

GIRISHA K. GANJEGUNTE

Associate Professor

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Education

Ph.D., Soil Science. Lincoln University, Canterbury, New Zealand.

M.Sc., Agriculture (Soil Science). University of Agricultural Sciences, Bangalore, India.

B.Sc., Agriculture (Major: Soil Science; Minor: Agricultural Microbiology). University of Agricultural Sciences, Bangalore, India.

Present and Experience

Associate Professor, 09/2012-Present. Texas A&M AgriLife Research and Extension Center at El Paso, Dept. Soil & Crop Sciences, Texas A&M University System. Water Resources and Salinity Management.

Assistant Professor, 03/2006-08/2012. Texas A&M AgriLife Research and Extension Center at El Paso, Dept. Soil & Crop Sciences, Texas A&M University System. Conducting research on water and salinity management in the Far West Texas.

Research Scientist (Post-Doctoral), 01/2003-03/2006. Department of Renewable Resources, University of Wyoming, Laramie, Wyoming. Conducted research on management of coalbed natural gas (CBNG) water with elevated salinity in the Powder River Basin (PRB) covering parts of Wyoming and soil carbon sequestration in different ecosystems (rangelands, forest, and reclaimed coal mine lands).

Research Associate, 05/1993-01/2003. Tata Energy Research Institute (TERI), New Delhi, India. Carried out multidisciplinary research related to improved agricultural practices, natural resources management at a watershed scale, evaluation of reclamation practices in open cast coal and lignite mines, identification and management of problematic soils, and climate change impacts on soil-water resources.

Professional Activities and Interest

- Associate Editor, Journal of Environmental Quality, 2018-Present
- ASA, CSSA, SSSA Book and Multimedia Publishing Committee June 2013-Present.
- Served on editorial board of different international journals.
- Grant reviewer -Earth and Life Sciences, Netherlands Organization for Scientific Research, the Netherlands; Wyoming Agriculture Experiment Station Competitive Grants Program; Kearney Foundation of Soil Science
- Chair, Outstanding Young Agricultural Scientist Award Committee, Association of Agricultural Scientists of Indian Origin (AASIO)
- Technical and Review Committee member of Asia-Pacific Chemical, Biological & Environmental Engineering Society
- Co-chair of four graduate student committees, trained 26 undergraduates on lab, greenhouse and field protocols, and supervised four full time technicians.

SELECTED PUBLICATIONS

1. **Ganjugunte, G.K.**, J.A. Clark, M. Parajulee, S. Kumar and J. Enciso. 2018. Evaluation of sulfur burner for salinity management in irrigated cotton fields in the arid west Texas. *Agrosystems, Geosciences & Environment* (Accepted).
2. Suthar, J. D., I. Rajpar, **G.K. Ganjugunte** and Zia-ul-hassan. 2018. Evaluation of Guar (*Cyamopsis tetragonoloba* L.) genotypes performance under different irrigation water salinity levels: Growth parameters and seed yield. *Industrial Crops and Products* (Accepted).
3. Suthar, J. D., I. Rajpar, **G.K. Ganjugunte** and Zia-ul-hassan. 2018. Comparative study of early growth stages of 25 guar (*Cyamopsis tetragonoloba* L.) genotypes under elevated salinity. *Industrial Crops and Products* 123:164–172.
4. **Ganjugunte, G.K.**, G. Niu, A. Ulery, and Y. Wu. 2018. Treated urban wastewater irrigation effects on bioenergy sorghum biomass, quality and soil salinity in an arid environment. *Land Degradation & Development* 29:534–542.
5. Cox, C., L. Jin, **G. K. Ganjugunte**, D. Borrok, V. Lougheed, and L. Ma. 2018. Soil Quality changes due to flood-irrigation in agricultural fields along the Rio Grande in western Texas. *Applied Geochemistry* 90:87-100.
6. **Ganjugunte, G.K.**, G. Niu, A. Ulery, Y. Wu. 2018. Organic carbon, nutrient, and salt dynamics in saline soil and switchgrass (*Panicum virgatum* L.) irrigated with treated municipal wastewater. *Land Degradation & Development* 29: 80-90.
7. **Ganjugunte, G.K.**, B. Leinauer, E. Sevostianova, M. Serena and R. Sallenave. 2017. Soil salinity of an urban park after long-term irrigation with saline groundwater. *Agronomy Journal* 109:3011–3018.
8. **Ganjugunte, G.K.** and J.A. Clark. 2017. Improved Irrigation Scheduling for Freshwater Conservation in the Desert Southwest U.S. *Irrigation Science* 35: 315-326.
9. **Ganjugunte, G.K.**, A. Ulery, G. Niu, Y. Wu. 2017. Effects of Treated Municipal Wastewater Irrigation on Soil properties, Switchgrass Biomass Production and Quality under Arid Climate. *Industrial Crops and Products* 99:60-69.
10. Enciso, J. Jifon, L. Ribera, S.D. Zapata, and **G.K. Ganjugunte**. 2015. Yield, Water Use Efficiency and Economic Analysis of Energy Sorghum in South Texas. *Biomass and Bioenergy* 81:339-344.
11. Szykiewicz, A. D.M. Borrok, **G.K. Ganjugunte**, G. Skrzypek, L. Ma, M. Rearick, and G. Perkins. 2015. Isotopic studies of the Upper and Middle Rio Grande. Part 2 - Salt loads and human impacts in south New Mexico and west Texas. *Chemical Geology* 411:336–350
12. Johnston, C.R. *, G.F. Vance, and **G.K. Ganjugunte**. 2008. Irrigation with Coalbed Natural Gas Co-Produced Water. *Agricultural Water Management* 95:1243-1252.
13. **Ganjugunte, G.K.**, L.A. King^{*,+}, and G.F. Vance. 2008. Cumulative Soil Chemistry Changes from Land Application of Saline–Sodic Waters. Special Issue: Environmental Impacts and Sustainability of Degraded Water Reuse. *Journal of Environmental Quality* 37: S128-S138.
14. Zhao, H., G.F. Vance, **G.K. Ganjugunte**, and M.A. Urynowicz. 2008. Use of Zeolites for Treating Natural Gas Co-Produced Waters in Wyoming, USA. *Desalination* 228:263-276.