

CURRICULUM VITA

TIMOTHY W. MILLER

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APPOINTMENT:

Associate Weed Scientist, Extension Specialist, Crop and Soil Sciences Department,
75% Extension, 25% Research

FACULTY SPECIALIZATION:

Weed control systems in western Washington agricultural production and natural areas.

EDUCATION:

1995 Ph.D. Plant Science, University of Idaho
Major Professor: John K. Fellman
Dissertation: Comparative studies of the relationship between aroma volatile biogenesis and anthocyanin synthesis in 'Delicious' apples.

1987 M.S. Plant Science, University of Idaho
Major Professor: Robert H. Callihan
Thesis: Interference between triazine-resistant oilseed rape (*Brassica napus*) and wild proso millet (*Panicum miliaceum*).

1981 B.S. Range Resources, University of Idaho

EXPERIENCE:

Professional:

Extension Weed Scientist, WSU Mount Vernon NWREC, 1997-present
Extension Support Scientist, Weed Diagnostician, University of Idaho, 1993-1997
Extension Agricultural Agent, Latah County, University of Idaho, 1988-1992

Armed Forces:

U.S. Army Reserve, honorably discharged as a Captain, Chemical Corps, 1985-1988
U.S. Army Chemical Officer, stationed at Ft. McClellan, AL and Ft. Campbell, KY, 1981-1985

Community and Service:

Participant Mount Vernon High School Science Night, Mount Vernon, WA (2003, 2005, 2012)
Judge, 6th Grade Science Fair, Mount Baker Middle School, Mount Vernon, WA (2001-05, 2007-08)
Member, First United Methodist Church, Mount Vernon, WA, 1997-present
(choir member, building committee, youth goods and services auctioneer, Sunday school teacher)
T-Ball coach, Parks and Recreation Department, Moscow, ID, 1993-1995

Cub Scout leader, Pack 325, Moscow, ID, 1992-1996
(Cubmaster, 1994-1996)
Member, First Presbyterian Church, Moscow, ID, 1987-1997
(choir member, Sunday school teacher, pastor nominating committee)

PROFESSIONAL AFFILIATIONS:

Weed Science Society of America, 1987-present
Western Society of Weed Science, 1987-present
American Society for Horticultural Science, 1994-present
Washington State Weed Association, 1997-present
Gamma Sigma Delta, Honor Society of Agriculture, 1993-1997
Idaho Weed Control Association, 1989-1998
National Association of County Agricultural Agents, 1988-1992
Idaho Association of County Agricultural Agents, 1988-1992

EXTENSION EXPERTISE:

Developing, coordinating, and delivering extension and formal educational programs to improve the understanding of weed science principles in Washington.

Programs:

1. Weed science sections of western Washington pesticide pre-license trainings.
2. Weed control in agronomic/horticultural crops.
3. Weed control in non-cropland, pasture/hay, urban horticulture, nursery, range, forestry, and rights-of-way (often involving the management of noxious weeds).
4. Weed identification.
5. Weed physiology, biology, and ecology.
6. Herbicide/adjuvant technology.

RESEARCH EXPERTISE:

1. Provide leadership in the evaluation of herbicides for weed control efficacy and crop safety in minor crops (vegetable seed, ornamental bulbs, small fruit, and vegetable crops), and determining their potential impact on rotational crops grown in western Washington.
2. Conduct research into better management of riparian weeds in western Washington.

PUBLICATIONS:

Refereed journal articles (19 total; 18 since arrival at WSU):

Miller, T.W. and C. Lucero. 201x, *in press*. Meadow knapweed (*Centaurea debeauxii*) response to herbicides and mechanical control. *Invasive Plant Sci. and Management*.

Miller, T.W., A.D. Halpern, F. Lucero, and S.H. Shaw. 201x, *in press*. Efficacy of several herbicides on yellow archangel (*Lamiastrum galeobdolon*). *Invasive Plant Sci. and Management*.

Gaskin, J.F., M. Schwarzländer, F.S. Grevstad, M.A. Haverhals, R.S. Bourchier, and T.W. Miller. 201x, *in press*. Extreme differences in population structure and genetic diversity for three invasive congeners: knotweeds in western North America. *Biological Invasions*.

Miller, T.W., C.R. Libbey, and B.G. Maupin. 201x, *in press*. Comparison of four management programs for control of established perennial weeds in blueberry. *Acta Hort*.

Miller, T.W., C.R. Libbey, and B.G. Maupin. 2013. Evaluation of organic amendments and flaming for weed control in matted-row strawberry. *HortScience* 48:304-310.

Olmstead, M. A., T.W. Miller, C.S. Bolton, and C.A. Miles. 2012. Weed control in a newly established organic vineyard. *HortTechnology* 22:757-765.

Miller, T.W. and C.R. Libbey. 2011. Sensitivity of red raspberry to several herbicides with potential to aid in the control of perennial weeds. *Acta Hort.* 946:317-321.

Weiland, J.E., A.L. Leon, R.L. Edmonds, W.R. Littke, J.E. Browning, A. Davis, R. Beck, T.W. Miller, M.L. Cherry, and R. Rose. 2011. The effects of methyl bromide alternatives on soil and seedling pathogen populations, weeds, and seedling morphology in Oregon and Washington forest nurseries. *Can. J. For. Res.* 41:1885-1896.

Miller, T.W. and D.E. D'Auria. 2011. Effects of herbicide, tillage, and grass seeding on wild chervil (*Anthriscus sylvestris*). *Invasive Plant Sci. and Management* 4:326-331.

Miller, T.W. and C.R. Libbey. 2010. Application of paraquat can injure field-grown narcissus. *HortTechnology* 20:220-223.

Miller, T.W., L.P. Martin, and C.B. MacConnell. 2008. Managing reed canarygrass (*Phalaris arundinacea*) to aid in revegetation of riparian buffers. *Weed Technology* 22:507-513.

Miller, T.W., S.F. Klauer, and M. Nicholson. 2008. Effects of primocane suppression programs on weed management and productivity of 'Meeker' red raspberry. *Acta Hort.* 777:267-273.

Miller, T.W. 2003. Effects of several herbicides used in green pea and subsequent crops. *Weed Technology* 17:731-737.

Miller, T.W. 2002. Effects of diquat used as a pre-harvest desiccant on germination of spinach, beet, and coriander seed. *HortScience* 37:1032-1034.

Miller, T.W., S.L. Shinn, and D.C. Thill. 2001. Cross resistance in and chemical control of auxinic herbicide-resistant yellow starthistle. *Weed Technology* 15:293-299.

Fellman, J. K., T.W. Miller, D.S. Mattinson, and J.P. Mattheis. 2000. Factors that influence biosynthesis of volatile esters in apple fruits. *HortScience* 35:1026-1033.

Gealy, D.R., J.L. Hazen, C. Slisbury, P. Bhowmik, K.N. Reddy, T.R. Right, T.W. Miller, and W. Vencel. 1998. Common and chemical names of herbicides approved by the Weed Science Society of America. *Weed Science* 46:729-734.

Miller, T.W., J.K. Fellman, J.P. Mattheis, and D.S. Mattinson. 1998. Factors that influence volatile ester biosynthesis in 'Delicious' apples. *Acta Hort.* 464:195-200.

Miller, T.W. and R.H. Callahan. 1995. Interference between triazine-resistant *Brassica napus* and *Panicum miliaceum*. *Weed Research* 35:453-460.

Book chapters (5 total; 5 since arrival at WSU):

Chastagner, G.A., G.R. Hanks, M.L. Dauaughtrey, I. Yedidia, T.W. Miller, and H.R. Pappu. 2012. Sustainable production and integrated management: environmental issues. *In: Ornamental Geophytes: from basic science to sustainable production.* R. Kamenetsky and H. Okubo, eds. CRC Press, Boca Raton, London, New York.

Chastagner, G.A. and T.W. Miller. 2011. Research on ornamental bulb crops in the Pacific Northwest (2). *In: Daffodil, Snowdrop, and Tulip Yearbook, 2011.* M.S. Bradbury, ed. Royal Horticulture Society, London.

Chastagner, G.A. and T.W. Miller. 2010. Research on ornamental bulb crops in the Pacific Northwest (1). *In: Daffodil, Snowdrop, and Tulip Yearbook, 2010.* M.S. Bradbury, ed. Royal Horticulture Society, London.

Miller, T.W. 2009. Weeds: Managing "out of place" plants. *In: Sustainable Landscapes & Gardens: good science—practical application,* L. Chalker-Scott, ed. GFG Publishing, Yakima, WA.

Miller, T.W. 2006. Natural herbicides and amendments for weed control. *In: Certified Organic and Biologically Derived Pesticides: Environmental, Health, and Efficacy Assessment,* A.S. Felsot, ed. American Chemical Society.

Abstracts (61 total; 30 since arrival at WSU):

du Toit, L.J., T.W. Miller, C.R. Libbey, M.L. Derie, and R.K. Peterson. 2006. Evaluation of mustard cover/biofumigant crops for management of Fusarium wilt in spinach seed crops, 2004-2005. *Biological and Cultural Tests* 21:V001.

Miller, T.W. and R.K. Peterson. 2005. Post-bloom herbicide applications in tulip. *Western Society of Weed Science Research Progress Report*, pp. 50-51.

Miller, T.W. and R.K. Peterson. 2005. Herbicides for weed control in cabbage seed crops. *Western Society of Weed Science Research Progress Report*, pp. 28-30.

du Toit, L.J., T. Miller, M.L. Derie, B. Maupin, R. Peterson, and C. Libbey. 2004. Evaluation of mustard cover/biofumigant crops for management of Fusarium wilt in spinach seed crops, 2002-2003. *Biological and Cultural Tests*, 19:V004.

Miller, T.W., B.G. Maupin, and R.K. Peterson. 2004. Herbicide combinations for cucumber, pumpkin, and winter squash. *Western Society of Weed Science Research Progress Report*, pp. 34-36.

Miller, T.W. and R.K. Peterson. 2004. Post-bloom applications for late-season weed control in tulip. *Western Society of Weed Science Research Progress Report*, pp. 65-66.

Miller, T.W., C.R. Libbey, and R.K. Peterson. 2003. Postemergence herbicide screening in Apiaceae seed crops. *Western Society of Weed Science Research Progress Report*, pp. 25-28.

Miller, T.W., C.R. Libbey, R.K. Peterson, and B.G. Maupin. 2003. Halosulfuron effect on cucurbits and rotational crops in northwestern Washington. *Western Society of Weed Science Research Progress Report*, pp. 29-31.

Miller, T.W. and C.R. Libbey. 2002. Sulfentrazone tolerance in selected potato cultivars. *Western Society of Weed Science Research Progress Report*, pp. 40-41.

Miller, T.W. and C.R. Libbey. 2002. Sweet corn tolerance to BAS 662 01H and dimethenamid-p. *Western Society of Weed Science Research Progress Report*, pp. 45-46.

Miller, T.W. and C.R. Libbey. 2001. Herbicides for weed control in green pea. *Western Society of Weed Science Research Progress Report*, pp. 39-40.

Miller, T.W. and C.R. Libbey. 2001. Herbicides for weed control in spinach grown for seed. *Western Society of Weed Science Research Progress Report*, pp. 47-48.

Miller, T.W. and C.R. Libbey. 2001. Herbicides for weed control in table beets grown for seed. *Western Society of Weed Science Research Progress Report*, pp. 51-52.

Miller, T.W. and L. Baldwin. 2000. Response of smooth hawkweed to several herbicides. *Western Society of Weed Science Research Progress Report*, p. 13.

Miller, T.W. and C. Lucero. 2000. Giant hogweed injury by several herbicides. *Western Society of Weed Science Research Progress Report*, pp. 14.

Miller, T.W. and C.R. Libbey. 2000. Response of cauliflower to several herbicides. *Western Society of Weed Science Research Progress Report*, pp. 61-62.

Miller, T.W. and C.R. Libbey. 2000. Tolerance of cucumber to numerous herbicides. *Western Society of Weed Science Research Progress Report*, pp. 63-65.

Miller, T.W. and C.R. Libbey. 2000. Preemergence weed control in potatoes. *Western Society of Weed Science Research Progress Report*, p. 117.

Miller, T.W. and C.R. Libbey. 1999. Tolerance of cucumber, squash, and pumpkin to several herbicides. *Western Society of Weed Science Research Progress Report*, pp. 62-64.

Miller, T.W. and C.R. Libbey. 1999. Herbicides for weed control in green peas. *Western Society of Weed Science Research Progress Report*, pp. 68-70.

Miller, T.W. and C.R. Libbey. 1999. Response of three sweet corn cultivars to several herbicides. *Western Society of Weed Science Research Progress Report*, pp. 57-58.

Miller, T.W. and C.R. Libbey. 1999. Volunteer potato management with herbicides and tillage. *Western Society of Weed Science Research Progress Report*, pp. 59-61.

Miller, T.W., F.E. Northam, and R.H. Callihan. 1998. Forage cultivar performance on rangeland twelve years after seeding. *Western Society of Weed Science Research Progress Report*, pp. 4-5.

Miller, T.W., S.L. Shinn, and D.C. Thill. 1998. Response of yellow hawkweed to several herbicides. *Western Society of Weed Science Research Progress Report*, p. 8.

Miller, T.W., S.L. Shinn, and D.C. Thill. 1998. Response of yellow starthistle to several herbicides. Western Society of Weed Science Research Progress Report, p. 19.

Shinn, S.L., T.W. Miller, and D.C. Thill. 1998. Yellow starthistle control with imazapic. Western Society of Weed Science Research Progress Report, p. 20.

Miller, T.W., W.S. Belles, D.C. Thill, and D.W. Morishita. 1998. Newly reported weed species; potential weed problems in Idaho. Western Society of Weed Science Research Progress Report, pp. 174-175.

