

FABIÁN DANIEL MENALLED

May 16, 2015

Professor of Weed Ecology and Management

Professional expertise: Weed ecology and management, agroecology and sustainable farming, cropping systems, basic and applied plant ecology, population and community ecology.

Montana State University

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Education

Ph.D. 1996. University of Massachusetts, Amherst.

B.S. 1984. University of Buenos Aires, Argentina. Biological Sciences.

Professional Experience

- 2014-ongoing Professor. Department of Land Resources and Environmental Sciences. Montana State University, Bozeman, Montana
- 2010 – 2014 Associate Professor. Department of Land Resources and Environmental Sciences. Montana State University, Bozeman, Montana
- 2004 – 2010 Assistant Professor. Department of Land Resources and Environmental Sciences. Montana State University, Bozeman, Montana.
- 2003 – 2004 Associate Scientist. Department of Agronomy. Iowa State University, Ames, Iowa.
- 2001 – 2003 Postdoctoral Research Associate. Iowa State University, Ames, Iowa.
- 1998 – 2001 Visiting Assistant Professor. Department of Entomology. Michigan State University, E. Lansing, Michigan.
- 1996 – 1997 Postdoctoral Research Associate. Department of Entomology. Michigan State University, E. Lansing, Michigan.
- 1995 – 1995 Research Assistant. Harvard Forest. Harvard University, Petersham, Massachusetts.
- 1990 – 1995 Research Assistant. Department of Forestry and Wildlife. University of Massachusetts, Amherst, Massachusetts.
- 1986 – 1990 Research Assistant. National Scientific Research Council, Buenos Aires, Argentina.
- 1985 – 1986 Research Assistant. Department of Biological Sciences. University of Buenos Aires, Buenos Aires, Argentina.

Awards, Grants, and Contracts

Total Awarded = \$14,708,311

Total Awarded as PI = \$3,972,191

Ongoing major awards

- | | | |
|-----------|-----------|---|
| 2016 | \$24,998 | USDA – WSARE. Extension and outreach supporting climate-resilient sustainable agriculture in Montana. F. Menalled |
| 2016-2019 | \$499,990 | NIFA – ORG. Assessing the resiliency of integrated crop-livestock organic systems in water-limited environments under current and predicted climate. F. Menalled , E. Lehnhoff, P. Hatfield, P. Miller, T. Gedeon, R. Engel, Z. Miller, M. Burrows, A. Bekkerman, and E. Glunk |

Fabián Menalled – Curriculum Vitae

2016-2019	\$158,000	USDA- NIFA. W. Dyer, B. Keith, E. Lehnhoff, and F. Menalled Molecular, physiological, and ecological characterization of multiple herbicide resistance in <i>Avena fatua</i>
2015-2016	\$10,000	Bureau of Land Management. Biological control and integrated management of invasive annual grasses. Mangold, J. and F. Menalled
2015-2016	\$14,555	Montana Wheat and Barley Committee. Assessing integrated approaches to manage Canada thistle and field bindweed in small-grain systems. A meta-analysis approach. F. Menalled , N. Orloff, J. Mangold, Z. Miller, and E. Lehnhoff
2015-2016	\$11,520	Montana Wheat and Barley Committee. Expanding the understanding of the impacts and management of field bindweed in organic grain production. Z. Miller, B. Maxwell, E. Lehnhoff, and F. Menalled .
201-2016	\$8,000	Montana Noxious Weed Trust Fund. A meta-analysis of previous Canada thistle (<i>Cirsium arvense</i>) and field bindweed (<i>Convolvulus arvensis</i>) control and management studies. Menalled, F. , N. Orloff, J. Mangold, Z. Miller, and E. Lehnhoff
2015-2016	\$45,410	Montana Noxious Weed Trust Fund. Managing dense cheatgrass infestations on rangeland, and understanding its impacts under an altered climate. Lehnhoff, E., J. Mangold, F. Menalled , P. Hatfield, L. Rew and T. Seipel
2014-2017	\$420,000	USDA-NIFA-CPPM. Montana State University's Extension Implementation Plan for Integrated Pest Management. Burrows, M., T. Day, L. Kerzicnik, J. Mangold, F. Menalled , C. Tharp, and K. Wanner
2012-2016	\$1,499,815	USDA - OREI. Targeted grazing to reduce tillage in organic dryland: Environmental, ecological, and economic assessment of reintegrating animal and crop production. Menalled, F. , P. Carr, P. Hatfield, P. Miller, D. Weaver, M. Burrows, R. Engle, A. Bekkerman, J. Boles, Z. Miller, R. Quinn, L. Burkle, K. O'Neill, G. Gramig, and K. Ringwall.
2012-2016	\$213,658	USDA - PMAP. Burrows, M., F. Menalled , Z. Miller, R. Peterson, A. Bekkerman and B. Jacobsen. Integrated management of mite-transmitted cereal viruses.
2012-2016	\$98,600	USDA - WRIPM. Optimizing efficacy of downy brome (<i>Bromus tectorum</i>) biocontrol in crops and rangelands: integration and implementation. Menalled, F. , Z. Miller, J. Mangold, and A. Dyer.
2012-2017	\$3,375,000	USDA – AFRI Food Security. A predictive model to increase adoption of IPM of a mite-virus disease complex in wheat. Hein, G., S. Wegulo, J. Bradshaw, A. Zygielbaum, D. Namuth-Covert, D. Lyon, D., Golick, C. Rush, F., Workneh, M. Burrows, I. Grimberg, F. Menalled , Z. Miller, E. DeWolf, F. Epplin, R. Hunger, K. Kelsey, S. Tatineni, R. French, R. Graybosch, N. Tisserat. Total allocated to MSU: \$815,000.

