

Dr. Xuejun Dong

CONTACT INFORMATION

Associate Professor of Crop Physiology
Texas A&M AgriLife Research and Extension
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RESEARCH INTERESTS

My program is centered in the soil-plant-water relations for improved crop production under water limitation. My research emphasizes the identification of plant physiological traits and mechanisms of soil-plant interactions in relation to improved crop water use efficiency in cropping system through the development and application of sensors and computer models for crop phenotyping and management.

EDUCATION

Institute of Botany, Chinese Academy of Sciences, Beijing, China

Ph.D., Botany (Plant Ecophysiology), 1997

- Dissertation: *Ecophysiology of the Sandy Shrubs in the Mu Us Sandland: Structure and Function* (in English with journal articles published in [J. Arid Environ.], [Trees])
- Adviser: The late Professor Xinshi Zhang (Hsin-shih Chang) (1934 – 2020)
- Department: Lab of Quantitative Vegetation Ecology (now State Key Laboratory of Vegetation and Environmental Change)

M.S., Botany (Plant Ecophysiology), 1991

- Thesis: *The Qualitative and Quantitative Interpretations of Water Relations of the Plants in the Soil-Plant-Atmospheric Systems in the Mu Us Sandland of China* (in Chinese)
- Adviser: The late Professor Xinshi Zhang
- Department: Lab of Quantitative Vegetation Ecology

Lanzhou University, Lanzhou, Gansu Province, China

B.S., Plant Physiology (with honor), 1987

- Thesis: *The Change in the Superoxide Dismutase Activity and Lipid Peroxidation in Radish Cotyledons During Senescence as Induced by Exotic Hormones* (in Chinese)
- Adviser: The late Professor Chenglie Zhang (1938 – 2002)
- Department of Biology

PROFESSIONAL EXPERIENCE

Associate Professor of Crop Physiology 2019 – present
Texas A&M AgriLife Research and Extension Center - Uvalde, TX USA, and
Department of Soil and Crop Sciences, College Station, TX USA
Assistant Professor of Crop Physiology 2013 – 2019
Texas A&M AgriLife Research and Extension Center - Uvalde, TX USA, and
Department of Soil and Crop Sciences, College Station, TX USA
Range Scientist/ Adjunct Professor 2010 – 2013

Central Grasslands Research Extension Center (CGREC), North Dakota State University (NDSU), Streeter, ND USA

Assistant Range Scientist/ Adjunct Professor 2006 – 2010
NDSU-CGREC, Streeter, ND USA

Assistant Range Scientist 2002 – 2006
NDSU-CGREC, Streeter, ND USA

Research Specialist 2000 – 2002
NDSU-CGREC, Streeter, ND USA

Research Associate 1999 – 2000
Department of Botany, Duke University, Durham, NC USA

Research Associate Professor 1997 – 1999
Institute of Botany, Chinese Academy of Sciences, Beijing, China

Research Assistant Scientist 1991 – 1997
Institute of Botany, Chinese Academy of Sciences, Beijing, China

TEACHING AND
MENTORING
EXPERIENCE
(52)

5 Postdoctoral Research Associates

4 Visiting Scholars

2 MS Students as Chair/Co-Chair

9 MS Students as Committee Member

8 PhD Students as Committee Member

8 Visiting Graduate Students

12 Undergraduate Students

4 Research Technicians

RESEARCH
GRANTS

From September 2010 to 2025, the total research grants for which Dong has assisted in the development were over \$8.3 million, of which about \$1.6 million went to his research programs.

METRICS OF
PUBLICATIONS

Google Scholar: h-index 28; i10-index 46; Citations 2,989.
ResearchGate: Publications 94; h-index 26; Research interest score 1,335; Reads 15,880; Citations 2,406; Recommendations 36.

BOOK CHAPTERS
(2)

- [1] M. Liebig, X. Dong, J. McLain and C. Dell. 2012. Greenhouse gas flux from managed grasslands in the U.S. In: M. A. Liebig, A. J. Franzluebbers and R. F. Follett (eds): **Managing Agricultural Greenhouse Gases: Coordinated Agricultural Research Through GRACEnet to Address Our Changing Climate.** *Elsevier*. San Diego, CA. Pp 183–202.
- [2] X.-D. Chen, X.-J. Dong and Z.-X. Chen. 1999. Shrub diversity and its restoration ecology in Ordos Plateau Sandland. In: K.-P. Ma (ed.): **Ecosystems Diversity in Key Areas of China**, In Chinese, published by Zhejiang Science and Technology Press, Hangzhou, China. Pp 109–153.

- [1] U. Ahmad, T. F. Duarte, N. Tortorici, D. A. Mott, B. M. McKnight, and X. Dong. 2026. Modeling cotton growth, pod development, and lint yield responses to irrigation and cultivar differences in southwest Texas. To be submitted.
- [2] T. F. Duarte, X. Dong, Daniel I. Leskovar, U. Ahmad, N. Tortorici, T. J. A. Silva, and E. M. Bonfim-Silva. 2026. Net radiation estimation using the Brunt equation for clear sky emissivity and air and canopy temperatures for longwave radiation in well watered crops. To be submitted.
- [3] T. F. Duarte, X. Dong, E. M. Bonfim-Silva, and T. J. A. Silva. 2026. Improving near-surface soil temperature estimation using empirical and numerical methods in crop covered surfaces. Under review
- [4] U. Ahmad, S. Y. Relangi, H. Berger, J. H. Wall, M. Bell, N. Ranells, N. Aryal, X. Dong, D. Sihi, and B. Dari. 2026. Soil health responses to clover-based cover crop mixtures in Southeastern U.S. To be submitted to **Agron. J.**
- [5] U. Ahmad, X. Dong, S. J. Leghari, and G. Hoogenboom. 2026. Modeling mustard water use and its effects on soil water content and subsequent maize performance under projected climate scenarios. **Eur. J. Agron.** 174: 127971. <https://doi.org/10.1016/j.eja.2025.127971>
- [6] T. F. Duarte, X. Dong, S. Malla, U. Ahmad, J. H. Campelo Júnior, T. J. A. Silva, and E. M. Bonfim-Silva. 2025. The concept of soil depletion factor revisited and applied to determine the crop-specific fraction of total available water. Under review
- [7] K. Qin, X. Dong, V. Joshi, C. Lee, J. T. Harvey and D. I. Leskovar. 2025. Biostimulant action of humic substances on plant physiology and metabolism under water and nitrogen stresses. **Plant Stress**
doi: <https://doi.org/10.1016/j.stress.2025.101150>
- [8] Y. Yang, A. B. Bouazza, X. Dong and Q. Zhou. 2025. Bayesian nonlinear PDE inference via Gaussian process collocation with application to the Richards equation. Submitted to **Ann. Appl. Stat.** on October 27, 2025. Preprint is available at [arXiv](https://arxiv.org/abs/2510.18111).
- [9] X. Dong, D. A. Mott, Q. Zhou, and B. M. McKnight 2025. Does sample size of leaf osmotic potential affect the evidence of its association with cotton yield? **J. Arid Environ.** 229, 105387.
<https://doi.org/10.1016/j.jaridenv.2025.105387>
- [10] G. F. Lima, T. F. Duarte, T. J. A. da Silva, E. M. Bonfim-Silva, X. Dong, L. A. M. Meneghetti, and A. S. C. Custódio. 2025. Determination of field capacity in Oxisol by the flux density method, Arya-Paris model and pressure chamber. **Braz. J. Agric. Environ. Eng. (Agriambi)** 29(3): e283074.
DOI: <http://dx.doi.org/10.1590/1807-1929/agriambi.v29n3e283074>