Miller, T.W., R.H. Callihan, and T. Holbrook. 1997. Control of dyer's woad on rangeland with sulfonylurea herbicides. Western Society of Weed Science Research Progress Report, p. 18.

Miller, T.W., R.H. Callihan, and D.W. Morishita. 1997. 1996 weed identifications for county extension and weed control programs in Idaho. Western Society of Weed Science Research Progress Report, pp. 115-116.

Miller, T.W., R.H. Callihan, and D.W. Morishita. 1997. Newly reported weed species; potential weed problems in Idaho. Western Society of Weed Science Research Progress Report, pp. 117-118.

Miller, T.W., R.H. Callihan, and S.L. Carson. 1996. Newly reported weed species; potential weed problems in Idaho. Western Society of Weed Science Research Progress Report, p. 112.

Miller, T.W., R.H. Callihan, and S.L. Carson. 1996. 1995 weed identifications for county extension and weed control programs in Idaho. Western Society of Weed Science Research Progress Report, pp. 113-115.

Miller, T.W., R.H. Callihan, and S.L. Carson. 1995. 1994 weed identifications for county extension and weed control programs in Idaho. Western Society of Weed Science Research Progress Report, pp. 123-124.

Miller, T.W., R.H. Callihan, and S.L. Carson. 1995. Newly reported weed species; potential weed problems in Idaho. Western Society of Weed Science Research Progress Report, p. 125.

Miller, T.W. and R.H. Callihan. 1994. Evaluation of dry pea tolerance to selected herbicides for dicot weeds. Western Society of Weed Science Research Progress Report, p. III-59.

Callihan, R.H., T.W. Miller, and S.L. Carson. 1994. Newly reported weed species; potential weed problems in Idaho. Western Society of Weed Science Research Progress Report, p. IV-2.

Callihan, R.H., T.W. Miller, and S.L. Carson. 1994. 1993 weed identifications for county extension and weed control programs in Idaho. Western Society of Weed Science Research Progress Report, pp. IV-3 through IV-5.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1992. Evaluation of selected herbicides for use in lentils. Western Society of Weed Science Research Progress Report, pp. 103-104.

Miller, T.W. and R.H. Callihan. 1992. Control of common tansy in pasture. Western Society of Weed Science Research Progress Report, p. 109.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1992. Evaluation of selected herbicides for use in chickpeas. Western Society of Weed Science Research Progress Report, pp. 118-119.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1992. Evaluation of selected herbicides for use in dry peas. Western Society of Weed Science Research Progress Report, pp. 120-121.

Lass, L.W., R.H. Callihan, and T.W. Miller. 1991. Response of yellow hawkweed to sulfonylurea and pyridine herbicides. Western Society of Weed Science Research Progress Report, pp. 27-28.

Miller, T.W. and R.H. Callihan. 1991. Control of common tansy in pasture. Western Society of Weed Science Research Progress Report, p. 47.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1991. Evaluation of selected herbicides for use in chickpeas. Western Society of Weed Science Research Progress Report, pp. 172-173.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1991. Evaluation of selected herbicides for use in lentils. Western Society of Weed Science Research Progress Report, pp. 213-214.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1991. Evaluation of selected herbicides for use in dry peas. Western Society of Weed Science Research Progress Report, pp. 221-223.

Lass, L.W., R.H. Callihan, and T.W. Miller. 1990. Response of yellow hawkweed to sulfonylurea and pyridine herbicides. Western Society of Weed Science Research Progress Report, pp. 23-24.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1990. Evaluation of selected herbicides for use in lentils. Western Society of Weed Science Research Progress Report, pp. 318-320.

Miller, T.W. and R.H. Callihan. 1990. Pea tolerance to imazethapyr and pendimethalin. Western Society of Weed Science Research Progress Report, pp. 327.

Miller, T.W., B.B. Barstow, and R.H. Callihan. 1990. Evaluation of selected herbicides for use in dry peas. Western Society of Weed Science Research Progress Report, pp. 328-331.

Lass, L.W., R.H. Callihan, and T.W. Miller. 1989. Response of yellow hawkweed to sulfonylurea and pyridine herbicides. Western Society of Weed Science Research Progress Report, pp. 99-101.

Lass, L.W., R.H. Callihan, and T.W. Miller. 1988. Response of yellow hawkweed to sulfonylurea and pyridine herbicides. Western Society of Weed Science Research Progress Report, pp. 11-13.

Lass, L.W., R.H. Callihan, T.W. Miller, and D.C. Thill. 1988. Leafy spurge control in pasture. Western Society of Weed Science Research Progress Report, pp. 14-15.

Lass, L.W., R.H. Callihan, T.W. Miller, and D.C. Thill. 1988. Common tansy control in pasture. Western Society of Weed Science Research Progress Report, pp. 28-29.

Lass, L.W., R.H. Callihan, and T.W. Miller. 1988. Mayweed chamomile control in late planted winter rape. Western Society of Weed Science Research Progress Report, pp. 288-289.

Lass, L.W., R.H. Callihan, and T.W. Miller. 1987. Response of yellow hawkweed to sulfonylurea and pyridine herbicides. Western Society of Weed Science Research Progress Report, p. 4.

Lass, L.W., R.H. Callihan, T.W. Miller, and D.C. Thill. 1987. Spotted knapweed control in pasture. Western Society of Weed Science Research Progress Report, pp. 6-7.

Lass, L.W., R.H. Callihan, T.W. Miller, and D.C. Thill. 1987. Leafy spurge control in pasture. Western Society of Weed Science Research Progress Report, pp. 20-21.

Lass, L.W., R.H. Callihan, T.W. Miller, and D.C. Thill. 1987. Common tansy control in pasture. Western Society of Weed Science Research Progress Report, pp. 22-23.

Callihan, R.H., R.R. Old, F.E. Northam, T.W. Miller, T.S. Prather, and D.C. Thill. 1987. The distribution, biology, and proposed eradication of matgrass in Idaho. Western Society of Weed Science Research Progress Report, p. 39.

Callihan, R.H., L.W. Lass, T.W. Miller, and D.C. Thill. 1987. Tolerance of ponderosa pine to three graminicides. Western Society of Weed Science Research Progress Report, p. 42.

Experiment station bulletins and circulars (12 total; 7 since arrival at WSU):

Miller, T.W. and C.R. Libbey. 2005 (no report number issued). 2004 Weed Science Report, WSU Northwestern Washington Research and Extension Center.

Miller, T.W. and C.R. Libbey. 2004. 2003 Weed Science Report, WSU Mount Vernon Research and Extension Unit (no report number issued).

Miller, T.W. and C.R. Libbey. 2003. 2002 Weed Science Report, WSU Mount Vernon Research and Extension Unit. Technical Report (no report number issued).

Miller, T.W. and C.R. Libbey. 2002. 2001 Weed Science Report, WSU Mount Vernon Research and Extension Unit. Technical Report (no report number issued).

Miller, T.W. and C.R. Libbey. 2001. 2000 Weed Science Report, WSU Mount Vernon Research and Extension Unit. Technical Report (no report number issued).

Miller, T.W. and C.R. Libbey. 2000. 1999 Weed Science Report, WSU Mount Vernon Research and Extension Unit. Technical Report 0012-40.

Miller, T.W. and C.R. Libbey. 1999. 1998 Weed Science Report, WSU Mount Vernon Research and Extension Unit. Technical Report 9903-25

Miller, T.W. 1992. Evaluation of several herbicides for use in dry peas, lentils, and chickpeas. *In* North Central Idaho County Extension Field Crop Demonstrations, 1990-91, L.J. Smith, ed. MS 156, pp. 35-41.

Miller, T.W. 1992. Control of common tansy in pasture. *In* North Central Idaho County Extension Field Crop Demonstrations, 1990-91, L.J. Smith, ed. MS 156, pp. 42-43.

Miller, T.W. 1991. Evaluation of several herbicides for use in dry peas, lentils, and chickpeas. *In* North Central Idaho County Extension Field Crop Demonstrations, 1989-90, L.J. Smith, ed. MS 152, pp. 30-41.

Miller, T.W. 1991. Control of common tansy in pasture. *In* North Central Idaho County Extension Field Crop Demonstrations, 1989-90, L.J. Smith, ed. MS 152, pp. 42-43.

Miller, T.W. 1990. Evaluation of several herbicides for use in dry peas, lentils, and chickpeas. *In* North Central Idaho County Extension Field Crop Demonstrations, 1988-89, L.J. Smith, ed., pp. 45-58.

Extension bulletins (50 total; 46 since arrival at WSU):

Miller, T. 2013. Vegetable Seed, Green Pea, and Ornamental Bulb sections; co-author Problem Weeds and Agrichemicals and Their Properties sections. *In* 2013 Pacific Northwest Weed Management Handbook, E. Peachey, ed. Jointly published by OSU, WSU, and UI.

Miller, T. 2013. Weed control. *In* 2013 Pest Management Guide for Grapes in Washington, G. Hoheisel and M. Moyer, eds. EB 0762.

DiTomaso, J., G. Kyser, S. Oneto, R. Wilson, S. Orloff, L. Anderson, S. Wright, J. Ronconi, T. Miller, T. Prather, C. Ransom, G. Beck, C. Duncan, K. Wilson, and J. Mann. 2013. Weed Control in Natural Areas in the Western United States. Weed Research and Information Center, University of California. 544 p.

Inglis, D., L. DuToit, T. Miller, and C. Benedict. 2013. Production of Brassica seed crops in Washington state: A case study on the complexities of co-existence. WSU Extension Bulletin.

Miller, T. 2012. Vegetable Seed, Green Pea, and Ornamental Bulb sections; co-author Problem Weeds section. *In* 2012 Pacific Northwest Weed Management Handbook, E. Peachey, ed. Jointly published by OSU, WSU, and UI.

Miller, T. 2012. Weed control. *In* 2012 Pest Management Guide for Grapes in Washington, G. Hoheisel, ed. EB 0762.

Miller, T., B. Hanson, E. Peachey, R. Boydston, and K. Al-Khatib. 2012. Glyphosate Stewardship: keeping an effective herbicide effective. UC Davis (number to be assigned).

Hanson, B., E. Peachey, R. Boydston, K. Al-Khatib, and T. Miller. 2012. Preventing and Managing glyphosate-resistant weeds in orchards and vineyards. UC Davis (number to be assigned).

Al-Khatib, K., B. Hanson, T. Miller, E. Peachey, and R. Boydston. 2012. Managing glyphosate-resistant weeds in glyphosate-resistant crops. UC Davis (number to be assigned).

Hanson, B., A. Fischer, A. Shrestha, M. Jasieniuk, E. Peachey, R. Boydston, T. Miller, and K. Al-Khatib. 2012. Selection pressure, shifting populations, and herbicide resistance and tolerance. UC Davis (number to be assigned).

Miller, T. 2011. Vegetable Seed, Green Pea, and Ornamental Bulb sections; co-author Problem Weeds section. *In* 2011 Pacific Northwest Weed Management Handbook, E. Peachey, ed. Jointly published by OSU, WSU, and UI.

Miller, T. 2011. Weed control. *In* 2011 Pest Management Guide for Grapes in Washington, G. Hoheisel, ed. EB 0762.

Miller, T. 2010. Weed management. *In* WSU Master Gardener Handbook, Tonie Fitzgerald, ed. CD.

Miller, T. 2010. Vegetable Seed, Green Pea, and Ornamental Bulb sections. *In* 2010 Pacific Northwest Weed Management Handbook, E. Peachey, ed. Jointly published by OSU, WSU, and UI.

Miller, T. 2010. Weed control. *In* 2010 Pest Management Guide for Grapes in Washington, G. Hoheisel, ed. EB 0762.

Prather, T.S., T.W. Miller, and S.R. Robbins. 2009. Knotweed Shrubs: identification, biology, and management. PNW 610.

Miller, T.W. 2009. Vegetable Seed, Green Pea, and Ornamental Bulb sections. *In* 2009 Pacific Northwest Weed Management Handbook, E. Peachey, ed. Jointly published by OSU, WSU, and UI.

Miller, T. 2009. Weed control. *In* 2009 Pest Management Guide for Commercial Small Fruits, A.L. Antonelli, ed. EB 1491.

Miller, T.W. 2008. Vegetable Seed, Green Pea, and Ornamental Bulb sections. *In* 2008 Pacific Northwest Weed Management Handbook. E. Peachey, ed. Jointly published by OSU, WSU, and UI.

Miller, T. 2008. Weed control. *In* 2008 Pest Management Guide for Commercial Small Fruits, A.L. Antonelli, ed. EB 1491.

Barney, D., P. Bristow, C. Cogger, S. Fitzpatrick, J. Hart, D. Kaufman, C. Miles, T. Miller, P. Moore, T. Murray, H. Rempel, B. Strik, and L. Tanigoshi. 2007. Commercial Red Raspberry Production in the Pacific Northwest. PNW 598.

Peachey, E., D. Ball, R. Parker, J.P. Yenish, T.W. Miller, D.W. Morishita, and P.J.S. Hutchinson. 2007. Pacific Northwest Weed Management Handbook. Jointly published by OSU, WSU, and UI.

Miller, T. 2007. Weed control. *In* 2007 Pest Management Guide for Commercial Small Fruits, S. Martin, ed. EB 1491.

Yenish, J., A. Halpern, and T. Miller. 2006. Butterfly Bush, WSU Extension Bulletin EB2007E.

William, R.D., A. Dailey, D. Ball, R. Parker, J.P. Yenish, T.W. Miller, D.W. Morishita, and P.J.S. Hutchinson. 2006. Pacific Northwest Weed Management Handbook. Jointly published by OSU, WSU, and UI.

Miller, T. 2006. Weed control. *In* 2006 Pest Management Guide for Commercial Small Fruits, S. Martin, ed. EB 1491.

Miller, T. and B. Parker. 2006. Nightshade biology and control in the Pacific Northwest. PNW0588.

