

Curriculum Vita

Shad D. Nelson, Ph.D.

Professor and Dean

Dick & Mary Lewis Kleberg College of Agriculture and Natural Resources

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EDUCATION

Ph.D.	University California-Riverside	Aug 1998	Soil Science
M.S.	Brigham Young University	May 1995	Agronomy
B.S.	Brigham Young University	May 1993	Horticulture Science

EMPLOYMENT HISTORY

Academic

2016-Present	Dean, Dick and Mary Lewis Kleberg College of Agriculture and Natural Resources Texas A&M University-Kingsville
2006-2016	Chair, Department of Agriculture, Agribusiness and Environmental Sciences Texas A&M University-Kingsville
2012-Present	Professor, Department of Agriculture, Agribusiness and Environmental Sciences Texas A&M University-Kingsville
2006- 2012	Associate Professor, Department of Agriculture, Agribusiness and Environmental Sci. Texas A&M University-Kingsville
2001-2006	Assistant Professor, Department of Agronomy and Resource Sciences Texas A&M University-Kingsville

Non-Academic

1998-2001	Post-doctoral Research Associate, Gainesville, Florida and Fresno, California US Department of Agriculture-Agricultural Research Service
1991-1996	Graduate Teaching Assistant, Soil Science laboratory courses University of California-Riverside, and Brigham Young University

LIST OF COURSES TAUGHT

Texas A&M University-Kingsville

PLSS 1407	General Plant Science and Laboratories
PLSS 3319	Landscape Design and Laboratories
PLSS 3334	Weed Control
PLSS 3344	Fruit and Vegetable Production and Laboratories
PLSS 3381	Crop Physiology
PLSS 3410	Introduction to Soil Science and Laboratories
PLSS 3995	Internship
PLSS 4313	Landscape Maintenance and Construction and Laboratories
PLSS 4331	Greenhouse Crop Production and Laboratories
PLSS 4332	Plant Propagation and Laboratories
PLSS 4390	Turf Management
PLSS 4390	Research Experimentation
PLSS 6326	Soil Chemistry

PRESENTATIONS

International, National, State, Regional and Local

Nelson, Shad D. has over 50 sole author professional meeting presentation and over 250 coauthor professional meeting presentations with collaborating scientists and students.

RESEARCH AND SCHOLARLY ACTIVITIES

Funded Grants

Nelson, Shad D. has received over 17.8 million dollars as project director and as co-project director at Texas A&M University—Kingsville, 2002-current.

SERVICE ACTIVITIES

Nelson, Shad D. has received over 18 years of service membership appointments at university, college, department and professional societies while at Texas A&M University—Kingsville, 2002-current.

HONORS AND AWARDS

Friend of Conservation. 1st place award. Soil and Water Conservation Districts of Texas, Region III. 2018 Texas Conservation Awards Program. 2018.

Distinguished Researcher Award. TAMUK Javelina Alumni Association. 2017.

Texas Commission on Environmental Quality (TCEQ), Environmental Excellence Award: Agriculture. 2017. TexasAWE Citrus Water Conservation, Texas Project for Ag Water Efficiency.

Friend of Conservation Award. Kleberg-Kenedy Soil & Water Conservation District. 2017.

Blue Legacy Award in Agriculture. Texas State Water Conservation Advisory Council, March 2015.

Senior Research Award. Dick & Mary Lewis Kleberg College of Agriculture, Natural Resources and Human Science. 2014.

J. Creighton Miller, Jr. Distinguished Educator Award. Southern Region of the American Society of Horticultural Science. 2014.

Texas Commission on Environmental Quality (TCEQ) Environmental Excellence Award. 2011. Agriculture, Water Conservation, Ag Demonstration Initiative Project with Harlingen Irrigation District.

Senior Research Award. Dick & Mary Lewis Kleberg College of Agriculture. 2009.

TCEQ Environmental Excellence Award. Agriculture, Rio Grande Basin Initiative. 2008.

Presidential Excellence Award in Teaching. College of Agriculture, TAMUK. 2004.

Certificates of Recognition. USDA-ARS Water Management Research Lab, Fresno, California. 2000 and 2001.

Outstanding Student Award. American Society of Agronomy. Department of Agronomy and Horticulture, Brigham Young University. 1992-1993.

Eagle Scout Award. Boy Scouts of America. 1983.