- [11] J. Sunoj V. S., X. Dong, M. V. Joshi, R. W. Jessup, D. I. Leskovar, and D. D. Baltensperger. 2025. Foliar gas exchange, morphology, and cannabinoid contents of three hemp varieties in southwest Texas. **Agrosyst. Geosci. Environ.**, 8(2): e70101. <https://doi.org/10.1002/agg2.70101>
- [12] X. Dong, D. A. Mott, Jhanvi Garg, Quan Zhou, John Sunoj V.S., and B. M. McKnight. 2024. Rapid measurement and statistical ranking of leaf drought tolerance capacity in cotton. In revision Preprint of an earlier version of the manuscript is available at [bioRxiv](https://doi.org/10.1101/2024.03.15.581111).
- [13] T. F. Duarte, E. M. Bonfim-Silva, T. J. A. da Silva, P. F. da Silva, L. A. M. Meneghetti, X. Dong, M. de Oliveira Matosa. 2024. Construction and evaluation of an alternative tension infiltrometer in Oxisol under wood ash management. **Braz. J. Agric. Environ. Eng. (Agriambi)** 28(12): e283076. DOI: <http://dx.doi.org/10.1590/1807-1929/agriambi.v28n12e283076>
- [14] K. Qin, X. Dong, and D. I. Leskovar. 2023. Improving tomato nitrogen use efficiency with lignite-derived humic substances. **Sci. Hort.**, 321: 112243. <https://doi.org/10.1016/j.scienta.2023.112243>
- [15] J. Sunoj Valiarambil Sebastian, X. Dong, C. Trostle, H. Pham, M. V. Joshi, R. W. Jessup, M. D. Burow, and T. L. Provin. 2023. Hemp agronomy: current advances, questions, challenges, and opportunities. **Agronomy**, 13, 475. <https://doi.org/10.3390/agronomy13020475>
- [16] X. Dong, G. Feng, S. Sieckenius and D. I. Leskovar. 2023. Effect of mustard cover crops on corn growth, yield and soil water storage in southwest Texas. **Arid Land Res. Manage.** 37: 265–283 <https://doi.org/10.1080/15324982.2022.2130114>
- [17] P. O. Hinson, C. B. Adams, X. Dong, Q. Xue, S. Thapa, G. Feng, E. Kimura, B. Pinchak, A. Somenahally and A. M. H. Ibrahim. 2022. Path analysis of phenotypic factors associated with grain protein in dryland winter wheat. **J. Crop Improve.** 36: 892–918. <https://doi.org/10.1080/15427528.2022.2042882>
- [18] X. Dong, B. Peng, S. Sieckenius, R. Raman, M. M. Conley, D. I. Leskovar. 2021. Leaf water potential of field crops estimated using NDVI in ground-based remote sensing—opportunities to increase prediction precision. **PeerJ** 9:e12005 <http://doi.org/10.7717/peerj.12005>.
- [19] X. Dong, G. Feng, and I. Zemach. 2021. Using normalized difference vegetation index to estimate sesame drydown and seed yield. **J. Crop Improve.** 35: 508–521. doi: 10.1080/15427528.2020.1846101 Supplementary material is available from <http://doi.org/10.5281/zenodo.4137182>.
- [20] X. Liu, X. Dong, X. Ma, E. B. Blancaflor and J. R. Butnor. 2019. Ground penetrating radar with a high frequency antenna improves root biomass detection in sandy soil-grown winter wheat. **Ground Penetrating Radar**, 2(2): 31–48. doi.org/10.26376/GPR2019006

- [21] B. Peng, X. Liu, X. Dong, Q. Xue, C. B. Neely, T. Marek, A. M. H. Ibrahim, G. Zhang, D. I. Leskovar and J. C. Rudd. 2019. Root morphological traits of winter wheat under contrasting environments. **J. Agro. Crop Sci.** 205: 571–585. <https://doi.org/10.1111/jac.12360>
- [22] K. Qin, X. Dong, J. Jifon and D. I. Leskovar. 2019. Rhizosphere microbial biomass is affected by soil type, organic and water inputs in a bell pepper system. **Appl. Soil Ecol.**, 138: 80–87
- [23] X. Dong, B. Peng, X. Liu, K. Qin, Q. Xue and D. I. Leskovar. 2019. An automated calculation of plant root distribution parameters based on root length density data. **Appl. Ecol. Environ. Res.**, 17: 3545–3552. Supplementary material is available from https://zenodo.org/record/1484655#.XBe_dW17lhE.
- [24] X. Liu, S. Feakins, X. Dong, Q. Xue, J. Han, T. Marek, D.I. Leskovar, C.B. Neely and A.M.H. Ibrahim. 2019. Evaluating leaf wax and bulk leaf carbon isotope surrogates for water use efficiency and grain yield in winter wheat. **Crop Sci.** 59: 718–732. doi: 10.2135/cropsci2018.07.0452.
- [25] Y. J. Zhang, M. Y. Hou, H. Y. Xue, L. T. Liu, H. C. Sun, C. D. Li and X. J. Dong. 2018. Photochemical reflectance index and solar-induced fluorescence for assessing cotton photosynthesis under water-deficit stress. **Biol. Plant.** 62: 817–825. DOI: 10.1007/s10535-018-0821-4
- [26] X. Liu, X. Dong, Q. Xue, D.I. Leskovar, J. Jifon, J.R. Butnor and T. Marek. 2018. Ground penetrating radar (GPR) detects fine roots of agricultural crops in the field. **Plant Soil** 423: 517–531. <https://doi.org/10.1007/s11104-017-3531-3>
- [27] X. Liu, S. Feakins, X. Dong, Q. Xue, T. Marek, D.I. Leskovar, C.B. Neely and A.M.H. Ibrahim. 2017. Experimental study of leaf wax *n*-alkane response in winter wheat cultivars to drought conditions. **Org. Geochem.** 113: 210–223. <http://dx.doi.org/10.1016/j.orggeochem.2017.07.020>
- [28] X. Liu, X. Dong and D. I. Leskovar. 2016. Ground penetrating radar for underground sensing in agriculture: A review. **Int. Agrophys.** Vol 30(4): 533–543. doi: 10.1515/intag-2016-0010
- [29] D. Leskovar, Y. Othman, and X. Dong. 2016. Strip tillage improves soil biological activity, fruit yield and sugar content of triploid watermelon. **Soil Tillage Res.** 163: 266–273.
- [30] X. Dong, W. Xu, Y. Zhang, and D. Leskovar. 2016. Effect of irrigation timing on root zone soil temperature, root growth and grain yield and chemical composition in corn. **Agronomy** 6, 34. doi: 10.3390/agronomy6020034
- [31] Z.-S. Zhang, Y. Zhao, X.-J. Dong, Y.-F. Shi, Y.-L. Chen, Y.-G. Hu. 2016. Evolution of soil respiration depends on biological soil crusts across a 50-year chronosequence of desert revegetation. **Soil Sci. Plant Nutrition** 62(2): 140–149.