Roche, C., R. Parker, and T. Miller. 2005. Giant hogweed. PNW0429 (revision).

Miller, T. 2005. Weed control. *In* 2005 Pest Management Guide for Commercial Small Fruits, S. Martin, ed. EB 1491.

William, R.D., A. Dailey, D. Ball, J. Colquhoun, R. Parker, J.P. Yenish, T.W. Miller, D.W. Morishita, and P.J.S. Hutchinson. 2005. Pacific Northwest Weed Management Handbook. Jointly published by OSU, WSU, and UI.

Miller, T. 2004. Weed control. *In* 2004 Pest Management Guide for Commercial Small Fruits, S. Martin, ed. EB 1491.

William, R.D., A. Dailey, D. Ball, J. Colquhoun, R. Parker, J.P. Yenish, T.W. Miller, D.W. Morishita, and P.J.S. Hutchinson. 2004. Pacific Northwest Weed Management Handbook. Jointly published by OSU, WSU, and UI.

Prather, T.S., S.S. Robins, D.W. Morishita, L.W. Lass, R.H. Callihan, and T.W. Miller. 2003. Idaho's Noxious Weeds. BUL 816rv (76 pp.).

Miller, T. 2003. Weed control. *In* 2003 Pest Management Guide for Commercial Small Fruits, S. Roberts, ed. EB 1491.

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Miller, T. 2000. Confounded by Composites?--A workshop and information on hawkweeds, knapweeds, and thistles. Proceedings, Washington State Weed Conference, Yakima, WA, p. 21-28.

Miller, T. 1999. Puzzled by Poaceae?--A grass identification workshop. Proceedings, Washington State Weed Conference, Yakima, WA, p. 13-20.

Miller, T. 1998. Confused by crucifers?--A mustard identification workshop. Proceedings, Washington State Weed Conference, Yakima, WA, p. 9-24.

Miller, T.W. and R.H. Callihan. 1997. Designing targeted extension weed science programs: inferences from weed identification submission patterns in Idaho. Proceedings, Western Society of Weed Science, Portland, OR, Vol. 50:72.

Miller, T.W. and R.H. Callihan. 1996. Identification and monitoring of new alien weed species in Idaho. Proceedings, Western Society of Weed Science, Albuquerque, NM, Vol. 49:101.

Callihan, R.H., S.L. Carson, R.T. Dobbins, and T.W. Miller. 1995. NAWEEDS, computer-aided weed identification for North America. Weed Science Society of America Annual Meeting, Seattle, WA.

Callihan, R.H., S.L. Carson, R.T. Dobbins, and T.W. Miller. 1995. NAWEEDS, computer-aided weed identification for North America. Idaho Weed Control Association Annual Meeting, Boise, ID.

Callihan, R., J. Brennan, T. Miller, J. Brown, and M. Moore. 1995. Identification guide to canola, mustard, rapeseed, and related weeds. Idaho Weed Control Association Annual Meeting, Boise, ID.

Miller, T.W., R.H. Callihan, and S.L. Carson. 1994. University of Idaho weed diagnostics laboratory. Idaho Weed Control Association Annual Meeting, Boise, ID.

Miller, T.W. 1989. Herbicide symptomology. Proceedings, Idaho Weed Control Association Annual Meeting, Boise, ID.

Electronic publications: (7 total; 7 since arrival at WSU)

2011, Four-part series of lectures on weed management in vineyards (Weed Biology, Weed Reproduction, Non-chemical Weed Management, and Chemical Weed Management), WSU On-line Viticulture and Enology Certificate Program.

On-line Weed ID (2008) and Weed Control (2010) segments for Master Gardener trainings.

Miller, T., C. Bryson, D. Cudney, J. DiTomaso, K. Gibson, D. Hall, T. Koger, P. Lehtonen, R. Old, S. Shinn, G. Thomas, L. Wax, and S. Weaver. 2006. Composite List of Weeds. Weed Science Society of America, Lawrence, KS. <http://www.wssa.net/>

2002, assisted Carrie Foss and Brett Johnson (WSU Puyallup) and Bob Parker (WSU Prosser IAREC) in updating of WSU's Hort Sense web site: <http://pep.wsu.edu/hortsense/>
2001, assisted Carrie Foss (WSU Puyallup) and Bob Parker (WSU Prosser IAREC) in updating of WSU's Hort Sense web site: <http://pep.wsu.edu/hortsense/>
2000, assisted Carrie Foss (WSU Puyallup) and Bob Parker (WSU Prosser IAREC) in updating of WSU's Hort Sense web site: <http://pep.wsu.edu/hortsense/>

Popular articles: (4 total; 3 since arrival at WSU)

Miller, T. 2009. "How do I get rid of it?" Developing weed control recommendations. B&B: The official publication of the Washington State Nursery & Landscape Association, 61:18-19.
Miller, T.W. 2005. Identification and control of invasive knotweeds. Association of Massachusetts Wetland Scientists Newsletter, 54:4-5.
Miller, T.W. 2001. Acetic Acid: "Miracle" Herbicide? Sour Product Promises Sweet Results. Agrichemical and Environmental News 185:1-4.
Miller, T.W., J.K. Fellman, J.P. Mattheis, E. Fallahi, and D.S. Mattinson. 1996. The Delicious Dilemma: Is Redder Better? The Good Fruit Grower 47(17):85-87.

Other:

Miller, T.W. 2001. Non-native hawkweeds (*Hieracium* spp.). Written finding of the Washington State Noxious Weed Control Board.
Miller, T.W. 1996. A key for vegetative identification of weedy grasses in the Pacific Northwest (51 pp.). Over 75 newsletters (agricultural issues, horticulture, and weed science), from 1988-97.
Over 180 News Briefs ("Farm to Market," published weekly *In the Moscow/Pullman Daily News*), from 1989-92.

GRANTS:

Total since arrival at WSU: (279 grants totaling \$1,697,156; average of \$106,072 annually)

2014: (5 grants to date, \$63,944; not included in totals)

Miller, T.W. Assessing the impacts of plow-down and cover crops on field production of tulip. Washington State USDA Specialty Crop Block Grant Program—Farm Bill. \$46,444 per year (\$139,331, 3-year grant).
Miller, T.W. and C.R. Libbey. New herbicides in ornamental bulbs. Washington State Commission for Pesticide Registration. \$4,250.
Miller, T.W. and C.R. Libbey. New herbicides in red raspberry. Washington State Commission for Pesticide Registration. \$4,250.
Miller, T.W. and C.R. Libbey. New herbicides in spinach seed. Washington State Commission for Pesticide Registration. \$4,750.
Miller, T.W. and C.R. Libbey. New herbicides in green pea. Washington State Commission for Pesticide Registration. \$4,250.

2013: (15 grants totaling \$120,834)

Miller, T.W. and C.R. Libbey. Herbicide combinations for weed control in ornamental bulbs. Washington State Commission for Pesticide Registration. \$3,750.
Miller, T.W. and C.R. Libbey. Herbicides for weed control in red raspberry. Washington State Commission for Pesticide Registration. \$4,250.
Miller, T.W. and C.R. Libbey. Herbicide testing in red beet seed. Washington State Commission for Pesticide Registration. \$4,750.
Miller, T.W. Assessing the impacts of plow-down and cover crops on field production of tulip. Washington State USDA Specialty Crop Block Grant Program—Farm Bill. \$46,444 per year (\$139,331, 3-year grant).

Miller, T.W. and C.R. Libbey. Weed control in strawberry. Washington State Strawberry Commission. \$8,000.

Miller, T.W. and C.R. Libbey. Testing of several herbicides for perennial weed control and crop safety in blueberries. Washington State Blueberry Commission. \$6,014.

Miller, T.W. and C.R. Libbey. Perennial weed control in red raspberries. Washington State Red Raspberry Commission. \$2,300.

Miller, T.W. and C.R. Libbey. Perennial weed control in red raspberries. Raspberry Industry Development Council of British Columbia. \$2,300.

Miller, T.W. and C.R. Libbey. Herbicide combinations for weed control in ornamental bulbs. Washington State Bulb Commission. \$4,595.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Ag Research Foundation. \$5,357.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Ag Research Foundation. \$8,574.

Miller, T.W. Testing sulfentrazone for weed control and crop safety in red raspberries. FMC Corporation. \$4,500.

Miller, T.W. Testing aminocyclopyrachlor combinations for control of Bohemian knotweed. DuPont Crop Protection. \$9,000.

Miller, T.W. Testing rimsulfuron combinations for weed control and crop safety in red raspberries. DuPont Crop Protection. \$9,000.

Miller, T.W. Evaluation of s-metolachlor and fomesafen in potato. Syngenta, \$2,000.

2012: (18 grants totaling \$105,955)

Miller, T. and E. Peachey. Weed control in forest tree nurseries. Washington State Commission for Pesticide Registration. \$9,500.

Miller, T.W. Evaluation of efficacy and crop safety of quinclorac and pendimathalin in red raspberry. Western Region IR-4, UC Davis. \$4,000.

Miller, T.W. and T.W. Walters. Determining the benefits of cane burning to red raspberry in the Pacific Northwest. Washington State USDA Specialty Crop Block Grant Program—Farm Bill. \$21,489 per year (Miller share of a \$128,932 3-year grant).

Miller, T. and C. Cogger. Biofuels cropping systems research in western Washington. Washington State Legislature. \$1,529 (Miller share of a \$374,796 WSU statewide research project).

Miller, T.W. and C.R. Libbey. Weed control in strawberry. Washington State Strawberry Commission. \$8,000.

Miller, T.W. and C.R. Libbey. Testing of several herbicides for perennial weed control and crop safety. Washington State Blueberry Commission. \$5,813.

Miller, T.W. and C.R. Libbey. Postemergence perennial weed control in red raspberries. Washington State Red Raspberry Commission. \$4,053.

Miller, T.W. and C.R. Libbey. Herbicide combinations for weed control in ornamental bulbs. Washington State Bulb Commission. \$3,000.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Ag Research Foundation. \$5,751.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Ag Research Foundation. \$7,197.

Miller, T. Testing of several herbicides for tolerance and weed control of dahlia. Washington State Department of Agriculture Nursery Advisory Committee. \$4,053.

Miller, T.W. Evaluation of mesotrione and fomesafen in raspberry and strawberry. Syngenta, \$8,000.

Miller, T.W. Evaluation of s-metolachlor and fomesafen in potato. Syngenta, \$2,000.

Miller, T.W. Effects of MAT 28 in established Douglas fir. DuPont. \$9,970.

Miller, T.W. Selectivity of terbacil in blueberry, raspberry, and strawberry. NovaSource. \$1,000.

Miller, T.W. and C.R. Libbey. Sabbatical leave support. Washington State Red Raspberry Commission. \$3,250.

Brennan, R., D. Jarrett, and T. Miller. Effect of perennial weeds and herbicides on yield and fruit quality of established blackcurrant. Glaxo Smith Kline. 4,000 GBP (approximately \$5,880; sabbatical leave project).

Brennan, R., D. Jarrett, and T. Miller. Effect of spawn control herbicides on yield and fruit quality of poly-tunnel raspberry. Scottish Society for Crop Research. 1,000 GBP (approximately \$1,470; sabbatical leave project).

2011: (14 grants totaling \$82,851)

Miller, T. and E. Peachey. Weed control in forest tree nurseries. Washington State Commission for Pesticide Registration. \$11,933.

Al-Khatib, K., B. Hanson, R. Boydston, E. Peachey, and T. Miller. IPM education program for vineyards and orchards to prevent and manage glyphosate resistant weeds. Western Region IPM, \$19,744.

Miller, T.W. and T.W. Walters. Determining the benefits of cane burning to red raspberry in the Pacific Northwest. Washington State USDA Specialty Crop Block Grant Program—Farm Bill. \$21,489 per year (Miller share of a \$128,932 3-year grant).

Miller, T. and C. Cogger. Biofuels cropping systems research in western Washington. Washington State Legislature. \$8,645 (Miller share of a \$175,000 WSU statewide research project).

Miller, T.W. and C.R. Libbey. Weed control in strawberry. Washington State Strawberry Commission. \$8,280.

Miller, T.W. and C.R. Libbey. Testing Callisto, Sandea, Matrix, and Stinger in blueberries. Washington State Blueberry Commission. \$5,746.

Miller, T.W. and C.R. Libbey. Postemergence perennial weed control in red raspberries. Washington State Red Raspberry Commission. \$4,015.

Miller, T.W. and C.R. Libbey. Herbicide combinations for weed control in ornamental bulbs. Washington State Bulb Commission. \$1,600.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Ag Research Foundation. \$5,125.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Ag Research Foundation. \$7,128.

Miller, T.W. Evaluation of efficacy and crop safety of quinclorac and pendimathalin in red raspberry. Western Region IR-4, UC Davis. \$4,000.

Miller, T.W. Evaluation of mesotrione in raspberry, blueberry, and ornamental bulb crops. Syngenta, \$3,500.

Miller, T.W. Evaluation of flazasulfuron in grand fir Christmas trees. ISK Biosciences. \$4,000.

Miller, T.W. Selectivity of terbacil in blueberry, raspberry, strawberry, and Douglas fir Christmas trees. NovaSource. \$1,000.

2010: (13 grants totaling \$91,112)

Miller, T.W. and T. W. Walters. Determining the benefits of cane burning to red raspberry in the Pacific Northwest. Washington State USDA Specialty Crop Block Grant Program—Farm Bill. \$21,489 per year (Miller share of a \$128,932 3-year grant).

Miller, T. and C. Cogger. Biofuels cropping systems research in western Washington. Washington State Legislature. \$15,000 (Miller share of a \$500,000 WSU statewide research project).

Weiland, G. et al. Efficacy of biocontrol agents applied to bare-root conifer seedlings grown under minimal buffer zone rates of soil fumigation. Alternatives to Methyl-bromide Program, USDA. \$3,000 (Miller share of an \$84,250 grant).

