

Curriculum Vita

Name: Stephen H. Thomas
Rank/Title: Distinguished Service Professor, Nematology/Plant Pathology
Office Address: Entomology, Plant Pathology, and Weed Science Department
New Mexico State University
PO Box 30003, MSC 3BE
Las Cruces, NM 88003-8003
Phone: (575) 646-2321
E-mail: stthomas@nmsu.edu

| <u>Degree</u> | <u>Institution</u> | <u>Date</u> | <u>Major</u> |
|---------------|-------------------------------------|-------------|------------------------------|
| Ph.D. | Iowa State University, Ames, IA | 1980 | Plant Pathology (Nematology) |
| M.S. | Iowa State University, Ames, IA | 1976 | Plant Pathology (Nematology) |
| B.A. | Univ. of Evansville, Evansville, IN | 1973 | Chemistry |

Academic and Professional Experience:

2012 - Present Distinguished Service Professor, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM

1998 - 2012 Professor, Department of Entomology, Plant Pathology and Weed Science, New Mexico State University, Las Cruces, NM

1986 - 1998 Associate Professor, Department of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM

1980 - 1986 Assistant Professor, Department of Entomology, Plant Pathology, and Weed Science, New Mexico State University, Las Cruces, NM

1983 - 1985 USAID/BIFAD joint appointment, New Mexico State University and Centro Agronomico Tropical de Investigación y Enseñanza, Turrialba, Costa Rica

Responsibility: Research (88%) and Teaching ('Plant Nematology'; 12%)

Research Interests and Expertise: Host-parasite relationships involving plant-parasitic nematodes; soil nematode ecology; nematode interactions with weeds and fungal pathogens; cropping systems for sustainable plant-pathogenic nematode management; nematodes as indicators of soil health.

Regional Research Projects:

2014 - present W-3186 Regional Research Project, "Variability, Adaptation, and Management of Nematodes Impacting Crop Production and Trade" (Secretary - 2013; Chair - 2014; Local Arrangement Chair - 2014).

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| 2008 - 2014 | W-2186 Regional Research Project, "Variability, Adaptation, and Management of Nematodes Impacting Crop Production and Trade" (Secretary - 2008; Vice-Chair – 2009; Chair – 2010). |
| 2001 - 2007 | W-1186 Regional Research Project, "Genetic Variability in the Cyst and Root-knot Nematodes" (Local Arrangement Chair - 2002). |
| 1994 - 1998 | NC R-172 Regional Research Project, "Molecular Aspects of the Host-Parasite Relations Involving Sedentary Endoparasitic Nematodes". |
| 1993 - 2001 | W-186 Regional Research Project, "Genetic Variability in the Cyst and Root-knot Nematodes" (Secretary - 1996; Chair - 1998). |
| 1987-1992 | S-205 Regional Research Project, "Host Plant Resistance in Cotton to Insects, Mites, Nematodes, and Diseases". |
| 1984 - 1988 | W-134 Regional Research Project, "Developing Parameters in the Nematode Pest Management Decision Process" (Chair - 1986). |
| 1983 - 1987 | WRCC-28 Regional Coordinating Committee, "Crop Loss Assessment". |

Research Responsibilities and Acquired Support:

- “Comparative efficacy between a new nematicide and 1,3-dichloropropene for suppression of root-knot nematode injury in furrow-irrigated chile”. 2017. NM Chile Commission, \$2,000.
- “Enhancing sequencing data for the genus *Ditylenchus* including *D. angustus* and *D. weischeri*” USDA APHIS 2016 Farm Bill (with S. Hanson), \$ 44,445.
- Enhancing Surge Capacity for Nematode Identification in the Southwest – Part II (2015) – USDA APHIS (with S. Hanson), \$49,500.
- Efficacy of a bionematicide for suppression of root-knot nematode injury in chile. NM Chile Commission, \$1,500.
- Enhancing Surge Capacity for Nematode Identification in the Southwest – Part I (2014) – USDA APHIS (with S. Hanson), \$49,500.
- Enhancing capacity for identification of *Ditylenchus* species of regulatory concern (2013) – USDA APHIS (with S. Hanson), \$48,460.
- Enhancing nematode identification capacity in the Southwest (2011) – USDA APHIS (with S. Hanson), \$85,000.
- Inventory of soil microbial and other soil faunal ecosystem components at the White Sands National Monument and Guadalupe Mountains National Park. (2011) National Park Service (with E. Bernard, M. Lucero, C. Monger, and A. Unc), \$120,496.
- Evaluation of root-knot nematode management options in vineyards. (2010) – Dow AgroScience, \$4,000.
- Chile yield enhancement (2009-2011) NM Chile Association (with 12 other co-PIs), \$215,000.
- Multiple pest interactions in chile (2007-2008) – Chile Yield Improvement Project, \$40,000.