- [32] X. Dong. 2016. How to put plant root uptake into a soil water flow model. **F1000Research**, 5:43 (doi: 10.12688/f1000research.7686.1) The revised version (published in August 2022) can be found at <https://doi.org/10.12688/f1000research.7686.2>.
- [33] Z.-S. Zhang, X.-J. Dong, B.-X. Xu, Y.-L. Chen, Y. Zhao, Y.-H. Gao, Y.-G. Hu and L. Huang. 2015. Soil respiration sensitivities to water and temperature in a revegetated desert. **JGR - Biogeosciences** 120(4): 773–787. DOI: 10.1002/2014JG002805
- [34] X. Dong and B. D. Patton. 2015. Predicting soil water retention curves based on particle-size distribution using a Minitab macro. **Afr. J. Soil Sci.** 3(1): 079–085.
- [35] Z.-S. Zhang, Y.-L. Chen, B.-X. Xu, L. Huang, H.-J. Tan and X.-J. Dong. 2015. Topographic differentiations of biological soil crusts and hydraulic properties in fixed sand dunes, Tengger Desert. **J. Arid Land** 7(2): 205–215. doi: 10.1007/s40333-014-0048-y
- [36] X. Dong, J. Patton, L. Gu, J.-Z. Wang and B. Patton. 2014. Leaf photosynthesis and plant competitive success in a mixed-grass prairie: With reference to exotic grasses invasion. **J. Ecosys. Ecograph.** 4: 152. doi: 10.4172/2157-7625.1000152.
- [37] X. Dong D. Leskovar, K. Crosby and T. Marek. 2014. Quantifying crop water use in arid and semi-arid regions: Opportunities based on soil-plant water relations. **J. Arid Land Studies.** 24-1: 141–144.
- [38] Y. Sun, L. Gu, R. E. Dickinson, S. G. Pallardy, J. Baker, Y. Cao, F. M. DaMatta, X. Dong, D. Ellsworth, D. Van Goethem, A. M. Jensen, B. E. Law, R. Loos, S. C. V. Martins, R. J. Norby, D. Weston, K. Winter. 2014. Asymmetrical effects of mesophyll conductance on fundamental photosynthetic parameters and their relationships estimated from leaf gas exchange measurements. **Plant Cell Environ.** 37(4): 978–994.
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- [42] M. A. Liebig, S. L. Kronberg, J. R. Hendrickson, X. Dong, and J. R. Gross. 2013. CO₂ efflux from long-term grazing management systems in a semiarid region. **Agricult. Ecosyst. Environ.** 164: 137–144.
- [43] X. Dong, F.-C. Cheng, D.-J. Wang, G.-J. Wang, B. D. Patton and P. E. Nyren. 2013. Mixed-grass prairie rhizome biomass is influenced by cattle grazing intensity. **Grass Forage Sci.** 68: 199–204. Supplementary material is available from <https://zenodo.org/record/2543916#.XEdXt2l7lhE>.
- [44] J. Chen, W.-H. Wang, F.-H. Wu, C.-Y. You, T.-W. Liu, X.-J. Dong, J.-X. He and H.-L. Zheng. 2013. Hydrogen sulfide alleviates aluminum toxicity in barley seedlings. **Plant Soil** 362: 301–318.
- [45] Z.-S. Zhang, X.-J. Dong, Y.-B. Liu, X.-R. Li, R.-L. Jia, Y.-G. Hu, M.-Z. He, and L. Huang. 2012. Soil oxidases recovered faster than hydrolases in a 50-year chronosequence of desert revegetation. **Plant Soil** 358: 275–287.
- [46] W.-H. Wang, X.-Q. Yi, F.-H. Wu, A.-D. Han, X.-J. Dong, J.-X. He, Z.-M. Pei and H.-L. Zheng. 2012. Calcium-sensing receptor regulates stomatal closure through hydrogen peroxide and nitric oxide in response to extracellular calcium in Arabidopsis. **J. Exp. Bot.** 63(1): 177–190.
- [47] S.-S. Huang, J. Chen, X.-J. Dong, J. Patton, Z.-M. Pei and H.-L. Zheng. 2012. Calcium and calcium receptor CAS promote Arabidopsis thaliana de-etiolation. **Physiol. Plant.** 144(1): 73–82.
- [48] J. Chen, F.-H. Wu, T.-W. Liu, L. Chen, Q. Xiao, X.-J. Dong, Z.-M. Pei and H.-L. Zheng. 2012. Emissions of nitric oxide from 79 plant species in response to simulated nitrogen deposition. **Environ. Pollut.** 160: 192–200.
- [49] X. Pan, D. Shen, X. Dong, B. Patton. 2011. Natural disaster occurrence and average global temperature. **Disaster Adv.** 4(4): 61–63.
- [50] X. Dong, B. Patton, P. Nyren, R. Limb, L. Cihacek, D. Kirby and E. Deckard, 2011. Leaf-water relations of a native and an introduced grass species in the mixed-grass prairie under cattle grazing. **Appl. Ecol. Environ. Res.** 9: 311–331. Supplementary material is available from <https://zenodo.org/record/999711#.WkwSKXIG2U1>.
- [51] J. Chen, F.-H. Wu, W.-H. Wang, C.-J. Zheng, G.-H. Lin, X.-J. Dong, J.-X. He, Z.-M. Pei and H.-L. Zheng. 2011. Hydrogen sulphide enhances photosynthesis through promoting chloroplast biogenesis, photosynthetic enzyme expression, and thiol redox modification in *Spinacia oleracea* seedlings. **J. Exp. Bot.** 62(13): 4481–4493.
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- [55] X.-B. Pan, S.-P. Wang, P. E. Nyren, B. D. Patton, X.-J. Dong and A. Nyren. 2010. Studies on land use of North Dakota state and its instruction to China. **Guangxi Zhiwu / Guihaia** 30(2): 196–201.
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- [59] X. Dong, P. Nyren, B. Patton, A. Nyren, J. Richardson and T. Maresca, 2008. Wavelets for agriculture and biology: A tutorial with applications and outlook. **BioScience** 58: 445–453. The supplemental material was originally posted on the website of the Central Grasslands Research Center. An update of the supplemental material (as of May 27, 2021) can be found at <https://zenodo.org/record/4818184#.Y16uFnbMKUk>.
- [60] B. Patton, X. Dong, P. Nyren and A. Nyren, 2007. Effect of grazing intensity, precipitation and temperature on forage production. **Rangeland Ecol. Manage.** 60: 656–665.
- [61] Z.-Y. Huang, X.-J. Dong, G.-M. Jiang, W.-P. Yuan. 2002. Primary studies on the daily dynamic changes of photosynthesis and transpiration of *Salix psammophila*. **Acta Bot. Boreal.-Occident. Sin.** 22: 817–823.
- [62] X. Dong and X. Zhang. 2001. Some observations of functional adaptations of the sandy shrubs to the arid environment in the Mu Us Sandland: leaf water relations and anatomic features. **J. Arid Environ.** 48: 41–48.
- [63] X. Dong and X. Zhang. 2000. Special stomatal distribution in *Sabina vulgaris* in relation to its survival in a desert environment, **Trees: Struct. Funct.** 14: 369–375.

