Kulbhushan K. Grover
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Education

Ph.D. Agronomy, Pennsylvania State University, University Park, PA
M.S. Agronomy (with distinction), Punjab Agricultural University, Ludhiana, India
B.S. Agriculture (Honors, with distinction), Punjab Agricultural University, India

Professional Experience

2015-continue Associate Professor of Sustainable Crop Production, NMSU, Las Cruces, NM
2009-2014 Assistant Professor of Sustainable Crop Production, NMSU, Las Cruces, NM
2008-2009 Post-doctoral Research Associate, Cornell University, Ithaca, NY
2003-2008 Graduate Research Assistant, Pennsylvania State University, University Park, PA
1996-2003 Assistant Agronomist, Punjab Agricultural University, Ludhiana, India

Awards and Honors

2015 Outstanding Education Publication Award, American Society for Horticultural Sciences
2014 Top Teaching Tip Award, North American Colleges & Teachers of Agriculture, NACTA Journal
2013 Teaching Innovation Award, New Mexico State University Teaching Academy
2013 Educator of the Year Award, NM Department of Agriculture Organic Program
2012 Member, Sigma Xi- The Scientific Research Society, NMSU Chapter
2008 Member, Gamma Sigma Delta, Honor Society of Agric., Penn State Uni. Chapter
2008 Outstanding Graduate Student Award, Northeast ASA-CSSA-SSSA

Professional Affiliations

2016 Chair, American Society of Agronomy Undergraduate Education Community
2006- Member, American Soc. of Agronomy- Crop Sci. Society of America- Soil Sci. Society of America
2014- Member, Soil and Water Conservation Society
2012- Member, International Education Committee, North American College and Teachers of Agriculture, NACTA
2012- Member, American Association for the Advancement of Science

Brief description of research, outreach, and teaching activities

Kulbhushan Grover is involved in research and education in sustainable crop production at New Mexico State University. He teaches courses in plant sciences and sustainable crop production. His teaching has involved an emphasis on experiential learning and organic agriculture. His research interests include investigation of cover crops and crop rotations for improving soil quality in the desert southwest; and testing of alternative specialty crops suited for arid agriculture. He currently serves or served as PI or Co-PI on projects funded through agencies including USDA-NIFA and NM Department of Agriculture involving research and extension focus on various sustainable practices including demonstration and evaluation of cover crops, evaluating guar as alternative crop for semi-arid desert southwest. His extension activities include dissemination of information on sustainable management practices at various forums in the region. He serves as Associate Editor for Agron. Journal and Canadian J. of Plant Sci. He has served on NIFA grant review panels and also serves on the advisory committee of the Western Sustainable Agriculture Research & Education (WSARE) NM region.

Selected Publications

- Darapuneni, M.K., O.J. Idowu, B. Sarihan, D. DuBois, **K. Grover**, S. Sanogo, K. Djaman, L.M. Lauriault, M. Omer and S. Dodla. 2021. Growth Characteristics of Summer Cover Crop Grasses and Their Relation to Soil Aggregate Stability and Wind Erosion Control in Arid Southwest. ASABE Journal. *In press.*
- Darapuneni, M.K., L.M. Lauriault, S. Dodla, O.J. Idowu, **K. Grover**, G. Martinez, K. Djaman, and S. Angadi. 2019. Temporal variations in plant and soil characteristics following strip-till manure application. *Soil Tillage Research* 194(104350), 1-9.
- **Grover, K**. 2019. Linking Classroom to the Real-World through Engaging Students with Producers and extension faculty. Teaching note. *NACTA J.*
- **Grover, K.** and R. Montgomery. (2019). Engaging Students in Active Experiential Learning through Designing a Crop Rotation Project. Teaching note. *NACTA J*
- Suthar, J.D., I. Rajpar, G. K. Ganjegunte, Z. Shah, G. Niu and **K. Grover**. 2019. Germination, Growth, and Ion Uptake of 15 Guar Accessions under Elevated Salinity. Agrosystems, Geosciences & Environment 2019 2:190020
- Darapuneni, M.K., O.J. Idowu, L.M. Lauriault, S.K. Dodla, K. Pavuluri, S. Ale, **K. Grover** and S.V. Angadi. 2019. Tillage and nitrogen rate effects on corn production and residual soil characteristics. *Agronomy J.* 111(3), 1-9.
- Sandhu, D., M.V. Pudussery, J.F.S. Ferreira, X. Liu, A. Pallete, **K. Grover** and K. Hummer. 2019. Variable salinity responses and comparative gene expression in woodland strawberry genotypes. *Scientia Horticulturae* 254: 61-69.
- Sharma, P., A. Singh, C.S. Kahlon, A. S. Brar, **K. Grover**, M. Dia, R. L. Steiner. 2018. The role of cover crops towards sustainable soil health and agriculture-a review paper. *Am. J. Plant Sci.* 9, 1935-1951.
- Singh, S., S. Angadi, K. Boote, **K. Grover**. 2017. Estimating water balance, evapotranspiration and water use efficiency of spring safflower using the CROPGRO model. *Agricultural Water Management* 185, 137-144.
- Singla, S., **K. Grover**, S. Angadi, S. Begna, B. Schutte, D. VanLeeuwen. 2016. Growth and yield of guar (*Cyamopsis tetragonoloba L.*) genotypes under different planting dates in the semi-arid southern high plains. American J. Plant Sciences 7(8):1246-1258.
- Singla, S., **K. Grover**, S. Angadi, B. Schutte, D. VanLeeuwen. 2016. Guar stand establishment, physiology and yield responses to planting dates in southern New Mexico. *Agronomy Journal* 108(6), 2289-2300.
- Singh, S., Angadi, S., St Hilaire, R., **Grover, K**., VanLeeuwen, D. 2016. Spring Safflower Performance under Growth Stage Based Irrigation in the Southern High Plains. *Crop Science* 56(4):1-12.
- Singh, S., Angadi, S., **Grover, K**., St Hilaire, R., Begna, S. 2016. Effect of growth stage based irrigation on soil water extraction and water use efficiency of spring safflower cultivars. *Agricultural Water Management* 177, 432-439.
- Singh, S., Angadi, S., **Grover, K**., Begna, S., Auld, D. 2016. Drought response and yield formation of spring safflower under different water regimes in the semiarid Southern High Plains. *Agricultural Water Management* 163, 354-362.
- Singh, S., Boote, K. J., Angadi, S., **Grover, K**., Begna, S., Auld, D. 2016. Adapting the CROPGRO model to simulate growth and yield of spring safflower in semi-arid conditions. *Agronomy Journal* 108(1), 64-72.