

Multistate Research Activity Accomplishments Report
W2186 – 2012 Publication List

Journal Articles

- Al-Hammouri, W. Lindemann, S. Sanogo, S. Thomas, and R. Steiner. 2012. Interaction between *Rhizoctonia solani* and *Meloidogyne incognita* on chile pepper in soil infested simultaneously with both plant pathogens. Canadian Journal of Plant Science (in press).
- Aoki, S., Sipes, B., Astorga, C., and Nagai, C. 2012. Resistance of semi-wild *Coffea arabica* L. from Ethiopia to a root knot nematode, *Meloidogyne konaensis*. Nematropica 42:131-136.
- Bliss, T., T. O. Powers, and C. E. Brassil. 2010. The spatial influence of aboveground diversity on belowground communities. Ecosphere 1(2/3):art7. doi:10.1890/ES10-00040.1.
- Brito, J. A., R. Kaur, R. Cetintas, J. D. Stanley, M. L. Mendes, T. O. Powers, and D. W. Dickson. 2010. *Meloidogyne* spp. infecting ornamental plants in Florida. Nematropica 40:87-103.
- Cadena-Burkett, M., N. Kokalis-Burelle, K. S. Lawrence. E. van Santan, J. S. Kloepper. 2008. Suppressiveness of root-knot nematodes mediated by rhizobacteria. Biological Control 47: 55-59.
- Castillo, J. D., K. S. Lawrence, J. W. Kloepper, and E. van Santen. 2010. Evaluation of *Drechlerella dactyloides*, *Drechlerella brochopaga*, and *Paecilomyces lilacinus* for biocontrol of *Rotylenchulus reniformis*. Nematropica 40:71-86.
- Castillo, J. D., and K. S. Lawrence. 2011. First report of *Catenaria auxiliaris* parasitizing the reniform nematode *Rotylenchulus reniformis* on cotton in Alabama. Plant Disease 95:490.
- Donald, P.A., Heinz, R., Bernard, E., Hershman, D., Hensley, D., Flint-Garcia, S., and Joost, R. 2012. Distribution, host status and potential sources of resistance to *Vititidiera zeaphila*. Nematropica 42: 91-95.
- Ferris, H., Griffiths, B.S., Porazinska, D.L., Powers, T.O., Wang, K-H, Tenuta, M. 2012. Reflections on plant and soil nematode ecology: past present and future. Journal of Nematology 44:115-126.
- Kandouh, B. and Sipes, B. 2011. Susceptibility of red potato cultivars (*Solanum tuberosum* L.) to the root-knot nematode *Meloidogyne incognita*. Journal of Nematology 43:256-257.
- Klass, J.R., D.P.C. Peters, J.M. Trojan, and S. Thomas. 2012. Nematodes as an indicator of plant-soil interactions associated with desertification. Journal of Applied Soil Ecology 58:66-77.
- Lawrence, G. W., R. A. Doshi, R. L. King, K. S. Lawrence, and J. Caceres. 2008. Nematode management using remote sensing technology, self-organized maps and variable rate nematicide applications. Proc. World Cotton Research Conference 4. Lubbock, Texas, September 10-14, 2007.

Lawrence, K. S., A. J. Price, G. W. Lawrence, J. R. Jones, and J. R. Akridge. 2008. Weed hosts for *Rotylenchulus reniformis* in cotton fields rotated with corn in the southeast United States. *Nematropica* 38:13-22.

Marahatta, S.P., Wang, K.-H., and Sipes, B. 2009. Effects of a strip-till cover cropping system on nematode communities. *Journal of Nematology* 41:352-353.

Marahatta, S.P., Wang, K.-H., Sipes, B.S., and Hooks, C.R.R. 2010. Strip-till cover cropping for managing nematodes, soil microarthropods and weeds in a bitter melon agroecosystem. *Journal of Nematology* 42:111-119.

Marahatta, S.P., Wang, K.-H., Sipes, B.S., and Hooks, C.R.R. 2012. Effects of *Crotalaria juncea* on the anhydrobiotic state of *Rotylenchulus reniformis*. *Nematropica* 42:34-40.

Marahatta, S.P., Wang, K.-H., Sipes, B.S., and Hooks, C.R.R. 2012. Effects of the integration of sunn hemp and soil solarization on plant-parasitic and free-living nematodes. *Journal of Nematology* 44:72-79.

Marahatta, S.P., Wang, K.-H., Sipes, B.S., and Hooks, C.R.R. 2012. Effects of *Tagetes patula* on active and inactive stages of root-knot nematodes. *Journal of Nematology* 44:26-30.

Matsye PD, Lawrence GW, Youssef RM, Kim K-H, Matthews BF, Lawrence KS, Klink VP. 2012. The expression of a naturally occurring, truncated allele 4 of an a-SNAP gene suppresses plant parasitic nematode infection. *Plant Molecular Biology* 80: 131-155.

McDonald IV, L. W., Goheen, S. C., Donald, P. A., and Campbell J. A. 2012. Identification and quantitation of various inositols and o-methylinositols present in plant roots related to soybean cyst nematode host status. *Nematropica* 42:1-8.