On-Campus Teaching Activities

Instructor

- 2011. Montana State University LRES 500 –Graduate level—Departmental Seminar.
- 2009. Montana State University LRES 580 –Graduate level-- Scientific and technical writing in natural resources and environmental sciences
- 2007. Montana State University. LRES 528 – Graduate level- Bridging Principles and Practices of Sustainable Cropping Systems. Jointly offered with Dr. Perry Miller. Fall 2007.
- 2003. Iowa State University. Agronomy 230 – Undergraduate level – Crop Structure and Function. Jointly offered with Dr. R. Romero

2002. Iowa State University. Sustainable Agriculture 530 -Graduate level- Ecologically Based Pest Management Strategies. Jointly offered with Dr. M. Liebman, Dr. J. Obrycki, and Dr. M. Gleason.
1999. Michigan State University. Entomology 812 - Graduate - Contributions of Ecological Theory to Biological Control.
1998. Michigan State University. Entomology 812 - Graduate level- Current Ideas in Insect Behavior and Ecology. Jointly offered with Dr. R. Isaacs.
1997. Michigan State University. Extension Training Course. Biological Control in Field Crops; A Web-based Course for Agricultural Professionals. Jointly offered with Dr. D. Landis.

Undergraduate Students, Graduate Students, and Post-Docs

	Total	Graduated. Advisor or co-advisor	Current. Advisor or co-advisor	Member of the committee
Post-Docs	6	5	1	--
PhD students	7	2	4	1
MS students	14	10	2	2

Publications

	Total	Main author	Co-author
Peer-reviewed publications	81	22	59
Books / Booklets	2	--	2
Book chapters	12	8	4
Extension – technical bulletins	28	15	13
News releases – popular press	118	117	--

(+ = undergraduate student, * = graduate student, major advisee; ** = graduate student outside of my lab; *** = postdoctoral research associate or other employee)

Articles in Peer-Reviewed Journals

1. McKenzie, S.*, H. Goosey, K. M. O'Neill, and **F. Menalled**. 2016. Integrating livestock for cover crop termination in horticultural vegetable production: Impacts on weed and ground beetle (Coleoptera: carabidae) communities. *Agriculture, Ecosystems and Environment* 218: 141-149.
2. Keith, B, E. Lehnhoff***, E. Burn*, **F. Menalled**, and W. Dyer. 2016. Characterization of *Avena fatua* L. populations with resistance to multiple herbicide mechanisms of action. *Weed Research* 55:621-630.
3. Miller, Z. ***, E. Lehnhoff***, **F. Menalled** and M Burrows. 2016. Effects of soil nitrogen and atmospheric carbon dioxide on Wheat streak mosaic virus and its vector (*Aceria tosichella* Kiefer). *Plant Disease* 99:1803-1807..
4. Keith, B, E. Lehnhoff***, E. Burn*, **F. Menalled**, and W. Dyer. *In Press*. Characterization of *Avena fatua* L. populations with resistance to multiple herbicide mechanisms of action. *Weed Research*
5. **Menalled, F.** 2015. Lentil Underground – Renegade Farmers and the Future of Food *in America* by Liz Carlisle. Invited review. *Agroecology and Sustainable Food Systems* 39:1172-1174.
6. Lehnhoff, E***., Z. Miller***, **F. Menalled**, D. Ito**, and M. Burrows. 2015. Wheat and barley susceptibility and tolerance to multiple isolates of Wheat streak mosaic virus. *Plant Disease* 99:1383-1389.

