014-2015	CAU, conducted Ph.D. research
Mr. David Verbree	Ph.D.	2009-2012	TAMU, conducted Ph.D. research

TAMU, Texas A&M University; WTAMU, West Texas A&M University; CAU, China Agricultural University.

4. Postdoctoral scientists (4)

Name	Period	Current position	Employer
Dr. Sushil Thapa	2016-present		
Dr. Jin Zhao	2016-present		
Dr. Baozhen Hao	2012-2015	Assoc. Professor	Xinxiang University
Dr. Gautam Pradhan	2012-2014	Res. Agronomist	NDSU, Williston ND

NDSU, North Dakota State University.

5. Visiting scientists (4)

Name	Period	Position & Affiliation
Dr. Wen Jiang	2016-present	Professor, Qingdao Agric. University, Qingdao, China
Dr. Yuanquan Chen	2013-2014	Associate Prof., China Agric. University, Beijing, China
Dr. Hongda Wen	2012-2013	Professor, Hebei Agric. University, Baoding, China
Dr. Yinghua Zhang	2011-2012	Associate Prof., China Agric. University, Beijing, China

6. Undergraduate student workers supervised (16):

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

7. 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. From 2010 to 2017, these proposals and contracts have garnered **\$13.8 million**, of which **\$2.02 million** went to my research programs (Crop Physiology and Agronomy).

HONORS AND AWARDS

Research Faculty Award (2016), Department of Soil and Crop Sciences, Texas A&M University, January 2017.

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.

Table 1. Grants Overview (2010-2017).

Year	Grand Total		To Crop Physiol. Program		
	w/Bayer	w/o Bayer	Total	Bayer	Others
2010	173,327	173,327	52,500	0	52,500
2011	2,031,641	751,769	206,766	35,782	170,984
2012	2,008,561	728,689	443,920	91,031	352,889
2013	2,141,509	861,637	479,932	108,233	371,699
2014	1,766,592	486,720	232,593	108,233	124,360
2015	1,731,972	452,100	220,300	110,000	110,300
2016	1,999,190	689,318	218,356	103,712	114,644
2017	1951094	1951094	170,095	0	170,095
Total	13,803,887	6,094,654	2,024,462	556,991	1,467,471

Note: Bayer total is **\$7,676,233**. The amount of each year from 2011 to 2016 is $7676233/6 = 1279372$; Numbers in 2012 and 2013 were for both Crop Physiol. and Agronomy Programs.

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 (78-career; 48-since joined AgriLife Research)

1. Assanga, S.O., G. Zhang, C.-T. Tan, J.C. Rudd, A. Ibrahim, **Q. Xue**, S. Chao, M.P. Fuentealba, S.Y. Liu. 2017. Saturated genetic map of wheat streak mosaic virus resistance gene *wsm2* in wheat. *Crop Science* 57:332-339. doi: 10.2135/cropsci2016.04.0233.
2. Dhakal, S., C.-T. Tan, L. Paetzold, M.P. Fuentealba, J.C. Rudd, B.C. Blaser, **Q. Xue**, C.M. Rush, R.N. Devkota, S.Y. Liu. 2017. Wheat curl mite resistance in hard winter wheat in the U.S. Great Plains. *Crop Science* 57:53-61
3. Karen Harris-Shultz, K., X. Ni, P. A. Wadl, X. Wang, H. Wang, F. Huang, K. Flanders, N. Seiter, D. Kerns, R. Meagher, **Q. Xue**, D. Reising, D. Buntin, H. E. Cuevas, M. J. Brewer, and X. Yang. 2017. Microsatellite markers reveal a predominant sugarcane aphid (Homoptera:

- Aphididae) clone is found on sorghum in seven states and one territory of the USA. *Crop Science* 57: 2064–2072.
4. Liu, X., S. J. Feakins, X. Dong, **Q. Xue**, T. Marek, D. I. Leskovar, C. B. Neely, A. M. H. Ibrahim. 2017. Experimental study of leaf wax n-alkane response in winter wheat cultivars to drought conditions. *Organic Geochemistry* 113: 210-223.
 5. Marek, G. W., T. H. Marek, **Q. Xue**, P. H. Gowda, S. R. Evett, and D. K. Brauer. 2017. Simulating evapotranspiration and yield response of selected corn varieties under full and limited irrigation in the Texas High Plains using DSSAT-CERES-Maize. *Transactions of the ASABE* 60: 837-846.
 6. Tan, C.-T., S.O. Assanga, G. Zhang, J.C. Rudd, S. Haley, **Q. Xue**, A. Ibrahim, G. Bai, X. Zhang, P. Byrne, M.P. Fuentealba, S.Y. Liu. 2017. Development and validation of KASP SNP markers for wheat streak mosaic virus resistance gene Wsm2. *Crop Science* 57:340-349. doi: 10.2135/cropsci2016.04.0234.
 7. Tan, C.-T., H. Yu, Y. Yang, X. Xu, M. Chen, J.C. Rudd, **Q. Xue**, A. Ibrahim, L. Garza, S. Wang, M.E. Sorrells, S.Y. Liu. 2017. Development and validation of KASP markers for the greenbug resistance gene Gb7 and the Hessian fly resistance gene H32 in wheat. *Theoretical and Applied Genetics* 130: 1867-1884. doi:10.1007/s00122-017-2930-4.
 8. Thapa, S., B. A. Stewart, and **Q. Xue**. 2017. Grain sorghum transpiration efficiency at different growth stages. [*Plant, Soil and Environment* 63: 70-75.](#)
 9. Thapa, S., B. A. Stewart, **Q. Xue**, and Y. Chen. 2017. Manipulating plant geometry to improve microclimate, grain yield, and harvest index in grain sorghum. *PloS One* 12(3), e0173511.
 10. Thapa, S., **Q. Xue**, K. E. Jessup, J. C. Rudd, S. Liu, G. P. Pradhan, R. N. Devkota, and J. Baker. 2017. More recent wheat cultivars extract more water from deeper soil profile in the Texas High Plains. *Agronomy Journal* (in press).
 11. Ajayi, S., S. K. Reddy, P. H. Gowda, **Q. Xue**, J. C. Rudd, G. Pradhan, S. Liu, B. A. Stewart, C. Biradar, K. E. Jessup. 2016. Spectral Reflectance Models for Characterizing Winter Wheat Genotypes. *J Crop Improvement* 30: 176-195.
 12. Attia, A., N. Rajan, **Q. Xue**, A. Ibrahim, D. Hays. 2016 Application of DSSAT-CERES-Wheat model to simulate winter wheat response to irrigation management in the Texas High. *Agricultural Water management* 156: 50-60.
 13. Attia, A., N. Rajan, S.S. Nair, P.B. DeLaune, **Q. Xue**, A.M.H. Ibrahim, and D.B. Hays. 2016. Modeling cotton lint yield and water use efficiency responses to irrigation scheduling using Cotton2K. *Agron. J.* doi:10.2134/agronj2015.0437.
 14. Brandon, R., **Q. Xue**, B. Bean, B. Blaser, and J. Bell. 2016. Palmer amaranth (*Amaranthus palmeri*) control and grain sorghum 1 (*Sorghum bicolor*) injury with pyrasulfotole plus bromoxynil. *Crop, Forage & Turfgrass Management*. Doi:10.2134/cftm2015. 0176.
 15. Dhakal, S., C. T. Tan, L. Paetzold, M. P. Fuentealba, J. C. Rudd, B. C. Blaser, **Q. Xue**, C. M. Rush, R. N. Devkota, and S. Liu. 2016. Wheat curl mite resistance in hard winter wheat in the US Great Plains. *Crop Sci.* doi:10.2135/cropsci2016.02.0121
 16. Hao, B. **Q. Xue**, T. H. Marek, K. E. Jessup, X. Hou, W. Xu, E. D. Bynum, and B. W. Bean. 2016. Radiation use efficiency, biomass production, and grain yield in two maize hybrids differing in drought tolerance. *Journal of Agronomy and Crop Science*. 202: 269-280.
 17. Liu, S., S.O. Assanga, S. Dhakal, X. Gu, C. T. Tan, Y. Yang, J. C. Rudd, D.Hays, A.H. Ibrahim, **Q. Xue**, S. Chao, R.N. Devkota, C. Shachter, T. Huggins, S. Mohammed, M.

