

Eugenia Pena-Yewtukhiw

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Education Background

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| 2003 | Soil Science (Soil Physics and Hydrology). University of Kentucky. |
| 1995 | Soil Science (Soil Chemistry). Central University of Venezuela. |
| 1985 | B.S. Agronomic Engineering. Central University of Venezuela. |

Employment Record

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| 2011-present | Associate Professor (Soil Physics and Management), Division of Plant and Soil Sciences, West Virginia University. |
| 2005-2011 | Assistant Professor (Soil Physics and Management), Division of Plant and Soil Sciences, West Virginia University. |
| 2003-2005 | Post-Doctoral Scholar, Dep. of Plant and Soil Sciences, University of Kentucky. |
| 1997-2003 | Graduate Research Assistant, Agronomy Dep., University of Kentucky. |
| 1994-1997 | Assistant Professor for research and instruction in Soil/Water Conservation and Management and Land Evaluation and Classification, Agronomy and Soil Science Department, Central University of Venezuela. |
| 1987-1994 | Instructor for teaching Soil/Water Conservation and Management and Land Evaluation and Classification, Agronomy and Soil Science Department, Central University of Venezuela. |
| 1990 | Contract Investigator for INTEVEP (Venezuelan Research Institute for Petroleum and Its Byproducts) project titled "Feasibility of use of Phosphogypsum as Fertilizer and as a Soil Amendment" in the program for "Development of New Fertilizers". |
| 1983-1985 | Research Assistant in Pedology, Land Classification, and Evaluation; Soil Science Department, Central University of Venezuela. |
| 1983-1985 | Teaching Assistant in Root Crops; Agronomy Department, Central University of Venezuela. |
| 1981-1983 | Teaching Assistant in Soil Science; Soil Science Department, Central University of Venezuela. |
| 1980-1981 | Teaching Assistant in Physics, Agricultural Engineering Department, Central University of Venezuela. |

Other Professional Work Experience

- 1987-1996 Private consultant in forage, sugar cane and horticultural crop production for Itabana Hacienda (San Carlos, Cojedes State), Las Palmas Hacienda (El Vigia, Merida State), El Platanal Hacienda (Valencia Lake, Carabobo State), Los Bajos Hacienda (Cagua, Aragua State).
- 1993-1996 Private consultant in polo, baseball and soccer sport field establishment and maintenance for Leones del Caracas Baseball Club, Asociacion Deportiva Cocodrilos Miranda Sports Club and Club de Campo Polo Club.
- 1995-1996 Evaluation and treatment of historical trees (common name is Ceiba de San Francisco) in Caracas, Venezuela.

Honors and Awards

- 2012 Davis College Plant and Soil Sciences Division Teaching Award.
- 2010 Davis College Plant and Soil Sciences Division Researcher Award.
- 2010 Gamma Sigma Delta Junior Faculty Award for Merit (Excellence in Teaching and Research).
- 2008 West Virginia University Davis College of Agriculture, Forestry and Consumer Sciences Faculty Development Award.
- 2007 West Virginia University Davis College of Agriculture, Forestry and Consumer Sciences Faculty Development Award.
- 2002 University of Kentucky Distinguished Visiting Professor Dissertation Award.
- 2001 Potash and Phosphate Institute's J. Fielding Reed Fellowship.
- 2000 North Central Extension-Industry Soil Fertility Conference Outstanding Kentucky Graduate Student Award.
- 2000 University of Kentucky Research Challenge Trust Fund Fellowship.
- 1998-2001 University of Kentucky Commonwealth Research Award.
- 1998 University of Kentucky Commonwealth Research Award.
- 1997 Inducted into the Gamma Sigma Delta Society.
- 1996-1998 SIVENSA-LASPAU-FULBRIGHT Scholarship.
- 1994 CONICIT (National Council for Scientific and Technical Research – Venezuela) Young Researcher Award.
- 1986 CONICIT Scholarship – M.S. research program.
- 1985 B.S. – Valedictorian - Magna Cum Laude: First in graduating class of 220 individuals.