National Conference Proceedings

Moore, S. R., K. S. Lawrence, and F. J. Arriaga. 2012. The effect of soil water availability on the interaction of *Rotylenchulus reniformis* and cotton in multiple soil types. *Proceedings of the Beltwide Cotton Conference*, Vol. 1:307-312. National Cotton Council of America, Memphis, Tennessee. <http://www.cotton.org/beltwide/proceedings/2005-2012/index.html>

Palacharla, P. K., R.L. King, and G.W. Lawrence. 2012. Nematode detection service web services for the nematode detection model based on the multi-temporal data of cotton. *Proceedings of the Beltwide Cotton Conference*, Vol. 1:260-267. National Cotton Council of America, Memphis, TN. www.cotton.org/beltwide/proceedings/2005-2011/index.html

Robbins, R. T., E. Shipe, P. Arelli, P. Chen, G. Shannon, K. M. Rainey, L. E. Jackson, E. E. Gbur, D. G. Dombek, & J. T. Velie. 2012. Reniform nematode reproduction on soybean cultivars and breeding lines in 2011. *Proceeding of the 2012 Beltwide Cotton Conferences*, Orlando, Florida, January 3-6, 2012. P 223-233.

Rothrock, C. S., S. A. Winters, J. D. Barham, A. B. Beach, M. B. Bayles, P. D. Colyer, T. Kelley, R. C. Kemerait, G. W. Lawrence, K. S. Lawrence, G. B. Padgett, P. M. Phipps, G. L. Sciumbato, R. Thacker, and J. E. Woodward. 2012. Report of the cottonseed treatment committee for 2011. Proceedings of the Beltwide Cotton Conference, Vol. 1:279-286. National Cotton Council of America, Memphis, TN. www.cotton.org/beltwide/proceedings/2005-2011/index.html

Schrimsher, D. W., K. S. Lawrence, S. R. Moore, R. B. Sikkens, and D. B. Weaver. 2012. Performance evaluation of LONREN-1 genotypes in response to nematicides. Proceedings of the Beltwide Cotton Conference, Vol. 1:301-306. National Cotton Council of America, Memphis, Tennessee. <http://www.cotton.org/beltwide/proceedings/2005-2012/index.html>

Schrimsher, D. W., K. S. Lawrence, J. W. Kloepper, and E. van Santen. 2012. Systemic and localized effects of *Bacillus firmus* GB-126. Proceedings of the Beltwide Cotton Conference, Vol. 1:257-259. National Cotton Council of America, Memphis, Tennessee. <http://www.cotton.org/beltwide/proceedings/2005-2012/index.html>

Showmaker, K., G.W. Lawrence, S. Lu, C. Balbalian, V.P. Klink, and K.S. Lawrence. 2012. Detection of *Rotylenchulus reniformis* from soil with real-time quantitative PCR. Proceedings of the Beltwide Cotton Conference, Vol. 1:250-255. National Cotton Council of America, Memphis, TN. www.cotton.org/beltwide/proceedings/2005-2011/index.html

Vetter, J., Z. Ou, L. Murray, S.H. Thomas, and J. Schroeder. 2012. Determining the effectiveness of including spatial information into a nematode/nutsedge pest complex model. Proceedings of the 2012 Conference of Applied Statistics in Agriculture (in press).

Abstracts

Beacham, J.M., S. H. Thomas, and E. Bernard. 2012. Inventory of the soil nematode fauna at White Sands National Monument, New Mexico. *Journal of Nematology* 44: (in press).

Hafez, S. L., M. P. Pudasaini, K. Luff, and R. Portenier. 2012. Effect of different chemical seed treatments on sugar beet cyst nematode. *Journal of Nematology* 44: (in press).

Hafez, S. L., M. P. Pudasaini, K. Luff, C. Schiller, and R. Portenier. 2012. Chemical management of root lesion nematode (*Pratylenchus thornei*) in onion. *Journal of Nematology* 44: (in press).

Hafez, S. L., M. P. Pudasaini, C. Schiller, and R. Portenier. 2012. Effect of MCW-2 on potato yield and nematode associated with potato in Idaho. *Journal of Nematology* 44: (in press).

Kandouh, B. and Sipes, B. 2012. Susceptibility of red potato cultivars (*Solanum tuberosum* L.) to *Meloidogyne incognita*, *M. javanica*, and *M. konaensis*. *Phytopathology* 102:S244-P.

Melakeberhan, H., Kravchenko, A., and Thelen, K. 2012. Effects of Agronomic practices on the establishment of *Heterodera glycines* in virgin land. *Journal of Nematology* 44: (in press).

Robbins, R. T., E. Shipe, P. Arelli, G. Shannon, K. M. Rainey, P. Chen, S. K. Kantartzi, L. E. Jackson, E. E. Gbur, D. G. Dombek, and J. T. Velie. 2012. Reniform nematode reproduction on soybean cultivars and breeding lines in 2011. Program of the 2012 Beltwide Cotton Conferences, Orlando.

Robbins, R. T., L. E. Jackson, K. Rowe, D. Crippen and T. Kirkpatrick. 2012. Soybean Varieties With Reniform and Root-Knot Nematode Resistance, 1998 – 2011. Abstracts, 39th Annual Meeting, Southern Soybean Disease Workers, March 7-8, 2012 Pensacola, FL. p. 27

Thomas, S.H., J. M. Beacham, and P.W. Bosland. 2012. Use of propagated plant cuttings to accelerate screening cayenne pepper for resistance to *Meloidogyne incognita*. Journal of Nematology 44: (in press).