PUBLICATIONS

Refereed Journal Articles

- Simpson, C.R., J.C. Melgar, S.D. Nelson, and M. Setamou. 2019. Grapefruit tree growth and yield responses under different grove floor management strategies for water conservation. *Scientia Horticulturae*. (in press).
- Semida, W.M., H.R. Hussein, M. Setamou, C.R. Simpson, T.A. Abd El-Mageed, M.M. Rady, and S.D. Nelson. 2019. Biochar implications for sustainable agriculture and environment: A review. *South African Journal of Botany (SAJB)*. 127:333-347.
- Fuentes, C., J. Enciso, S.D. Nelson, J. Anciso, M. Setamou, and S. Elsayed-Farag, 2018. Yield production and water use efficiency under furrow and drip irrigation systems for watermelon in south Texas. *Subtropical Ag and Environments Journal*. 69:1-7.
- Ruppert, D.E., D. Wester, and S.D. Nelson. 2017. Residual compost carryover on soil health and biology in a citrus-supporting Ustoll. *Subtropical Ag and Environments Journal*. 68:18-29.
- Sétamou, M.; C.R. Simpson; O. J. Alabi; S.D. Nelson; S. Telagamsetty; J.L. Jifon. 2016. Quality matters: Influences of citrus flush physiochemical characteristics on population dynamics of the Asian citrus psyllid (Hemiptera: Liviidae). *PLOS ONE* (DOI:10.1371/journal.pone.0168997). pg 18.
- Kusakabe, A, B.A. Contreras-Barragan, C.R. Simpson, J. Enciso, S.D. Nelson, and J.C. Melgar. 2016. Application of partial rootzone drying to improve irrigation water use efficiency in grapefruit trees. *Ag Water Management*. 178:66-75.
- Contreras-Barragan, B.A., A. Kusakabe, J.C. Melgar and S.D. Nelson. 2016. Understanding partial rootzone drying in citrus. *Acta Horticulturae*. 1135:123-130.
<http://dx.doi.org/10.17660/ActaHortic.2016.1135.15>
- Simpson, C.R., S.D. Nelson, J.C. Melgar, S. King, J. Jifon, G. Schuster, and A. Volder. 2015. Effects of salinity on physiological parameters of grafted and ungrafted citrus trees. *Scientia Horticulturae*. 197:483-489.
- Simpson, C.R., S. King, S.D. Nelson, J. Jifon, G. Schuster, and A. Volder. 2015. Salinity evaluation for watermelon (*Citrullus lanatus*) grafted with different rootstocks. *Subtropical Ag and Environments Journal*. 66:1-6.
- Enciso, J., S.D. Nelson, H. Perea, V. Uddameri, N. Kannan, and A. Gregory. 2014. Impact of residue management and subsurface drainage on non-point source pollution in the Arroyo Colorado. *Sustainability of Water Quaity. and Ecology*. 3-4:25-32. (published May 2015).
- Melgoza, F.J., A. Kusakabe, S.D. Nelson, and J.C. Melgar. 2014. Exogenous applications of abscisic acid to increase freeze tolerance in Citrus trees. *International Journal of Fruit Science*. 14:376-387.
- Simpson, C.R., S.D. Nelson, J.C. Melgar, S. King, J. Jifon, G. Schuster, and A. Volder. 2014. Growth response of grafted and non-grafted citrus trees to saline irrigation. *Scientia Horticulturae*. 169:199-205.
- Williams, C.F., J.E. Watson, and S.D. Nelson. 2014. Comparison of equilibrium and non-equilibrium distribution coefficients for the human drug carbamazepine in soil. In X. Cao, I. Cousins, J. de Boer, and K. Kummerer (Eds.) *Environmental Chemistry. Chemosphere*. 95:166-173.
- Nelson, S.D., J.M. Enciso, H. Perea, M. Setamou, L. Beniken, M. Young, and C. Williams. 2013. Alternative flood irrigation strategies that improve water conservation in citrus. *Subtropical Plant Science Journal*. 65:15-23.
- Perea, H., J. Enciso, J. Jifon, S. Nelson, and C. Fernandez. 2013. Performance of tensiometer and granular matrix soil moisture sensors in irrigated light, medium, and heavy textured soil. *Subtropical Plant Science Journal*. 65:1-7.
- Williams, C.F., J.E. Watson, S.D. Nelson, and C.W. Walker. 2013. Sorption/desorption of lincomycin from three arid region soils. *Journal of Environmental Quality*. 42:1460-1465.