Professional Affiliation

- Member, American Society of Agronomy
- Member, Soil Science Society of America
- Member, Crop Science Society of America

Member, International Precision Agriculture

Member, North American College and Teachers of Agriculture

Gamma Sigma Delta Honor Society

Associate Graduate Faculty, Department of Plant and Soil Sciences, University of Kentucky (2011-2014)

Funded Grant Writing Experience

Grove, J.H., M.S. Coyne, E. Perfect, J.A. Thompson, **E.M. Pena-Yewtukhiw**, and C.E. Kiger. Evaluating Nutrient Removal as a Basis for Nutrient Management in Rolling Landscapes Receiving Animal Waste and/or Fertilizer Inputs. USDA-CSRS Special Grant-Precision Agriculture-Phase II. 8/15/00-8/31/03. \$71,130.

Thompson, J.A., J.H. Grove, and **E.M. Pena-Yewtukhiw**. Quantitative Soil-Landscape Modeling to Define Landform Management Segments Transferable to Agricultural Fields Across a Soil Physiographic Region. USDA-CSRS Special Grant-Precision Agriculture-Phase II. 8/15/00-8/31/03. \$63,300.

Grove, J.H., **E.M. Pena-Yewtukhiw**, and M.S. Coyne. Spatial Variation in Available Soil Nitrogen. USDA-CSRS Special Grant-Precision Agriculture-Phase IV. 9/15/02-9/15/05. \$60,000.

Lee, C.D., J.H. Grove, **E.M. Pena-Yewtukhiw**, and D.B. Egli. Matching Soybean Cultivars to Soils. Kentucky Soybean Promotion Board. 4/01/03-3/31/05. \$6,000.

Grove, J.H., **E.M. Pena-Yewtukhiw**, C.D. Barton, and J.A. Thompson. Precision Management of Carbon Sequestration. USDA-CSRS Special Grant-Precision Resource Management-Scope F. 9/15/04-9/14/07. \$74,999.

Grove, J.H., **E.M. Pena-Yewtukhiw**, G.J. Schwab and C.R. Dillon. Refined Recommendations for Precision P, K and Lime? USDA-CSRS Special Grant-Precision Resource Management-Phase II. 9/15/05-9/14/07. \$39,949.

Grove, J.H., **E.M. Pena-Yewtukhiw**, O. Wendroth, E.M. D'Angelo and Brian Lee. Defining Soil Resource Management Areas Causing Watershed P Loss. USDA-CSRS Special Grant-Precision Resource Management-Phase II. 9/15/05-9/14/08. \$61,259

Thompson, J.A. and **E.M. Pena-Yewtukhiw**. Seasonal Infiltration and Subsurface Water Dynamics across Benchmark Soil Catenas of Eastern West Virginia. Oct 2005. USDA-NRCS. \$231,610

Pena-Yewtukhiw, E.M.. Urban soils course. West Virginia University Faculty Senate. General Education Curriculum Mini Grant Competition 2005. Feb 2005-Sep 2006. \$2,500.

Pena-Yewtukhiw, E.M., Susan Andrews, J.H. Grove and Lee Norfleet. Determining the scale dependency of soil quality indicators, and specific EPIC output parameters for selected BMP's using field and map information. Nov 2006-Sep 2009. USDA-NRCS. \$144,770.42.

Pena-Yewtukhiw, EM. Global Workshop on HIGH RESOLUTION Digital Soil Sensing & Mapping. Sydney, Australia. Davis College of Agriculture, Forestry and Consumer Sciences Faculty Development Fund Awards Committee Feb 2008

Pena-Yewtukhiw, EM., and J. Skousen. Determining the Soil Hydrologic Group of Mine Soils. National

Technology Transfer Team Applied Science Program; Office of Surface Mining Reclamation & Enforcement. Aug 2008-Sep 2011. \$45,482.