- P.Fuentealba. 2016. Validation of Chromosomal Locations of 90K Array Single Nucleotide Polymorphisms in US Wheat. *Crop Sci.* 56: 364-373.
18. Tan, C. T., S. Assanga, G. Zhang, J.C Rudd, S.D. Haley, Q. Xue, A. Ibrahim, G. Bai, X. Zhang, P. Byrne, M. P. Fuentealba, S. Liu. 2016. Development and validation of KASP markers for wheat streak mosaic virus resistance gene. *Crop Sci.* (in press).
 19. Thapa, S., B.A. Stewart, **Q. Xue**, P. Pokhrel, T. Barkley, M. Bhandari. 2016. Growing corn in clumps reduces canopy temperature and improves microclimate. *J Crop Improvement* (in press).
 20. Wang, B., Y. Zhang, B. Hao, X. Xu, Z. Zhao, Z. Wang, **Q. Xue**. 2016. Grain Yield and Water Use Efficiency in Extremely-Late Sown Winter Wheat Cultivars under Two Irrigation Regimes in the North China Plain. *PloS one* 11 (4), e0153695
 21. 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.
 22. 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.
 23. 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.
 24. 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.
 25. 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.
 26. 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.
 27. 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.
 28. 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.
 29. 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.
 30. 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.
 31. 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.
32. **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.
 33. **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.
 34. 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.
 35. 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.
 36. 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.
 37. 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.
 38. **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.
 39. 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.
 40. Schmer, M. R., **Q. Xue**, J. R. Hendrickson. 2012. Salinity effects on perennial, warm-season (C₄) grass germination adapted to the northern Great Plains. *Canadian J. Plant Sci.* 92: 873-881.
 41. **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.
 42. **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.
 43. **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.
 44. **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.
 45. **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.
 46. 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.
47. 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.
48. 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.
49. 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.
50. **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.
51. 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.
52. **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.
53. 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.
54. 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.
55. 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.
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Book chapters (6)

1. **Xue, Q.**, J.C. Rudd, J. Bell, T.H. Marek, and S. Liu. 2017. Improving Water Management in Winter Wheat. In: P. Langridge (ed.), *Achieving Sustainable Wheat Cultivation*, Burleigh Dodds Science Publishing Limited (www.bdspublishing.com), pp63-84.
2. **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. http://cdn.intechopen.com/pdfs/44398/InTech-Biomass_production_in_northern_great_plains_of_usa_agronomic_perspective.pdf

3. **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.
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5. **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 (*).
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(*): Chinese; (**): Chinese with English abstract.

Abstracts (133)

2017 (13)