- Nelson, S.D., H.A. Ajwa, T. Trout, M. Stromberger, S.R. Yates and S. Sharma. 2013. Water and methyl isothiocyanate distribution in soil after drip fumigation. *Journal of Environmental Quality*. 42:1555-64.
- Ajwa, H.A., D.A. Sullivan, M.T. Holdsworth, R.D. Sullivan, and S.D. Nelson. 2013. Reduction of Methyl Isothiocyanate Atmospheric Emissions after Application of Metam Sodium by Shank Injection. *Journal of Environmental Quality*. 42:1652-1660.
- Nelson, S.D., M. Young, R. Hanagriff, and S. Klose. Mar. 2012. An evaluation of flood irrigation and compost use in South Texas Rio Red grapefruit production: Are there economic values? *The Journal of American Academy of Business, Cambridge*. 17(2):23-29.
- Setamou, M., A. Sanchez, J. Patt, S. Nelson, and E. Louzada. 2012. Diurnal patterns in flight activity and effects of light on host finding behavior of the Asian citrus psyllid. *Journal of Insect Behavior*. 25:264-276.
- Nelson, S.D., M. Young, J. Enciso, S.L. Klose, and M. Setamou. 2011. Impact of irrigation method on water savings and 'Rio Red' grapefruit pack-out in South Texas. *Subtropical Plant Science Journal*. 63:14-22.
- Simpson, C.R., S.D. Nelson and H.A. Ajwa. 2011. Impact of soil texture and organic matter content on MITC volatilization from soil columns. *Journal of Agricultural Science & Technology*. A1:194-198.
- Williams, C.F., and S.D. Nelson. 2011. Comparison for rhodamine-WT and bromide as a tracer for elucidating internal wetland flow dynamics. *Ecological Engineering*. 37:1492-1498.
- Simpson, C.R., S.D. Nelson, J.E. Stratmann, and H.A. Ajwa. 2010. Surface water seal application to minimize volatilization loss of methyl isothiocyanate from soil columns. *Pest Management Science*. 66:686-692.
- Uckoo, R.M., G.K. Jayaprakasha, S.D. Nelson, and B.S. Patil. 2010. Rapid simultaneous determination of amines and organic acids in citrus using high-performance liquid chromatography. *Talanta*. 83:948-954.
- Setamou, M., D. Rodriguez, R.R. Saldana, G. Schwarzlose, D. Palrang and S.D. Nelson. 2010. Efficacy and uptake of soil-applied imidacloprid in the control of Asian citrus psyllid and citrus leafminer, two foliar feeding citrus pests. *Journal of Economic Entomology*. 103:1711-1719.
- Reddy, V.P., K. Madhurababu, S.D. Nelson, J.V. da Graca and M. Skaria. 2010. Gene expression studies in sour orange and C-22 rootstocks challenged with the fungus, *Phytophthora nicotiana* and the nematode, *Tylenchulus semipenetrans*. *Pest Technology*. 4 (Special Issue 1): 29-34.
- Uckoo, R.M., J.M. Enciso, I.W. Wesselmann, K. Jones and S.D. Nelson. 2009. Impact of compost application on citrus production under drip and microjet spray irrigation systems. In: Tennant P, Benkeblia N (Eds) Citrus II. *Tree and Forestry Science and Biotechnology*. 3 (Special Issue 1): 59-65.
- Wiedenfeld, B., J. Enciso, J. Jifon, S. Nelson, and J. Sauls. 2009. Fertilization programs for 'Rio Red' grapefruit (*Citrus paradisi* Macf.) in South Texas. *International Journal of Fruit Science*. 9(3):201-210.
- Enciso, J., B. Wiedenfeld, J. Jifon, and S. Nelson. 2009. Onion yield and quality response to two irrigation scheduling strategies. *Scientia Horticulturae*. 120:301-305.
- Nelson, S.D., R.M. Uckoo, H. Esquivel, J.M. Enciso, and K. Jones. 2008. Effect of compost in 'Rio Red' grapefruit production in a heavy textured soil. In: Hao X-Y (Ed) Compost I. *Dynamic Soil, Dynamic Plant*. 2 (Special Issue 1): 67-71.
- Uckoo, R.M., S.D. Nelson, K.J. Shantidas, and J.M. Enciso. 2005. Irrigation and fertilizer efficiency in South Texas grapefruit production. *Subtropical Plant Science Journal*. 57:23-28.
- Enciso, J.M., J.W. Sauls, R.P. Wiedenfeld, and S.D. Nelson. 2005. Irrigation of citrus in Texas-A Review. *Subtropical Plant Science Journal*. 57:16-22.

