

## **David C. Thompson**

**Professor, Department of Entomology, Plant Pathology, and Weed Science  
College of Agricultural, Consumer, and Environmental Sciences**

**New Mexico State University**

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### **Education:**

**Ph.D.** Entomology **Colorado State University, Ft. Collins, CO, 1988**

**B.S.** Entomology **Colorado State University, Ft. Collins, CO, 1982**

### **Professional Experience:**

**PROFESSOR** – Department of Entomology, Plant Pathology, and Weed Science, New Mexico State University (65% research / 35% teaching), July 2017 to Present.

### **Duties and Responsibilities:**

- Coordinate research on rangeland entomology, concentrating on the biological control of rangeland and riparian weeds.
- Coordinate statewide implementation of weed biological control programs.
- Build collaborations with state and federal agencies to improve land management options throughout the state and the region.
- Teach classes to strengthen the undergraduate and graduate programs in Entomology.
- Help with graduate and undergraduate advising, and new student recruitment.

**ASSOCIATE DEAN FOR RESEARCH**, College of Agricultural, Consumer, and Environmental Sciences (ACES) and **DIRECTOR**, Agricultural Experiment Station System (AES), New Mexico State University, August 2010 to June 2017.

### **Duties and Responsibilities:**

- Provide vision and leadership to the land-grant mission of ACES, specifically facilitating experiment station research statewide.
- Work closely with community leaders who support our Agricultural Science Centers to better address the region-specific diverse needs of New Mexicans.
- Actively engage and collaborate with agricultural commodity groups to insure that ACES research is answering the needs of the industry.
- Manage the annual budget of approximately \$30 million in state and federal appropriated funds and in grants and contracts.
- Facilitate pre-award grant interactions and opportunities for faculty through the college's Business Office.
- Represent the university at regional and national experiment station meetings, oversee the development of new USDA Hatch projects, serve as an administrative adviser to four USDA multi-state research projects, and serve as a member of the national Science and Technology Committee of the Experiment Station Committee on Organization and Policy (ESCOP).

- Work in cooperation with the Council of Agriculture Research, Extension, and Teaching (CARET) representatives to represent state and national efforts to Congressional delegations.
- Provide advice on research and faculty ideas from the College as a member of the Vice President of Research (VPR), Council of Associate Deans for Research (CADRe),
- Participate in annual faculty promotion and tenure review decisions for all ACES research faculty and department heads in collaboration the Dean and the Associate Dean for Academic Programs.

**Key accomplishments:**

- Instrumental in evaluating and managing the budget to successfully recover from a 20% cut in overall AES budget during FY10 and FY11.
- Provided support and encouragement to research faculty who have increased proposal submissions and resulting awards every year since 2012.
- Worked with regional advisory boards and the state Legislature to secure funding for two new tenure-track faculty positions at our off-campus science centers at Clovis and Tucumcari.
- Elected to the Executive Committee of the Western Association of Agricultural Experiment Station Directors and served as chair of this committee in 2014.
- Represent the Western Association of Agricultural Experiment Station Directors on the national Science and Technology Committee of the Experiment Station Committee on Organization and Policy (ESCOP).
- Elected to serve as a reviewer of the Multi-State Review team for the western US.
- Work with the VPR office, Dean, and department heads to implement and develop the first significant investment in faculty research start-up and retention packages.
- Established and implemented a new competitive AES graduate research award program in FY15 that continues in FY16 with 10 awards of \$20,000 each.
- Established a competitive grants program from funding supplied by the state legislature to do research on chiles. Proposals are reviewed and evaluated by the AES and representatives from the chile industry.

**DEPARTMENT HEAD/CHAIR** - Department of Entomology, Plant Pathology and Weed Science, New Mexico State University (25% admin / 55% research / 20% teaching), July 2007 – July 2010.

**Duties and Responsibilities:**

- Work as an advocate of the department to promote mutually beneficial outcomes with stakeholders and upper administration in the college and university. Support efforts to continue relevant and quality research, academics, and service.
- Work effectively with advisory groups and other external clientele.
- Strengthen shared governance within the department.
- Worked closely with College administration to increase internal and external funding opportunities for the faculty.
- Represent the department at student events and recruiting opportunities.

**Key accomplishments:**

- Completed the Lead 21 training in 2009 to improve my leadership skills.
- Filled all faculty positions vacated due to retirements or redirections during my tenure.
- Based on faculty input, served as a “Chair” rather than “Department Head” in name and function even though NMSU does not officially acknowledge the title.
- Reallocated budget and salaries within the department to insure the best, most productive use of limited resources.
- Increased the number of student credit hours generated in the department each year I served as chair.
- Grants and contract funding increased in 3 of 4 years, with the only decrease occurring during the year when all federal “earmarks” were stopped.

**PROFESSOR** – New Mexico State University (65% research / 35% teaching), July 2006 – July 2007.

**ASSOCIATE PROFESSOR** - New Mexico State University (65% research / 35% teaching), July 1996 – June 2006.

**ASSISTANT PROFESSOR** - New Mexico State University. (75% research / 25% teaching), July 1990 - June 1996.

**COLLEGE ASSISTANT PROFESSOR** - New Mexico State University. (85% research / 15% teaching), August 1987 - June 1990.

**Duties and Responsibilities:**

- Responsible for research, teaching, and service in the Department of Entomology, Plant Pathology, and Weed Science.

**Key accomplishments:**

- Coordinated research on rangeland entomology, concentrating on the biological control of rangeland and riparian weeds.
- Director of the High Containment Quarantine Facility, which tests the safety of exotic insects used in biological control.
- Statewide implementation of weed biological control programs. Included establishment and monitoring of at least one research site in all 33 New Mexico Counties.
- Brought in over \$2.1 million in grants and contracts.
- Major Professor for 16 M.S. students, 2 Ph.D. students, and co-major advisor for 2 Ph.D. students, member of 43 M.S. committees, and 8 Ph.D. committees.
- Published scientific research in a variety of venues including referred journal articles, book chapters, extension publications, and general proceedings and abstracts.
- Teaching responsibilities included two or three courses per year, graduate and undergraduate advising, and new student recruitment.