- Root-knot Nematode Resistant Alfalfa for Suppression of the Yellow and Purple Nutsedge and Root-knot Nematode Complex (2006-2008) – USDA Pest Management Alternatives Program, (with J. Schroeder, L. Murray, and J. Libbin), \$134,410.
- Survey of root-knot nematodes in New Mexico pecan (2005-2006) – USDA/APHIS CAPS, \$8,700.
- Nematodes in southwestern pecan (1998-2010) – USDA Southwest Pecan Integrated Pest Management, \$124,000.
- Ecology of nematode-weed interactions in peppers (1992-2006) - NM Chile Improvement Project (with J. Schroeder), \$255,000.
- Sustainable approach to nematode and weed management in chile (1997-2003) - NM Chile Improvement Project (with I. Ray, J. Schroeder), \$143,500.
- Reducing nematode injury to cotton (1991-2003) - Nat. Cotton Council, \$42,000.
- Molecular mechanisms of nematode infection in chile (1996-2006) - NM Chile Improvement Project (with C. Sengupta-Gopalan, S. Hanson), \$291,500.
- Nutsedge-root-knot nematode-pepper interactions (1999-2001) - USDA/National Research Initiative (with J. Schroeder and L. Murray), \$150,000.
- Engineering nematode resistance in alfalfa (1997-1999) - various corporate sponsors - (with C. Sengupta-Gopalan) \$60,000.
- Weed-pepper-nematode interactions (1995-1998) - USDA/National Research Initiative, (with J. Schroeder and L. Murray), \$150,000.
- Industry and USDA/IR4 grants (1984-1997) - various corporations, \$67,650.
- Molecular mechanisms of nematode-induced feeding site development (1992-1994) - USDA/SW Consortium (with C. Sengupta-Gopalan), \$83,700.
- Interactions among *Phytophthora capsici*, weeds, and nematodes (1992-1993) - NM Chile Improvement Project (with C. Biles, C. Liddell, J. Schroeder), \$16,000.
- Genetic engineering of nematode resistance (1990-1992) – Water Resources Research Institute, (with C. Sengupta-Golalan), \$50,000.
- Techniques to reduce rates of nematicides (1990-1991) - CSRS/WRPIAP, \$10,000.
- Survey of nematodes in alfalfa, chile, and cotton in NM (1988-1990) USDA/APHIS Pest Survey and Detection Program, - \$11,300.
- Comparative efficacy of nonfumigant nematicides (1984-1985) - CSRS/WRPIAP, \$14,000.
- Nematode dynamics in maize and bean production in Costa Rica (1983-1985) - USDA/BIFAD, \$25,950.
- Effects of nematodes on growth of guayule (1981-1984) - USDA/SEA, \$31,500.
- Decomposition and nutrient cycling in desert ecosystems (1981-1983) - NSF, \$40,200.

Membership in Professional Societies:

- Society of Nematologists
- Organization of Nematologists of Tropical America
- American Phytopathological Society
- Council of Agricultural Science and Technology

Research Service - National:

- Society of Nematologists:
 - Past-President (2015/2016)