1. Ajayi-Olanrewaju S., N. Rajan, A. Ibrahim, J.C. Rudd, S-Y. Liu, R. Sui, and **Q. Xue**. 2017. Ground-based and aerial manned systems to monitor the performance of wheat genotypes. Texas Small Grain Workers Meeting. Aug. 10-11, Amarillo, TX USA.
2. Ding M., S. Thapa, K.E. Jessup, S-Y. Liu, J.C. Rudd, and **Q. Xue**. 2017. Remobilization of stem carbon reserve in winter wheat under dryland and irrigated condition. Texas Small Grain Workers Meeting. Aug. 10-11, Amarillo, TX USA.
3. Liu S-Y., J. C. Rudd, A.M.H. Ibrahim, **Q. Xue**, Y. Yang, S. Dhakal, S. Assanga, K. Jessup, S. Wang, R. Metz, C. Johnson, J. Baker, R.N. Devkota, H. Yu, X. Yang and L. Garza. 2017. Wheat Genic and genomic research using array and GBS SNPs. Texas Small Grain Workers Meeting. Aug. 10-11, Amarillo, TX USA.
4. Dhakal S., C-T. Tan, H. Yu, L. Garza, J.C. Rudd, **Q. Xue**, A.M.H. Ibrahim, and S-Y. Liu. 2017. Genetic mapping and KASP markers development for wheat curl mite resistance in TAM 112.
5. Yang Y., S. Dhakal, J. C. Rudd, **Q. Xue**, A.M.H. Ibrahim, Y. Yang, J. Baker, K. Jessup, L. Garza, S. Wang, R. Metz, C. Johnson, S. Baker, R.N. Devkota, H. Yu, X. Yang, and S-Y. Liu. 2017. Genome-wide association mapping for yield and yield components in synthetic derived wheat. Texas Small Grain Workers Meeting. Aug. 10-11, Amarillo, TX USA.
6. Liu S.Y., Tan, C.T., S. Assanga, S. Dhakal, Y. Yang, J.C. Rudd, **Q. Xue**, A. Ibrahim, G. Zhang, X. Xu, G. Bai, M. Chen, R. Devkota, M.P. Fuentealba, H. Yu, L. Garza. 2017b. Application of Array SNP and GBS in Genetics and Breeding of Hard Red Winter Wheat. Plant and Animal Genome Conference XXV. Jan. 14-18, San Diego, CA USA. Yang ASA
7. Liu S.Y., J. C. Rudd, A.M.H. Ibrahim, **Q. Xue**, X. Xu, M-S. Chen, S. Wang, R. Metz, C. Johnson, Y. Yang, S. Dhakal, J. Baker, R.N. Devkota, H. Yu, X. Yang and L. Garza. 2017. Discovering pest resistances in primary synthetics using genotyping-by-sequencing and their application in winter wheat breeding. ASA-CSSA-SSSA International Annual Meeting. Oct. 22-25, Tampa, FL USA

8. Thapa S., G.P. Pradhan, K.E. Jessup, J.C. Rudd, S. Liu, J.R. Mahan, R.N. Devkota, J. Baker, J. Zhao and **Q. Xue**. 2017. Winter wheat canopy temperature at grain filling correlates to yield in the Texas High Plains. ASA-CSSA-SSSA International Annual Meeting. Oct. 22-25, Tampa, FL USA.
9. Yang Y., B.R. Basnet, A.M.H. Ibrahim, J.C. Rudd, **Q. Xue**, S. Wang, C. Johnson, R. Metz, X. Chen, R.L. Bowden, R.E. Mason, D.B. Hays and S-Y. Liu. 2017. Study of QTL by environment interactions for stripe rust resistance in TAM 111 using saturated genetic maps with 90K and GBS SNPs. ASA-CSSA-SSSA International Annual Meeting. Oct. 22-25, Tampa, FL USA.
10. Dhakal S., C-T. Tan, H. Yu, M.P. Fuentealba, J.C. Rudd, A.M.H. Ibrahim, **Q. Xue** and S-Y. Liu. 2017. Genetic mapping and KASP markers development for wheat curl mite resistance in TAM 112. ASA-CSSA-SSSA International Annual Meeting. Oct. 22-25, Tampa, FL USA.
11. **Xue Q.**, K.E Jessup, G.P. Pradhan, X. Hou, S. Ajayi, J.C. Rudd, S-Y. Liu, A.M.H. Ibrahim and R.N. Devkota. 2017. Evaluation of physiological traits associated with wheat yield in the Southern High Plains. ASA-CSSA-SSSA International Annual Meeting. Oct. 22-25, Tampa, FL USA.
12. **Xue, Q.**, J.C. Rudd, S. Liu, T.H. Marek, K.E. Jessup, G. Pradhan, B. Hao, X. Hou. 2017. Physiological responses of wheat to drought stress in the Texas High Plains. 2nd Agriculture and Climate Change Conference, March 26-28, 2017, Sitges, Spain.
13. **Xue. Q.**, A. M. H. Ibrahim, J. C. Rudd, S. Liu, J. J. Mowrer, and A. Somenahally. 2017. Improving winter wheat yield and water use efficiency in the Southern Great Plains of USA. Conference Internationale sur l'Environnement et l'Agriculture, April 24-25, 2017, Hammamet, Tunisia.