**RESEARCH ASSISTANT/ASSOCIATE** - Department of Entomology, Colorado State University. January 1983 - July 1987.

**Teaching:**

EPWS 100, Introduction to Pest Management (1987-1990, 1992-1999)  
EPWS 200/100L, Introduction to Pest Management Lab (1993-2000)  
EPWS 200, Identification of Economic Insects (1989-1992)  
EPWS 290, Introduction to Entomology (1987)  
EPWS 300, Special Problems (1993,1995)  
EPWS 303, Economic Entomology and Lab (1993-2007)  
EPWS 325G, Insects, Humans and the Environment (2000-2009)  
EPWS 390 - Internship (1993-2009)  
EPWS 449 - Special Problems (as needed)  
EPWS 451 - Special Topics (as needed)  
EPWS 598 – Research (as needed)  
EPWS 599 – Thesis (as needed)  
AGHE 380G – Ecosystem Earth: The impact of human activities (1998-2000)  
BIOL 700 – Doctoral Dissertation (as needed)

**Membership in Professional Societies:**

W-4185 Biological Control of Insects and Weeds  
Entomological Society of America  
Southwestern Branch of the Entomological Society of America  
Orthopterist's Society  
Phi Beta Kappa  
Sigma Xi  
Society for Range Management  
Weed Science Society of America  
Western Society of Weed Science  
WRCC-66 Biology and control of the Russian Wheat Aphid

**Graduate Advising:**

Major Professor for 16 M.S. students, 2 Ph.D. students, and co-major advisor for 2 Ph.D. students, member of 43 M.S. committees, and 8 Ph.D. committees.

**Thesis committees chaired:**

Turcotte, R.M. 1993. Integrated control of broom snakeweed by strip management at two selected locations in New Mexico. M.S. Thesis.  
Pomerinke, M.A. 1993. Bionomics of two root feeding weevils (Coleoptera: Curculionidae) on *Astragalus mollissimus* (Fabaceae). M.S. Thesis.  
Saravia, R. 1995. Evaluating quinoa (*Chenopodium quinoa* Willd) resistance to feeding by *Spodoptera frugiperda*. M.S. Thesis.  
Gardner, K.T. 1996. Influence of insectivorous birds and insect parasitoids on grasshopper populations attacking threadleaf snakeweed. M.S. Thesis.  
Knight, J. L. 1997. Effects of controlling a rangeland insect pest on biological control agents of broom snakeweed. M.S. Thesis.  
Sun, P. 1999. Fitness of a specialist leafhopper feeding on New Mexico saltcedar. M.S. Thesis. 94pp.  
Pache, P. 2001. Mosaic Evolution of cave arthropods. Ph.D. Dissertation.

- Doughty, H.T. 2002. Development of a community based biological control program for leafy spurge (*Euphorbia esula*) using *Apthona* flea beetles. M.S. Thesis.
- Ramirez, R.A. 2004. The influence of low humidity, *Pseudacteon* flies, and competition by *Solenopsis xyloni* on *Solenopsis invicta*. M.S. Thesis.
- Smith, P. 2005. Factors influencing leafhopper populations in saltcedar. M.S. Thesis.
- Beuhler, H. 2006. Comparison of insect biodiversity and abundance in riparian environments dominated by saltcedar (*Tamarix ramosissima*) and coyote willow (*Salix exigua*) on the Rio Grande River. M.S. Thesis. 105pp.
- Petersen, B. 2007. Variability in population dynamics between mixed populations of Chinese and Greek saltcedar leaf beetle ecotypes. M.S. Thesis. 83pp.
- Zens, B. 2008. Variable fitness of *Diorhabda elongata* feeding in a common garden of *Tamarix* from the Western United States. M.S. Thesis. 103pp.
- Parker, J. 2009. Effects of insect herbivory by the four-lined locoweed weevil, *Cleonidius trivittatus* (Say) (Coleoptera: Curculionidae), on the alkaloid swainsonine in locoweeds *Astragalus mollissimus* and *Oxytropis sericea*. M.S. Thesis. 82pp.
- Park, Ik Ju. 2010. Biology of *Asphondylia prosopidis* complex (Diptera: Cecidomyiidae) and fungal associates: Potential biological control candidates for South African mesquite. M.S. Thesis. 52pp.

#### **Honors or awards**

- Conservation Perseverance Award, Pecos Valley Artesian Conservancy District (2014).
- Lead21 graduate (Class 4, 2008-2009).
- New Mexico State University, College of Agriculture & Home Economics Distinguished Teaching Award (2003).
- Donald C. Roush Award for Teaching Excellence (2000).
- Outstanding Faculty Member – Chicano Programs (1999).
- National Association of Colleges and Teachers of Agriculture (NACTA) Award of Merit (1999).

#### **Grants and Contracts Administration:**

- USDA capacity funding (Hatch, McIntire Stennis, Multistate, and Animal Health) \$2.4 M/year
- USDA/ARS collaborations \$2.3M/year
- USDA/FAS Visiting Chinese scientists \$49,000

#### **Grants and Contracts as a Researcher: (Total = \$2,148,684)**

- Thompson, D.C., K.T. Gardner. 2008-2010. Influence of a musk thistle biological control agent on an endangered thistle - USDA/APHIS/CAPS, \$26,400.
- Thompson, D.C., K.T. Gardner. 2008-2010. Monitoring the spread of saltcedar leaf beetles into NW New Mexico - USDA/APHIS/CAPS, \$32,000.
- Thompson, D.C., K.T. Gardner. 2006-2010. Biological control of Saltcedar. USDI/Department of Defense. \$316,000.
- Thompson, D.C., K.T. Gardner. 2005-2010. Biological control of rangeland and riparian weeds - USDA/CSREES/AES, \$126,750.
- Thompson, D.C., K.T. Gardner. 1996-2000, 2008-2010. Biological control of leafy-spurge - USDA/APHIS/CAPS, \$53,298.
- Thompson, D.C., K.T. Gardner. 2005-2009. Biological control of African Rue. USDI/Department of Defense. \$20,000.