Grove, J.H., *E.M. Pena-Yewtukhiw*, G. Henson, and J.A. Thompson. Surface Soil Hydrology: Management Driven or Map Predicted? USDA-CSRS Special Grant-Precision Agriculture-Phase IV. 9/15/08-9/15/11. \$74,998.

Yong, C., E. Rayburn, *E. M. Pena-Yewtukhiw*, D. Scott, I. Wolford, M. Bennett, T. Basden. Precision Nutrient Management Using a System Approach in Karsts Geology. NRCS-USDA/Commidity Corporation - Innovation Conservation Grant (ICG). 09/21/09-09/20/2011. \$194,766.

Pena-Yewtukhiw, E.M., J. Skousen, and J.H. Grove. Spatial nutrient detection for agronomic and environmental nutrient management at different scales. WVDA-WVDEP; FY'2009 Chesapeake Bay Program Signatory Implementation Grant; Reductions in Nutrients and Sediment Loads from the West Virginia Headwaters of the Chesapeake Bay Watershed EPA-R3-CBP-09-03. May 2009-Apr 2010. \$60,000.

Pena-Yewtukhiw, E.M. Effect of animal and compost input on soil bulk density, aggregation, aggregate stability and carbon stratification in an organic farm rotation. West Virginia University Senate Grant. July 2010-June 2011. \$15,000.

Anderson, J.T., *E. M. Pena-Yewtukhiw*, K. Piatek, P. Turk. Influence of natural stream channel design on sediment in the Cacapon Watershed. Canaan Valley Institute. May 2009-July 2012. \$75,006.

Basden, T., L.M. McDonald, *E. M. Pena-Yewtukhiw*, T. Griggs. Comprehensive Nutrient Management Planning. NRCS- Comprehensive Nutrient Management. Sep 2014-Sep 2016. \$260,000.

Verlinden, S., N. L. Waterland, L. Jett, Y. Moon, J. Skousen, L. McDonald, and *E. M. Pena-Yewtukhiw*. Comprehensive Strategy for Maximizing High Tunnel Efficiency and Profit for Growers in West Virginia. Sep 2016-Sep 2018. \$363,302.

Invited Presentations

Parks, B., and *E.M. Pena-Yewtukhiw*. 2012. Grazing impacts on soil physical properties, runoff and sediment production. Mid-Atlantic Crop Management School. Ocean City, MD. November 13-15.

Grove, J.H., and *E.M. Pena-Yewtukhiw*. 2010. C and N Coupling Through Time: Soil C, N and Grain Yield in a Long-Term Continuous Corn Trial. 10th International Conference on Precision Agriculture (CD-ROM). Denver, Colorado. July 19-23.

Pena-Yewtukhiw, E.M., J.H. Grove, S. Andrews and M.L. Norfleet. 2009. Determining the scale dependency of soil quality indicators using field and map information. Natural Resource Conservation Service – National Geospatial Development Center. 11-12 Feb. Morgantown, WV.

Grove, J.H., *E.M. Pena-Yewtukhiw*, M. Diaz-Zorita and R.L. Blevins. 2009. Soil C and N: Inputs and current status in a long-term continuous corn N-tillage trial. Annual Meeting of the Soil Science Society of America, 1-5 November, Pittsburg, PA. (Paper 53288).

Grove, J.H., *E.M. Pena-Yewtukhiw*, M. Diaz-Zorita and R.L. Blevins. 2009. Fertilizer N and SOC in

managed landscapes: Coupled, confounded and confused. Int. Sym. Soil Organic Matter Dynamics: Land Use, Management and Global Change. 6-7 July, Colorado Springs, CO.