2016 (25)

1. Ajayi, S. O., **Q. Xue**, A.M.H. Ibrahim, N. Rajan, S.K. Reddy, J.C. Rudd, S. Liu, R. Sui, and K.E. Jessup. 2016. Non-Destructive Sampling for Monitoring the Growth and Performance of Winter Wheat Genotypes. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
2. Ajayi, S., **Q. Xue**, N. Rajan, S. K. Reddy, J. C. Rudd, A.M.H. Ibrahim, S. Liu, R. Sui, K. Jessup. 2016. Remote Sensing Techniques for monitoring growth of winter wheat genotypes. Sarah Ajayi1, 2, Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
3. Ajayi, S., **Q. Xue**, N. Rajan, S. K. Reddy, J. C. Rudd, A. Ibrahim, S. Liu, R. Sui, K. Jessup. 2016. Spectral vegetation indices for estimating growth of winter wheat genotypes. Texas A&M Plant Breeding Symposium, College Station, TX, February 18, 2016.
4. Ajayi, S., **Q. Xue**, N. Rajan, S. K. Reddy, J. C. Rudd, A. Ibrahim, S. Liu, R. Sui, and K. Jessup. 2016. Normalized Difference Vegetation Index as a selection tool for drought tolerant winter wheat genotypes. Texas Small Grain Workers Meeting, College Station, Texas, August 4, 2016.
5. Assanga, S., M.P. Fuentealba, S. Vader, J.M. Awika, A. Ibrahim, J. Rudd, **Q. Xue**, R.N. Devkota, J. Baker, S. Liu. 2016. Genetic Mapping and QTL Analysis for End-use Quality in Wheat. Texas A&M Plant Breeding Symposium, College Station, TX, February 18, 2016.
6. Assanga, S.O., M.P. Fuentealba, S. Vader, J.M. Awika, A. Ibrahim, J.C. Rudd, **Q. Xue**, R. Devkota, J. Baker, S-Y. Liu. 2016. Genetic mapping and QTL analysis for end-use quality in