- Thompson, D.C. 2005-2009. Biology and host range of *Asphondylia prospidis*, a potential biological control agent for *Prosopis glandulosa*. ARC-PPRI, Pretoria, Republic of South Africa, \$82,500.
- Thompson, D.C. 1990-2010. Biological control of Locoweed - USDA/CSREES cooperative agreement with USDA/ARS; \$213,036.
- Dudley, T., D.C. Thompson, D. Bean. 2005-2007. Regional Targeting of Biological Control Agents against Saltcedar (*Tamarix* spp.) in North America USDA/NRI Competitive Grants; \$400,000.
- Thompson, D.C., K.D. Duncan, and W. Houghton. 2005-2007. Integrating Biological Control with Chemical and Mechanical Techniques to Improve Saltcedar Management – Rio Grande Basin Initiative, \$158,000.
- Thompson, D.C. 2000-2005. Biological control of saltcedar and riparian ecosystem recovery in the western riparian ecosystems – USDA/ARS/Subcontract, \$96,525.
- Thompson, D.C. 2001-2004. Biological Control of Red Imported Fire Ant – USDA/APHIS/CAPS, \$88,000.
- Thompson, D.C. 2004. *Centaurea* Biology in NM. Big Horn Drainage Exotic Plant Steering Committee. \$12,140
- Thompson, D.C. 1996-2004. Biological control of snakeweed - USDA/CSREES/AES, \$225,000
- Thompson, D.C., R.D. Lee. 1997-1999. Inundative strategies for leafy spurge control – USDA/CSREES/Western Regional IPM, \$96,197.
- Thompson, D.C. 1990-1995. Native insects as biological control agents of snakeweed - USDA/AES; \$25,000.
- Thompson, D.C., K.C. McDaniel, and L.A. Torell. 1990-1992. The Role of *Hesperotettix viridis* as a biocontrol agent of *Gutierrezia sarothrae* . USDA/CSREES/Western Regional IPM; \$60,200.
- Thompson, D.C., Huddleston, E. 1988-1989. Grasshopper IPM Project USDA/APHIS/PPQ; \$70,500.
- Thompson, D.C., B. Lewis. 1989. Insecticide resistance in onion thrips and Water stress and the Russian wheat aphid. WRPIAP. \$31,538.
- Thompson, D.C. 1988-1995. Misc. Small Grants. \$15,600

### Referred Publications:

- Bean, D.W., D.J. Kazmer, K.T. Gardner, D.C. Thompson, B.A. Reynolds, J.C. Keller, and J.F. Gaskin. 2013. Molecular, Genetic and Hybridization Studies of *Diorhabda* spp. Released for Biological Control of *Tamarix*. *Invas. Plant Sci. and Manage.* 6:1-15.
- Guenther, D.A., K.T. Gardner, and D.C. Thompson. 2011. Influence of Nutrient Levels in *Tamarix* on *Diorhabda sublineata* (Coleoptera: Chrysomelidae) Survival and Fitness with Implications for Biocontrol. *Environ. Entomol.* 40:66-72.
- Dalin, P., D.W. Bean, T. Dudley, V.A. Carney, D. Eberts, K.T. Gardner, E. Hebertson, E.N. Jones, D.J. Kazmer, G.J. Michels, Jr., S.A. O’Meara, and D.C. Thompson. 2010. Seasonal Adaptations to Day Length in Ecotypes of *Diorhabda* spp. (Coleoptera: Chrysomelidae) Inform Selection of Agents against Saltcedars (*Tamarix* spp.). *Environ. Entomol.* 39:1666-1675.
- DeLoach, C.J., A.E. Knutson, D.C. Thompson, D. Eberts, P. Moran and R.I. Carruthers. (In press) Research on Biological Control of Saltcedar in the United States, with Implications for Cooperation with Mexico. *In: Proc. 6<sup>th</sup> Symp. Natural Resources Chihuahuan Desert.* Chih. Des. Res. Inst. Alpine, TX.