- [64] K. Guo, X. Dong and Z.-M. Liu. 2000. Characteristics of soil moisture content on sand dunes in Mu Us Sandy Grassland: Why *Artemisia ordosica* declines on old fixed sand dunes. **Acta Phytoecol. Sin.** 24(3): 275–279.
- [65] X.-J. Dong, Z.-X. Chen, J.-Z. Chen and Y.-X. Zhao. 1999. Changes of main water relations parameters in *Pinus tabulaeformis* trees in relation to different soil substrate features in the Mu Us Sandland. **Acta Phytoecol. Sin.** 23: 385–392.
- [66] X.-J. Dong, Z.-X. Chen, B. Alateng, Z.-M. Liu and D. Sideng. 1999. A preliminary study on the water regimes of *Sabina vulgaris* in Maowusu Sandland, China. **Acta Phytoecol. Sin.**, 23: 311–319.
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- [68] X.-J. Dong. 1998. Experimental measurement of the water relations parameters of nine shrubs and some ecological interpretations. **Acta Bot. Sin.** 40: 657–664.
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- [71] X.-R. Li, X.-J. Dong and H.-Y. Zhou. 1997. A preliminary study of the ecological adaptation strategies of the shrubs in different vegetation zones in the Ordos Plateau. **J. Desert Res.** 17(Supp. 3): 42–48.
- [72] Q. Gao, N. Liang and X. Dong. 1997. A modelling analysis on dynamics of hilly sandy grassland landscapes using spatial simulation, **Ecol. Model.** 98: 163–172.
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- [77] X.-J. Dong, B.-Z. Yang, K. Guo, Z.-M. Liu, B. Alateng, S. Han and Y.-X. Zhao. 1994. An investigation on the water physio-ecological characteristics of some psammophytes. **Acta Phytoecol. Sin.**, 18: 86–94.
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CONFERENCE
PAPERS (4)

- [1] X. Dong, B. Patton and P. Nyren. 2013. Responses of plant root and soil microbial respiration to seasonal rain events in a mixed-grass prairie under different grazing intensities. Invited paper presented to **International Symposium on Adaptation of Terrestrial Ecosystems to Climate Change and Future Earth**, Pp 148–158. Edited by G.-S. Zhou, Hubei Hotel-Beijing, China. Jun. 29 - Jul. 1, 2013. (Invited)
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OTHER
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- [3] X. Dong and S. Malla. 2025. Final report to Texas A&M AgriLife Vegetable and Fruit Improvement Center project “Onion management in water stress condition”. 8 pages.

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- [5] X. Dong, D. A. Mott and Q. Zhou. 2023. Technical report on cotton soil water monitoring leaf drought tolerance measurement in southwest and central Texas. **Final report submitted to Cotton Inc.** (36 pages).
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ABSTRACTS (40)

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- [2] *S. Choi, C. Lee, J. T. Harvey, A. Nagila, A. Sharma, X. Dong, and D. I. Leskovar. 2025. Multi-Season Comparison of Lettuce Growth and Water Use in Three Different Hydroponic Systems Types, Deep-Water Culture, Nutrient Film Technique, and Vertical System. ASHS 2025 Annual Conference, 28 July - 1 August, New Orleans, Louisiana, USA.*
- [3] *X. Dong, D. A. Mott, B. M. McKnight. 2025. Leaf Drought Tolerance Traits in Relation to Cotton Lint Yield and Fiber Quality Indices: A Resampling Test on Sample Size. The 2025 Beltwide Cotton Conference, Jan. 14-16, 2025. New Orleans, LA*
- [4] *U. Ahmad, X. Dong, G. Vitale, S. Malla. 2024. Growth and Yield Responses of Onions to Irrigation Management at the Bulbing Stage in Southwest Texas. The 2024 ASA-CSSA-SSSA Annual Meeting, Nov. 10-13, 2024. San Antonio, TX*
- [5] *X. Dong, J. T. Harvey, and D. I. Leskovar, 2024. Leaf gas exchange and canopy temperature characteristics of four guayule varieties growing under field conditions in southwest Texas. The 2024 ASA-CSSA-SSSA Annual Meeting, Nov. 10-13, 2024. San Antonio, TX*
- [6] *X. Dong, T. F. Duarte, and E. A. R. Pinheiro. 2023. Modeling Soil Water Flow and Root Water Uptake of Cotton to Estimate Seasonal Crop Water Use. The 2023 ASA-CSSA-SSSA Annual Meeting, Oct. 29, to Nov. 1, 2023. St. Louis, MO*
- [7] *Q. Xue, X. Dong et al. Drought tolerance traits in winter wheat. 2023. The spring 2023 Texas Small Grains Workers Meeting and the McFadden Symposium. Grapevine, TX. April 24-26, 2023.*
- [8] *J. Sunoj V.S, X. Dong, C. Trostle, H. Pham, M. V. Joshi, R. Jessup, M. D. Burow, and T. L. Provin. 2022. Hemp agronomy - questions, current advances, and opportunities. ASA-CSSA-SSSA Annual Meeting, Baltimore, MD. November 6-9, 2022.*
- [9] *P. O. Hinson, C. Adams, Q. Xue, S. Thapa, X. Dong, G. Feng, C. B. Neely, and F. Guillen-Portal. 2021. Identifying in-Season Phenotypic*