7. Goosey, H.B, S. C. McKenzie, M. G. Rolson, K. M. O'Neill, and **F. Menalled**. 2015. Impacts of contrasting alfalfa (*Medicago sativa*) production systems on the drivers of carabid beetle (Coleoptera: Carabidae) community dynamics. *Environmental Entomology* 44:1052-1064.
8. Barroso, J.***, Z. Miller***, E. Lehnhoff***, P. Hatfield, and **F. Menalled**. 2015. Impacts of cropping system and management practices on the assembly of weed communities. *Weed Research* 55:426-435.
9. Miller, Z.*** and **F. Menalled**. 2015. Impact of species identity and phylogenetic relatedness on biologically-mediated plant-soil feedbacks in a low and a high intensity agroecosystem. *Plant and Soil* 389: 171-183.
10. Keren, I.*, **F. Menalled**, D. Weaver, and J. Robison-Cox. 2015. Interacting agricultural pest management practices and their effect on crop yield: Application of a Bayesian decision theory approach to the joint management of *Bromus tectorum* and *Cephus cinctus*. *PLOS ONE* DOI: 10.1371/journal.pone.0118111
11. Miller, Z.***; **F. Menalled**, U.M. Sainju, A.W. Lenssen, and P.G. Hatfield. 2015. Integrating sheep grazing into cereal-based crop rotations: Spring wheat yields and weed communities. *Agronomy Journal* 107: 104-112.
12. Orloff, L.*, J. Mangold, and **F. Menalled**. 2015. Site-specific effects of exotic annual grass control on integrated with revegetation. *Ecological Restoration* 33:147-155.
13. Miller, Z.***, **F. Menalled**, D. Ito**, M. Moffet***, and M. Burrows. 2014. Impacts of crop variety and time of inoculation on the susceptibility and tolerance of winter wheat to Wheat streak mosaic virus. *Plant Disease* 98: 1060-1065.
14. Liebman, M., Z. Miller, C. Williams, P.R. Westerman, P.M. Dixon, A. Heggenstaller, A.S. Davis, **F.D. Menalled**, and D.N. Sundberg. 2014. Fates of *Setaria faberi* and *Abutilon theophrasti* seeds in three crop rotation systems. *Weed Research* 54:293-306.
15. Mangold, J., H. Parkinson, C. Duncan, P. Rice, E. Davis, and **F. Menalled**. 2013. Controlling downy brome (*Bromus tectorum*) with imazapic on Montana rangeland. *Invasive Plant Science and Management* 6:554-558.
16. Lehnhoff, E.*** and **F. Menalled**. 2013. Impacts of Tamarix-mediated soil changes on restoration plant growth. *Applied Vegetation Science* 16:438-447.
17. Lehnhoff, E.***, B. K. Keith, W. E. Dyer, R. K. Peterson, and **F. Menalled**. 2013. Characterization of multiple herbicide resistance in wild oat (*Avena fatua*) and its impacts on physiology, germinability, and seed production. *Agronomy Journal* 105:854-862.
18. Orloff, N.*, Z.J. Miller, **F.D. Menalled**, M.E. Burrows, and J.M. Mangold. 2013. Joint impacts of biological and environmental stressors on *Bromus tectorum* growth. *Weed Research* 53:192-200.
19. Lehnhoff, E.***, B. Keith, W. Dyer, and **F. Menalled**. 2013. Does multiple herbicide resistance modify crop-weed competitive interactions? Impact of biotic and abiotic stresses on multiple herbicide resistant wild oat (*Avena fatua*) in competition with wheat (*Triticum aestivum*). *PLoS ONE* 8(5): e64478. doi:10.1371/journal.pone.0064478.
20. Davis P.*, B. Maxwell, and **F. Menalled**. 2013. Impact of growing conditions on the competitive ability of *Camelina sativa* (L.) Crants (Camelina). *Canadian Journal of Plant Sciences* 93: 243-247.
21. Miller, Z.***, M. Burrows, and **F. Menalled**. 2013. Winter annual grassy weeds increase disease induced overwinter mortality in fall-sown cereals. *Weed Research* 53:102-109.
22. Blake, N.K., D. Clark, S. P. Lanning, G. R. Carlson, P. F. Lamb, D. Nash, D. M. Wichman, K. D. Kephart, R. N. Stougaard, J. Miller, J. L. Eckhoff, **F. Menalled**, E. Davis, and L. E. Talbert. . 2013. Registration of WB 9879CLP Hard Red Spring Wheat. *Journal of Plant Registrations* 7: 205-208.
23. Miller Z.***, M. Burrows, and **F. Menalled**. 2013. Effects of nitrogen fertilization on risks and impacts of wheat streak mosaic disease. *Phytopathology* 103:97-97.
24. Burrows, M., Z. Miller***, **F. Menalled**. 2013. Estimating susceptibility to Wheat streak mosaic virus infection in non-crop grasses. *Phytopathology* 103:22-22