**Referred Publications (cont.):**

- Graham, D., R. Creamer, D. Cook, B. Stegelmeier, K. Welch, J. Pfister, K. Panter, A. Cibils, M. Ralphs, M. Encinias, K. McDaniel, D. Thompson, and K. Gardner. 2009. Solutions to Locoweed Poisoning in New Mexico and Western US: Collaborative Research between New Mexico State University and the USDA/ARS Poisonous Plant Lab. *Rangelands* 31:3-8.
- Thompson, D.C., B.A. Petersen, D.W. Bean, and J.C. Keller. 2008. Hybridization potential of saltcedar leaf beetle, *Diorhabda elongata*, ecotypes. *In: Julien, M.H., R. Sforza, M.C. Bon, H.C. Evans, P.E. Hatcher, H.L. Hinz, and B.G. Rector (Eds.), Proceedings of the XII International Symposium on Biological Control of Weeds, La Grande Motte, France, 22-27 April, 2007.* CAB International, Wallingford, U.K.
- DeLoach, C.J., P.J. Moran, A.E. Knutson, D.C. Thompson, R.I. Carruthers, G.D. Michels, M. Muegge, D. Eberts, C. Randall, J.E. Everitt, S. O'Meara, J. Sanabria. 2008. Beginning success in biological control of saltcedars (*Tamarix* spp.) in the southwestern United States. *In: Julien, M.H., R. Sforza, M.C. Bon, H.C. Evans, P.E. Hatcher, H.L. Hinz, and B.G. Rector (Eds.), Proceedings of the XII International Symposium on Biological Control of Weeds, La Grande Motte, France, 22-27 April, 2007.* CAB International, Wallingford, U.K.
- Valles, S.M., C.A. Strong, D.H. Oi, S.D. Porter, R.M. Pereira, R.K. Vander Meer, Y. Hashimoto, L.M. Hooper- Bui, H. Sánchez-Arroyo, T. Davis, V. Karpakakunjaram, K.M. Vail, L.C. Graham, J.A. Briano, L.A. Calcaterra, L.E. Gilbert, R. Ward, K. Ward, J.B. Oliver, G. Taniguchi, D.C. Thompson. 2007. Phenology, distribution, and host specificity of *Solenopsis invicta* virus-1. *J. Invert. Path.* 96: 18–27.
- Ramirez, R., D.C. Thompson, and M. Remenga. 2006. The Influence of Low Humidity, *Pseudacteon* Flies (Diptera: Phoridae), and Competition by *Solenopsis xyloni* on *Solenopsis invicta* (Hymenoptera: Formicidae). *Environ. Entomol.* 35: 1037-1048.
- Jacobson, A.L., D.C. Thompson, L. Murray and S. Hanson. 2006. Establishing guidelines to improve identification of the fire ants, *Solenopsis xyloni* and *S. invicta*. *J. Econ. Entomol.* 99:313-322.
- Ramirez, R., and D.C. Thompson. 2006. Queen weights of polygyne *Solenopsis invicta* and *S. xyloni* suggest reduced competitive ability. *Southwest. Entomol.* 31: 49-54.
- Thompson, D.C. and K.T. Gardner. 2004. Using *Aphthona* flea beetles as a biological herbicide to control small patches of leafy spurge. *In: Cullen, J.M., D.T. Briese, D.J. Kriticos, W.M. Lonsdale, L. Morin, and J.K. Scott (eds), XI International Symposium on Biological Control of Weeds.* Canberra, Australia. pp. 481.
- Sterling, T.M., D.C. Thompson, and L.B. Abbott. 2004. Implications of Invasive Plant Variation for Weed Management. *Weed Tech.* 18:1319-1324.
- Deloach, C.J., Carruthers, R.I., Dudley, T.L., Eberts, D., Kazmer, D.J., Knutson, A.E., Bean, D.W., Knight, J., Lewis, P.A., Milbrath, L.R., Tracy, J.L., Tomic-Carruthers, N., Herr, J.C., Abbott, G., Prestwich, S., Harruff, G., Everitt, J.H., Thompson, D.C., Mityaev, I., Jashenko, R., Li, B., Sobhian, R., Kirk, A., Robbins, T.O., Delfosse, E.S. 2004. First Results for Control of Saltcedar (*Tamarix* spp.) in the Open Field in the Western United States. *In: XI International Symposium on Biological Control of Weeds.* pp. 505-513.
- Gardner, K.T. and D.C. Thompson. 2001. Development and phenology of the specialist grasshopper, *Hesperotettix viridis* (Orthoptera: Acrididae). *Southwestern Entomol.* 26:
- Thompson, D.C. and K.T. Gardner. 2000. Controlling leafy spurge using *Aphthona* flea beetles: One year after mass release. Pp. 143-44 *In: Spencer, N. R. [ed], X International Symposium on Biological Control of Weeds.* Bozeman, MT.

**Referred Publications (cont.):**

- Thompson, D.C. and K.T. Gardner. 1999. Basic biology of *Melanoplus aridus*, a forbivorous grasshopper common on some southwestern rangelands. *Southwest. Entomol.* 24: 321-330.
- Gardner, K.T. and D.C. Thompson. 1998. Influence of avian predation on a grasshopper assemblage that feeds on threadleaf snakeweed (*Gutierrezia microcephala*). *Environ. Entomol.* 27: 110-116.
- Thompson, D.C. and K.T. Gardner. 1996. Importance of grasshopper defoliation period on southwestern blue grama-dominated rangeland. *J. Range Manage.* 49: 494-498.
- Thompson, D.C., K.C. McDaniel and L.A. Torell. 1996. Feeding by a native grasshopper reduces densities and biomass of broom snakeweed. *J. Range. Manage.* 49: 407-412.
- Pomerinke, M.A., D.C. Thompson and D.L. Clason. 1995. Bionomics of the four-lined locoweed weevil (Coleoptera: Curculionidae): A native biological control of purple locoweed. *Environ. Entomol.* 24: 1696-1702.
- Thompson, D.C., J.L. Knight and T.S. Sterling. 1995. Preference for specific varieties of woolly locoweed by a specialist weevil, *Cleonidius trivittatus* (Say). *Southwest. Entomol.* 20: 325-333.
- Thompson, D.C., L.A. Torell, E.W. Huddleston and J.H. Davis. 1995. Forage destruction by *Aulocara ellioti* (Orthoptera: Acrididae) on rangeland in the southwestern United States. *J. Econ. Entomol.* 88: 1455-1460.
- Thompson, D.C., K.C. McDaniel, L.A. Torell and D.B. Richman. 1995. Damage potential of *Hesperotettix viridis* (Orthoptera: Acrididae) on a native rangeland weed, *Gutierrezia sarothrae*. *Environ. Entomol.* 24: 1315-1321.
- Pomerinke, M. A. and D. C. Thompson. 1995. *Cleonidius trivittatus* feeds exclusively on woolly locoweed in northeastern New Mexico. *Southwest. Entomol.* 20: 107-109.
- Richman, D.R., D.C. Thompson and J. O'Mara. 1992. Effects of leaf-tiers on broom snakeweed in central New Mexico. *Southwest. Entomol.* 17:187-189.
- Torell, L.A., J.H. Davis, E.W. Huddleston and D.C. Thompson. 1989. Economic injury levels for interseasonal control of rangeland insects. *J. Econ. Entomol.* 82:1289-1294.
- Thompson, D.C., J.L. Capinera and S.D. Pilcher. 1987. Comparisons of an aerial water-pan pheromone trap with traditional trapping techniques for the European corn borer (Lepidoptera: Pyralidae). *Environ. Entomol.* 16:154-158.
- Capinera, J.L. and D.C. Thompson. 1987. Dynamics and structure of grasshopper assemblages in shortgrass prairie. *Can. Entomol.* 119: 567-575.
- Capinera, J.L., N.D. Epsky, and D.C. Thompson. 1986. Effects of adult western corn rootworm (Coleoptera: Chrysomelidae) ear feeding on irrigated field corn in Colorado. *J. Econ. Entomol.* 79:1609-1612.
- Capinera, J.L., D.C. Thompson, and C.S. Hollingsworth. 1984. Taxonomic and ecological characteristics of crop pests in Colorado. *Environ. Entomol.* 13:202-206.
- Capinera, J.L., C.S. Hollingsworth, D.C. Thompson, and S.L. Blue. 1984. Ecological correlates of pest species richness on crop plants. *Prot. Ecol.* 6:287-297.
- Capinera, J.L., G.W. Wheatley, D.C. Thompson, and J. Jenkins. 1983. Computer assisted crop loss assessment: a microcomputer model for estimation of sugarbeet insect effects to facilitate decision-making in pest management. *Prot. Ecol.* 5:319-326.