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- [10] P. O. Hinson, C. Adams, Q. Xue, S. Thapa, X. Dong, G. Feng, C. B. Neely, and F. Guillen-Portal. 2020. *Identifying wheat traits associated with consistently high grain protein concentration in the Southern Great Plains. ASA-CSSA-SSSA Virtual Annual Meeting, Nov. 8-11, 2020, Phoenix, AZ.*
- [11] X. Dong, S. Sieckenius, B. Peng, D. Djidonou, D. I. Leskovar. 2019. *Using Ground Penetrating Radar to Detect Root Biomass of Grafted Tomato. ASA-CSSA-SSSA Annual Meeting, San Antonio, TX, Nov. 10-13, 2019.*
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- [23] Y. Zhang, M. Hou, H. Xue, L. Liu, H. Sun, X. Dong, C. Li. *Using Photochemical Reflectance Index and Solar-Induced Fluorescence to Assess Cotton Photosynthesis Under Water-Deficit Stress*. ASA-CSSA-SSSA Annual Meeting, Minneapolis, MN, Nov. 15-18, 2015
- [24] X. Dong, P. Nyren, B. Patton, M. A. Liebig, A. Chatterjee, L. J. Cihacek. *Plant Vs. Environmental Influences on Soil Respiration in a Mixed-Grass Prairie Under Cattle Grazing: A Path Analysis*. ASA-CSSA-SSSA Annual Meeting, Minneapolis, MN, Nov. 15-18, 2015
- [25] X. Dong, B. Speer, Y. Zhang, D. Hathcoat, A.M.H. Ibrahim, C.B. Neely, Q. Xue, T. Marek, J.C. Rudd, D. Leskovar. *Cultivar-Irrigation Interactions in Shoot/Root Traits of 15 Wheat Varieties in Wintergarden Region*. ASA-CSSA-SSSA Annual Meeting, Minneapolis, MN, Nov. 15-18, 2015
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- [27] D. Leskovar, Y. Othman, X. Dong, K. Crosby, Q. Xue, T. Marek. *Water Relations, Gas Exchange, and Yield of Pepper Cultivars Under Water Deficit Stress*. 2015 American Society of Horticultural Science (ASHS) Annual Conference, New Orleans, LA, Aug. 4-7, 2015
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- [2] Ahmad, U., Duarte, T. F., Tortorici, N., Mott, D. A., McKnight, B. M., Dong, X. 2026. *Cotton growth and yield prediction under different irrigations regimes in the semi-arid Texas Wintergarden. The 2026 Beltwide Cotton Conference, Jan. 7-9, 2026. San Antonio, TX*
- [3] Duarte, T. F., Dong, X., Ahmad, U., Tortorici, N., Silva, T. J. A., Bonfim-Silva, E. M. 2026. *Estimation of net radiation in cotton crop using different methodologies. The 2026 Beltwide Cotton Conference, Jan. 7-9, 2026. San Antonio, TX*
- [4] Malla, S., Dong, X., Duarte, T. F., Ahmad, U. 2025. *Irrigation Scheduling in Short-Day Onions. The National Onion Association (NOA) Winter Meeting and the National Allium Research Conference (NARC), Nov. 30 to Dec. 5, 2025. Kauai, Hawaii, USA*
- [5] Dong, X., Mott, D., Zhou, Q., and McKnight, B. 2025. *Drought-tolerance screening, soil water monitoring and Bayesian statistical learning to assist cotton production in southwest Texas. A presentation given to the Texas State Support Committee. Texas A&M AgriLife Research and Extension Center at Lubbock. Dec. 2-3, 2025.*
- [6] Dong, X. 2025. *Plant water potentials: their components and rapid and remote measurement to detect crop water stress in field crops. A seminar organized by Department of Environmental Sciences at the University of Puerto Rico Rio Piedras. February 20, 2025. (Invited - Online)*
- [7] Dong, X. 2024. *Crop Physiology and Agroecology at Texas A&M Uvalde. The Agricultural Engineering Graduate Program, Federal University of Rondonópolis, Mato Grosso, Brazil. December 11, 2024. (Invited)*
- [8] Dong, X., Mott, D. A., Garg, J., Zhou, Q., Sunoj V.S., J., and McKnight, B. M. 2024. *Rapid measurement and statistical ranking of leaf drought tolerance capacity in cotton. Abstract #73. ISPAMED 2024 International Conference. Palermo, Italy. July 11-12, 2024. (Invited)*
- [9] Dong, X. *Plants in relation to water. Invited presentation to the Uvalde County 4-H STEM Project Meeting. Uvalde, TX. April 26, 2024.*