- President (2014/2015)
- President-Elect (2013/2014)
- Vice-President (2012/2013)
- Interim Business Manager (2015-present)
- Honors and Awards – Best Student Paper Committee (2011)
- Secretary, (2006-2009)
- Treasurer, N. A Cobb Nematology Foundation (2003-2006)
- Editor - *Journal of Nematology* (1997-1999)
- Associate Editor - *Journal of Nematology* (1994-1996)
- Associate Editor - *Annals of Applied Nematology* (1995-1996)
- Long Range Planning Committee (2003-2006; 2015-2017; Chair - 2015)
- Finance Advisory Committee (2001-2004; 2015-2017)
- Education Committee (2001-2004; Chair – 2003)
- Executive Board Member-at-large (1997-1999)
- Editorial Board (1997-1999)
- National Meetings Program Committee (1995, 1998)
- Industry Committee (1996-1998; Chair - 1998)
- Ecology Committee (1981-1983; 1993-1995; Chair - 1995)
- Membership Committee (1982-1984; 2014-2017)
- Regulatory Committee (2013-2016; Chair – 2015)
- USDA/Rio Grande Basin Initiative Grant Panel (2004; 2008)
- USDA/IREEC Methyl Bromide Transitions Grant Panel (2002; 2003).
- USDA/CSREES Integrated Pest Management Grant Panel (1988).
- American Association for the Advancement of Science:
 - Chairman, Agricultural Sciences Sections, Southwest & Rocky Mountain Division (1989).
 - Convenor and program organizer, Plant Molecular Biology Symposium, 1989, SW & Rocky Mountain Div., AAAS.
- Proposal and manuscript reviews for following: (>92 proposals; >214 manuscripts)
 - National Science Foundation
 - USDA programs:
 - NRI
 - SBIR
 - CSREES IMP
 - CSREES MBT
 - CSREES SW Consortium on Plant Genetics
 - CSREES Southern Regional Research Program
 - Organic Commodities Grant Program
 - State Agricultural Experiment Stations (AL, AR, NM, OR, TX)
 - Refereed journals:
 - *Journal of Nematology*
 - *Nematropica*
 - *Plant Disease*
 - *Plant Health Progress*
 - *Crop Science*
 - *HortScience*
 - *Journal of Range Management*
 - *Weed Science*
 - *Annual Review of Phytopathology*

- *Phytopathology*
- *Journal of Cotton Science*
- *New Mexico Journal of Science*
- *Soil Biology & Biochemistry*
- *Journal of the American Society of Horticultural Science*
- *Weed Technology*
- *Journal of Visualized Experiments*

NMSU Leadership and Service:

- University:
 - University Research Council (2006-2008; 1997-1998)
 - NMSU BioScience Mini-Grant Proposal Review Committee (2005)
 - NM Department of Agriculture Pesticide Technical Advisory Board (1998-present)
 - Faculty Senate (1986-1990; 1996-1998)
 - Subcommittees: Long-range Planning, University Affairs; Committee on Committees
 - University Appeals Board (1996-1998)
 - Search Committee – Vice-president for Research and Economic Development (1988)
 - Fulbright Graduate Award Review Committee (1987-1989)
- College of Agriculture, Consumer and Environmental Sciences:
 - Extra-departmental Promotion & Tenure Committee Member for: School of Hotel, Restaurant and Tourism Management (2012-2013); Fish, Wildlife and Conservation Ecology (2013); Extension Plant Sciences Department (2011-2015).
 - ACES Promotion and Tenure Committee (2007-2010; Chair in 2010)
 - ACES Academic Appeals Board (2010)
 - ACES Teaching Microscope Collection Maintenance Procurement (1982-present)
 - ACES Small Farm Institute Planning and Advisory Committee (2008-2011)
 - ACES Promotion & Tenure Policy Revision Committee (2007-2008)
 - ACES Performance Document Revision Advisory Committee (2007-2008)
 - Research Farm Technical Advisory Committee (2005-2013)
 - NM Cooperative Extension Service Bulletin Review (1998-present; 2+ per year)
 - Search Committee – Dean & Chief Administrative Officer (1999)
 - Skeen Hall Teaching Lab Equipment Procurement Committee (1999-2000; Co-Chair)
 - Skeen Hall Research Lab Planning Committee (1999)
 - Curriculum Committee (1987-1992; Chair 1988-1992)
 - Promotion and Tenure Guidelines Revision Committee (1990)
 - Senior Faculty Senator (1989, 1990)
 - Committee to Develop Review Document for Dean & Chief Administrative Officer (1988)
 - Search Committee – Associate Dean of Resident Instruction (1988)
- Department of Entomology, Plant Pathology and Weed Science:
 - Department Head Search Committee (Chair, 2010-2011)
 - Promotion and Tenure Committee (1987-present; Chair 2006-present)
 - Graduate Admissions Committee (1989-present; Chair 2014-present)
 - Scholarship Allocation Committee (1987-1993; Chair, 1987-1988)
 - Faculty Search Committees (1987-present) – 9 positions (Chair for searches in 1988, 1999, 2001, 2002, 2014)