- Pena-Yewtukhiw, E.M.** 2008. Questions regarding the potential, and the limitations, to use of NDVI sensor technology in your fields. 9th International Conference on Precision Agriculture, Denver, CO. July 20-23.
- Grove, J.H. and **E.M. Pena-Yewtukhiw**. 2007. Future of precision corn nutrient management. Pasa-PetroBras Agronomist Update. 15 August, Rosario, Argentina.
- Pena-Yewtukhiw, E.M.**, J.A. Thompson, and J.H. Grove. 2006. Short, intermediate and large scale variance in selected properties of Crider soils in Kentucky's Pennyroyal physiographic region. Annual Meeting of the Soil Science Society of America, Indianapolis, Indiana. Nov. 12-16.
- Grove, J.H., and **E.M. Pena-Yewtukhiw**. 2006. Management zones. Eight International Conference on Precision Agriculture and other Precision Source Management. July 23-26. Minneapolis, Minnesota.
- James Thompson, Amanda C. Moore, Rob E. Austin, and **Eugenia Pena-Yewtukhiw**. 2006. Multiscale Terrain Analysis to Improve Landscape Characterization and Soil Mapping. 18th World Congress of Soil Science. July 9-15. Philadelphia, Pennsylvania.
- Grove, J.H., **E.M. Pena-Yewtukhiw**, R.I. Barnhisel, L.W. Murdock, M.J. Bitzer, and P.L. Howe. 2003. Meeting the challenge of improving the productivity of eroded areas. Annual Meeting of the American Society of Agronomy, Denver, Colorado. Nov. 2-6.
- Pena-Yewtukhiw, E.M.**, and J.H. Grove. 2001. Environmental quality management using the site specific approach. Third European Conference on Precision Agriculture (3ECPA), Montpellier, France. June 18-20.
- Pena-Yewtukhiw, E.M.**, and J.H. Grove. 2001. Some considerations and examples of precision agriculture research in the United States. 15th Latin American Soil Science Congress, Varadero, Cuba. Nov 11-16.
- Pena-Yewtukhiw, E.M.**, J.H. Grove, E.G. Beck, and J.S. Dinger. 2001. Site-specific approach to define the nitrate point source contaminating a domestic well. Annual Meeting of the Soil Science Society of America, Charlotte, North Carolina. Oct. 21-25.

Published Papers

- Pena-Yewtukhiw, E.M.**, J.H. Grove, and G. Schwab. 2015. Fertilizer N rate prescription, interpretational algorithms and individual sensor performance in an array. *Agronomy Journal*. J. 107: 1691-1700. <http://dx.doi.org/doi:10.2134/agronj14.0573>
- Pena-Yewtukhiw, E.M.**, J.H. Grove, C. Griffin, and K. Fetter. 2015. NDVI readings as a predictor of *Miscanthus x giganteus* Biomass. *Precision Agriculture'15*. J.V. Stafford (Ed). Wageningen Academic Press. 111-118. ISBN: 978-90-8686-267-2
- Grove, J.H., and **E.M. Pena-Yewtukhiw**. 2015. Spatial Dependence of Dynamic Soil Properties Depends on Soil Management. *Precision Agriculture'15*. J.V. Stafford (Ed). Wageningen Academic. 217-224.