Miller, T. and C. Miles. Organic weed control in newly-planted grapes. Washington State Commission for Pesticide Registration. \$11,123.

Miller, T.W. and C.R. Libbey. Weed control in strawberry. Washington State Strawberry Commission. \$9,000.

Miller, T.W. and C.R. Libbey. Testing Callisto, Sandea, Matrix, Stinger, and KSU 12800 in blueberries. Washington State Blueberry Commission. \$5,660.

Miller, T.W. and C.R. Libbey. Postemergence Canada thistle and wild buckwheat (bindweed) control in

red raspberries. Washington State Red Raspberry Commission. \$3,938.
Miller, T.W. and C.R. Libbey. Herbicide combinations for weed control in ornamental bulbs. Washington State Bulb Commission. \$1,600.
Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Ag Research Foundation. \$4,000.
Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Ag Research Foundation. \$6,852.
Miller, T.W. Evaluation of mesotrione in blueberry and ornamental bulb crops. Syngenta, \$1,000.
Miller, T.W. Evaluation of flazasulfuron in grand fir Christmas trees. ISK Biosciences. \$5,950.
Miller, T.W. Selectivity of flumioxazin, flumioxazin + pyroxasulfone, and flumioxazin + pendimethalin in grand fir Christmas trees. Valent. \$2,500.

2009: (15 grants totaling \$109,826)

Miller, T.W. and T. W. Walters. Determining the benefits of cane burning to red raspberry in the Pacific Northwest. Washington State USDA Specialty Crop Block Grant Program—Farm Bill. \$21,489 per year (Miller share of a \$128,932 3-year grant).
Miller, T. and C. Miles. Organic weed control in newly-planted grapes. Washington State Commission for Pesticide Registration. \$10,325.
Miller, T. and C. Cogger. Biofuels cropping systems research in western Washington. Washington State Legislature. \$15,000 (Miller share of a \$500,000 WSU statewide research project).
Miller, T.W. and C.R. Libbey. Postemergence Canada thistle and hedge bindweed control in red raspberries. Washington State Red Raspberry Commission. \$3,986.
Miller, T.W. and C.R. Libbey. Weed control in strawberry. Washington State Strawberry Commission. \$9,540.
Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Washington Ag Research Foundation. \$7,200.
Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Washington Ag Research Foundation. \$8,063.
Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Washington Ag Research Foundation. \$6,866.
Miles, C., G. Moulton, T. Miller, M. Olmstead. Weed management in establishing an organic wine grape vineyard. Wine Advisory Commission. \$5,000 (Miller share of a \$10,000 grant).
Miller, T. W and C.R. Libbey. Perennial weed control testing in blueberry. Washington State Blueberry Commission. \$5,578.
Miller, T.W. and C.R. Libbey. Herbicide combinations for weed control in ornamental bulbs. Washington State Bulb Commission. \$1,600.
Miller, T.W. Herbicide combinations for weed control in ornamental bulbs. Wally Staatz Endowment. \$3,679.
Miller, T.W. Evaluation of In-Place, Bronc Max, and glyphosate in Christmas trees. Wilbur-Ellis. \$2,500.
Miller, T.W. Evaluation of terbacil in several crops. Novasource. \$6,500.
Miller, T.W. Evaluation of flazasulfuron in Christmas trees. ISK Biosciences. \$2,500.

2008: (18 grants totaling \$91,040)

Miller, T. and C. Cogger. Biofuels cropping systems research in western Washington. Washington State Legislature. \$20,000 (Miller share of a \$500,000 WSU statewide research project).
Yenish, J., T. Miller, and I. Burke. Weed management in biofuel crops. Washington State Legislature. \$8,000 (Miller share of a \$500,000 WSU statewide research project).
Walters T.W., C. Miles, D. Inglis, L. Tanigoshi, T. Miller, C. MacConnell, D. McMoran. High-value crops under high tunnels in western Washington. WSU Emerging Research Issues Internal Competitive Grant. \$3,053 (Miller share of a \$48,512 grant).
Cogger, C. et al. Designing production strategies for stewardship and profits on fresh market organic farms. USDA IOP, \$2,500 (Miller share of a \$644,232 grant).

Weiland, G. et al. Alternatives to methyl-bromide in forest tree nurseries. Alternatives to Methyl-bromide Program, USDA. \$3,000 (Miller share of a \$68,600 grant).

Miles, C., G. Moulton, T. Miller, M. Olmstead. Weed management in establishing an organic wine grape vineyard. Wine Advisory Commission. \$1,000 (Miller share of a \$13,000 grant).

Miles, C., G. Moulton, T. Miller, M. Olmstead. Weed management in establishing an organic wine grape vineyard. USDA, CSANR Organic Agriculture Grant. \$1,000 (Miller share of a \$36,737 grant).

Miller, T.W. and C.R. Libbey. Postemergence Canada thistle and hedge bindweed control in red raspberries. Washington State Red Raspberry Commission. \$3,986.

Miller, T.W. and C.R. Libbey. Weed control in strawberry. Washington State Strawberry Commission. \$10,768.

Miller, T. W and C.R. Libbey. Perennial weed control testing in blueberry. Washington State Blueberry Commission. \$5,713.

Miller, T.W. and C.R. Libbey. Herbicide combinations for weed control in ornamental bulbs. Washington State Bulb Commission. \$1,327.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Washington Ag Research Foundation. \$8,715.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Washington Ag Research Foundation. \$7,039.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Washington Ag Research Foundation. \$6,939.

Miller, T.W. Evaluation of metribuzin in potatoes. Cheminova. \$2,000.

Miller, T.W. Evaluation of several triallate formulations in oat. \$2,500.

Miller, T.W. Evaluation of flazasulfuron in Christmas trees. ISK Biosciences. \$2,000.

Miller, T.W. Evaluation of sulfentrazone in Christmas trees. Valent. \$1,500.

2007: (19 grants totaling \$95,475)

Walters T.W., C. Miles, D. Inglis, L. Tanigoshi, T. Miller, C. MacConnell, D. McMoran. High-value crops under high tunnels in western Washington. WSU Emerging Research Issues Internal Competitive Grant. \$3,000 (Miller share of a \$46,323 grant).

Walsh, D., L. du Toit, T. Miller, L. Tanigoshi, R. Boydston, L. Porter, S. O'Neal Coates, T. Waters, D. McMoran. Protecting and enhancing Washington's seed industry. WSU Extension Issue Focused Teams. \$2,500 (Miller share of a \$30,800 grant).

Miller, T.W. Testing cloyralid and sprayable dichlobenil for crop safety in established red raspberry. Washington State Commission on Pesticide Registration, \$3,770.

Miller, T.W. Testing fluoroxypr and oxyfluorfen for tolerance in cabbage seed. Washington State Commission on Pesticide Registration. \$2,425.

Miller, T. W and C.R. Libbey. Perennial weed control testing in blueberry. Washington State Blueberry Commission. \$5,415.

Miller, T.W. and C.R. Libbey. Testing postemergence Canada thistle control in red raspberry. Washington State Red Raspberry Commission. \$3,770.

Miller, T.W. and C.R. Libbey. Herbicide testing in strawberry. Washington State Strawberry Commission. \$10,830.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Washington Ag Research Foundation. \$9,415.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Washington Ag Research Foundation. \$5,565.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Washington Ag Research Foundation. \$5,165.

Miller, T.W. Biofuels cropping systems research in western Washington and herbicide testing in camelina. Washington State Legislature. \$30,000 (Miller share of a \$500,000 WSU statewide research project).

Miller, T.W. Evaluation of pendimethalin and pyrazone in tulip. BASF. \$3,000.

Miller, T.W. Evaluation of flumioxazin, V-10142, and V10204 in raspberry. Valent. \$4,000.
Miller, T.W. Evaluation of mesotrione in raspberry and blueberry. Syngenta. \$3,000.
Miller, T.W. Evaluation of dichlobenil in raspberry and blueberry. Chemtura. \$4,000.
Miller, T.W. Evaluation of flazasulfuron in Christmas trees. ISK Biosciences. \$4,000.
Miller, T.W. Evaluation of aminopyralid in knotweed. DowAgroSciences. \$3000.
Miller, T.W. Evaluation of KSU 12800 (DPX-MY926) in potato and blueberry. National Institute for Strategic Technology Acquisition and Commercialization. \$3,000.
Miller, T.W. Evaluation of several triallate formulations in oat. \$5,000.

2006: (16 grants totaling \$71,043)

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Agricultural Research Foundation. \$9,425.
Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Agricultural Research Foundation. \$5,565.
Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Agricultural Research Foundation. \$4,610.
Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,830.
Miller, T.W. and C.R. Libbey. Weed control in blueberries. Washington State Blueberry Commission. \$4,728.
Miller, T.W. and C.R. Libbey. Postemergence Canada thistle control in red raspberries. Washington State Red Raspberry Commission. \$2,330
Miller, T.W. and C.R. Libbey. Alternate year raspberry for perennial weed control. Washington State Red Raspberry Commission. \$7,645
Miller, T.W. Evaluation of herbicide efficacy on hairy willowherb. Washington State Department of Ecology. \$5,105.
Miller, T.W. Testing of pendimethalin and pyrazon for tolerance in tulip. Washington State Commission on Pesticide Registration. \$3,223.
Miller, T.W. Using an alternate year (AY) red raspberry system to aid perennial weed control. Washington State Commission on Pesticide Registration. \$4,600.
Miller, T.W. Evaluation of topramezone in field corn. AMVAC. \$2,500.
Miller, T.W. Evaluation of tank mixes of topramezone with Renegade and In-Place in field corn. Wilbur-Ellis Company. \$1,000.
Miller, T.W. Evaluation of mesotrione in raspberry. Syngenta. \$3,000.
Miller, T.W. Evaluation of pendimethalin and pyrazon in tulip. BASF. \$3,000.
Miller, T.W. Evaluation of rimsulfuron in blueberry and red raspberry. DuPont. \$2,500.
Miller, T.W. Evaluation of KSU 12800 (DPX-MY926) in apple. Kansas State University. \$1,000.

2005: (20 grants totaling \$136,681)

Miller, T.W. Field evaluation of herbicides in spinach and garden beet. National Herbicide Performance Pilot Project, IR-4 Program. \$4,000.
Miller, T.W. Evaluation of herbicide efficacy on yellow flag iris. Washington State Department of Ecology. \$2,500.
Miller, T.W. Agricultural applications to aid in the restoration of native prairies. National Park Service. \$10,213.
Miller, T.W. and D.A. Inglis. Organic transition rotations for the Pacific Northwest. Special USDA grant via WSU Center for Sustaining Agriculture and Natural Resources. \$31,980.
Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Agricultural Research Foundation. \$9,810.
Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Agricultural Research Foundation. \$5,570.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Agricultural Research Foundation. \$4,990.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,840.

Miller, T.W. and C.R. Libbey. Weed control in blueberries. Washington State Blueberry Commission. \$4,505.

Miller, T.W. and C.R. Libbey. Ornamental bulb weed control. Washington State Bulb Commission. \$9,900.

Miller, T.W. Evaluation of knotweed control projects in southwestern Washington. Washington State Department of Agriculture. \$11,303.

Miller, T.W. and C.R. Libbey. Weed control in red raspberries. Washington State Red Raspberry Commission. \$7,000.

Miller, T.W. Testing of pendimethalin and dimethenamid-p for tolerance in tulip. Washington State Commission on Pesticide Registration. \$3,150.

Miller, T.W. Testing of micro-rate technology for weed control in table beets and Swiss chard seed crops. Washington State Commission on Pesticide Registration. \$4,340.

Miller, T.W. Perennial weed control in blueberry. Washington State Commission on Pesticide Registration. \$3,580.

du Toit, L.J. and T.W. Miller. Efficacy of mustard biofumigants for management of weeds and Fusarium wilt in spinach seed crops in western Washington. Washington State Commission on Pesticide Registration. \$1,000.

Miller, T.W. Evaluation of rimsulfuron in blueberry and red raspberry. DuPont. \$2,500.

Miller, T.W. Evaluation of flumioxazin in established strawberry, blueberry, and potatoes. Valent. \$4,500.

Miller, T.W. Evaluation of pendimethalin and dimethenamide-p in tulip. BASF. \$3,000.

Miller, T.W. Evaluation of aminopyralid for control of invasive knotweed. DowAgrosciences. \$2,000.

2004: (14 grants totaling \$96,149)

Miller, T.W. and D.A. Inglis. Organic transition rotations for the Pacific Northwest. Special USDA grant via WSU Center for Sustaining Agriculture and Natural Resources. \$30,959.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Agricultural Research Foundation. \$12,135.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Agricultural Research Foundation. \$5,000.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Agricultural Research Foundation. \$5,500.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,560.

Miller, T.W. and C.R. Libbey. Weed control in blueberries. Washington State Blueberry Commission. \$4,700.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Washington Ag Research Foundation. \$9,415.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Washington Ag Research Foundation. \$5,565.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Washington Ag Research Foundation. \$5,165.

Miller, T.W. and C.R. Libbey. Weed control in red raspberries. Washington State Red Raspberry Commission. \$2,500.

Miller, T.W. Testing of postemergence herbicides for use in Apiaceae seed crops Washington State Commission on Pesticide Registration. \$1,500.

Miller, T.W. Perennial weed control in blueberries. Washington State Commission on Pesticide Registration. \$3,500.

Miller, T.W. Use of herbicides and flame for weed control in spinach seed. Washington State Commission on Pesticide Registration. \$2,500.

du Toit, L.J. and T.W. Miller. Efficacy of mustard biofumigants for management of weeds and Fusarium wilt in spinach seed crops in western Washington. Washington State Commission on Pesticide Registration. \$4,500 (Miller share; total grant \$7,500).

Miller, T.W. Evaluation of EPTC in field and sweet corn. Gowan. \$3,000.