25. Orloff, N.* , J. Mangold, and **F. Menalled**. 2013. Role of size and nitrogen in competition between annual and perennial grasses. *Invasive Plant Science and Management* 6:87:-98.
26. Ito, D.** , Z. Miller***, **F. Menalled**, M. Moffet, M. Burrows. 2012. Relative susceptibility among alternative host species prevalent in the Great Plains to Wheat streak mosaic virus. *Plant Disease* 96:1185-1192.
27. Lehnhoff, E.***, L.J. Rew, C. Zabinski, and **F. Menalled**. 2012. Reduced impacts or a longer lag phase? Tamarix in the northwestern U.S.A. *Wetlands* 32: 497-508.
28. Miller Z.***, **F. Menalled**, and M. Burrows. 2012. Downy brome (*Bromus tectorum*) increases disease induced over-winter mortality in wheat (*Triticum aestivum*). *Canadian Journal of Plant Science* 92: 603-603.
29. **Menalled, F.**, E. Keren*, D. Weaver, A. Dyer, and J. Robison-Cox. 2012. Assessing the ecological basis of a multi-pest approach to management of wheat-fallow systems. *Canadian Journal of Plant Science* 92: 595-596.
30. Sciegienka, J.* , E. Keren*, and **F. Menalled**. 2011. Impact of root fragment dimension, weight, burial depth, and water regime on *Cirsium arvense* emergence and growth. *Canadian Journal of Plant Science* 91:1027-1036.
31. Schat, M.** , S. Sing, R. Peterson, **F. Menalled**, and D. Weaver. 2011. Growth inhibition of Dalmatian toadflax, *Linaria dalmatica* (L.) Miller, in response to herbivory by the biological control agent *Mecinus janthinus* Germar. *Journal of Entomological Science* 46:1-15.
32. Davis, P.B.* , **F. Menalled**, R.K.D. Peterson, and B. Maxwell. 2011. Refinement of weed risk assessments for biofuels using *Camelina sativa* as a model species. *Journal of Applied Ecology* 48: 989-997.
33. Weise, J.L.* , E. Keren*, and **F. Menalled**. 2011. Native wildflower species seedling tolerances to post-emergence herbicides. *Native Plants Journal* 12: 31-36.
34. Sciegienka, J.* , E. Keren*, and **F. Menalled**. 2011. Interactions of two biological control agents and a herbicide for Canada thistle (*Cirsium arvense*) suppression. *Invasive Plant Science and Management* 4: 151-158.
35. Lehnhoff; E.A.*** , **F. Menalled**, and L. Rew. 2011. Tamarisk (*Tamarix spp.*) establishment in its most Northern range. *Invasive Plant Science and Management* 4: 58-65.
36. **Menalled, F.** 2010. Ecological considerations in the design of integrated weed management programs (In Spanish). *Agroecologia* 5: 73-78.
37. **Menalled, F.**, B. Grimberg, and C. Jones. 2009. Evaluation of agricultural professionals' perceptions and knowledge on sustainable agriculture: A useful step in the development of an on-line extension program. *Journal of Agricultural Education* 50: 86-97.
38. Pollnac, F.* , B. Maxwell, and **F. Menalled**. 2009. Weed community characteristics and crop performance: a neighborhood approach. *Weed Research* 49:242-250.
39. Pollnac, F.* , B. Maxwell, and **F. Menalled**. 2009. Using species-area curves to examine weed communities in organic and conventional spring wheat systems. *Weed Science* 3:241-247.
40. Baer, S., D. Engle, J. Knops, K. Langeland, B. Maxwell, **F. Menalled**, A. Symstad. 2009. Vulnerability of rehabilitated agricultural production systems to invasion by nontarget plant species. *Environmental Management* 43: 189-196
41. Harbuck, K.* , F. Pollnac*, and **F. Menalled**. 2009. Impact of cropping systems on weed seedbanks in the Northern Great Plains. *Weed Biology and Management* 9:160-168.
42. Pollnac, F*., L. Rew, B. Maxwell, and **F. Menalled**. 2008. Spatial patterns, species richness and cover in weed communities of organic and conventional no-tillage spring wheat systems. *Weed Research* 48: 398-407.
43. Liebman, M., L.R. Gibson, D.N. Sundberg, A.H. Heggenstaller, P.R. Westerman, C.A. Chase, R.G. Hartzler, **F. Menalled**, A.S. Davis, and P.M. Dixon. 2008. Agronomic and economic performance characteristics of conventional and low-external-input cropping systems in the Central Corn Belt. *Agronomy Journal* 100:600-610.