ISBN: 978-90-8686-267-2

- Pena-Yewtukhiw, E.M.**, and J.H. Grove. 2013. Strip –crop rotations: yield spatial structure for spatially coincident and temporally subsequent corn and soybean production. Precision Agriculture’13. J.V. Stafford (Ed). Wageningen Academic Press. 275-282. ISBN: 978-90-8686-224-5
- Skousen, J., T. Cook, and **E. Pena-Yewtukhiw**. 2013. Survival and growth of chestnut backcross seeds and seedlings on surface mines. J. Env. Qual. 42: 690-695.
- Chaudhuri, S., L.M. McDonald, **E.M. Pena-Yewtukhiw**, J. Skousen, and M. Roy. 2013. Chemically stabilized soil organic carbon fractions in a reclaimed minesoil chronosequence: Implications for soil carbon sequestration. Environmental Earth Sciences. 70: 1689-1698. doi: 10.1007/s12665-013-2256-8
- Chaudhuri, S., L.M. McDonald, J. Skousen, and **E, M. Pena-Yewtukhiw**. 2013. Soil organic carbon molecular properties: Effects of time since reclamation in a reclaimed minesoil chronosequence. Journal of Land Degradation and Development. 4 MAR 2013. doi: 10.1002/ldr.2202
- Thompson, J.A., M. Harman., L.M. McDonald, **E.M. Pena-Yewtukhiw**, and J. Beard. 2013. Phosphorus Translocation in Pastures on Benchmark Soils in West Virginia. Soil Horizons 2013 54. doi:10.2136/sh12-12-0037
- Chaudhuri, S., **E.M.Pena-Yewtukhiw***, L.M. McDonald, J. Skousen, and M. Sperow. 2012. Minesoil Surface Carbon Sequestration Due to Reclamation Chronology. Soil Science. 177: 443-450.
- Gwo-Shing Sun, PhD1, Janet C. Tou, PhD2, Debra A. Reiss-Bubenheim, MS3, Esther L. Hill, PhD1, Kurt W. Liittschwager, PhD1, Beverly E. Girten, PhD3 & **Eugenia Pena-Yewkukhiw, PhD4**. 2012. Oxidative and nutrient stability of a standard rodent spaceflight diet during long-term storage. Lab Animal Europe. 12. No 10. (http://www.labanimaleurope.eu/Current_Issue/resource.asp).
- Sun GS, Tou JC, Reiss-Bubenheim DA, Hill EL, Liittschwager KW, Girten BE, **Pena-Yewkukhiw E**. 2012. Oxidative and nutrient stability of a standard rodent spaceflight diet during long-term storage. Lab Anim (NY). 41:252-259.
- Skousen, J., C. DeLong, and **E.M. Pena-Yewtukhiw**. 2012. Bulk Density of Rocky Mine Soils in Forestry Reclamation. Soil Science Society of America. 76:1810-1815
- Pena-Yewtukhiw, E.M.**, J.H. Grove, and G.J. Schwab. 2011. Impact of individual sensor performance when array sensor number is reduced. Precision Agriculture’11. J.V. Stafford (Ed). Wageningen Academic Press. 480-490. ISBN: 978-80-904830-2-6
- Grove, J. H., M.M. Navarro, and **E.M. Pena-Yewtukhiw**. 2011. Detecting abiotic stress in soybean with a proximal canopy sensor. Precision Agriculture’11. J.V. Stafford (Ed). Wageningen Academic Press. 523-532. ISBN: 978-80-904830-2-6
- Chaudhuri, S., **E.M. Pena-Yewtukhiw**, L.M. McDonald, J. Skousen, and M. Sperow. 2011. Land use effects on sample size requirements for soil organic carbon stock estimations. Soil Science. 176:110-114.
- Harman, M.B., J.A. Thompson, **E.M. Pena-Yewtukhiw**, L.M. McDonald, and J. Beard. 2011. Preferential flow in pastures on benchmark soils in West Virginia. Soil Science. 176:509-519.