Awards, Invited Presentations, Honorary Societies:

- New Mexico State University College of Agriculture Team Research Award (2006) – with J. Schroeder and I. Ray.
- New Mexico State University College of Agriculture Faubian Garcia Founders Award of Excellence (2001) – with G. Phillips, C. Bullard, and D. Ebler.
- Society of Nematologists Best Economic Paper Award (1978)
- Invited presentations:
 - Weed Science Society of America (2003)
 - University of California 34th Nematology Workshop (2002)
 - University of Florida Dept. of Entomology and Nematology (2000)
 - Third International Congress of Nematology (1996)
- Honorary societies:
 - Sigma Xi
 - Phi Beta Chi
 - Gamma Sigma Delta
 - Phi Kappa Phi

Teaching Responsibilities:

EPWS 481 - "Plant Nematology"

Graduate Student Education:

- Major professor:
 - Stefanie Grider (non-thesis; 2014)
 - Rio A. Stamler (2009); Thesis title: ‘Molecular Identification and Characterization of the Pecan Root-knot Nematode (*Meloidogyne partityla*)’
 - Jacqueline Trojan Fuchs (2004); Thesis title: ‘Characterization of the Relationship of *Meloidogyne incognita* in Association with Chile, Yellow Nutsedge and Purple Nutsedge’
 - William Meeks (1996); Thesis title: ‘Banks Grass Mite (*Oligonychus pratensis*) and Root-knot Nematode (*Meloidogyne incognita*) Interaction in Corn’
 - Robert S. Klump (1986); Thesis title: ‘Influence of Cotton and Sorghum Culture on Population Dynamics of *Meloidogyne incognita*’
- Committee member:
 - M.S. committees: 39
 - Ph.D. committees: 9

Refereed Publications:

French, J.M., J. Beacham, A. Garcia, N.P. Goldberg, S.H. Thomas, and S.F. Hanson. 2017. First Report of Stem and Bulb Nematode *Ditylenchus dipsaci* on Garlic in New Mexico. **Plant Health Progress** <http://dx.doi.org/10.1094/PHP-12-16-0069BR>.

Thomas, S., Holland, L., Beacham, J., Hanson, S. F., Schroeder, J., Eisenback, J. *Meloidogyne cyperae* n. sp. (Nematoda: Meloidogynidae), a root-knot nematode parasitizing *Cyperus* species in New Mexico. **Journal of Nematology**, **49** (in review).

Al-Hammouri, A., Lindemann, W. B., Thomas, S., Sanogo, S. Effect of inoculum levels on chile pepper in soil simultaneously infested with *Meloidogyne incognita* and *Rhizoctonia solani*. **Canadian Journal of Plant Science** (reviewed and in revision).

Zbylut, J., L. Murray, S.H. Thomas, J. Beacham, J. Schroeder, C. Fiore. 2015. Modeling ratios with potential zero-inflation to assess soil nematode community structure. **Proceeding of the 25th Annual Kansas State University Conference on Applied Statistics in Agriculture: 130-148.**

Rudolph, R.E., C. Sams, R. Steiner, S.H. Thomas, S. Walker, and M.E. Uchanski. 2015. Biofumigant performance of four *Brassica* crops in a green chile pepper (*Capsicum annuum*) rotation system in southern New Mexico. **HortScience** 50:247-253.

Vetter, J., Z. Ou, L. Murray, S.H. Thomas, and J. Schroeder. 2014. Determining the effectiveness of including spatial information into a nematode/nutsedge pest complex model. **Proceeding of the 24th Annual Kansas State University Conference on Applied Statistics in Agriculture: 109-124.**

Sanogo, S., Schroeder, J., Thomas, S., Murray, L., Schmidt, N. E., Beacham, J., Fiore, C., Liess, L. 2013. Weed species not impaired by *Verticillium dahliae* and *Meloidogyne incognita* interactions that damage chile pepper. **Plant Health Progress** doi:10.1094/PHP-2013-0920-01-RS.