- [10] Dong, X., Mott, D., McKnight, B., and Zhou, Q. 2023. *Drought-tolerance screening, soil water monitoring and Bayesian statistical learning to assist cotton production in southwest Texas. A presentation given to the Texas State Support Committee. Texas A&M AgriLife Research and Extension Center at Lubbock. Nov. 28-29, 2023.*
- [11] Dong, X. *Water in Relation to Soil and Plants in Agriculture. Water Resources Science and Technology Fall Seminar Series. Texas A&M University - San Antonio, November 8, 2023. Videos 15. (Invited)*
- [12] Dong, X., Mott, D., McKnight, B., and Zhou, Q. 2023. *Drought Resistance, Water Use and Water Use Efficiency in Cotton: A Discussion Using Data from Southern Texas. The 2023 ASA-CSSA-SSSA Annual Meeting, Oct. 29, to Nov. 1, 2023. St. Louis, MO*
- [13] Dong, X., Mott, D., McKnight, B., and Zhou, Q. 2023. *Using leaf osmotic potential to evaluate drought tolerance of cotton in southwest Texas. The 2023 Annual Meeting of the Southern Branch of the American Society of Agronomy, Feb. 4-6, 2023. Omni Oklahoma City Hotel, Oklahoma City, OK*
- [14] Sunoj V. S., J., Dong, X., Joshi, M. V., and Jessup, R. W. *Foliar gas exchange, morphology, and cannabinoid profiling of selected genotypes of hemp (Cannabis sativa L. ssp. sativa) in southwest Texas. ASA-CSSA-SSSA Annual Meeting, Baltimore, MD. November 6-9, 2022.*
- [15] Baltensperger, D. D., Redmon, L. A., Jessup, R. W., Thomson, M., Provin, T. L., Hague, S., Bell, J. M., DeLaune, P. B., Noland, R. L., Dong, X., Burow, M. D., Da Silva, J., McGinty, J., Molina-Risco, M., Faion-Molina, M., Bagavathiannan, M., McVane, J. M., and Nolte, S. *Hemp Production Research and Extension. ASA-CSSA-SSSA Annual Meeting, Salt Lake City, UT. November 7-10, 2021.*
- [16] Dong, X., Mott, D. and McKnight, B. M. 2022. *Leaf osmotic potential and morphological traits of 40+ cotton varieties growing in a rainfall gradient from Southwest to Central Texas. The Annual Belt-Wide Cotton Conference. Jan. 4-6, 2022. Marriott Rivercenter, San Antonio, TX*
- [17] Dong, X. 2021. *Drought-tolerance screening and soil water monitoring to assist cotton production in southwest Texas. A presentation given to the Texas State Support Committee. Dec. 1-2, 2021. Lubbock, TX*
- [18] Dong, X. 2021. *Drought tolerance of selected winter wheat varieties: An assessment using leaf osmotic potentials. Small Grain Workers Meeting. Aug. 4-5, 2021. Texas A&M AgriLife Research and Extension Center at Amarillo, TX.*
- [19] Dong, X., Feng, G., Zemach, I. 2021. *Phenotyping of sesame drydown using NDVI – results from southwest Texas. Online International Sesame Symposium, Feb. 23-24, 2021. Hosted by Dr. Kimberly Cochran, Texas A&M AgriLife Extension & Plant Pathologist, Uvalde, Texas*

- [20] Dong, X. 2021. *Can NDVI predict leaf water potential under field conditions? The 2021 Annual Meeting of the Southern Branch of the American Society of Agronomy, Jan. 30- Feb. 1, 2021.*
- [21] Dong, X. and Mott, D. 2021. *Leaf osmotic potential and morphological traits of 43 cotton varieties growing in a rainfall gradient from Southwest to Central Texas. The Annual Belt-Wide Cotton Conference (Virtual Meeting, Jan. 5-7, 2021).*
- [22] Dong, X., Feng, G., Sieckenius S., and Leskovar, D. I. 2020. *Water use, growth and yield of corn affected by previous mustard cover crops. ASA-CSSA-SSSA Virtual Annual Meeting, Nov. 8-11, 2020, Phoenix, AZ.*
- [23] Dong, X. 2020. *Root Water Uptake: Integrating Measurements and Modeling Approaches. Graduate Lecture as part of "Root Biology Part II. Field Applications and Breeding", HFSB 101, Texas A&M University, College Station, TX. March 19, 2020. (Invited)*
- [24] Feng, G., Dong, X., Xue, Q., Adams, C., and Neely, C. 2019. *Using the Osmometer Method to Quantify Drought Tolerance of Winter Wheat Under Field Conditions. ASA-CSSA-SSSA Annual Meeting, San Antonio, TX. November 10-13, 2019.*
- [25] Dong, X. 2019. *Osmotic potential of bulk leaves - Can it be measured rapidly? Educational Seminars Series, Texas A&M AgriLife Research and Extension Center, Uvalde, TX. 10:30 a.m., October 7, 2019.*
- [26] Feng, G., Dong, X., Hinson, P., Xue, Q., Adams, C., and Neely, C. 2019. *Can leaf osmotic potential indicate drought tolerance in winter wheat? Small Grains Workers Meeting, College Station, TX., August 28-29, 2019.*
- [27] Dong, X., Sieckenius, S., Peng, B., Xue, Q., Ibrahim, A. M. H. 2019. *Predicting leaf rust infection rate in winter wheat using normalized difference vegetation index. ASA-Southern Regional Conference, Birmingham, AL., February 3-5, 2019.*
- [28] Peng, B., Dong, X. 2018. *Effects of Environment \times Variety on Root Traits of Winter Wheat. The 2018 Small Grains Workers Meeting, Scotts Miracle Gro Turfgrass Research Facility, 2891 F&B Road, College Station, TX, August 1-2, 2018.*
- [29] Dong, X. 2018. *Soil-plant water relations and crop production in southwest Texas. Soils Critique - The 2018 annual meeting soil researchers, Texas A&M AgriLife Research and Extension Center at Uvalde, Uvalde, TX. July 25-26, 2018.*
- [30] Dong, X. 2018. *Root Water Uptake: Integrating Measurements and Modeling Approaches. Graduate Lecture as part of "Root Biology Part II. Field Applications and Breeding", HFSB 101, Texas A&M University, College Station, TX. March 29, 2018. (Invited)*