- Pena-Yewtukhiw, E.M.**, J.H. Grove, E.G. Beck, and J.S. Dinger. 2009. Nitrate contamination of a domestic well by an abandoned feedlot: I. Detection and characterization of the nitrate sourcing area. *Soil Science* 174:56-64.
- Skousen, J., J. Gorman, **E. Pena-Yewtukhiw**, J. King, J. Stewart, P. Emerson, and C. DeLong. 2009. Hardwood tree survival in heavy ground cover on reclaimed land in West Virginia: moving and ripping effects. *Journal of Environmental Quality* 38:1400-1409.
- Pena-Yewtukhiw, E.M.**, and J.H. Grove. 2009. Rotation and the temporal stability of landscape defined management zones: A time series analysis. *Precision Agriculture'09*. J.V. Stafford (Ed). Wageningen Academic Press, 567-574.
- Grove, J.H., **E.M. Pena-Yewtukhiw**, M. Diaz-Zorita, and R.L. Blevins. 2009. Does fertilizer N "burn up" soil organic matter? *Better Crops With Plant Food* 93(4):6-8.
- Yohn, C.W., T. J. Basden, E. B. Rayburn, **E. M. Pena-Yewtukhiw**, and T. J. Fullen. 2009. Stimulating interest and adoption of precision agriculture methods on small farm operations. *EFITA Conference'09*. J.V. Stafford (Ed). Wageningen Academic Press, 455-461.
- Pena-Yewtukhiw, E.M.**, G. Schwab, J.H. Grove, L.W. Murdock and J.T. Johnson. 2008. Spatial analysis of early wheat canopy NDVI: Determining appropriate observation scale. *Agronomy Journal* 100:454-462.
- Pena-Yewtukhiw, E.M.**, J. Thompson, and J.H. Grove. 2007. The scale dependency of terrain attributes impacts their relationship to corn grain yield in rolling landscapes. *Precision Agriculture'07*. J.V. Stafford (Ed). Wageningen Academic Press, pp:117-123. ISBN: 978-90-8686-024-1.
- Grove, J. H., and **E.M. Pena-Yewtukhiw**. 2007. The potential of "precision" recommendations for site-specific phosphorus, potassium and lime applications. *Precision Agriculture'07*. J.V. Stafford (Ed). Wageningen Academic Press. p: 689-695. ISBN: 978-90-8686-024-1.
- Pena-Yewtukhiw, E.M.**, and G. Schwab. 2006. Univariate distribution analysis to evaluate variable rate fertilization. *Agronomy Journal* 98: 554-561.
- Thompson, James A., **Eugenia M. Pena-Yewtukhiw**, and John H. Grove. 2006. Soil-landscape modeling across a physiographic region: topographic patterns and model transportability. *Geoderma* 133:57-70.
- Wendroth, O., S. Koszinski, and **E. Pena-Yewtukhiw**. 2006. Spatial association between soil hydraulic properties, soil texture and geoelectrical resistivity. *Vadose Zone Journal* 5:341-355.
- Pena-Yewtukhiw, E.M.**, G.J. Schwab, O. Wendroth, T.S. Stombaugh, and L.W. Murdock. 2005. Change in spatial variability structure of NDVI readings related to observation scale. *Precision Agriculture'05*. J.V. Stafford (Ed). Wageningen Academic Press, p. 353-359. ISBN: 9076998698.
- Schwab, G.J., **E.M. Pena-Yewtukhiw**, T.S. Stombaugh, O. Wendroth, and L.W. Murdock. 2005. Wheat yield population response to variable rate N fertilization strategies using active NDVI sensors. *Precision Agriculture'05*. J.V. Stafford (Ed). Wageningen Academic Press, p. 235-241. ISBN: 9076998698.
- Wendroth, O., A. Giebel, **E.M. Pena-Yewtukhiw**, K.C. Kersebaum, G.J. Schwab, H.I. Reuter, L.W. Murdock and T.S. Stombaugh. 2005. Spatial relation between NDVI and grain yield: Impact of

spatial resolution and measurement device. Precision Agriculture'05. J.V. Stafford (Ed). Wageningen Academic Press, p. 731-739.

Pena-Yewtukhiw, E.M., J.H. Grove, J.A. Thompson, and C.E. Kiger. 2001. New technologies and analytical tools for fertilizer recommendations? Better Crops With Plant Food 85:18-22.

Published Papers - Proceedings

Pena-Yewtukhiw, E.M., D. Mata-Padrino, and W. Bryan. 2010. Impact of winter grazing on forage biomass-topography-soil strength spatial relationships. 10th International Conference on Precision Agriculture (CD-ROM). Denver, Colorado. July 19-23.

Pena-Yewtukhiw, E.M., and J.H. Grove. 2010. Crop rotation impacts 'temporal sampling' needed for landscape-defined management zones. 10th International Conference on Precision Agriculture (CD-ROM). Denver, Colorado. July 19-23.