- wheat. Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
7. *Bhandari, M.*, S. Liu, **Q. Xue**, J.C. Rudd, and B.A. Stewart. 2016. Infrared Thermal Imaging for Estimating Crop Canopy Temperature Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
 8. *Bhandari, M.*, S.K. Reddy, **Q. Xue**, J.C. Rudd, S. Liu, and Amir Ibrahim. 2016. Use of remote sensing for field phenotyping in wheat breeding program. Texas Small Grain Workers Meeting, College Station, Texas, August 4, 2016.
 9. *Bhandari, M.*, S.K. Reddy, **Q. Xue**, J.C. Rudd, S. Liu, and A.M.H. Ibrahim. 2016. Assessing Physiological Characteristics and Genotypic Variability of Wheat Genotypes Using Remote Sensing. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
 10. *Dhakal, S.*, C-T. Tan, M.P. Fuentealba, J.C. Rudd, **Q. Xue**, B. Blaser, R. Devkota, C. Rush, S-Y. Liu. 2016. Development of high-throughput KASP SNP markers for wheat curl mite resistance and their application in marker-assisted breeding. Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
 11. Liu, J.C. Rudd, A.M.H. Ibrahim, **Q. Xue**, Y. Weng, S. Xu, J. Baker, R. N. Devkota, C.T. Tan, H. Yu, X. Yang, and L. Garza. 2016. Utilization of Primary Synthetics in Winter Wheat Breeding. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
 12. Liu, S.Y., C.-T. Tan, *S. Assanga*, *S. Dhakal*, *Y. Yang*, J.C. Rudd, **Q. Xue**, A. Ibrahim, G. Zhang, X. Xu, G. Bai, M. Chen, R. Devkota, M.P. Fuentealba, H. Yu, L. Garza. 2016. Development, validation and application of KASP SNPs for biotic and abiotic adaptation in wheat marker-assisted breeding. The 7th International Crop Science Congress. August 14-19, Beijing, China.
 13. 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. 2016. Validation of chromosomal locations of 90K array SNP in US wheat. Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
 14. Liu, W., **Q. Xue**, S. Guo, T. Dang, and C. Gao. 2016. Long-Term Fertilization Effect on Wheat Yield and Water Use Efficiency on the Loess Plateau of China. Texas Small Grain Workers Meeting, College Station, Texas, August 4, 2016.
 15. Liu, X, X. Dong, **Q. Xue**, A.M.H. Ibrahim, D. Hathcoat, C.B. Neely, D.I. Leskovar, and T.H. Marek. 2016. Path Analysis of Root/Shoot Traits and Grain Yield in Winter Wheat in Texas Wintergarden and High Plains. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
 16. Stewart, B.A., **Q. Xue**, and S. Thapa. 2016. Effects of Climate Change in the U.S. Great Plains on Winter Wheat Yields. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
 17. Tan C.T., H. Yu, *Y. Yang*, L. Garza, J.C. Rudd, A. Ibrahim, **Q. Xue**, M. Chen, X. Xu, S.Y. Liu. 2016. Double haploids production and genetic mapping of *Gb7* for greenbug resistance and *H32* for hessian fly resistance in wheat. Texas Small Grain Workers Meeting, August 4, College Station, Texas.
 18. Tan, C. T., *S. Ocheya*, S. Dhakal, Y. Yang, J.C. Rudd, Q. Xue, A.M.H. Ibrahim, G. Zhang, X. Xu, G. Bai, M. Chen, R.N. Devkota, M.P. Fuentealba, H. Yu, L. Garza, and S. Liu. 2016.

- Developing Kasp Markers for Biotic Stress Tolerances in Wheat. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
19. Tan, C.-T., S. Assanga, S. Dhakal, J.C. Rudd, Q. Xue, A. Ibrahim, G. Zhang, G. Bai, S. Haley, L. Garza, H. Yu, S-Y. Liu. 2016. Development of high throughput SNPs for host plant resistance in wheat. Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
 20. Tan, C.-T., S. Assanga, S. Dhakal, Y. Yang, J.C. Rudd, Q. Xue, A. Ibrahim, G. Zhang, X. Xu, G. Bai, M. Chen, R.N. Devkota, H. Yu, L. Garza, S-Y. Liu. 2016. Developing high throughput KASP markers for wheat pest and disease resistance in the US High Plains. Workshop from Wheat Initiative for Achieving Durable Resistance to Wheat Diseases and Pests, Nov 2-4, Minneapolis, MN.
 21. Thapa, S., B.A. Stewart, **Q. Xue**, P. Pokhrel, and M. Bhandari. 2016. Grain Sorghum Transpiration Efficiency at Different Growth Stages As Affected By Growing Period Vapor Pressure Deficit. ASA-CSSA-SSSA, 2016 International Annual Meetings, Phoenix, AZ.
 22. **Xue, Q.**, J. Zhao, X. Lin, T.H Marek, S. Liu, and J.C. Rudd. 2016. Crop Yield and Water-Use Efficiency Responses to Climatic Variability in the U.S. Southern Great Plains. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
 23. **Xue, Q.**, S. Thapa, K. Jessup, G. Pradhan, X. Hou, J. C. Rudd, S. Liu, T. Marek. 2016. Physiological Responses of Wheat to Different Irrigation Levels in the Texas High Plains. Texas Small Grain Workers Meeting, College Station, Texas, August 4, 2016.
 24. Yang, Y., C.-T. Tan, X.Y. Xu, J.C. Rudd, **Q. Xue**, A.M. Ibrahim, S.Y. Liu. 2016. Genetic mapping and Kaspar SNP markers validation of greenbug resistance gene *Gb7* in wheat. Joint Edgar McFadden Symposium/ Hard Winter Wheat Workers Workshop. April 17-20, San Antonio, Texas.
 25. Zhao, J., **Q. Xue**, X. Hou, B. Hao, K.E. Jessup, T.H. Marek, W. Xu, S.R. Evett, and D.K. Brauer. 2016. Rooting Characters in Drought Tolerant Corn. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.