Al-Hammouri, A., W. Lindemann, S. Sanogo, S. Thomas, and R. Steiner. 2013. Interaction between *Rhizoctonia solani* and *Meloidogyne incognita* on chile pepper in soil infested simultaneously with both plant pathogens. **Canadian Journal of Plant Science** 93:67-69.

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.

Murray, L., S. Thomas, J. Schroeder, S. Kreider, Z. Ou, J. Trojan, and C. Fiore. 2012 Modeling the root-knot nematode/nutsedge pest complex using the Poisson family of distributions: Perspectives from Weed Science, Nematology, and Statistics. **Proceedings of the 2011 Kansas State University Conference on Applied Statistics in Agriculture p. 128-151.**

Fiore, C., J. Schroeder, S. Thomas, L. Murray, and I. Ray. 2009. Root-knot nematode-resistant alfalfa suppresses subsequent crop damage from the nutsedge-nematode complex. **Agronomy Journal** 101:754-763.

Ou, Z., L. Murray, S.H. Thomas, J. Schroeder, and J. Libbin. 2008. Nutsedge counts predict *Meloidogyne incognita* juvenile counts in an integrated management system. **Journal of Nematology** 40:99-108.

Norsworthy, J.H., J. Schroeder, S.H. Thomas and L.W. Murray. 2007. Purple nutsedge (*Cyperus rotundus*) management in direct-seeded chile peppers (*Capsicum annuum*) using halosulfuron and cultivation. **Weed Technology** 21:636-641.

Van Voorhies, W.A., J. Fuchs, and S.H. Thomas. 2005. The longevity of *Caenorhabditis elegans* in soil. **Proceedings of the Royal Society Biology Letters** (1(2):247-249.

- Norsworthy, J.H., J. Schroeder, S.H. Thomas, and L.W. Murray. 2005. Southern root-knot nematode effect on purple nutsedge (*Cyperus rotundus*) and chile pepper response to halosulfuron. **Weed Technology** 19: 1004-1011.
- Thomas, S.H., J. Schroeder and L.W. Murray. 2005. The role of weeds in nematode management. **Weed Science** 53:923-928.
- Schroeder, J., S.H. Thomas, and L.W. Murray. 2005. Impacts of crop pests on weeds. **Weed Science** 53: 918-922.
- Thomas, S.H., J. Schroeder and L.W. Murray. 2004. *Cyperus* tubers protect *Meloidogyne incognita* from 1,3-dichloropropene. **Journal of Nematology** 36:131-136.
- Schroeder, J., S.H. Thomas and L.W. Murray. 2004. Root-knot nematodes affect annual and perennial weed interactions with chile pepper. **Weed Science** 52:28-46.
- Zewdie, Y., S. Thomas and P.W. Bosland. 2003. 'NuMex Nematador', southern root knot nematode-resistant cayenne. **HortScience** 38:631-632.
- Nyczepir, A.P., C.C. Reilly, B.W. Wood, and S.H. Thomas. 2002. First record of *Meloidogyne partityla* on pecan in Georgia. **Plant Disease** 86:441.
- Thomas, S.H., J.M. Fuchs, and Z.A. Handoo. 2001. First report of *Meloidogyne partityla* on pecan in New Mexico. **Plant Disease** 85:1030.
- Thomas, S.H., S.A. Sanderson, and Z.A. Handoo. 2001. First report of Columbia root-knot nematode (*Meloidogyne chitwoodi*) in potato in New Mexico. **Plant Disease** 85:924.
- Potenza, C., S.H. Thomas, and C. Sengupta-Gopalan. 2001. Genes induced during early response to *Meloidogyne incognita* in roots of resistant and susceptible alfalfa cultivars. **Plant Science** 161: 289-299.
- Schroeder, J., S.H. Thomas, and L. Murray. 1999. Yellow and purple nutsedge are not injured by increasing root-knot nematode population densities. **Weed Science** 47: 201-207.
- Thomas, S.H., J. Schroeder, M.J. Kenney, and L.W. Murray. 1997. *Meloidogyne incognita* inoculum source affects host suitability and growth of yellow nutsedge and chile pepper. **Journal of Nematology** 29:404-410.
- Potenza, C.L., S.H. Thomas, E.A. Higgins, and C. Sengupta-Gopalan. 1996. Early root response to *Meloidogyne incognita* in resistant and susceptible alfalfa cultivars. **Journal of Nematology** 28: 475-484.
- Thomas, S.H., L. Murray, and M. Cardenas. 1995. Relationship of preplant population densities of *Meloidogyne incognita* to damage in three chile pepper cultivars. **Plant Disease** 79:557-559.