Grove, J.H., and **Pena-Yewtukhiw, E.M.** 2010. C and N Coupling Through Time: Soil C, N and Grain Yield in a Long-Term Continuous Corn Trial. 10th International Conference on Precision Agriculture (CD-ROM). Denver, Colorado. July 19-23.

Skousen, J., R. Thorne, and **E.M. Pena-Yewtukhiw**. 2010. Survival and growth of Chestnut hybrid seeds and seedlings on mountaintop surface mines in West Virginia. 2010 Joint Mining Reclamation Conference (CD-ROM). Pittsburg, PA. June 4-10.

Skousen, J., T. Keene, C. DeLong, **E. Pena-Yewtukhiw**, and T. Cook. 2009b. Survival and growth of five chestnut seed stock types on mountaintop surface mines in West Virginia. p. 1276-1291. In: Proceedings, 2009 National Meeting of the American Society of Mining and Reclamation, Billings, MT, June 1-5, 2009. ASMR, Lexington, KY.

Pena-Yewtukhiw, E.M., and J.H. Grove. 2008. Individual Sensor Performance and Interpretational Algorithms in a Sensor Array. 9th International Conference on Precision Agriculture (CD-ROM). Denver, Colorado. July 20-23.

Grove, J.H., and **E.M. Pena-Yewtukhiw**. 2008. The benefits to grid sampling depend upon mathematical structure of fertilizer phosphorus and potassium recommendations. 9th International Conference on Precision Agriculture (CD-ROM). Denver, Colorado. July 20-23.

Yohn, C.W., T. J. Basden, E. B. Rayburn, **E. M. Pena-Yewtukhiw**, and T. J. Fullen. 2008. Stimulating interest and adoption of precision agriculture methods on small farm operations. 9th International Conference on Precision Agriculture (CD-ROM). Denver, Colorado. July 20-23.

Pena-Yewtukhiw, E.M., and J.H. Grove. 2006. Spatial structure of corn grain composition and the potential for in-field grain quality segregation. 8th International Conference on Precision Agriculture (CD-ROM). Minneapolis, Minnesota, July 23-26.

Grove, J.H., and **E.M. Pena-Yewtukhiw**. 2005. Using spatial analysis to optimize continuous field manure applications without adverse environmental impact. Symposium on the State of the Science in Animal Manure and Waste Management, San Antonio, Texas. Jan. 5-7.