2015 (25)

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. Dhakal, 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. (**1st place in poster competition**).
7. Dhakal, 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. Dhakal, 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. **9th 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. Tolck, 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. Devokota, 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. Zhang³, 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 (52)

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. Dhakar, S., J. C. Rudd, Q. Xue, R. N. Devkota, M. P. Fuentealba, B. Blaser, and S. Liu. 2013. 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 & 28th 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 (42)

Regional and National (24):

1. **Xue, Q.**, T.H. Marek, B. Hao, K. Jessup, X. Hou, W. Xu, S. Evett, J. Tolk, S. O'Shaughnessy, and D. Brauer 2016. Rooting Characters and Water Depletion in Corn Hybrids under Drought. USDA-Ogallala Aquifer Program Workshop, March 8, 2016, Amarillo, TX.
2. Liu, S., J.C. Rudd, A.H.M. Ibrahim, **Q. Xue**, C. Rush, and C. Johnson. 2016. Wheat Curl Mite, Greenbug and Their Transmitted Diseases. Vector Biology Mini Symposium – Grand Challenge on Vector Diseases, May 18, 2016, College Station, TX.
3. **Xue, Q.** 2016. Corn Management under Limited Irrigation. Summer Crops Field Day, Texas A&M AgriLife and USDA-ARS, August 10, 2016, Bushland, TX.
4. **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.
5. **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.
6. **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.