44. Collier, T., S. Enloe, J. Sciegienka*, and **F. Menalled**. 2007. Combined impacts of *Ceutorhynchus litura* and herbicide treatments for Canada thistle suppression. *Biological Control* 43:231-236
45. White, S., K. Renner, **F. Menalled** and D. Landis. 2007. Feeding preferences of weed seed predators and effect on weed emergence. *Weed Science* 55:606-612.
46. Smith, R.***, **F. Menalled**, and G. Robertson. 2007. Temporal yield variability under conventional and alternative management systems. *Agronomy Journal* 99:1629-1634.
47. **Menalled, F.** and R. Smith***. 2007. Competitiveness of herbicide resistant and susceptible kochia (*Kochia scoparia* (L.) Schrad.) under contrasting management practices. *Weed Biology and Management* 7:115-119.
48. **Menalled, F.**, R. Smith***, J. Dauer†, and T. Fox. 2007. Impact of agricultural management systems on carabid beetle communities and invertebrate weed seed predation. *Agriculture Ecosystems and Environment* 118: 49-54.
49. **Menalled, F.** 2007. Book review: Developing and extending sustainable agriculture. *Great Plains Research* 17: 237-238.
50. Smith R.***, B. Maxwell, **F. Menalled**, and L. Rew. 2006. Lessons from agriculture may improve the management of invasive plants in wildland systems. *Frontiers Ecology and the Environment* 4:428-434.
51. Alvarez, J.M., **F. Menalled**, and M.A. Hoy. 2006. Molecular tools in biological control. (In Spanish). *Revista Manejo Integrado de Plagas y Agroecología* 74: 4-11.
52. Heggenstaller A.H., **F. Menalled**, M. Liebman, P.R. Westerman. 2006. Seasonal patterns in post-dispersal seed predation of *Abutilon theophrasti* and *Setaria faberi* in three cropping systems. *Journal of Applied Ecology* 43: 999-1010.
53. **Menalled, F.** and R.G. Smith***. 2006. Book review: Plant-provided food for carnivorous insects: a protective mutualism and its applications. *Environmental Entomology* 35: 1137.
54. **Menalled, F.**, D. Buhler, and M. Liebman. 2005. Composted swine manure effects on germination and early growth of crop and weed species under greenhouse conditions. *Weed Technology* 19: 784-789.
55. **Menalled, F.**, K. Kohler, D. Buhler, and M. Liebman. 2005. Effects of composted swine manure on weed seedbank. *Agriculture Ecosystems and Environment*. 111: 63-69.
56. Westerman, P., M. Liebman, **F. Menalled**, A. Heggenstaller, R. Hartzler, and P. Dixon. 2005. Are many little hammers effective? Velvetleaf population dynamics in two- and four-year crop rotation systems. *Weed Science* 53: 382-392.
57. Landis, D., **F. Menalled**, A. Costamagna, and T. Wilkinson. 2005. Manipulating plant diversity to enhance beneficial arthropods in agricultural landscapes. *Weed Science* 53: 902-908.
58. **Menalled, F.**, D. Landis, and L. Dyer. 2004. Research and extension supporting ecologically based IPM systems. *Journal of Crop Improvement* 11 (1/2): 153-174.
59. **Menalled, F.**, M. Liebman, and D. Buhler. 2004. Impact of composted swine manure and tillage on soybean - common waterhemp competition. *Weed Science* 52:605-613.
60. Liebman, M., **F. Menalled**, D. Buhler, T. Richard, D. Sundberg, C. Cambardella, and K. Kohler. 2004. Impacts of composted swine manure on weed and corn nutrient uptake, growth, and competitive interactions. *Weed. Science* 52:365–375.
61. Costamagna, A., **F. Menalled**, and D. Landis. 2004. Effect of host density on the parasitism of the armyworm *Pseudaletia unipuncta* (Haworth) (Lepidoptera: Noctuidae), at two structurally different agricultural landscapes in Michigan. *Basic and Applied Ecology* 5: 347-355.
62. Kelty, M., **F. Menalled**, and M. Carlton. 2004. Nitrogen dynamics and red pine growth following application of pelletized biosolids in Massachusetts, USA. *Canadian Journal Forestry Research* 34: 1477-1487.
63. **Menalled, F.**, A. C. Costamagna, P. C. Marino, and D. A. Landis. 2003. Temporal variation in the response of parasitoids to agricultural landscape structure. *Agriculture, Ecosystems and the Environment* 96: 29-35.