Thomas, S.H. 1994. Influence of 1,3-dichloropropene, fenamiphos, and carbofuran on *Meloidogyne incognita* populations and yield of chile peppers. **Supplement to Journal of Nematology** 26:683-689.

Schroeder, J., M.J. Kenney, S.H. Thomas and L.W. Murray. 1994. Yellow nutsedge response to southern root-knot nematodes, chile peppers, and metolachlor. **Weed Science** 42:534-540.

Zamora, E., S.H. Thomas and P.W. Bosland. 1994. 'Carolina Cayenne' as a source of resistance to *Meloidogyne incognita* races 1,2,3 and 4. **HortScience** 29:1184-1185.

Thomas, S.H. and D.W. Smith. 1993. Effects of 1,3-dichloropropene for *Meloidogyne incognita* management on cotton produced under furrow irrigation. **Supplement to Journal of Nematology** 25:752-757.

Schroeder, J.S., S.H. Thomas, and L. Murray. 1993. Yellow and purple nutsedge and chile peppers host southern root-knot nematode. **Weed Science** 41:150-156.

Klump, R.S. and S.H. Thomas. 1987. Comparative resistance of selected 'Acala 1517 cotton cultivars to *Meloidogyne incognita* race 3. **Annals of Applied Nematology** 1:113-115.

Thomas, S.H. and D.C. Norton. 1986. Influence of selected maize hybrids on nematode populations under differing edaphic conditions. **Plant Disease** 70:234-237.

Thomas, S.H. and C. Goddard. 1986. Population dynamics of selected plant-parasitic nematode species on guayule. **Plant Disease** 70:579-580.

Parker, L.W., J. Ryder-White, S. Thomas, and W.G. Whitford. 1985. The effects of oxamyl and chlordane on the activities of non-target soil organisms. **Biology and Fertility of Soils** 1:141-148.

Klich, M.A., S.H. Thomas, and J.E. Mellon. 1984. Initial field investigations on the mode of entry of *Aspergillus flavus* into cotton seeds. **Mycologia** 76:665-669.

Thomas, S.H. 1978. Population densities of nematodes under seven tillage regimes. **Journal of Nematology** 10:24-27.

Norton, D.C., J. Tollefson, P. Hinz, and S. Thomas. 1978. Corn yield increases relative to nonfumigant chemical control of nematodes. **Journal of Nematology** 10:160-166.

Book Chapters (invited author):

Thomas, S.H. and T.L. Kirkpatrick. 2017. Root-knot nematodes. *in* T.L. Kirkpatrick, C.S. Rothrock, and J.E. Woodward, eds. **Compendium of Cotton Diseases**, 3rd Edition. St. Paul, MN: American Phytopathological Society Press. (in press)

Nyczepir, A.P. and S.H. Thomas. 2009. Current and future management strategies in intensive crop production systems. Pp. 412-433. *in* **Root-knot nematodes**. R. N. Perry, M. Moens, and J. Starr, eds. Commonwealth Agricultural Bureau International.

McSorley, R.L. and S.H. Thomas. 2003. Diseases caused by nematodes. Pp. 46-49. *in* K. Pernezy, P. D. Roberts, J. F. Murphy, and N. P. Goldberg, eds. **Compendium of Pepper Diseases**. St. Paul, MN: American Phytopathological Society.

Thomas, S.H. and T.L. Kirkpatrick. 2001. Root-knot nematodes. Pp. 40-42. *in* T.L. Kirkpatrick and C.S. Rothrock, eds. **Compendium of Cotton Diseases**, 2nd Edition. St. Paul, MN: American Phytopathological Society Press.

Cooperative Extension Publications:

Heerema, R., N. Goldberg, and S. Thomas. 2011. Diseases and other disorders of pecan in New Mexico. NMSU Cooperative Extension Service, **Guide H-657**.

Lauriault, L.M., I.A. Ray, S.H. Thomas, C. Sutherland, J. Ashigh, F.E. Contreras-Govia, and M.A. Marsalis. 2011. Selecting alfalfa varieties for New Mexico. NMSU Cooperative Extension Service, **Circular 654**.