7. **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.
8. **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.
9. 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.
10. **Xue, Q.**, J. Becker, and T. H. Marek. 2013. Drought tolerant corn in the Texas High Plains. Texas Seed Trade Association Production and Research Conference, Austin, TX, Feb. 5, 2013.
11. **Xue, Q.**, J. Becker, T. H. Marek, B. Hao, and K. E. Jessup. 2013. Drought tolerant corn performance – 2012. North Plains Groundwater Conservation District, Feb. 12, 2013, Dumas, TX.
12. **Xue, Q.** 2013. Drought tolerance and irrigation level study. 2013 Spring Crop Field Day, May 22, Etter, TX.
13. Marek, T. H., **Q. Xue**, W. Xu, J. Becker, G.J. Michels, T.A. Howell, P. Gowda, S.H. Amosson, Bridget Guerrero, P.D. Colaizzi, and J.M. Sweeten. 2013. North Plains Research Field 12-200 Limited Irrigation Corn Production Study. The Panhandle Water Planning Group (Region A) Meeting, July 23, Amarillo, TX.
14. **Xue, Q.** 2013. Chemical fallow under conservation tillage system. Summer Crop Field Day – Celebrating 75 years of Southern Plains Agricultural Advancements, August 29, Bushland, TX.
15. **Xue, Q.** 2013. History of Weed Science, Agronomy and Crop Physiology, Texas A&M AgriLife Research, cooperation with USDA-ARS at Bushland, TX. Celebrating 75 years of Southern Plains Agricultural Advancements, August 29, Bushland, TX.
16. **Xue, Q.**, B. Hao, K. E. Jessup, J. Becker, and T. H. Marek. 2013. Evaluation of late planting with early maturity hybrids in the Texas High Plains. Texas Corn Producers Board Meeting, Nov. 18, Amarillo, TX.
17. **Xue, Q.**, J. Becker, B. Bean, and T. H. Marek. 2012. Experience with Agrisure Artesian in the Texas Panhandle. Syngenta Water Summit Workshop, September 10, Denver, CO.
18. **Xue, Q.**, J. Rudd, S. Liu, A. Ibrahim. 2012. Drought Tolerance and WUE in Wheat: The Texas High Plains. AgriLife-Bayer Crop Science Meeting, May, 2012.
19. Becker, J., B. Bean, **Q. Xue**, and T. Marek. 2012. Drought tolerant corn study, Etter TX 2011. The 2012 High Plains Irrigation Conference, January 18, Amarillo, TX.
20. Ibrahim, A., J. Rudd, D. Hays, J. Awika, **Q. Xue**, S. Liu, C. Johnson, and A. Helms. 2012. Development of identity preserved wheat varieties for tortilla, flat bread, and pizza dough markets. The 2012 Wheat Field Day and AgriLife-Bayer Crop Science Meeting, May, 2012.
21. **Xue, Q.**, B. Bean, B. A. Stewart, X. Hou, K. E. Jessup, J. Becker, and D. Baltensperger. Grain Sorghum Response to Nitrogen and Phosphorus under Various Irrigation Conditions. 2011 Sorghum Research/Extension Symposium, July 21, 2011, Texas Tech University, Lubbock, TX.
22. Verbree, D., M. Balota, **Q. Xue**, J. Rudd, and W. Payne. Identifying Drought Tolerant Wheat Lines by Thermal Imaging. 2010 Wheat Field Day, Northern Plains Research Field, Etter Texas. May 19, 2010.
23. **Xue, Q.** Improving Drought Resistance & Water Use Efficiency in Wheat: Texas High

Plains. Plant Breeding Circle, Department of Soils and Crop Science, Texas A&M University, College Station, TX. April 16, 2010.

24. **Xue, Q.** 2009. Development of biofuel crops in the Northern Great Plains – Production challenges. 25th Research Results and Technology Conference, USDA-ARS, Northern Great Plains Research Laboratory. February 24, 2009. Mandan, ND.

International (18):

25. **Xue, Q.** 2016. Soil and Crop Management in Semi-arid Environment in the Southern US Great Plains. US-Tunisia Linkage program agenda for the Workshop I, January 18-22, 2016, Tunis, Tunisia.
26. **Xue, Q.,** J. Zhao, X. Lin, T.H Marek, S. Liu, and J.C. Rudd. 2016. Crop Yield and Water-Use Efficiency Responses to Climatic Variability in the U.S. Southern Great Plains. ASA-CSSA-SSSA, 2016 International Annual Meetings, November 6-9, 2016, Phoenix, AZ.
27. **Xue, Q.** 2015. Crop Water Use & Water Use Efficiency in the Texas High Plains. Institute of Soil & Water Conservation, The Chinese Academy of Sciences and Northwest A&F University, Yangling, Shaanxi, China, July 24, 2015.
28. **Xue, Q.** 2015. Dryland cropping systems in the Southern Great Plains. Hohhot, Inner Mongolia, China, August 7, 2015.
29. 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, Minneapolis, MN, November 17, 2015.
30. **Xue, Q.** 2014. Phenotyping Drought Tolerance and WUE in Wheat Using Remote Sensing Tools, Departments of Agronomy and Agricultural Meteorology, China Agricultural University, Beijing, China, February 18-19, 2014.
31. **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, Nov. 2-6, Tampa, FL.
32. 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, Nov. 2-6, Tampa, FL.
33. **Xue, Q.,** D. Verbree, P. Gowda, and S. Ajayi. 2012. Phenotyping drought tolerance and WUE in wheat using remote sensing tools. The 3rd International Symposium on Precision Aerial Application & Agricultural Automation, August 1, College Station, TX.
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