64. **Menalled, F.**, J. Lee, and D. Landis. 2001. Herbaceous filter strips in agroecosystems: implications for ground beetle (Coleoptera: Carabidae) conservation and invertebrate weed seed predation. *Great Lakes Entomologist* 34: 77-91.
65. **Menalled, F.**, K. Gross, and M. Hammond. 2001. Weed aboveground and seedbank community responses to agricultural management systems. *Ecological Applications* 11: 1586-1601.
66. Lee, J., **F. Menalled**, and, D. Landis. 2001. Refuge habitats modify impact of insecticide disturbance on carabid beetle communities. *Journal of Applied Ecology* 28: 472-483.
67. **Menalled, F.**, and M. Kelty M. 2001. Crown structure and biomass allocation strategies of three juvenile tropical tree species. *Plant Ecology* 152: 1-11.
68. McLachlan, J, D. Foster, and **F. Menalled**. 2000. Anthropogenic ties to late-successional structure and composition in four New England hemlock stands. *Ecology* 81: 717-733.
69. **Menalled, F.**, P. Marino, K. Renner, and D. Landis. 2000. Post-dispersal weed seed predation in Michigan crop fields as a function of agricultural landscape structure. *Agriculture, Ecosystems and the Environment*. 77: 193-202.
70. **Menalled, F.**, P. Marino, S. Gage, and D. Landis. 1999. Does agricultural landscape structure affect parasitism and parasitoid diversity? *Ecological Applications* 9: 634-641.
71. **Menalled, F.**, J. Lee, and D. Landis. 1999. Manipulating carabid beetle abundance alters prey removal rates in corn fields. *Biocontrol* 43: 441-456.
72. Carmona, D., **F. Menalled**, and D. Landis. 1999. Northern field cricket, *Gryllus pennsylvanicus* Burmeister (Orthoptera: Gryllidae): laboratory weed seed predation and within field activity-density. *Journal of Economic Entomology* 92: 825-829.
73. Vicari, R.L., **F. Menalled**, V. Di Stilio, S. Ucha, and N. Madanes. 1999. Productivity and nitrogen cycling in two poplar plantations (*Populus deltoides*) with different flooding dynamics in the Lower Delta of the Parana River, Buenos Aires (Argentina). *Physis* 57: 41-51.
74. **Menalled, F.**, M. Kelty, and J. Ewel. 1998. Canopy development in tropical tree plantations: a comparison of species mixtures and monocultures. *For. Ecol. Management* 104: 249-263.
75. Vicari, R.L., **F. Menalled**, V. Di Stilio, and N. Madanes. 1998. Litter decomposition in a poplar plantation (*Populus deltoides*) in the Lower Delta of the Parana River, Buenos Aires (Argentina). *Physis* 56: 9-13.
76. **Menalled, F.**, and J. Adamoli. 1995. A quantitative phytogeographic analysis of the species richness in forest communities of the Parana River Delta, Argentina. *Vegetatio* 120: 81-90.
77. Di Stilio, V., R.L. Vicari, and **F. Menalled**. 1995. Quantification of litterfall and nutrient contents in *Populus deltoides* plantations from the Parana River Lower Delta -Argentina-. *Physis* 50: 95-104.
78. **Menalled, F.**, M. Kelty, and J. Ewel. 1994. Canopy development of monocultures and species mixtures in forest plantations in Costa Rica. *IUFRO --In Proceedings of the Symposium on Mixed Stands, Portugal—54*: 10-11.
79. Boyle, T., **F. Menalled**, and M. O'Leavy. 1994. Occurrence and physiological breakdown of self-incompatibility in Easter Cactus. *Journal of the American Society of Horticulture Sciences* 119: 1060-1067.
80. Bonaventura, S., M. Castanera, **F. Menalled**, and C. Mourelle. 1992. Vegetation units of the Carahuasi and Lagunillas regions, Pozuelos basin -Argentina-. (In Spanish). *Biología de Altura* 3: 19-21.
81. Mendoza R., and **F. Menalled**. 1988. Residual effects following phosphate applications on four soils in the yield of *Lolium multiflorum*. (In Spanish). *Ciencias del Suelo* 6: 50-55.

Peer-Reviewed Journal Articles, Submitted and In Preparation.

1. McKenzie S., H. Parkinson, J. Mangold, M. Burrows, S. Ahmed, and F. Menalled. *Submitted*. Perceptions, experiences, and priorities supporting agro-ecosystem management decisions differ across agricultural stakeholders. *Plos One*.

2. McKenzie, S., H. Goosey, K. M. O'Neill, and F. Menalled. *Submitted*. Integration of sheep grazing for cover crop termination into market gardens: Agronomic consequences of an ecologically-based management strategy. *Journal of Sustainable Agriculture*.
3. Johnson, S., Z. Miller, P. Miller, E. Lehnhoff, and F. Menalled. *Submitted*. Cropping systems modify the impacts of biotic plant-soil feedbacks on wheat (*Triticum aestivum*) growth and competitive ability. *Weed Research*.
4. Ishaq, S.L., S. Johnson, Z., Miller, E. Lehnhoff, S. Olivo, C. Yeoman, and F. Menalled. *Submitted*. A living soil inoculum increases soil microbial diversity, crop and weed growth using soil from organic and conventional farms in northeastern Montana.

Books / Booklets

1. Parkinson, H., J. Mangold, and **F. Menalled**. 2013. *Weed Seedling Identification Guide for Montana and the Northern Great Plains*. Montana State University Extension, Bozeman, MT. 160 pages.
2. Dewey, S.A, S.E. Enloe, **F. Menalled**, S. Miller, R. Whitesides, and L. Johnson –Editors-. 2006. *Weed Management Handbook 2006-2007*. Montana, Utah, Wyoming. Cooperative Extension Services Press.