### **Book Chapters:**

- DeLoach, C.J., A.E. Knutson, D.C. Thompson, D. Eberts, P. Moran and R.I. Carruthers. (In press) Research on Biological Control of Saltcedar in the United States, with Implications for Cooperation with Mexico. *In: Proc. 6<sup>th</sup> Symp. Natural Resources Chihuahuan Desert*. Chih. Des. Res. Inst. Alpine, TX.
- Thompson, D.C. and K.T. Gardner. 2004. The Future of Biological Management of Weeds on Rangelands: An Entomologist's Viewpoint. *In: Hamilton, W.T., A. McGinty, D.N. Ueckert, G.W. Hanselka, and M.R. Lee (eds) Brush management: Past, Present, Future*. San Angelo, TX. pp. 143-152.
- Sterling, T.M., D.C. Thompson, and K.C. McDaniel. 1999. Perennial Snakeweeds. Pp. 323-335. *In: Sheley, R.L. (Ed.). The Biology and Management of Noxious Rangeland Weeds*.
- Richman, D.B. and D.C. Thompson. 1998. Insect associations with woody snakeweeds in New Mexico, Texas, and Arizona. pp. 11-27. *In: Papers from the Fourth Symposium on Resources of the Chihuahuan Desert Region*. Chihuahuan Desert Research Institute, Alpine, TX.
- Newman, R.M., D.C. Thompson, and D.B. Richman. 1998. Conservation strategies for the biological control of weeds. pp. 371-396. *In: P. Barbosa (Ed). Conservation Biological Control*. Academic Press, New York.
- Thompson, D.C. 1987. Sampling rangeland grasshoppers, p. 219-233. *In: J.L. Capinera, (ed.) Integrated pest management on rangeland*. Westview press, Boulder, CO.

### **Agricultural Experiment Station Bulletins/Reports:**

- Sterling, T.M. and D.C. Thompson, editors. 1999. Locoweed Research: Updates and Highlights. NM Agric. Exp. Sta. Res. Report #730. 89 pp.
- Campanella, M.C., T.M. Sterling, and D.C. Thompson. 1999. *Walshia miscecolorella* caterpillars may alter swainsonine levels in white locoweed. *In: Sterling, T.M. and D.C. Thompson, (Eds.). Locoweed Research: Updates and Highlights NM Agric. Exp. Sta. Res. Report #730*. pp. 36-37.
- Thompson, D.C., J.L. Knight, T.M. Sterling, and K.T. Gardner. 1999. Locoweed weevils prefer certain varieties of locoweed. *In: Sterling, T.M. and D.C. Thompson, (Eds.). Locoweed Research: Updates and Highlights NM Agric. Exp. Sta. Res. Report #730*. pp. 48-49.
- Gardner, K.T. and D.C. Thompson. 1999. Are rangeland insect spray programs enhancing weed problems? *In: Sterling, T.M. and D.C. Thompson, (Eds.). Locoweed Research: Updates and Highlights NM Agric. Exp. Sta. Res. Report #730*. pp. 50-51.
- Pomerinke, M., D.C. Thompson, and K.T. Gardner. 1999. Understanding the locoweed weevil's life history and damage potential. *In: Sterling, T.M. and D.C. Thompson, (Eds.). Locoweed Research: Updates and Highlights NM Agric. Exp. Sta. Res. Report #730*. pp. 46-47.
- Thompson, D.C. 1999. Common locoweed-feeding insects. *In: Sterling, T.M. and D.C. Thompson, (Eds.). Locoweed Research: Updates and Highlights NM Agric. Exp. Sta. Res. Report #730*. pp. 42-45.
- Sterling, T.M. and D.C. Thompson. (eds.) 1993. Snakeweed Research: Updates and Highlights. NM Agric. Exp. Sta. Res. Report #674.
- Thompson, D.C. and D.B. Richman. 1993. A grasshopper that only eats snakeweed? pp. 18-19. *In: Sterling, T.M. and D.C. Thompson (eds). Snakeweed Research: Updates and Highlights. NM Agric. Exp. Sta. Res. Report #674*.

### **Agricultural Experiment Station Bulletins/Reports (cont.):**

- Thompson, D.C. and T.M. Sterling. 1993. Snakeweed species influence snakeweed grasshoppers differently. pp. 20-21. *In: Sterling, T.M. and D.C. Thompson (eds). Snakeweed Research: Updates and Highlights. NM Agric. Exp. Sta. Res. Report #674.*
- Richman D.B. and D.C. Thompson. 1993. Can leaf-tiers control broom snakeweed? pp. 24-25. *In: Sterling, T.M. and D.C. Thompson (eds). Snakeweed Research: Updates and Highlights. NM Agric. Exp. Sta. Res. Report #674.*
- Thompson, D.C., E.W. Huddleston and L.A. Torell. 1990. Economic injury level project/warm season grasses. pp. 117-123. *In: USDA/AHPIS/PPQ Fiscal Year 1989 Annual Report of the Grasshopper Integrated Pest Management Project, Boise, Idaho.*
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- Guenther, D.A., K.T. Gardner and D.C. Thompson. 2009. Influence of nutrient levels in saltcedar (*Tamarix* spp.) on saltcedar leaf beetle (*Diorhabda* spp.) fitness Annual National Meeting of the Entomological Society of America.  
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- DeLoach, C.J., R.I. Carruthers, A.E. Knutson, F. Nibling, D. Eberts, D.C. Thompson, D.J. Kazmer, T.L. Dudley, D.W. Bean, J.B. Knight, and L.R. Milbrath. 2006. Overview of Saltcedar Biological Control. *In: Aguirre-Bravo, C., P.J. Pellicane, D.P. Burns, and S. Draggan (eds). Monitoring Science and Technology Symposium: Unifying Knowledge for Sustainability in the Western Hemisphere.* USDA/USFS Rocky Mountain Research Station Proceedings RMRS-P-42CD. Fort Collins, CO 990 pp.
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### Professional Presentations:

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- Gardner, K.T., D.C. Thompson and D.A. Guenther. 2009. Impacts of *Rhinocyllus conicus* and a native weevil, *Lixus perversitius*, on the endangered Sacramento Mountains thistle. SWB ESA Annual Meeting, Stillwater, OK Feb. 16, 2009.
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- Gardner, K.T., D.C. Thompson, J.E. Parker, and B. Zens. 2008. A survey for *Rhinocyllus conicus* and its impacts on the endangered Sacramento Mountains thistle (*Cirsium vinaceum*). SWB ESA Annual Meeting, Fort Worth, TX Feb. 24, 2008.
- Zens, B., K.T. Gardner and D.C. Thompson. 2008. Variable fitness of *Diorhabda elongata* feeding in a common garden of *Tamarix* from the western United States. SWB ESA Annual Meeting, Fort Worth, TX Feb. 24, 2008.
- Park, I.J., D.C. Thompson and S. Sanogo. 2008. Possible relationship between mesquite gall flies (*Asphondylia* spp.) and ambrosia fungi. SWB ESA Annual Meeting, Fort Worth, TX Feb. 24, 2008.
- Parker, J.E. and D.C. Thompson. 2008. Biological control agent or pest? The impact of insect herbivory on the alkaloid swainsonine in locoweed species. SWB ESA Annual Meeting, Fort Worth, TX Feb. 24, 2008.
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- Gardner, K.T., B. Zens and D.C. Thompson. 2007. Fitness of *Diorhabda elongata* (Coleoptera;Chrysomelidae) feeding on stunted primordial regrowth of chemically controlled *Tamarix*.. SWB ESA Annual Meeting, Corpus Christi, TX. Feb 20, 2007.
- Beuhler, H. and D.C. Thompson. 2007. Biology of the gall midge *Asphondylia prosopidis*, and its potential use as a biological control agent for mesquite. SWB ESA Annual Meeting, Corpus Christi, TX. Feb 20, 2007.
- Parker, J.E. and D.C. Thompson. 2006. Effects of insect herbivory on swainsonine in locoweed species. National ESA Annual Meeting. Indianapolis, IN. Dec. 11, 2006.
- Thompson, D.C. and A.L. Jacobson. 2006. How important is it to confirm morphological identifications of fire ants with molecular techniques prior to implementing quarantine actions? National ESA Annual Meeting. Indianapolis, IN. Dec. 10, 2006. (Invited)
- Petersen, B. and D.C. Thompson. 2006. Monitoring Population Dynamics in Field Cages between Mixed Populations of Saltcedar Leaf Beetle Ecotypes. SWB ESA Annual Meeting, Austin, TX. Feb. 27, 2006.

**Professional Presentations (cont.):**

- Gardner, K.T. and D.C. Thompson. 2006. Using Kite Aerial Photography in Agricultural Research. SWB ESA Annual Meeting, Austin, TX. Feb. 27, 2006.
- Petersen, B. and D.C. Thompson. 2006. Effects of Mixing Greek and Chinese Saltcedar Leaf Beetles in Large Field Cages. pp. 40-41. Tamarisk Research Conference. Ft. Collins, CO. Oct. 3-4, 2006.
- Petersen, B. and D.C. Thompson. 2006. Effects of Mixing Greek and Chinese Saltcedar Leaf Beetles in Large Field Cages. National ESA Annual Meeting. Indianapolis, IN. Dec. 11, 2006.
- Thompson, D.C. and A.L. Jacobson. 2005. Establishing guidelines to distinguish *Solenopsis invicta* from *Solenopsis xyloni*. 2005 Red Imported Fire Ant Conference. Gulfport, MS. March 22, 2005.
- Jacobson, A.L. and D.C. Thompson. 2005. Using PCR Based Techniques to Accurately Identify and Distinguish the Fire Ants *Solenopsis invicta* and *S. xyloni*. SWB ESA Annual Meeting. Albuquerque, NM. Feb. 26, 2005
- Petersen, B.A. and D.C. Thompson. 2005. Potential of Hybridization Between Mixed Populations of Crete and Fukang Saltcedar Leaf Beetle Ecotypes. SWB ESA Annual Meeting. Albuquerque, NM. Feb. 26, 2005
- DeLoach, C.J., A.E. Knutson, D.C. Thompson, D. Eberts, P. Moran and R.I. Carruthers. 2004. Research on Biological Control of Saltcedar in the United States, with Implications for Cooperation with Mexico. 6<sup>th</sup> Symp. Natural Resources Chihuahuan Desert. Alpine, TX Oct. 15, 2004.
- DeLoach, C.J., R.I. Carruthers, A.E. Knutson, F. Nibling, D. Eberts, D.C. Thompson, D.J. Kazmer, T.L. Dudley, D.W. Bean, J.B. Knight, and L.R. Milbrath. 2004 Overview of Saltcedar Biological Control. Monitoring Science and Technology Symposium. Denver, CO Sept. 20-24, 2004.
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- Thompson, D.C. and B.A. Petersen. 2004. Hybridization of *Diorhabda* ecotypes: Implications for saltcedar management National ESA Annual Meeting. Salt Lake City, UT. Nov. 15, 2004 (Invited).
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- Jacobson, A.L., D.C. Thompson, and L. Murray. 2004. Quantifying morphological variability to improve identification of the fire ants, *Solenopsis xyloni* and *Solenopsis invicta*. SWB ESA Annual Meeting. Lubbock, TX. Feb. 28, 2004
- Petersen, B.A. and D.C. Thompson. 2004. Hybridization of Fukang and Crete ecotypes of *Diorhabda elongata*. SWB ESA Annual Meeting. Lubbock, TX. Feb. 28, 2004
- Thompson, D.C. and K.T. Gardner. 2004. First release of Saltcedar Biological Control Agent in NM. SWB ESA Annual Meeting. Lubbock, TX. Feb. 28, 2004
- Sterling, T.C., D.C. Thompson, and L. Abbott. 2003. Implications of weedy plant variation for the management of rangeland weeds. IPNAMS-EMAPI Symposium. Fort Lauderdale, FL. Nov 8, 2003 (Invited)
- Jacobson, A.L. and D.C. Thompson. 2003. Quantifying morphological variability to improve identification of the fire ants, *Solenopsis xyloni* and *Solenopsis invicta*. National ESA Annual Meeting. Cincinnati, OH. Oct. 27, 2003