- Nelson, S.D., D.W. Dickson, H.A. Ajwa, and D.A. Sullivan. 2004. Efficacy of metam sodium under drip and surface spray application in Florida tomato production. *Journal of the Rio Grande Valley Horticultural Society*. 56:16-20.
- Ben-Hur, M., J. Letey, W.J. Farmer, C.F. Williams, and S.D. Nelson. 2003. Soluble and solid organic-matter effects on atrazine adsorption in cultivated soils. *Soil Science Society of America Journal*. 67:1140-1146.
- Ajwa, H. A., T. Trout, J. Mueller, S. D. Nelson, R. Soppe, and D. Shatley. 2002. Application of alternative fumigants through drip irrigation systems. *Phytopathology*. 92:1349-1355.
- Nelson, S. D., S. J. Locascio, L. H. Allen, Jr., D. W. Dickson, and D. J. Mitchell. 2002. Soil flooding and fumigant alternatives to methyl bromide in tomato and eggplant production. *HortScience*. 37:1057-1060.
- Nelson, S. D., C. Riegel, L. H. Allen, Jr., J. Gan, D. J. Mitchell, D. W. Dickson, and S. J. Locascio. 2001. The volatilization of 1,3-dichloropropene in Florida plasticulture and its effects on fall squash production. *Journal of the America Society of Horticultural Science*. 126:496-502.
- Riegel, C., S. D. Nelson, D. W. Dickson, L. H. Allen, Jr., and L. G. Peterson. 2001. Efficacy of 1,3-dichloropropene in soil amended with compost and unamended soils. *Supplemental Journal of Nematology*. 33:289-293.
- Nelson, S. D., L. H. Allen, Jr., J. Gan, C. Riegel, D. W. Dickson, S. J. Locascio, and D. J. Mitchell. 2000. Can virtually impermeable films reduce the amount of fumigant required for pest-pathogen management in high value crops? *Soil Crop Science Society of Florida Proceedings*. 59:85-89.
- Nelson, S.D., W.J. Farmer, J. Letey, and C.F. Williams. 2000. Stability and mobility of napropamide complexed with dissolved organic matter in soil columns. *J. Environ. Qual.* 29:1856-1862.
- Nelson, S.D., J. Letey, W.J. Farmer, C.F. Williams, and M. Ben-Hur. 2000. Herbicide application method effects on napropamide complexation with dissolved organic matter. *J. Environ. Qual.* 29:987-994.
- Williams, C. F., M. Agassi, J. Letey, W. J. Farmer, S. D. Nelson, and M. Ben-Hur. 2000. Mediated transport of napropamide by dissolved organic matter through soil columns. *Soil Science Society of America Journal*. 64:590-594.
- Williams, C. F., J. Letey, W. J. Farmer, S. D. Nelson, and M. Ben-Hur. 1999. Efficiency of hexane extraction of napropamide from Aldrich humic acid and soil solutions. *Journal of Environmental Quality*. 28:1751-1757.
- Williams, C. F., W. J. Farmer, J. Letey, and S. D. Nelson. 1999. Design and characterization of a new dialysis chamber for investigating dissolved organic matter-napropamide complexes. *Journal of Environmental Quality*. 28:1757-1760.
- Williams, C. F., W. J. Farmer, J. Letey, and S. D. Nelson. 1999. Molecular weight of dissolved organic matter-napropamide complex as affected by napropamide-soil application methods. *Journal of Environmental Quality*. 28:1429-1435.
- Nelson, S.D., J. Letey, W.J. Farmer, C.F. Williams, and M. Ben-Hur. 1998. Facilitated transport of napropamide by dissolved organic matter in sewage sludge amended soil. *Journal of Environmental Quality*. 27: 1994-2000.
- Nelson, S.D. and R.E. Terry. 1996. The effects of soil physical properties and irrigation method on denitrification. *Soil Science*. 161: 242-249.

Curriculum Vita

Nonrefereed Articles

Nelson, Shad D. and M. Young have published over 10 extension related publications regarding water conservation in citrus and crop production systems in Texas A&M AgriLife System.

Books, Chapters, Monographs, etc.

Nelson, S.D., C.R. Simpson, H.A. Ajwa, and C.F. Williams. 2012. Chapter 24: Evaluating surface seals in soil columns to mitigate methyl isothiocyanate volatilization. *In* M.L. Larramendy and S. Soloneski (Eds.) *Integrated Pest Management and Pest Control - Current and Future Tactics*. Intech-Open Access Publisher. pages 567-580. ISBN: 978-953-51-00508.

Letey, J., C. F. Williams, W. J. Farmer, S. D. Nelson, M. Agassi, and M. Ben-Hur. 2000. The role of dissolved organic matter in pesticide transport through soil. *In* L. J. Ross (Ed.) *Agrochemical Movement: Perspective and Scale*. American Chemical Society. pages 347-360.