Miller, T.W. Testing of sweet corn tolerance to mesotrione. National Frozen Foods. \$2,000.

2003: (20 grants totaling \$111,783)

Miller, T.W. and D.A. Inglis. Organic transition rotations for the Pacific Northwest. Special USDA grant via WSU Center for Sustaining Agriculture and Natural Resources. \$18,670.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Agricultural Research Foundation. \$12,530.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Agricultural Research Foundation. \$5,903.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Agricultural Research Foundation. \$5,500.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,120.

Miller, T.W. and C.R. Libbey. Weed control in blueberries. Washington State Blueberry Commission. \$4,230.

Miller, T.W. and C.R. Libbey. Ornamental bulb weed control. Washington State Bulb Commission. \$9,000.

Miller, T. and B. Maupin. Famoxadone + cymoxanil: magnitude of the residue on caneberry. Western Region IR-4 Program. \$4,200.

Miller, T. and B. Maupin. fluazinam: magnitude of the residue on blueberry (high bush). Western Region IR-4 Program. \$4,200.

Miller, T. and B. Maupin. Imidacloprid: magnitude of the residue on caneberry (raspberry). Western Region IR-4 Program. \$4,200.

Miller, T. and B. Maupin. Indoxacarb: magnitude of the residue on blueberry. Western Region IR-4 Program. \$4,200.

Boydston, R., T. Miller, and J. Yenish. Efficacy and crop tolerance of flumioxazin and sulfentrazone for weed control in green (succulent) pea and dry pea and lentil production. Washington State Commission on Pesticide Registration. \$4,000 (Miller share; total grant \$12,000).

Miller, T.W. Testing of postemergence herbicides for use in Apiaceae seed crops Washington State Commission on Pesticide Registration. \$1,500.

Miller, T.W. Perennial weed control in blueberries. Washington State Commission on Pesticide Registration. \$3,500.

Miller, T.W. Testing of halosulfuron, dimethenamid-p, s-metolachlor, and clomazone in cucurbits. Washington State Commission on Pesticide Registration. \$4,500.

du Toit, L.J. and T.W. Miller. Efficacy of mustard biofumigants for management of weeds and Fusarium wilt in spinach seed crops in western Washington. Washington State Commission on Pesticide Registration. \$2,530 (Miller share; total grant \$10,530).

Miller, T.W. Control of wild proso millet and barnyardgrass in sweet corn using mesotrione. National Frozen Foods. \$3,000.

Miller, T.W. Mesotrione selectivity in sweet corn varieties. Syngenta. \$5,000.

Miller, T.W. Evaluation of halosulfuron in cucumbers, squash, and pumpkins. Gowan. \$3,000.

Miller, T.W. Flumioxazin in established strawberry trial. Valent. \$2,000.

2002: (25 grants totaling \$124,250)

Miller, T.W. Efficacy of Interceptor, a new certified organic herbicide, and Scythe as caneburners. Washington State Commission on Pesticide Registration. \$4,500.

Miller, T.W. Evaluation of various herbicides applied to cauliflower using a prototype shielded sprayer. Washington State Commission on Pesticide Registration. \$13,020.

Miller, T. and B. Maupin. Evaluation of organic herbicides and flaming for weed control in strawberries. Washington State Commission on Pesticide Registration. \$1,790.

Boydston, R., T. Miller, and J. Yenish. Efficacy and crop tolerance of flumioxazin and sulfentrazone for weed control in green (succulent) pea and dry pea and lentil production. Washington State Commission on Pesticide Registration. \$4,000 (Miller share; total grant \$12,000).

Miller, T. and B. Maupin. Clethodim: magnitude of the residue on caneberry (raspberry). Western Region IR-4 Program. \$3,000.

Miller, T. and B. Maupin. Dimethenamid-p: magnitude of the residue on winter squash. Western Region IR-4 Program. \$3,000.

Miller, T. and B. Maupin. Flumioxazin: magnitude of the residue on strawberry. Western Region IR-4 Program. \$3,000.

Miller, T. and B. Maupin. Glufosinate: magnitude of the residue on blueberry. Western Region IR-4 Program. \$3,000.

Miller, T. and B. Maupin. Mefenoxam + copper: magnitude of the residue on caneberry (raspberry). Western Region IR-4 Program. \$3,000.

Miller, T. and B. Maupin. Quinoxifen: magnitude of the residue on strawberry. Western Region IR-4 Program. \$3,000.

Miller, T. and B. Maupin. Thiamethoxam: magnitude of the residue on caneberry. Western Region IR-4 Program. \$3,000.

Miller, T. and B. Maupin. Thiophanate methyl: magnitude of the residue on caneberry (raspberry). Western Region IR-4 Program. \$3,000.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Agricultural Research Foundation. \$12,530.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Agricultural Research Foundation. \$8,710.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Agricultural Research Foundation. \$10,450.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,120.

Miller, T.W. and C.R. Libbey. Caneburning and Weed Control in Red Raspberries. Washington State Red Raspberry Commission. \$7,300.

Miller, T.W. and C.R. Libbey. Weed control in blueberries. Washington State Blueberry Commission. \$4,230.

Miller, T.W. and C.R. Libbey. Ornamental bulb weed control. Washington State Bulb Commission. \$9,000.

Miller, T.W. Sweet corn herbicide screening. BASF. \$2,000.

Miller, T.W. Clethodim in established strawberry trial. Valent. \$1,000.

Miller, T.W. Sweet corn, broccoli, and spring wheat magnitude of the residue tests. Syngenta. \$2,500.

Miller, T.W. Volunteer potato control with mesotrione. Syngenta. \$5,000.

Miller, T.W. Evaluation of halosulfuron in cucumbers, squash, and pumpkins. Gowan. \$3,000.

Miller, T.W. Evaluation of glyphosate + diquat RTU for homeowners. Syngenta. \$1,100.

2001: (14 grants totaling \$88,191)

Miller, T.W. and C.R. Libbey. Weed control in newly-planted strawberry. Washington State Commission on Pesticide Registration. \$6,225.

Miller, T.W. and C.R. Libbey. Evaluation of organic herbicides and flaming for weed control in strawberries. Washington State Commission on Pesticide Registration. \$3,940.

Miller, T.W. and C.R. Libbey. Weed control in spinach and table beets grown for seed. Washington State Commission on Pesticide Registration. \$5,100.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Agricultural Research Foundation. \$7,966.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Agricultural Research Foundation. \$8,710.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Agricultural Research Foundation. \$10,450.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,120.

Miller, T.W., S.F. Klauer, C. Chen, and C.R. Libbey. Caneburning and Weed Control in Red Raspberries. Washington State Red Raspberry Commission. \$13,000.

Miller, T.W. and C.R. Libbey. Weed control in blueberries. Washington State Blueberry Commission. \$4,230.

Miller, T.W. and C.R. Libbey. Ornamental bulb weed control. Washington State Bulb Commission. \$10,950.

Miller, T.W. Sweet corn and table beet magnitude of the residue tests. Syngenta. \$2,500.

Miller, T.W. Sweet corn herbicide screening. BASF. \$2,000.

Miller, T.W. Clethodim in newly planted strawberry trial. Valent. \$2,000.

Miller, T.W. Strategy testing in pickling cucumbers. UAP. \$1,000

2000: (16 grants totaling \$152,491)

Miller, T.W. and C.R. Libbey. Weed control in newly-planted strawberry. Washington State Commission on Pesticide Registration. \$4,525.

Miller, T.W. and C.R. Libbey. Evaluation of organic herbicides and flaming for weed control in strawberries. Washington State Commission on Pesticide Registration. \$3,650.

Miller, T.W. and C.R. Libbey. Weed control in spinach and table beets grown for seed. Washington State Commission on Pesticide Registration. \$4,268.

Miller, T.W. and C.R. Libbey. Weed control in cucumbers. Northwest Agricultural Research Foundation. \$7,966.

Miller, T.W. and C.R. Libbey. Weed control in green peas. Northwest Agricultural Research Foundation. \$8,536.

Miller, T.W. and C.R. Libbey. Weed control in vegetable seed crops. Northwest Agricultural Research Foundation. \$11,146.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,120.

Miller, T.W., S.F. Klauer, C. Chen, J.S. Cameron, and C.R. Libbey. Caneburning and Weed Control in Red Raspberries. Washington State Red Raspberry Commission. \$13,600.

Miller, T.W. and C.R. Libbey. Weed control in blueberries. Washington State Blueberry Commission. \$4,230.

Miller, T.W. and C.R. Libbey. Ornamental bulb weed control. Washington State Bulb Commission. \$10,950.

Johnston, W., W. Anderson, W. Haglund, and T. Miller. Alternatives to burning of grass seed post-harvest residue. State of Washington. \$55,000.

Miller, T.W. Cyfluthrin: magnitude of the residue on timothy (grasses). Western Region IR-4 Program. \$3,500.

Miller, T.W. Metaldehyde: magnitude of the residue on caneberry (raspberry). Western Region IR-4 Program. \$3,500.

Miller, T.W. Azafenidin: magnitude of the residue on blueberry. Western Region IR-4 Program. \$3,500.

Miller, T.W. Abamectin: magnitude of the residue on caneberry (raspberry or blackberry). Western Region IR-4 Program. \$3,500.

Miller, T.W. Field corn herbicide evaluation. Zeneca. \$4,500.

1999: (23 grants totaling \$104,995)

Miller, T.W. and C.R. Libbey. Varietal testing of meadowfoam in Puget Sound area. Oregon State University. \$2,000.

Miller, T.W. and C.R. Libbey. Weed control in newly-planted strawberry. Washington State Commission on Pesticide Registration. \$4,525.

Miller, T.W. and C.R. Libbey. Chemical control of grassy weeds in perennial ryegrass grown for seed. Washington State Commission on Pesticide Registration (match by Northwest Air Pollution Authority. \$6,840.

Miller, T.W. and C.R. Libbey. Weed control in spinach and table beets grown for seed. Washington State Commission on Pesticide Registration. \$3,500.

Miller, T.W. and C.R. Libbey. Cucumber weed control. Northwest Agricultural Research Foundation. \$7,050.

Miller, T.W. and C.R. Libbey. Green pea weed control. Northwest Agricultural Research Foundation. \$10,870.

Miller, T.W. and C.R. Libbey. Vegetable seed weed control. Northwest Agricultural Research Foundation. \$10,450.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,120.

Miller, T.W. and C.R. Libbey. Blueberry weed control. Washington State Blueberry Commission. \$4,230.

Miller, T.W. Herbicides for control of smooth hawkweed. Noxious Weed Control Board, Washington State Department of Agriculture. \$5,000.

Miller, T.W. and C.R. Libbey. Ornamental bulb weed control. Washington State Bulb Commission. \$12,110.

Miller, T.W. Azoxystrobin: magnitude of the residue on raspberry. Western Region IR-4 Program. \$3,500.

Miller, T.W. Pyriproxyfen: magnitude of the residue on blueberry. Western Region IR-4 Program. \$2,800.

Miller, T.W. Pea tolerance to pendimethalin and imazamox. American Cyanamid. \$1,000.

Miller, T.W. Sulfosate rate trials in apple. Zeneca. \$6,000.

Miller, T.W. Sulfosate for chemical mowing of established grass. Zeneca. \$2,000.

Miller, T.W. Sweet corn tolerance to acetochlor. Zeneca. \$2,000.

Miller, T.W. Sweet corn tolerance to BAS 656, BAS 662, and dimethenamid. BASF. \$500.

Miller, T.W. Potato tolerance to BAS 656 and dimethenamid. BASF. \$500.

Miller, T.W. Sweet corn tolerance to carfentrazone. FMC. \$1,000.

Miller, T.W. Potato tolerance to sulfentrazone. FMC. \$2,000.

Miller, T.W. Rotational crop tolerance to clopyralid. Dow AgroSciences. \$5,000.

Miller, T.W. Use of oxyfluorfen, thiazopyr, and pronamide in strawberries, raspberries, and blueberries. Rohm and Haas. \$2,000.

1998: (19 grants totaling \$114,480)

Miller, T.W. and C.R. Libbey. Cucumber weed control. Northwest Agricultural Research Foundation. \$7,000.

Miller, T.W. and C.R. Libbey. Green pea weed control. Northwest Agricultural Research Foundation. \$10,870.

Miller, T.W. and C.R. Libbey. Vegetable seed weed control. Northwest Agricultural Research Foundation. \$10,450.

Cameron, S., T. Miller, C. Chen, S. Klauer, and C. Libbey. Advanced testing of new products for caneburning of red raspberry. Washington State Red Raspberry Commission. \$10,000.

Miller, T.W. and C.R. Libbey. Strawberry weed control. Washington State Strawberry Commission. \$10,120.

Miller, T.W. and C.R. Libbey. Ornamental bulb weed control. Washington State Bulb Commission. \$19,750.

Miller, T.W. and C.R. Libbey. Use of UpBeet (triflusulfuron) in table beets and Swiss chard grown for seed. Washington State Commission on Pesticide Registration. \$2,490.

Miller, T.W. and C.R. Libbey. Effects of diquat applied as a pre-harvest desiccant on vegetable seed quality and germination. Washington State Commission on Pesticide Registration. \$3,900.

Miller, T.W. and C.R. Libbey. Weed control in newly-planted strawberry. Washington State Commission on Pesticide Registration. \$4,900.

Miller, T.W. Hexythiazox: magnitude of the residue on raspberry. Western Region IR-4 Program. \$2,500.

Miller, T.W. Ferbam: magnitude of the residue on raspberry. Western Region IR-4 Program. \$5,000.

Miller, T.W. Carfentrazone-ethyl: magnitude of the residue on caneberry (raspberry). Western Region IR-4 Program. \$5,000.

Miller, T.W. Container-grown Douglas fir and grand fir tolerance to clethodim and lactofen. Valent. \$2,500.

Miller, T.W. Pea tolerance to pendimethalin and imazamox. American Cyanamid. \$2,000.