**Professional Presentations (cont.):**

- Beuhler, H. and D.C. Thompson. 2003. Comparison of data collection methods (sweep netting, vegetation clipping, and visual observation) to evaluate biodiversity and abundance in riparian environments dominated by saltcedar and coyote willow. National ESA Annual Meeting. Cincinnati, OH. Oct. 27, 2003
- Ramirez, R. and D.C. Thompson. 2003. Influence of low humidity, phorid flies, and competition by *Solenopsis xyloni* and *Solenopsis invicta*. National ESA Annual Meeting. Cincinnati, OH. Oct. 27, 2003
- Thompson, D.C. 2003. Biological Control of Saltcedar in the Western US. W-1185 Annual Meeting. Pacific Grove, CA. Oct. 2, 2003 (Invited)
- Thompson, D.C. and K.T. Gardner. 2003. Using *Aphthona* flea beetles as a biological herbicide to control small patches of leafy spurge. XI International Symposium on Biological Control of Weeds. Canberra, Australia. May 1, 2003.
- Ramirez, R. and D.C. Thompson. 2003. Influence of phorid flies and low humidity on foraging strategies of *Solenopsis* spp. 2003 Red Imported Fire Ant Conference. Palm Springs, CA. April 1, 2003
- Beuhler, H. and D.C. Thompson. 2003. Comparison of arthropod sampling methods on saltcedar, coyote willow, and screwbean mesquite. SWB ESA Annual Meeting. Oklahoma City, OK. Feb. 24, 2003
- Smith, P. and D.C. Thompson. 2003. Composition of predator populations in saltcedar field plots. SWB ESA Annual Meeting. Oklahoma City, OK. Feb. 24, 2003
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- Ramirez, R. and D.C. Thompson. 2002. Can *Solenopsis invicta* compete with the native *S. xyloni* in a semi-arid habitat? National ESA Annual Meeting. Ft. Lauderdale, FL. Nov. 18, 2002
- Beuhler, H. and D.C. Thompson. 2002. Comparison of arthropod diversity and abundance in riparian environments dominated by *Tamarix ramosissima* (Violales: Tamaricaceae) and *Salix exigua* (Salicales: Salicaceae). National ESA Annual Meeting. Ft. Lauderdale, FL. Nov. 18, 2002
- Smith, P. and D.C. Thompson. 2002. Factors influencing saltcedar leafhopper, *Opsius stactogalus*, population dynamics. SWB ESA Annual Meeting. Guanajuato, Gto., Mexico. Feb. 27, 2002
- Doughty, H. and D.C. Thompson. 2002. Development of a community based biological control program for leafy spurge (*Euphorbia esula*) using *Aphthona* flea beetles. SWB ESA Annual Meeting. Guanajuato, Gto., Mexico. Feb. 27, 2002
- Thompson, D.C., K.T. Gardner, and L.A. Torell. 2002. Weed-feeding grasshoppers increase the value of southwestern U.S. rangelands. SWB ESA Annual Meeting. Guanajuato, Gto., Mexico. Feb. 27, 2002
- Thompson, D.C. and K.T. Gardner. 2001. Inundative Control of Isolated Patches of Leafy Spurge Using *Aphthona* Flea Beetles. SWB ESA Annual Meeting. San Antonio, TX Feb 21, 2001.



**Professional Presentations (cont.):**

- Gardner, K.T., D.C. Thompson, and L.W. Murray. 1998. Influence of vegetation cover on egg deposition by a specialist rangeland grasshopper. National ESA Annual Meeting. Las Vegas, NV Nov. 9, 1998.
- Thompson, D.C., K.T. Gardner, and L.W. Murray. 1998. Inundative strategies using *Aphthona* flea beetles for leafy spurge management. National ESA Annual Meeting. Las Vegas, NV Nov. 11, 1998.
- Thompson, D.C., K.T. Gardner, and L.W. Murray. Mass released flea beetles for leafy spurge control in New Mexico. Ann. Mtg. Soc. Range Management – NM Section. Albuquerque, NM Dec. 9-10, 1998.
- Thompson, D.C. and K.T. Gardner. 1996. Basic biology of *Melanoplus aridus*, a forbivorous grasshopper common on some southwestern rangelands. Annual meeting of Entomol. Soc. Amer., Louisville, Kentucky.
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- Gardner, K.T. and D.C. Thompson. 1995. Influence of avian predation on a population of snakeweed grasshoppers (Orthoptera: Acrididae). Annual meeting of Entomol. Soc. Amer., Las Vegas, NV.
- Richman, D.B., D.C. Thompson, M. Hussein, and D. Gandolfo. 1994. Ecology of natural enemies of woody snakeweeds in the southwestern United States. Annual meeting Entomol. Soc. Amer., Dallas, TX.
- Thompson, D.C. and J.S. Holterman. 1994. The influence of foraging by snakeweed grasshoppers on seedling survival. Annual meeting of the SW Branch of the Entomol. Soc. Amer., Monterrey, Nuevo Leon, Mexico.
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- Thompson, D.C., K.C. McDaniel and L.A. Torell. 1993. The role of *Hesperotettix viridis* as a biological control agent for *Gutierrezia sarothrae*. Western Regional IPM Meeting, Portland, OR.
- Turcotte, R.M. and D.C. Thompson. 1992. Integrated control of broom snakeweed by strip management at two selected locations in New Mexico. Annual meeting Entomol. Soc. Amer., Baltimore, MD and at the 1993 All College Conference, Las Cruces, NM.
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- Thompson, D.C., K.C. McDaniel and L.A. Torell. 1991. The role of *Hesperotettix viridis* as a biological control agent for *Gutierrezia sarothrae*. Western Regional IPM Meeting, Portland, OR.
- Thompson, D.C. and D.B. Richman. 1991. Using a rangeland grasshopper as a biological control agent of snakeweed: Damage to individual plants. Annual meeting of the SW Branch of the Entomol. Soc. Amer., College Station, TX.