- [31] Raman, R., Dong, X., Murray, S., Rooney, W., and Malla, S. 2018. *Identification of yield potential of different corn and sorghum genotypes in southwest Texas. Southern Branch of American Society of Agronomy Annual Meeting. February 4-6, 2018, Jacksonville, FL.*
- [32] Dong, X., Sieckenius, S., Djidonou, D., Leskovar, D.I. *Soil Water Infiltration and Retention Under Saline and Sodic Conditions. The 2017 Annual Meeting of ASA-CSSA-SSSA, Tampa, FL. October 21-25, 2017.*
- [33] Dong, X. *Soil-plant water relations and agricultural crop production in arid regions, a lecture presented at the Cochran Fellowship Program (Turkmenistan and Uzbekistan), Uvalde, TX. June 21-22, 2017.*
- [34] Dong, X. *Root Water Uptake: Integrating Measurements and Modeling Approaches. Graduate Lecture as part of "Root Biology Part II. Field Applications and Breeding", WCBA 290, Texas A&M University, College Station, TX. March 22, 2016. (Invited)*
- [35] Morgan, C. L. S., Bell, J. M., DeLaune, P. B., Dong, X., Lewis, K. L., Foster, J. L. 2015. *Agronomic Management Strategies in Texas: Securing Soil and Improving the Efficiency of Water Use. ASA-CSSA-SSSA Annual Meeting, Minneapolis, MN, Nov. 15-18, 2015*
- [36] Dong, X. 2015. *Ecophysiology of Cropping Systems: An Experience in Southwest Texas, Heep Center, Texas A&M University, College Station, TX. October 21, 2015.*
- [37] Dong, X. *Root distribution and its representation for quantifying plant water uptake: An applied perspective. The 2015 Annual Meeting of ASHS New Orleans, Louisiana. August 4-7, 2015. (Invited)*
- [38] Dong, X., Jones, A., Speer, B., Cothren, J.T., and D. Leskovar. 2015. *Leaf stomatal conductance, transpiration and leaf area growth patterns of four cotton varieties under different irrigation regimes in southern Texas. The Beltwide National Cotton Conference, January 5-7, 2015. San Antonio, TX.*
- [39] Dong, X., Forbes, D., Speer, B., Shallock, J., Rowland and D., Morgan. *Effects of tillage and reduced irrigation on cotton yield in southern Texas. The 2014 Annual Meeting of ASA-CSSA-SSSA, Long Beach, CA. November 2-5, 2014.*
- [40] Dong, X., Leskovar, D., Pierson, B., Pierson L.S., Sharma, S.P., A. Gibby and G. Pape. *Ag1000 soil amendment increased root growth and intrinsic leaf water use efficiency in corn. The 2014 Annual Meeting of ASA-CSSA-SSSA, Long Beach, CA. November 2-5, 2014.*
- [41] Dong, X. 2014. *Yield responses of 15 winter wheat varieties to irrigation in Uvalde. A talk given at the 2014 Small Grains Workers Meeting, College Station, TX, August 12, 2014.*

- [42] Dong, X. 2014. *Role of Breeding to Enhance Plant Roots/Rhizosphere Communities. A talk given to the Grand Networks for Grand Challenges Min-Symposia, Organized by Texas A&M University, College of Agriculture and Life Sciences, College Station, TX. May 15, 2014. (Invited)*
- [43] Dong, X. 2014. *Physiological Traits and Wheat Performance in the Wintergarden Region. A talk given at the Combined Wheat and Vegetable Field Day, Texas A&M AgriLife Research & Extension Center, Uvalde, TX, April 23, 2014.*
- [44] Dong, X., and Patton, B. D. 2014. *Can leaf-level photosynthesis help explain the success of cool-season invasive grasses? A talk given at the Cool-Season Grasses of the Northern Great Plains Workshop, Holiday Inn, Fargo, ND, March 18-19, 2014 (presented by Bob Patton).*
- [45] Dong, X. 2013. *From soil water to soil respiration: An experience in the mixed-grass prairie. A talk given at Texas A&M AgriLife Research & Extension Center, Amarillo, TX, December 18, 2013.*
- [46] Dong, X., Patton, B., and Nyren, P. 2013. *Responses of plant root and soil microbial respiration to seasonal rain events in a mixed-grass prairie under different grazing intensities. International Symposium on Adaptation of Terrestrial Ecosystems to Climate Change and Future Earth, Hubei Hotel-Beijing, China. Jun. 29, 2013. (Invited)*
- [47] Dong, X. 2013. *Photosynthetic capacity of 26 range plant species and its ecological implication. A talk given at the Forage Production Seminar & Research Review, NDSU-Central Grasslands Research Extension Center, Streeter, North Dakota. Mar. 19, 2013.*
- [48] Dong, X. 2012. *Effect of grazing on grassland soil respiration and photosynthesis. A talk to be given to the public on the 31th Annual field tour of NDSU-Central Grasslands Research Extension Center, Streeter, North Dakota. Jun. 27, 2012.*
- [49] Dong, X. 2011. *Soil respiration and its efficiency for rangeland forage production. Oral presentation planned for the NCCC31 2012 Annual Meeting, Bloomington, MN. Jun. 19-21, 2012.*
- [50] Dong, X. 2012. *Soil respiration partitioning in a Missouri Coteau rangeland. A talk given at the Grass & Beef Research Review of NDSU-Central Grasslands Research Extension Center, Streeter, North Dakota. Jan. 25 2012.*
- [51] Dong, X. 2011. *Alfalfa-tall fescue mixtures at CGREC- a part of a multi-regional project in north-central USA. A talk given to the public on the 30th Annual field tour of NDSU-Central Grasslands Research Extension Center, Streeter, North Dakota. Jun. 29, 2011.*
- [52] Dong, X. 2011. *Water cycle, transpiration and root water uptake in plants. A talk given to the 6th Grade class at Medina Public School, ND, USA. Apr. 13, 2011.*

- [53] Dong, X. 2011. *Effect of drought on biomass partitions between two introduced grasses and two native grasses in south-central North Dakota. Oral presentation at NCCC31 2011 Annual Meeting, West Lafayette, IN. Mar. 30-31, 2011.*
- [54] Dong, X. 2010. *Effect of grazing intensity on soil health and how it relates to beef production and carbon sequestration (with Bob Patton and Guojie Wang). A talk given to the public on the 29th Annual field tour of NDSU-Central Grasslands Research Extension Center, Streeter, North Dakota. Jun 23, 2010.*
- [55] Dong, X. 2010. *Soil water dynamics and root water uptake compensation on a mixed-grass prairie: A simulation analysis with implications to forage research and management. Oral presentation at NCCC31 2010 Annual Meeting, Blacksburg, VA. Mar. 31-Apr. 1, 2010.*
- [56] Dong, X. 2010. *Nutrient cycling in a Kentucky bluegrass dominated rangeland: Root water uptake, rhizome growth and root decomposition. An invited talk given to the “Kentucky Bluegrass Ecology Workshop: Identifying what we think we know, what we don’t know, and future direction”, hosted by the “Range Forum” and the N. D. Chapter of Society for Range Management. Mar.16, 2010. Mandan, ND.*
- [57] Dong, X. 2009. *Decomposition of below-ground plant litter: the effects of season and grazing intensity. Oral presentation at NCCC31 2009 Annual Meeting, Grand Rapids, MI. Jun. 24, 2009.*
- [58] Dong, X. 2008. *Wavelet transform in Biological Sciences: Principle, Examples and Outlook. Lecture (invited) given to Department of Economics and Management, Northwestern Nationality University, Lanzhou, China (28 June, 2008), Department of Forestry, Inner Mongolia Agricultural University, Huhhot, Inner Mongolia, China (4 July, 2008) and College of Resources and Environment, The Graduate University of Chinese Academy of Sciences, Beijing, China (10 July, 2008) .*
- [59] Dong, X. 2008. *Effects of grazing on rangeland root biomass: a resampling-aided analysis. Oral presentation at NCCC31 2008 Annual Meeting, Ardmore, OK. Mar. 12-14, 2008.*
- [60] Dong, X. 2008. *Plant roots and soil carbon sequestration on rangelands of South-central North Dakota. A talk given at the Grass & Beef Research Review of NDSU-Central Grasslands Research Extension Center, Streeter, North Dakota. Jan. 2008.*
- [61] Dong, X. 2007. *Statistical resampling of data to increase the sensitivity of statistical tests. Second part of a special talk given to the “Range Forum”, hosted by the N. D. Chapter of Society for Range Management. Nov.19, 2007. Mandan, ND.*
- [62] Dong, X. 2007. *The effects of grazing on root biomass and respiration of perennial plants. First part of a special talk given to the “Range Forum”,*

hosted by the N. D. Chapter of Society for Range Management. Nov.19, 2007. Mandan, ND.