Miller, T.W. Pea tolerance to fomesafen. Zeneca. \$2,500.

Miller, T.W. Sulfosate timing and efficacy trials. Zeneca. \$9,000.

Miller, T.W. Sweet corn tolerance to acetochlor. Zeneca. \$2,500.

Miller, T.W. Sweet corn tolerance to BAS 656, BAS 662, and dimethenamid. BASF. \$1,000.

Miller, T.W. Use of quizalofop in vegetable seed crops, and field corn herbicide study. DuPont. \$3,000.

1992-1997: (5 grants totaling \$137,930)

Thill, D.C., T.W. Miller (co. PIs), J.P. McCaffrey, J.G. Guenthner, and R.O. Schirman. Chemical and biological control of picloram-resistant yellow starthistle. Western Region Pesticide Impact and Assessment Program. \$75,684. (1997-98, awarded to UI).

Libbey, C.R. and T.W. Miller. Use of UpBeet (triflusulfuron) in table beets and Swiss chard grown for seed. Washington State Commission on Pesticide Registration. \$1,750. 1997.

Libbey, C.R. and T.W. Miller. Effects of diquat applied as a pre-harvest desiccant on vegetable seed quality and germination. Washington State Commission on Pesticide Registration. \$1,496. 1997.

Miller, T.W. Yellow starthistle Integrated Pest Management. IPM mini-grants, University of Idaho. 1997. \$1,100.

Callahan, R.H. and T.W. Miller. Yellow starthistle Integrated Pest Management. USDA/ARS. 1996-97. \$57,900.

1989-1991: Miller, T.W. Assorted weed science projects. University of Idaho Extension System and private herbicide manufacturers. \$8,550.

PRESENTATIONS:

Washington pesticide pre-license trainings: (26 three-hour sessions)

Weed control principles. March 30, 2011. WSU Pesticide Pre-license Training, Bellingham, WA.

Weed control principles. June 13, 2007. WSU Pesticide Pre-license Training, Forks, WA.

Weed control principles. April 12, 2006. Pre-licence Training, WSU Extension, WSU Puyallup.

Weed control principles. March 30, 2005. Pre-licence Training, WSU Extension, Bellingham, WA.

Weed control principles. January 19, 2005. Pre-licence Training, WSU Extension, Tacoma, WA.

Weed control principles. March 24, 2004. Pre-licence Training, WSU Cooperative Extension, Bellingham, WA.

Weed control principles. January 8, 2003. Pre-licence Training, WSU Cooperative Extension, WSU Vancouver.

Weed management principles. December 3, 2002. Washington Turf and Landscape Show, Bellevue, WA.

Weed control principles. April 17, 2002. Pre-licence Training, WSU Cooperative Extension, WSU Puyallup.

Principles of weed control. December 4, 2001. Washington Turf and Landscape Show, Bellevue, WA.

Weed control principles. March 28, 2001. Pre-licence Training, WSU Cooperative Extension, Bellingham, WA.

Weed control principles. February 7, 2001. Pre-licence Training, WSU Cooperative Extension, Kirkland, WA.

Weed control principles. January 10, 2001. Pre-licence Training, WSU Cooperative Extension, Tacoma, WA.

Principles of weed control. December 5, 2000. Washington Turf and Landscape Show, Bellevue, WA.

Weed control principles. March 29, 2000. Pre-license Training, WSU Cooperative Extension, WSU Puyallup.

Weed control principles. March 1, 2000. Pre-license Training, WSU Cooperative Extension, Tacoma, WA.

Weed control principles. February 16, 2000. Pre-license Training, WSU Cooperative Extension, Kirkland, WA.

Weed control principles. February 1, 2000. Pre-license Training, WSU Cooperative Extension, Lacey, WA.

Weed control principles. January 12, 2000. Pre-license Training, WSU Cooperative Extension, Tacoma, WA.

Weed control principles. March 24, 1999. Pre-license Training, WSU Cooperative Extension, WSU Puyallup.

Weed control principles. February 24, 1999. Pre-license Training, WSU Cooperative Extension, Tacoma, WA.

Weed control principles. January 13, 1999. Pre-license Training, WSU Cooperative Extension, Tacoma, WA.

Principles of weed control. December 8, 1998. Washington Turf and Landscape Show, Bellevue, WA.

Weed control principles. February 24, 1998. Pre-license Training, WSU Cooperative Extension, Tacoma, WA.

Weed control principles. January 21, 1998. Pre-license Training, WSU Cooperative Extension, Everett, WA.

Weed control principles. January 14, 1998. Pre-license Training, WSU Cooperative Extension, Kelso, WA.

Weed control in agronomic/horticultural crops: (156 presentations)

ornamentals: (13 presentations)

New and emerging herbicide tools for weed control in forest nurseries. August 7, 2013. Western Forestry and Conservation Nursery Association, Olympia, WA.

Weed identification and choosing the correct herbicide. June 21, 2013. Pacific Northwest Christmas Tree Association Annual Meeting, Portland, OR.

Weed management in ornamental bulbs. January 22, 2013. Wilbur-Ellis Grower Meeting, Auburn, WA.

Weed management in ornamental bulbs. January 24, 2012. Wilbur-Ellis Grower Meeting, Auburn, WA.

2009 and 2010 weed management trials. January 26, 2011. Wilbur-Ellis Grower Meeting, Auburn, WA.

2008/09 weed management trials in ornamental bulbs. January 13, 2010. Wilbur-Ellis Grower Meeting, Auburn, WA.

Weed Management in Christmas trees. June 19, 2009. Pacific Northwest Christmas Tree Association Annual Meeting, Olympia, WA.

2008/2009 Weed management trials in ornamental bulbs. January 14, 2009. Wilbur-Ellis Grower Meeting, Auburn, WA.

Herbicide trials in Christmas trees. January 14, 2009. Wilbur-Ellis Grower Meeting, Auburn, WA.

New herbicide evaluations in bulb crops. May 14, 2008. Bulb Field Day, WSU, Mount Vernon.

Weed control research in ornamental bulbs: 1998-2007. January 9, 2008. Western Washington Horticulture Association, Everett, WA.

Weed control in ornamental bulbs. November 3, 2005. Washington State Weed Conference, Yakima, WA.

Fall-applied paraquat affects spring growth of daffodil. January 7, 2004. Western Washington Horticultural Association, SeaTac, WA.

seed crops: (28 presentations)

Weed control in vegetable seed crops. February 6, 2013. Wilbur-Ellis/Alf Christianson Seed Company Growers' Program, Burlington, WA.

Weed management in vegetable seed crops. January 25, 2013. Puget Sound Seed Growers Association annual meeting, Mount Vernon, WA.

Researching weed management strategies in cabbage, spinach and beet seed. February 22, 2012. Specialty Seed Growers of Western Oregon annual meeting, Albany, OR.

Weed trials for spinach, cabbage, and beets. February 2, 2012. Wilbur-Ellis/Alf Christianson Seed Company Growers' Program, Burlington, WA.

Weed management in vegetable seed crops. January 27, 2012. Puget Sound Seed Growers Association annual meeting, Mount Vernon, WA.

Weed trials for spinach, cabbage, and beets. March 3, 2011. Wilbur-Ellis/Alf Christianson Seed Company Growers' Program, Burlington, WA.

Weed management in vegetable seed crops. January 28, 2011. Puget Sound Seed Growers Association annual meeting, Mount Vernon, WA.

Weed management strategies in cabbage, spinach and beet seed. February 26, 2010. Specialty Seed Growers of Western Oregon Grower's Program, Albany, OR.

Weed control in vegetable seed crops. February 16, 2010. Wilbur-Ellis/Alf Christianson Seed Company Growers' Program, Burlington, WA.

Weed control in vegetable seed crops. February 25, 2009. Wilbur-Ellis/Alf Christianson Seed Company Growers' Program, Burlington, WA.

Weed control in vegetable seed crops. March 5, 2008. Wilbur-Ellis/Alf Christianson Seed Company Growers' Program, Mount Vernon, WA.

Weed control in vegetable seed crops. March 1, 2007. Wilbur-Ellis/Alf Christianson Seed Company Growers' Program, Mount Vernon, WA.

Results of canola and mustard production trials in Snohomish county. December 18, 2006. Biodiesel Informational Seminar, Monroe, WA.

Micro-rate herbicide testing in beets and Swiss chard. November 2, 2006. Washington State Weed Conference, Yakima, WA.

Weed control in spinach seed. July 13, 2006. International Spinach Conference, La Conner, WA.

Weed control in vegetable seed crops. March 7, 2006. Alf Christianson Seed Co. and Wilbur-Ellis Co. Grower Meeting, Mount Vernon, WA.

Western Washington Biofuel Production Trials. November 10, 2005. Focus on Farming Conference II, Monroe, WA.

Weed control in vegetable seed crops. March 11, 2005. Alf Christianson Seed Co. and Wilbur-Ellis Co. Grower Meeting, Mount Vernon, WA.

Weed control research in selected vegetable seed crops. November 30, 2004. Willamette Valley Specialty Seed Grower's Association Annual Meeting, Albany, OR.

Weed control in Apiaceae seed crops. November 4, 2004. Washington State Weed Conference, Yakima, WA.

Problem weeds in vegetable seed crops. February 27, 2003. Alf Christianson Seed Co. and Wilbur-Ellis Co. Grower Meeting, Mount Vernon, WA.

Weed control in vegetable seed production. November 20, 2002. Puget Sound Seed Growers Association, Mount Vernon, WA.

Herbicides for vegetable seed production. November 20, 2001. Puget Sound Seed Growers Association, Mount Vernon, WA.

Herbicides for vegetable seed production. November 8, 2000. Puget Sound Seed Growers Association, Mount Vernon, WA.

Vegetable seed weed management. March 9, 2000. Growers Field Day, Wolfkill Chemical, Mount Vernon.

Weed control in vegetable seed. November 10, 1999. Puget Sound Seed Growers Association, Mount Vernon, WA.

Weed control in vegetable seed. November 11, 1998. Puget Sound Seed Growers Association, Mount Vernon, WA.

Weed management in vegetable seed. January 7, 1998. Vegetable Seed Session, Western Washington Horticultural Conference, SeaTac, WA.

small fruit: (85 presentations)

Introduction to weed identification, biology, and management in berry crops. December 6, 2013. WSU Washington Small Fruit Conference, Lynden, WA.

Weed trials in Scottish soft fruit: what I learned during my sabbatical. December 5, 2013. WSU Washington Small Fruit Conference, Lynden, WA.

Weed management trials in raspberry and blueberry. December 5, 2013. WSU Washington Small Fruit Conference, Lynden, WA.

My Scottish research: do weeds affect the quality of berries? November 7, 2013. Washington State Weed Conference, Wenatchee, WA.

Weed ID and management in berry crops. June 26, 2013. Whatcom County Extension Field Day, Ferndale, WA.

Berry production in Scotland. June 6, 2013. Washington Friends of Farms and Forests meeting, WSU Mount Vernon NWREC.

Weed management options in strawberry. June 5, 2013. Oregon State University Strawberry Open House, North Willamette Research and Extension Center, Aurora, OR.

Weed management in berry crops. February 27, 2013. Diversified Agriculture Conference, Westminster College, Salt Lake City, UT.

To burn or not to burn: effects of managing red raspberry cane growth. February 25, 2013. Crop and Soil Science Departmental Seminar, Utah State University, Logan, UT.

Weed management trials in berries. February 6, 2013. Skagit Farmers Supply Growers Recertification Meeting, Mount Vernon, WA.

From the lowlands to the highlands: highlights of my sabbatical leave. February 4, 2013. Crop and Soil Science Departmental Seminar, WSU, Pullman.

Weed management in strawberries. January 29, 2013. North American Strawberry Growers Association Berry Conference, Portland, OR.

New products and methods for raspberry and strawberry weed management. January 24, 2013. Horticultural Growers' Short Course, Abbotsford, B.C., Canada.

New herbicides for weed management in berry crops. January 17, 2013. North Willamette Horticulture Society, Canby, OR.

Organic weed control in berries. December 7, 2012. WSU Washington Small Fruit Conference, Lynden, WA.

Weed control update in raspberry and blueberry. December 7, 2012. WSU Washington Small Fruit Conference, Lynden, WA.

From the lowlands to the highlands: highlights of my sabbatical leave. November 19, 2012. WSU Mount Vernon NWREC Brown Bag Seminar Series, WSU Mount Vernon NWREC.

Raspberry spawn control: what we know and what we need to find out. July 19, 2012. Fruit for the Future, James Hutton Institute, Invergowrie, Scotland, UK.

Vineyard weeds. February 21, 2012. Practical Solutions for Vineyard Pest Management, WSU Viticulture and Enology Extension, Prosser, WA.

Weed research update. January 12, 2012. North Willamette Horticulture Society, Canby, OR.

Weed management in raspberries. December 9, 2011. WSU Washington Small Fruit Conference, Lynden, WA.

Weed management in blueberry crops. December 8, 2011. WSU Washington Small Fruit Conference, Lynden, WA.

Weed control research update. January 13, 2011. North Willamette Horticulture Society, Canby, OR.

An update on cane burning in red raspberry. December 7, 2010. WSU Western Washington Small Fruit Workshop, Lynden, WA.

Weed control research in berry crops. December 7, 2010. WSU Western Washington Small Fruit Workshop, Lynden, WA.

Evaluation of options for control of problem weeds in raspberries and strawberries. January 28, 2010. Horticultural Growers' Short Course, Abbotsford, B.C., Canada.

Weed research update and information on perennial weed control. January 14, 2010. North Willamette Horticulture Society, Canby, OR.

Weed control trials in blueberries. December 9, 2009. Growers meeting, Washington State Blueberry Commission, Mount Vernon, WA.

Identification and control of bindweed and similar weed species in berries. December 8, 2009. WSU Western Washington Small Fruit Workshop, Lynden, WA.