Thomas, S.H. Managing nematodes in chile. New Mexico Cooperative Extension Service **Guide H-241**.

Shannon, E., S. Thomas, and M. Clayshulte. 1981. Control of nematodes. New Mexico Cooperative Extension Service **Bulletin 400 W-8**.

Shannon, E., S. Thomas, and M. Clayshulte. 1981. How to check for nematode problems. New Mexico Cooperative Extension Service **Bulletin 400 W-9**.

Published Abstracts and Proceedings:

Beacham, J. S. Thomas, J. Schroeder, L. Holland, E. Morris, N. Schmidt, L. Murray, F. Solano-Campos, S. Hanson, and J.D. Eisenback. 2015. Host status of a new *Meloidogyne* species found parasitizing yellow and purple nutsedges. **Journal of Nematology** 47:223.

Schroeder, J., Thomas, S., Beacham, J., Holland, L., Morris, E., Schmidt, N. E., Murray, L., Hanson, S. F. 2014. A presently-undetermined *Meloidogyne* species was found to parasitize yellow and purple nutsedge: should we be concerned? **Weed Science Society of America Proceedings**. Vol. 54: 85.

Holland, L., Schroeder, J., Thomas, S., Murray, L. 2013. Physiological and genetic comparison and host assay of purple nutsedge (*Cyperus rotundus*) and other plant species in response to the southern root-knot nematode (*Meloidogyne incognita*) and the nutsedge root-knot nematode. **Proceedings, Western Society of Weed Science** 66:55. wsweedscience.org

- Thomas, S., Beacham, J., Holland, L., Morris, E., Schmidt, N. E., Murray, L., Solano-Campos, F., Hanson, S. F., Eisenback, J. 2013. Observations regarding a recently-undescribed *Meloidogyne* species parasitizing yellow and purple nutsedges. **Journal of Nematology** 45: 320-321.
- 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** 44:494.
- Beacham, J., S.H. Thomas, and E.C. Bernard. 2012. Inventory of the soil nematode fauna at White Sands National Monument, New Mexico. **Journal of Nematology** 44:451.
- Thomas, S.H., J.M. Trojan, and R. Heerema. 2011. *Meloidogyne partityla*-induced changes in pecan growth and nutrient sequestration. **Journal of Nematology** 43:288-289.
- Bernard, E.C., J.M. Trojan, and S.H. Thomas. 2011. Nematode biodiversity at Otero Mesa, New Mexico, a pristine grassland. **Journal of Nematology** 43:228-229.
- Smythe, B.G., S. Sanogo, N. Puppala, S.H. Thomas, and R.L. Steiner. 2011. Screening Valencia core collection for resistance to *Sclerotinia sclerotiorum*. **Phytopathology Supplement** S168.
- Fiore, C., J. Schroeder, S. Thomas, L. Murray, J. Trojan, and N.E. Schmidt. 2011. Comparison of seed production and germinability in the annual weeds *Anoda cristata*, *Ipomoea purpurea*, and *Physalis wrightii* with and without *Meloidogyne incognita* inoculation. **Proceedings, Western Society of Weed Science** 64:48.
- Schroeder, J. C. Fiore, S.H. Thomas, J. Trojan, S. Sanogo, L. Liess, N.E. Schmidt, and L.W. Murray. 2011. Spurred anoda, tall morningglory, and Wright groundcherry are not affected by *Meloidogyne incognita* and *Verticillium dahliae* coinfection. **Weed Science Society of America, Abstracts** 51:102.
- Thomas, S.H., J.M. Trojan, J. Schroeder, C. Fiore, S. Sanogao, L. Liess, N. Schmidt and L.W. Murray. 2010. Suitability of annual weeds as hosts of *Meloidogyne incognita* is unaffected by coinfection with *Verticillium dahliae*. **Journal of Nematology** 42:273.
- Schroeder, J., S.H. Thomas, L. Murray, C. Fiore and J. Trojan. 2010. Challenges for integrated *Cyperus rotundus*, *C. esculentus*, and *Meloidogyne incognita* management in irrigated pepper production systems. **2010 International Pepper Conference Proceedings**, p. 30.
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