Book Chapters

1. Grimberg, B and **F. Menalled**. *In Press*. Science in Action: Biological and Ecological Principles of Urban Agriculture. . Patchen, A. Barnett, M. Esthers, L., & Knobloch, N. (Eds.) *Designing urban agriculture programs to improve STEM learning and teaching*. Springer
2. Smith, R.***, M.R. Ryan, and **F. Menalled**. 2011. Direct and indirect impacts of weed management practices on soil quality. *Soil Management: Building a Stable Base for Agriculture*. J. Hatfield and T. Sauer, eds., pp 275-286. American Society of Agronomy Series.
3. Gan, Y., H.R. Kutcher, **F. Menalled**, G. Lafond, and S.A. Brandt. 2010. Intensifying production of using broadleaf crops in cereal-based cropping systems in the Northern Great Plains. *Current Advancements in Soil Science and Agronomy Research in the Northern Great Plains*. D. Malhi, ed., pp 277-299. Research Signpost, Kerala, India.
4. **Menalled, F.** 2008. Ecology and agriculture: Strategies for a sustainable development (*In Spanish*). *Biology*. 7th Edition in Spanish. H. Curtis; N. Sue, B. Arnes, A. Schnek and A. Massarini, eds. Editorial Médica Panamericana
5. **Menalled, F.**, M. Liebman, and K. Renner. 2006. The ecology of weed seed predation in herbaceous crop systems. *In Handbook of Sustainable Weed Management*. D. Batish, ed., pp 297-327. The Haworth Press, Inc. Binghamton, NY.
6. **Menalled, F.**, and M. Liebman. 2004. Seed predation by insects. *In Encyclopedia of Entomology*, J. Capinera, ed., pp 1979-1982. Kluwer Academic Press.
7. **Menalled, F.**, and D. Landis. 2004. Conservation of ground beetles in annual crops. *In Encyclopedia of Entomology*, J. Capinera, ed., pp 593-595. Kluwer Academic Press.
8. **Menalled, F.**, D. Landis, and L. Dyer. 2004. Research and extension supporting ecologically based IPM systems. *In New Dimensions in Agroecology*. D. Clements and A. Shrestha, eds., pp 153-174. The Haworth Press.
9. **Menalled, F.**, J. Alvarez, and D. Landis. 2004. Molecular techniques, habitat management, and parasitoid conservation in annual cropping systems. *Ecological Engineering for Pest Management: Advances in Habitat Manipulation for Arthropods*. G Gurr, S. Wratten, and M. Altieri, eds., pp 101-115. CSIRO Press.
10. **Menalled, F.**, and D. Landis. 2000. Principles of field crop pest ecology. *In Michigan Field Crop Pest Ecology*. Cavigelli, M.A. and L. K. Probyn, eds., pp 14-24. Michigan State University Extension Bulletin E-2704.

11. Landis, A., **F. Menalled**, J. Lee, D. Carmona, and A. Pérez-Valdéz. 2000. Habitat modification to enhance biological control in IPM. *In Emerging Technologies in Integrated Pest Management: Concepts, Research and Implementation*. Kennedy G., T. Sutton eds., pp. 226-239. APS Press, St. Paul.
12. Landis, D., and **F. Menalled**. 1998. Ecological considerations in the conservation of effective parasitoid communities in agricultural systems. *In Conservation Biological Control*, P. Barbosa ed., pp. 101-121. Academic Press. San Diego, CA.

Book Reviews

1. **Menalled, F.** 2008. Review of Bentrup G. 2008. Conservation Buffers: Design Guidelines for Buffers, Corridors, and Greeways. Gen. Tech. Rep. SRS-109. Reviewed the insect and weed management sections of the guide.

Extension / Experiment Station Technical Bulletins

Total 28, 2012 – ongoing below

1. Fine, T., S. McKenzie, C. Chen, and **F. Menalled**. 2016. Biology, identification, and integrated management of glyphosate resistant horseweed (marestail, *Conyza canadensis*). Montana State University Extension Service. MT201608AG
2. McVay, K., M. Burrows, **F. Menalled**, and K. Wanner. 2013. Montana cool-season pulse production guide. Montana State University Extension Service EB0210
3. **Menalled, F.** 2012. Integrated management of weeds in dry peas. Montguide. Montana State University Extension Service. MT 201121AG
4. Burrows, M., E. Davis, **F. Menalled**, B. Jenks, J. Knodel, M. Wunsch, and S. Markell. 2011. 2012. Pulse Pest calendar. MSU Extension and NDSU Extension.

Presentations

	Total	Montana	Regional / USA	International
Invited seminars	40	11	23	6
Invited symposiums	29	0	23	6
Professional meetings	138	7	128	3
Extension presentations	264	261	3	1

Service

Professional and Public Service Activities

- 2013 – ongoing. Leader of the eOrganic Community of Practice.
- 2012 – ongoing. Montana representative to the WSARE Professional Development Program.
- 2011. Member of the Scientific Advisory Committee of the 2nd World Conference on Biological Invasions and Ecosystem Functioning November 21-24 2011, Mar del Plata, Argentina.
- 2009. Chair of the Session Weed Biology and Ecology. Weed Science Society of America.
- 2007. Invited Participant at the USDA-CSREES Plant and Pest Biology Stakeholders' Workshop. Washington DC November 20, 2007

- 2006-2008. Chair of the Agroecology Section. Ecological Society of America.