About cane burning: what we know and what we need to find out. December 8, 2009. WSU Western Washington Small Fruit Workshop, Lynden, WA.

Weed control vines and berry crops. December 1, 2009. Far West Agribusiness Association Winter Conference, Pasco, WA.

Problems in vineyards panel discussion. September 12, 2009. Western Washington Viticulture Workshop, WSU Mount Vernon NWREC.

Weed management in vineyards. February 21, 2009. Western Washington Viticulture Workshop, WSU Mount Vernon NWREC.

Blueberry weed control. January 27, 2009. Blueberry Section, Oregon Horticulture Society Annual Meeting, Portland, OR.

Weed control research update and perennial weed control strategies. January 15, 2009. North Willamette Horticulture Society, Canby, OR.

Perennial weed control in berries. December 16, 2008. WSU Western Washington Small Fruit Workshop, Lynden, WA.

Weed control research update. January 17, 2008. North Willamette Horticulture Society, Canby, OR.

Canada thistle and bindweed control in red raspberries. December 5, 2007. WSU Western Washington Small Fruit Workshop, Lynden, WA.

Weed control in berries. July 11, 2007. Berry field day, WSU Mount Vernon NWREC.

Weed management in blueberry fields: what works and what doesn't. March 20, 2007. OSU Blueberry Short Course, Corvallis, OR.

Managing weeds in vineyards. January 27, 2007. Viticulture Workshop, WSU Mount Vernon NWREC.

Herbicides and hard-to-control weeds in blueberry fields. January 20, 2007. Blueberry Section, Oregon Horticulture Society Annual Meeting, Portland, OR.

Does alternate year harvesting aid in controlling perennial weeds in raspberry? December 5, 2006. Western Washington Small Fruit Workshop, Lynden, WA.

Blueberry weed control. January 17, 2006. Washington State Blueberry Commission, WSU Puyallup.

Weed control research update: strawberries, raspberries, and blueberries. January 12, 2006. North Willamette Horticulture Society, Wilsonville, OR.

Raspberry weed control. January 9, 2006. Washington State Red Raspberry Commission, Lynden, WA.

Strawberry weed control. November 16, 2005. Washington State Strawberry Commission, WSU Puyallup.

Weed control in blueberries. January 27, 2005. Oregon Horticultural Society, Portland, OR.

Blueberry weed control. January 19, 2005. Washington State Blueberry Commission, WSU Puyallup.

Weed control research in blueberries and strawberries. January 13, 2005. North Willamette Horticulture Society, Portland, OR.

New herbicide performance in small fruit. December 7, 2004. Western Washington Small Fruit Workshop, Lynden, WA.

Strawberry weed control. December 6, 2004. Washington State Strawberry Commission, Lynden, WA.

Weed control research in strawberries. January 15, 2004. North Willamette Horticulture Society, Portland, OR.

Weed control trials in berries. January 8, 2004. Western Washington Horticultural Association, SeaTac, WA.

Performance of new herbicides in small fruit. December 9, 2003. Western Washington Small Fruit Workshop, Lynden, WA.

Strawberry weed control. December 8, 2003. Washington State Strawberry Commission, Lynden, WA.

Weed control research update. January 16, 2003. North Willamette Horticulture Society, Portland, OR.

Cane burning in red raspberries: a three-year study. December 10, 2002. Western Washington Small Fruit Workshop, Lynden, WA.

Integrated weed management for berries. December 10, 2002. Western Washington Small Fruit Workshop, Lynden, WA.

Strawberry weed control. December 9, 2002. Washington State Strawberry Commission, Lynden, WA.

Weed control in small fruit: strawberry, raspberry, and blueberry. November 7, 2002. Washington State Weed Conference, Yakima, WA.

Berry weed control. March 5, 2002. Berry Growers Breakfast, Burlington, WA.

Future options for strawberry weed control. February 8, 2002. 44th Horticultural Growers' Short Course, Abbotsford, B.C., Canada.

Weed control in blueberries. January 31, 2002. Oregon Horticultural Society Annual Meeting, Portland, OR.

Future products for weed and cane management. December 4, 2001. Western Washington Small Fruit Workshop, Lynden, WA.

Berry weed control. June 6, 2001. Berry Growers Breakfast, Lynden, WA.

Weed management in berries: an update. March 22, 2001. Small Fruit Growers Workshop, WSU Vancouver.

Berry weed control. March 6, 2001. Berry Growers Breakfast, Burlington, WA.

Weed control research update: raspberries, blueberries, strawberries. January 11, 2001. North Willamette Horticulture Society, Portland, OR.

Blueberry weed control. January 8, 2001. Washington State Blueberry Commission Research Review, WSU Puyallup.

Strawberry weed control. December 7, 2000. Washington State Strawberry Commission Research Review, WSU Puyallup.

Raspberry weed control and evaluation of long-term effects of weed control/caneburning. December 6, 2000. Washington State Red Raspberry Commission Research Review, Lynden, WA.

Weed management in berries: an update. December 5, 2000. Western Washington Small Fruit Workshop, Lynden, WA.

Berry weed control. October 3, 2000. Berry Growers Breakfast, Burlington, WA.

Perennial weed control in berries. March 17, 2000. Small Fruit Growers Workshop, WSU Vancouver.

Berry weed control. March 7, 2000. Berry Growers Breakfast, Burlington, WA.

Weed control in berry crops. January 13, 2000. North Willamette Horticulture Society, Portland, OR.

Blueberry weed control. January 10, 2000. Washington State Blueberry Commission Research Review, WSU Puyallup.

Perennial weed control in berries. December 10, 1999. Western Washington Small Fruit Workshop, Lynden, WA.

Berry weed control. May 4, 1999. Berry Growers Breakfast, Burlington, WA.

Weed control in strawberries. December 3, 1998. Washington State Strawberry Commission, WSU Puyallup.

Caneburning and strawberry herbicide trials. December 11, 1998. Western Washington Small Fruit Workshop, Bellingham, WA.

Weed management in berry crops. December 11, 1998. Western Washington Small Fruit Workshop, Bellingham, WA.

Weed control in berries. November 3, 1998. Berry Growers Breakfast, Burlington, WA.

Advanced testing of new compounds for caneburning of red raspberry. December 9, 1998. Berry Growers Meeting, Lynden, WA.

tree fruit: (2 presentations)

Orchard floor management. December 16, 2006. Cider Apple Production Workshop, WSU Mount Vernon, WA.

Weed control in tree fruit. December 4, 2003. Apple Growers Breakfast, Burlington, WA.

vegetables: (28 presentations)

Comparing weed issues in Scotland and Western Washington. February 22, 2013. Western Washington Potato Workshop, WSU Mount Vernon NWREC.

2,4-D and weeds in potatoes. February 17, 2012. Western Washington Potato Workshop, WSU Mount Vernon NWREC.

Weed control in potatoes. February 25, 2011. Western Washington Potato Workshop, WSU Mount Vernon NWREC.

Weed management in potatoes. February 19, 2010. Western Washington Potato Workshop, WSU Mount Vernon NWREC.

Improved weed management in field vegetables. January 29, 2010. Horticultural Growers' Short Course, Abbotsford, B.C., Canada.

Weed management in potatoes. January 28, 2010. Horticultural Growers' Short Course, Abbotsford, B.C., Canada.

Weed control in green peas. November 5, 2009. Washington State Weed Conference, Yakima, WA.

Weed management in potatoes. February 20, 2009. Western Washington Potato Workshop, WSU Mount Vernon NWREC.

Organic weed control. February 19, 2008. Simplot Grower Solutions Organic Growers' meeting, Yakima, WA.

Yellow nutsedge management in potatoes. November 1, 2007. WSU Pesticide Recertification Training, Mount Vernon, WA.

Weed management in western Washington vegetable crops. July 24, 2007. Legislative tour, Washington State Commission on Pesticide Registration, WSU Mount Vernon NWREC.

Yellow nutsedge management in potatoes. February 23, 2007. Western Washington Potato Workshop, Mount Vernon, WA.

Weed management in potatoes. February 14, 2007. BC Potato and Vegetable Growers Association Potato Forum, Delta, BC, Canada.

Organic transition rotations for northwestern Washington. December 7, 2006. Center for Sustaining Agriculture and Natural Resources Meeting, WSU Prosser IAREC, WA.

Weed control in vegetables with organic herbicides and flame. November 2, 2006. Washington State Weed Conference, Yakima, WA.

Yellow nutsedge management in potatoes. February 25, 2005. Western Washington Potato Workshop, Mount Vernon.

Cucumber production and weed control. November 18, 2004. Pacific Northwest Vegetable Association Annual Convention, Pasco, WA.

Weed control trials in cole crops, spinach, and others. January 14, 2004. North Willamette Horticulture Society, Portland, OR.

Weed control in green peas. November 19, 2003. Pacific Northwest Vegetable Association Annual Convention, Pasco, WA.

Using cover crops to manage soils, weeds, and pests. November 9, 2003. Panel member, Marci Ostrom, organizer. Tilth Producers Annual Conference, Bellingham, WA.

Organic amendments for weed control: do they work? November 8, 2003. Team-taught with organic grower Glen Johnson. Tilth Producers Annual Conference, Bellingham, WA.

Weed control in cucurbits. November 6, 2003. Washington State Weed Conference, Yakima, WA.

Identification and control of weeds in vegetables. July 26, 2003. Garden Daze Open House, WSU Skagit County Cooperative Extension, Mount Vernon, WA.

Weed control in vegetables. March 29, 2003. 2nd Annual Small Farm Expo, WSU King County Cooperative Extension, Enumclaw, WA.

1999 herbicide studies in potatoes. February 25, 2000. Western Washington Potato Workshop, Mount Vernon.

Potato volunteer control. November 25, 1998. Potato Growers Breakfast, Burlington, WA.

Volunteer potato control--a panel discussion. February 27, 1998. Potato Grower School, Mount Vernon, WA.

Weed research plans for peas. January 7, 1998. Western Washington Horticultural Association, SeaTac, WA.

Weed control in non-cropland, pasture/hay, urban horticulture, nursery, range, forestry, and rights-of-way (often involving the management of noxious weeds): (173 presentations)

Not quite aquatic, not quite terrestrial: managing weeds growing beside the water. December 18, 2013. Washington Turf and Landscape Show, Bellevue, WA.

Management of several noxious weeds. December 10, 2013. City of Portland Parks and Recreation Winter Pesticide License Recertification Class, Portland, OR.

Current status of invasive knotweed management. November 20, 2013. Webinar, University of Alaska Fairbanks Cooperative Extension Service.

Managing noxious weeds in western Washington pastures. November 12, 2013. Master Livestock Advisor Training, WSU Skagit County Extension, Burlington, WA.

Controlling weeds along the river's edge. April 26, 2013. Connect 2013, Oregon Conservation Education and Assistance Network, Grand Ronde, OR.

Organic products and how they work. March 27, 2013. Okanogan County Weed Control meeting, Okanogan, WA.

Integrated management of butterfly bush and other woody perennials. March 21, 2013. Columbia Gorge Invasive Species and Exotic Pest Workshop, Stevenson, WA.

Organic products and how they work. February 20, 2013. Douglas County Weed Control meeting, Wenatchee, WA.

Landscape weed management. February 14, 2013. WSU Pesticide License Recertification Program, WSU Extension, Seattle, WA.

Managing noxious weeds in western Washington pastures. January 26, 2013 (2 sessions). Country Living Expo, WSU Extension, Stanwood, WA.

Organic products for the ornamental setting and how they work. December 19, 2012. Washington Turf and Landscape Show, Bellevue, WA.

Controlling weeds in turf and ornamentals. November 13, 2012. University of Washington grounds maintenance meeting, Seattle, WA.

Organic products for the ornamental setting and how they work. November 8, 2012. Washington State Weed Conference, Yakima, WA..

Biology and Control of Creeping Yellow Cress (*Rorippa sylvestris*). October 30, 2012. Oregon Society of Weed Science Annual Meeting, Hood River, OR.

Managing noxious weeds in western Washington pastures. January 28, 2012 (2 sessions). Country Living Expo, WSU Extension, Stanwood, WA.

Identification of some common weeds in central Washington. January 20, 2012. Columbia Basin Producers Recertification, WSU-Grant/Adams County Extension, Moses Lake, WA.

Reed canarygrass and river systems: what should we do? December 15, 2011. City of Portland Parks and Recreation Winter Pesticide License Recertification Class, Portland, OR.

Reed canarygrass and river systems: what should we do? October 28, 2011. Oregon Vegetation Management Association Annual Conference, Seaside, OR.

IPM for weeds. October 13, 2011. WSU Pesticide License Recertification Program, WSU Extension, WSU Puyallup.

IPM for weeds. October 6, 2011. WSU Pesticide License Recertification Program, WSU Extension, Bellingham, WA.

Not quite aquatic, not quite terrestrial: managing riparian weeds. July 11, 2011. Pacific Northwest Invasive Plant Council's Invasive Plant Management Workshop, Everett, WA.

Studies on the control of Japanese and other knotweeds. June 29, 2011. US Forest Service risk management group, Everett, WA.

Current research on invasive knotweeds. May 31, 2011. Skagit Knotweed Working Group, Sedro-Woolley, WA.

Identification and control of invasive knotweeds (*Polygonum* spp.). November 16, 2010. Oregon Vegetation Management Association Annual Conference, Sunriver, OR.

Treatment of symptomatic knotweeds. December 8, 2010. Skagit Knotweed Working Group, Sedro-Woolley, WA.

Knotweed treatment updates. November 10, 2010. Olympic Knotweed Working Group, Montesano, WA.

Research results on control of yellow archangel, butterfly bush, and yellow flag iris. May 12, 2010. King County Noxious Weed Control Board Training, Kenmore, WA.

Treatment of symptomatic knotweeds. April 28, 2010. Washington Department of Agriculture Knotweed Program, Olympia, WA.