- Grove, J.H. and *E.M. Pena-Yewtukhiw*. 2005. Soil test phosphorus sampling strategies to optimize manure application in agricultural fields. Symposium on the State of the Science in Animal Manure and Waste Management, San Antonio, Texas. Jan. 5-7.
- Grove, J.H., *E.M. Pena-Yewtukhiw*, and J.A. Thompson. 2005. Corn grain yield in rolling landscapes: Terrain attributes or surface soil properties? Proc. 8th Int. Conf. Precision Agriculture. Minneapolis, Minnesota. (CD-ROM), July 25-28, 2004.
- Walton, R.J., J.H. Grove, *E.M. Pena-Yewtukhiw*, and O.B. Wendroth. 2005. Poultry litter contribution to soil water retention for soils under no-till management. Kentucky Water Resources Research Institute Annual Symposium, March 3. Lexington, KY.
- Pena-Yewtukhiw, E.M.*, and J.H. Grove. 2004. Spatial/temporal probabilistic distribution of soil moisture in a well-drained Paleudalf as influenced by landscape. Proc. 8th Int. Conf. Precision Agriculture. Minneapolis, Minnesota. (CD-ROM), July 25-28.
- Pena-Yewtukhiw, E.M.*, J.H. Grove, and J.A. Thompson. 2003. Role of topography in the probability of response of no-till corn yield response to in-row fertilization. p. 51-58, Proc. Southern Plant Nutrient Management Conf. (CD-ROM), Olive Branch, Mississippi. Oct. 7-8.
- Grove, J.H., and *E.M. Pena-Yewtukhiw*. 2002. Spatial analysis of soil nitrate or grain N removal for phytoremediation of post-harvest soil nitrate. Proc. 6th Int. Conf. Precision Agriculture. Minneapolis, Minnesota (CD-ROM), July 14-17.
- Pena-Yewtukhiw, E.M.*, J.H. Grove, and J.A. Thompson. 2002. Probability of response of no-till corn to in-row fertilization: Role of topography in a karst landscape. Proc. 6th Int. Conf. Precision Agriculture. Minneapolis, Minnesota (CD-ROM), July 14-17.
- Thompson, J.A., J.H. Grove, *E.M. Pena-Yewtukhiw*, and C.E. Kiger. 2002. Soil-landscape modeling for defining landform management segments transferable across a physiographic region. Proc. 6th Int. Conf. Precision Agriculture. Minneapolis, Minnesota (CD-ROM), July 14-17.
- Pena-Yewtukhiw, E.M.*, and J.H. Grove. 2001. Algunas consideraciones y ejemplos sobre la investigacion en Agricultura de Precisión en EUA. (in Spanish). XV Latin American Soil Science Congress. Varadero, Cuba. (CD-ROM), Nov. 11-16.
- Grove, J.H., and *E.M. Pena-Yewtukhiw*. 2000. Fertilizer recommendations based upon nutrient removal or soil testing: a spatial analysis. V16:123-131. In: J. Gerwing (ed). Proc. 30th North Central Extension-Industry Soil Fertility Conference. St. Louis, Missouri. Nov. 15-16. Potash and Phosphate Institute.
- Pena-Yewtukhiw, E.M.*, J.H. Grove, and E.G. Beck. 2000. Nonparametric geostatistics/probabilistic sourcing of nitrate to a contaminated well. Proc. 5th Int. Conf. Precision Agriculture and Other Resource Management. Minneapolis, Minnesota. (CD-ROM), July 16-19.
- Grove, J.H., *E.M. Pena-Yewtukhiw* and J.A. Thompson. 2000. Spatially probabilistic evaluation of the benefit of starter fertilizer to no-till corn. Proc. 5th Int. Conf. Precision Agriculture and Other Resource Management. Minneapolis, Minnesota. (CD-ROM), July 16-19.

- Bonacina, D.Y., and ***E.M. Pena-Yewtukhiw***. 2015. Grassland in the Cacapon Watershed WV: Assessing soil surface particle movement due to erosion. International Annual Meeting of the Soil Science Society of America, 15-18 November, Minneapolis, MN.
- Masters, J., and ***E.M. Pena-Yewtukhiw***. 2015. Relationship between *Miscanthus x giganteus* growth and soil properties in response to residual fertility and time. International Annual Meeting of the Soil Science Society of America, 15-18 November, Minneapolis, MN.
- Bonacina, D.Y., ***E.M. Pena-Yewtukhiw***, and J. Anderson. 2015. Chesapeake Bay pollution: assessing soil surface particle and organic matter movement in managed grassland in the Cacapon watershed WV. International Annual Meeting of the Soil Science Society of America, 15-18 November, Minneapolis, MN.
- McDonald, L.M., ***E.M. Pena-Yewtukhiw***, and Clarisse Auvinet. 2015. *Miscanthus sinensis* yields and Soil Fertility in Response to Compost Amendment in an Organic System. International Annual Meeting of the Soil Science Society of America, 15-18 November, Minneapolis, MN.
- Mata-Padrino, D.Y., ***E.M. Pena-Yewtukhiw***, W. Bryan, and E. Felton. 2015. Effect of spring-summer management strategies on forage mass and botanical composition during stockpile in a Fescue Hayfield used for Winter Grazing. International Annual Meeting of the Soil Science Society of America, 15-18 November, Minneapolis, MN.
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