Proposal Reviewer

- 2014. Reviewer of the Wyoming Agricultural Experiment Station Competitive Grants Program (Grants reviewed = 1)
- 2013. External reviewer of the Organic Science Cluster II, Organic Agriculture Centre of Canada, Canada (Grants reviewed = 1)
- 2013. Panel member of the Western SARE Farmer/Rancher and Professional – Producer program. (Grants reviewed = 18)
- 2013. Western SARE Professional Development Program (Grants reviewed: 10)
- 2011. Panel member of the NIFA NC-IPM program. (Grants reviewed = 16).
- 2010. Panel member of the NIFA Organic Agriculture Research and Extension Initiative program. (Grants reviewed = 14)
- 2009. External reviewer of the graduate course Ecology and Management of Agricultural Pests. University of Buenos Aires, Argentina.
- 2009. External reviewer of McIntire-Stennis project proposals. University of New Hampshire.
- 2009. External reviewer of proposals submitted to the NSF Long-term Research in Environmental Biology (LTREB) program. (Grants reviewed = 1)
- 2008. External Reviewer of proposals submitted to the NSF Long-term Research in Environmental Biology (LTREB) program. (Grants reviewed = 1)
- 2005. Ad hoc reviewer. USDA/NRI. Integrative Biology of Arthropods and Nematodes program. (Grants reviewed = 3)

Journal Associate Editor

- 2009-ongoing. Member of the Board of Editors of the journal Agroecology and Sustainable Food Systems
- 2007-2009. Associate Editor of Weed Science
- 2006-2008. Associate Editor of the Agronomy Journal.

Book and Journal Reviewer

- Altieri, M.A. and C.I. Nicholls. 2005. Manage Insects On Your Farm. A Guide to Ecological Strategies. Sustainable Agriculture Network handbook series. Beltsville, MD
- Wäckers, F.L., van Rijn P.C.J., and Bruin J. [eds.]. 2005. Plant-Provided Food for Carnivorous Insects: a Protective Mutualism and its Applications. Cambridge University Press, Cambridge
- USDA, National Agroforestry Center. 2008. Conservation Buffers. Planning and Design. Review the insect and weed management sections of the guide.

Reviewer of the following Scientific Journals: Agriculture, Ecosystems and Environment, Agronomy for Sustainable Development, Biological Control, Crop Science, Ecología Austral, Ecological Applications, Environmental Entomology, International Journal of Ecology and Environmental Sciences, Journal of Agriculture Science and Technology, Journal of Applied Ecology, Journal of Economic Entomology, Journal of Sustainable Agriculture, Journal of Vegetation Sciences, Plant Ecology, Restoration Ecology, Tree Physiology, Weed Science, Weed Research

Symposiums Organizer and Meetings Participant

- 2011. Member of the Organizer Committee of the BIOLIEF 2011 - 2nd World Conference on Biological Invasions and Ecosystem Functioning, Mar del Plata, Argentina. Nov. 21-24, 2011
- 2006-ongoing. Participant of the WERA77 workgroup “Managing Invasive Weeds in Wheat”
- 2006. Organizer of the Agroecology symposium “*Beyond labeling: Comparing the sustainability of conventional and certified alternative farming systems.*” Ecological Society of America meeting. Nashville, Tennessee
- 2006. Organizer and participant of the NC1026 meeting in Bozeman, Montana.

2014 Ongoing Montana State University Committees and activities. 2014-ongoing bellow

- 2016 – ongoing. Member of the University Graduate Council
- 2014. Member of the MSU Extension Climate Science Initiative Working group.
- 2014 – ongoing. Member of the LRES Graduate Curriculum Committee
- 2009 – ongoing . Member of the Montana Extension Advisory Council
- 2005-ongoing. Member of the Plant Growth Center advisory committee
- 2006-ongoing. LRES graduate student admission committee
- 2004 – ongoing. Voting member of the Montana Agricultural Experimental Station Variety Release & Recommendation Committee

Professional Development

- 2014. Participant of the “Innovations in Organic Food Systems for Sustainable Production & Enhanced Ecosystem Services” conference. Long Beach, CA. November 1-2, 2014
- 2013. National Extension Climate Science Initiative Conference. Association for Natural Resource Extension Professionals (ANREP). Cloquet Forestry Center, MN. October 28-30, 2013.
- 2013. Animal Agriculture and Climate Change online course. USDA – Livestock and Poultry Environmental learning Center. September 3 – October 1, 2013.
- 2012. MSU. Extension Programming for Adult Learners. Bozeman, MT. Oct 2-3, 2012.
- 2011 – 2012. Participation in the Leadership MSU program
- 2010. National Science Foundation Grant Writing Workshop. Salt Lake City, UT. October 25-26, 2010.

Awards

- 2015. Agronomy Society of America. Extension and education Award. Grimberg, B., F. Menalled, and M. Burrows.
- 2014. Epsilon Sigma Phi Alpha Chapter. State Visionary Leadership Award presented to the MSU Extension Climate Science Initiative Working Group. Award shared with L. Brence, R. Endecott, M. Kelly, V. Knerr, P. Lachapelle, D. Lucas, R. Malisane, J. Mangold, K. McVay, B. Roos, and C. Stone.