- [63] Dong, X. 2007. *Soil respiration with plant influence: a multidisciplinary research. Oral presentation at NCCC31 2007 Annual Meeting, Columbus, Ohio. Mar. 14-15, 2007.*
- [64] Dong, X. 2006. *Carbon sequestration and exchange: a research overview. A talk given to the public on the occasion of the 25th Anniversary of the NDSU-Central Grasslands Research Extension Center, Streeter, North Dakota. Jun 28, 2006.*
- [65] Dong, X. 2006. *Ecosystem CO₂ exchange in a mixed-grass prairie: effects of grazing and drought. Oral presentation at NCCC31 2006 Annual Meeting, Eureka Springs, Arkansas. Mar. 13-14, 2006.*
- [66] Dong, X. 2005. *Photosynthesis-light curves of 3 seeded species in a Conservation Reserve Program study field. Oral presentation at the Society of Range Management 58th Annual Meeting, Fort Worth, TX. Feb. 05-11, 2005.*
- [67] Dong, X. 2002. *Modeling to assist production agriculture. Oral presentation at the NDSU Central Grasslands Research Extension Center 2002 Grass & Forage Research Review, Jan. 20, 2002.*
- [68] Dong, X. 1999. *Water-relations of desert shrubs in the Mu Us Sandland, China. Oral presentation at Duke University, Department of Botany, Oct. 21, 1999. Durham, NC.*

TRANSLATION
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- [1] X.-J. Dong and S.-Y. Wang. 1999. How to Assess Sustainability? A Chinese translation of an article by Robert Prescott Allen, given at the **IUCN 50th Anniversary Symposium Conference** (3c), pp193–214.

MEDIA
CONTRIBUTIONS
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- [1] P. Schattenberg and X. Dong. Can ‘reading’ leaves lead to more drought-tolerant crops? Study examines the impact of leaf wax on plant survival in harsh climates. *AgriLife TODAY*, [August 17, 2017](#).
- [2] P. Schattenberg, X. Dong and D. Leskovar. Study shows ground-penetrating radar can detect fine roots in crops. *AgriLife TODAY*, [December 14, 2017](#).
- [3] P. Schattenberg, D. Leskovar and X. Dong. Study investigates impact of strip tillage on a high-value crop. *AgriLife TODAY*, [February 13, 2017](#).
- [4] L. Thompson. Texas A&M University, Soil and Crop Sciences Newsletter: *AGGIE Agenda*, October 2013. [Welcome the Department](#).
- [5] K. Eagle. Dong studies water, crops at research center. *Uvalde Leaders News*. [December 1, 2013](#).
- [6] P. Schattenberg. Chinese researchers visiting Uvalde center contributing to Texas cotton improvement. [August 3, 2015](#).

[7] Group from China studying grassland management. Bismarck Tribune. October 29, 2011.

[8] D. Maack. Chinese researcher compares home land to Dakota prairies. Sun Country, The Jamestown Sun (North Dakota). September 16, 2000.

PROFESSIONAL
AFFILIATIONS

- *Ecophysiological Aspects of Forage Management (NCCC-31)*. Served as North Dakota State University representative (2004 - 2013); secretary for the 2010 and 2011 annual meetings and chairperson for the 2012 annual meeting.
- *American Institute of Biological Sciences* (2008 - 2012).
- *Society for Range Management* (2002 - 2012).
- *Crop Science Society of America, American Society of Agronomy, Soil Science Society of America*(2013 - present). ACS - Book and Multimedia Publishing Committee (2017-2024).

REVIEW SERVICE
FOR
INTERNATIONAL
JOURNALS (55)

Acta Geophysica; African Journal of Agricultural Research; Agricultural Water Management; Agriculture; Agriculture, Ecosystems and Environment; Agronomy; Agronomy Journal; Agrosystems, Geosciences & Environment; Analytica Chimica Acta; Arid Land Research and Management; Biosystems Engineering; BMC Plant Biology; Botany; Caspian Journal of Environmental Sciences; Catena; Crop Science; Ecological Research; Environmental Management; Environmental Pollution; European Journal of Agronomy; European Journal of Soil Science; Food Science & Nutrition; Forests; Geoderma; Grass and Forage Science; HortScience; IEEE Transactions on Geoscience and Remote Sensing; Irrigation Science; Journal of Agricultural Extension and Rural Development; Journal of Agronomy and Crop Science; Journal of Animal Science; Journal of Arid Land; Journal of Arid Land Studies; Journal of Environmental and Engineering Geophysics; Journal of Environmental Chemical Engineering; Journal of Environmental Management; Journal of Geophysics and Engineering; Journal of Integrative Agriculture; Journal of Soil Science and Plant Nutrition; Mathematical Geosciences; The Open Ecology Journal; PeerJ; Photosynthetica; Plant Physiology and Biochemistry; Planta; Plant and Soil; PLOS ONE; Rangeland Ecology and Management; Scientific Reports; Soil Science Society of America Journal; Soil & Tillage Research; South African Journal of Plant and Soil; Technology in Agronomy; Transactions of the ASABE; Vadose Zone Journal

EDITORIAL
APPOINTMENTS

- *Irrigation Science*, Associate Editor (2016 - present).
- *Photosynthetica*, Editorial Board Member (2008 - 2009); Associate Editor (2010 - 2013); Editorial Board Member (2014 - 2015); Associate Editor (2015 - present).
- *Arid Land Research and Management*, Associate Editor (2009 - 2023); Editorial Board Member (2024 - present).

COMPUTER
SKILLS

- Programming:
Fortran, True BASIC, Minitab, gnuplot, TikZ, MATLAB, R
- Alternative document preparation tools:
L^AT_EX, B^IB_TE_X

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