**Professional Presentations (cont.):**

- Thompson, D.C., P.B. Blandford, L.A. Torell and E.W. Huddleston. 1990. Grasshopper damage on a rangeland dominated by warm season grasses: Importance of defoliation period. Annual meeting Entomol. Soc. Amer., New Orleans, LA.
- Thompson, D.C., E.W. Huddleston and L.A. Torell. 1989. Economic injury level on warm season grasses. Annual meeting of the Grasshopper Integrated Pest Management Project, Boise, Idaho.
- Davis, J.H. and D.C. Thompson. 1989. Variable hatching windows and species longevity of grasshoppers in the southwest. Annual meeting SW Branch of the Entomol. Soc. Amer., El Paso, TX.
- Niassy, A., J.H. Davis, D.C. Thompson and R. Sanderson. 1989. Attraction and phagostimulation of grasshoppers by selected bait components. Annual meeting Entomol. Soc. Amer., San Antonio, TX.
- Thompson, D.C., L.A. Torell, J.L. Swain and E.W. Huddleston. 1988. Consumption of warm season grasses by various densities of a rangeland grasshopper. Annual meeting SW Branch of the Entomol. Soc. Amer., Dallas, TX.
- Thompson, D.C. 1987. Economic injury levels for grasshoppers feeding on warm season grasses. Grasshopper Integrated Pest Management Technical Working Group Meeting, Boise, ID.
- Thompson, D.C. 1986. Sampling rangeland grasshoppers. Symposium on integrated pest management on rangeland: state-of-the-art in the shortgrass prairie ecosystem. Colorado State University, Fort Collins, CO.
- Thompson, D.C. and J.L. Capinera. 1986. Using night cages to examine errors associated with common rangeland grasshopper sampling techniques. Annual meeting of Entomol. Soc. Amer., Reno, NV.
- Thompson, D.C. and S.D. Pilcher. 1985. Comparison of a water pan pheromone trap to traditional trapping techniques for the European corn borer. Annual meeting of Entomol. Soc. Amer., Hollywood, FL.
- Thompson, D.C. 1984. Determining and utilizing distribution patterns presentations to improve grasshopper sampling techniques. Annual meeting of Entomol. Soc. Amer., San Antonio, TX.

**Membership in all University (including departmental) committees.**

- NMSU Council for Associate Deans of Research (CADRe) 2010-present
- NMSU VP for Finance Search Committee (2011)
- EPWS Safety Committee (Chair) 1997-2001
- EPWS Scholarship Committee 2000-2007
- EPWS Graduate Student Selection Committee 1996-2007
- EPWS Agronomic Entomologist Search Committee (Chair) 2000
- ACES Assoc Dean and Director of Academic Programs Search Committee (Chair) 2009
- ACES Quarantine Officer for the high containment insect facility (Quarantine lab) in Skeen Hall (2000 – 2010).
- ACES Curriculum Committee 1998-2007
- ACES Advisement Committee 2003-2009
- AGHE Safety Committee 1997-2000
- AGHE Academic Appeals Committee 1994-2002
- AGHE All College-Conference Planning Committee 1999-2002
- AGHE Associate Dean of Resident Instruction Search Committee 2003

AGHE Articulation Task Force Committee 2003-2005

AGHE Dean's search committee (Elected member representing the teaching faculty) 2005

NMSU Minority Access to Research Careers (MARC) 2001-2010

NMSU National Scholarship Committee (formerly University Fellowship Committee) 2002-2007.

NMSU Conflict of Interest Committee (Substitute member) 2004

New Mexico Pest Survey and Detection Program planning committee, 1987-1997.

**Membership in societal and national committees.**

Executive Committee, Western Association of Agricultural Experiment Station Directors (2010-present) – Chair 2013

Member of the national Science and Technology Committee of the Experiment Station Committee on Organization and Policy - ESCOP – (2012-present).

Administrative Advisor to the USDA multi-state regional project: W3185 - Biological Control in Pest Management Systems of Plants (2010-present).

Administrative Advisor to the USDA multi-state regional project: W3186 – Variability, Adaptation, and Management of Nematodes Impacting Crop Production and Trade (2010-present).

Administrative Advisor to the USDA multi-state regional project: W3004 – Marketing, Trade, and Management of Aquaculture and Fishery Resources (2015-present).

Administrative Advisor to the USDA multi-state regional project: W1193 – Locoweed and its Fungal Endophyte: Impact, Ecology, and Management (2014-present).

Member of the Youth Science Development Committee, SW branch of Entomological Society of America. (1991-2008).

Member of the Awards Committee, SW branch of Entomological Society of America. (1994-2007).

Member of the Student Research Paper Award Committee, SW branch of Entomological Society of America. (1991,1994, 2003,2004).

Executive Committee, SW branch of Entomological Society of America (2001-2007) – Sec/Treas 2004; VPres 2005, Pres 2006, Past Pres 2007).

Chair of the W-1185 USDA Multi-State Regional Project (2005)

Cooperative National Plant Pest Survey and Detection Program, Automated data processing committee, (1982-1987).