Biology and management of several noxious weeds in park situations. April 22, 2010. City of Portland Parks and Recreation Spring Pesticide License Recertification Class, Portland, OR.

Managing hard-to-control weeds. April 20, 2010. Noxious Weed Management Workshop, Lewis County Noxious Weed Control Board, Chehalis, WA.

Natural herbicides for weed control. March 31, 2010. WSU Pesticide License Recertification Program, WSU Extension, Bellingham, WA.

Natural herbicides for weed control. March 3, 2010. WSU Pesticide License Recertification Program, WSU Extension, Seattle, WA.

Natural herbicides for weed control. February 17, 2010. WSU Pesticide License Recertification Program, WSU Extension, Bremerton, WA.

Natural herbicides for weed control. February 4, 2010. WSU Pesticide License Recertification Program, WSU Extension, Des Moines, WA.

Natural herbicides for weed control. February 1, 2010. WSU Pesticide License Recertification Program, WSU Extension, Lacey, WA.

Natural herbicides for weed control. January 21, 2010. WSU Pesticide License Recertification Program, WSU Extension, Mill Creek, WA.

Natural herbicides for weed control. January 13, 2010. WSU Pesticide License Recertification Program, WSU Extension, Tacoma, WA.

Natural herbicides for weed control. January 6, 2010. WSU Pesticide License Recertification Program, WSU Extension, WSU Vancouver.

Natural herbicides for weed control. December 2, 2009. WSU Pesticide License Recertification Program, WSU Extension, WSU Puyallup.

Reports from the lab: control of yellow archangel (*Lamiastrum galeobdolon*) and meadow knapweed (*Centaurea debeauxii*). November 5, 2009. Washington State Weed Conference, Yakima, WA.

Managing noxious weeds in western Washington pastures. October 7, 2009. Master Livestock Advisor Training, WSU Skagit County Extension, Burlington, WA.

IPM for weeds. June 16, 2009. Bellevue School District, Bellevue, WA.

Current research on invasive knotweeds. June 8, 2009. Olympic Knotweed Working Group, Port Angeles, WA.

Current research on invasive knotweeds. May 8, 2009. Washington Department of Agriculture Knotweed Program, Olympia, WA.

IPM for weeds. April 1, 2009. WSU Pesticide License Recertification Program, WSU Extension, Bellingham, WA.

IPM for weeds. January 14, 2009. WSU Pesticide License Recertification Program, WSU Extension, Tacoma, WA.

Current research on invasive knotweeds. December 4, 2008. Skagit Knotweed Working Group, Sedro-Woolley, WA.

IPM for weeds. December 3, 2008. WSU Pesticide License Recertification Program, WSU Extension, WSU Puyallup.

Managing turf and landscape weeds. December 2, 2008. Washington Turf and Landscape Show, Bellevue, WA.

Current research on invasive knotweeds. November 19, 2008. Olympic Knotweed Working Group, Port Angeles, WA.

Can natural products help with your weed control? October 29, 2008. Seattle Green Gardening Program. Seattle, WA.

Weed management in riparian areas. October 21, 2008. Oregon Society of Weed Science annual meeting, Hood River, OR.

Managing noxious weeds in western Washington pastures. October 15, 2008. Master Livestock Advisor Training, WSU Snohomish County Extension, Everett, WA.

Weed Management Studies in Western Washington Riparian Areas. October 6, 2008. Crop and Soil Sciences Departmental Seminar Series, Pullman, WA.

Current research on invasive knotweeds. May 22, 2008. Skagit Knotweed Working Group, Sedro-Woolley, WA.

Reed canarygrass and river systems: what should we do? May 1, 2008. 6th Annual Kenai Peninsula CWMA Weed Workshop, Soldotna, AK.

Ideas for nonchemical control of reed canarygrass in the Kenai River. April 30, 2008. Kenai Watershed Forum, Soldotna, AK.

Current research on invasive knotweeds. April 15, 2008. Washington Department of Agriculture Knotweed Program, Olympia, WA.

IPM for weeds. March 26, 2008. WSU Pesticide License Recertification Program, WSU Extension, Bellingham, WA.

Research update on the effectiveness of new and old herbicides for noxious weed control. March 20, 2008. Washington State Weed Coordinators Association annual meeting, Wenatchee, WA.

IPM for weeds. January 28, 2008. WSU Pesticide License Recertification Program, WSU Extension, Lacey, WA.

IPM for weeds. January 24, 2008. WSU Pesticide License Recertification Program, WSU Extension, WSU Puyallup.

Managing noxious weeds in western Washington pastures. January 19, 2008. Country Living Expo and Cattlemen's Winterschool, WSU Extension, WSU Livestock Master Foundation, and the Cattleman's Association, Stanwood, WA.

IPM for weeds. January 17, 2008. WSU Pesticide License Recertification Program, WSU Extension, Mill Creek, WA.

IPM for weeds. January 3, 2008. WSU Pesticide License Recertification Program, WSU Extension, WSU Vancouver.

Northwest weed identification and control. December 5, 2007. Washington Turf and Landscape Show, Bellevue, WA.

Strategies for controlling weed species of concern. November 15, 2007. Alaska Committee for Noxious and Invasive Plants Management Conference, Fairbanks, AK.

Do weeds in northwestern Washington have anything to say to Alaskans? November 14, 2007. Alaska Committee for Noxious and Invasive Plants Management Conference, Fairbanks, AK.

Lies, damn lies, and statistics: how weed managers generate and interpret data. November 8, 2007. Washington State Weed Conference, Yakima, WA.

What can we do to control butterfly bush and other woody perennials? November 8, 2007. Washington State Weed Conference, Yakima, WA.

Vinegar and other natural herbicides: do they work? November 1, 2007. WSU Pesticide Recertification Training, Mount Vernon, WA.

Organic herbicides and how they work. October 25, 2007. Advanced Master Gardener training, WSU Mount Vernon NWREC.

Weed management and herbicide issues on US Forest Service lands in the Pacific Northwest. September 12, 2007. Field tour, USFS Pesticide Coordinators, Portland, OR.

Weed control in landscapes and effects of organic herbicides. July 19, 2007. Seattle Green Gardening Program. Seattle, WA.

Weed control in turf. May 9, 2007. Imagine U @ WSU Day, Mount Vernon High School, Mount Vernon, WA.

IPM for weeds. March 28, 2007. WSU Pesticide License Recertification Program, WSU Extension, Bellingham, WA.

Managing noxious weeds in western Washington pastures. February 21, 2007. Master Livestock Advisor Training, WSU Snohomish County Extension, Everett, WA.

IPM for weeds. February 1, 2007. WSU Pesticide License Recertification Program, WSU Extension, Des Moines, WA.

Biology and control of yellow flag iris. January 24, 2007. Grant County Noxious Weed Conference, Moses Lake, WA.

How to deflate puncturevine populations. January 24, 2007. Grant County Noxious Weed Conference, Moses Lake, WA.

IPM for weeds. January 18, 2007. WSU Pesticide License Recertification Program, WSU Extension, Mill Creek, WA.

General weed control strategies in landscape beds. December 6, 2006. Washington Turf and Landscape Show, Bellevue, WA.

Current research on invasive knotweeds. November 17, 2006. Olympic Knotweed Working Group, Port Angeles, WA.

Integrated weed management. October 20, 2006. Pesticide Recertification Training, WSU Cooperative Extension, Poulsbo, WA.

Integrated weed management. October 11, 2006. Pesticide Recertification Training, WSU Cooperative Extension, Bellingham, WA.

Controlling poisonous weeds in western Washington pastures. October 4, 2006. Master Livestock Advisors Training, WSU Skagit County Extension, Mount Vernon, WA.

Organic herbicides and other natural weed control products: do they work? September 7, 2006. WSU Master Gardener Conference, Seattle, WA.

Current research on invasive knotweeds. April 28, 2006. Southwestern WA Knotweed Working Group, Chehalis, WA.

Results of herbicide trials in berry and ornamental crops. April 20, 2006. City of Portland Parks and Recreation Spring Pesticide License Recertification Class, Portland, OR.

Integrated weed management. March 1, 2006. Pesticide Recertification Training, WSU Extension, Seattle, WA.

Controlling poisonous weeds in western Washington pastures. January 25, 2006. Master Livestock Advisors Training, WSU Skagit County Extension, Mount Vernon, WA.

Current research on invasive knotweeds. December 13, 2005. Skagit Knotweed Working Group, Mount Vernon, WA.

Integrated weed management. November 17, 2005. Pesticide Recertification Training, WSU Extension, Mill Creek, WA.

Integrated weed management. October 27, 2005. Pesticide Recertification Training, WSU Extension, WSU Vancouver.

Current research on invasive knotweeds. October 24, 2005. Olympic Knotweed Working Group, Port Angeles, WA.

Current research on invasive knotweeds. May 23, 2005. Skagit Knotweed Working Group, Mount Vernon, WA.

The management of noxious and invasive weed species in wetlands. May 19, 2005. National Wetlands Team Training, Natural Resources Conservation Service, Bow, WA.

Control of indigobush. May 5, 2005. Natural Resources Conservation Service, Pomeroy, WA.

Controlling poisonous weeds in western Washington pastures. April 13, 2005. Master Livestock Advisors Training, WSU Skagit County Extension, WSU Mount Vernon.

Integrated weed management. March 30, 2005. Pesticide Recertification Training, WSU Extension, Bellingham, WA.

The management of several invasive weeds in Alaska. March 21, 2005. Alaska Pesticide Applicators Conference, Anchorage, AK.

Current research on controlling noxious weeds in western Washington. March 17, 2005. Washington State Weed Coordinators Association Annual Meeting, Chelan, WA.

The noxious weed listing process. March 17, 2005. Washington State Weed Coordinators Association Annual Meeting, Chelan, WA.

Taming those wild weeds. February 17, 2005. Skagit Farmers Supply Growers meeting, Mount Vernon, WA.

Integrated weed management. January 20, 2005. Pesticide Recertification Training, WSU Extension, Mill Creek, WA.

Susceptibility of knotweed (*Polygonum* spp.) to various herbicides. November 10, 2004. Knotweed Symposium, Everett, WA.

Identification and control of knotweed (*Polygonum* spp.). October 21, 2004. Oregon Vegetation Management Association Annual Conference, Pendleton, OR.

Identification and management of Japanese knotweed (*Polygonum cuspidatum*). April 29, 2004. Special Training, Inland Empire Weed Management Area, Coeur d'Alene, ID.

The management of several noxious weeds in western Washington. April 6, 2004. Recertification Meeting, Grays Harbor and Lewis County Noxious Weed Control Boards, Rochester, WA.

Controlling roadside weeds. March 17, 2004. Western Washington Applicator's Association Annual Meeting, Tacoma, WA.

How to control the toughest roadside weeds. March 17, 2004. Spring Roadside Training, Washington State Department of Transportation, Tacoma, WA.

Organic amendments for weed control. February 25, 2004. Organic Agriculture Principles and Practices: Workshops for PNW Ag Professionals, Wilsonville, OR.

Identification and management of Japanese knotweed (*Polygonum cuspidatum*). February 5, 2004. Idaho Weed Control Association, Nampa, ID.

Integrated plant health management. January 27, 2004. Pesticide Recertification Training, WSU Cooperative Extension, WSU Puyallup.

Weed it and they will still come--weed management for your landscape. December 3, 2003. Washington Turf and Landscape Show, Bellevue, WA.

Controlling noxious weeds in Northwest Washington. November 4, 2003. Pesticide Recertification Training, WSU Cooperative Extension, Mount Vernon, WA.

Alternative herbicides. October 22, 2003. Oregon Society of Weed Science Annual Meeting, Hood River, OR.

Herbicides for weed control in Christmas trees. September 25, 2003. Christmas Tree Workshop, WSU Puyallup.

Weed control options. May 29, 2003. Noxious Weed Training, King County Noxious Weed Control Board and Seattle Parks, Seattle, WA.

Vinegar and other natural weed control products: do they work? April 8, 2003. Recertification Meeting, Grays Harbor and Lewis County Noxious Weed Control Boards, Rochester, WA.

Control of Kittitas County Noxious Weeds. February 19, 2003. WSU--Kittitas County Cooperative Extension and Noxious Weed Control Board Training, Ellensburg, WA.

Integrated plant health management. January 28, 2003. Pesticide Recertification Training, WSU Cooperative Extension, WSU Puyallup.

Integrated weed management. January 8, 2003. Pesticide Recertification Training, WSU Cooperative Extension, WSU Vancouver.

Vinegar and other natural weed control products--do they work? December 5, 2002. City of Portland Parks and Recreation Winter Pesticide License Recertification Class, Portland, OR.

Weed management principles for your landscape. December 3, 2002. Washington Turf and Landscape Show, Bellevue, WA.

Organic amendments for weed control--do they work? November 7, 2002. Washington State Weed Conference, Yakima, WA.

Herbicides for weed control in Christmas trees. October 3, 2002. Christmas Tree Workshop, WSU Puyallup.

Managing reed canarygrass (*Phalaris arundinacea*) to aid in re-vegetation of riparian buffers. April 1, 2002. Crop and Soil Sciences Departmental Seminar Series, Pullman, WA.

Managing Japanese and giant knotweed (*Polygonum cuspidatum* and *P. sachalinense*). March 21, 2002. Washington State Weed Coordinators Association, Wenatchee, WA.

Integrated weed management. March 6, 2002. Pesticide Recertification Training, WSU Cooperative Extension, Seattle, WA.

Managing knotweed: a noxious weed threat to streamsides and uplands. February 27, 2002. Lewis County Noxious Weed Control Board Training, Chehalis, WA.

Managing Japanese and giant knotweed (*Polygonum cuspidatum* and *P. sachalinense*). February 27, 2002. Grays Harbor County Noxious Weed Control Board Training, Elma, WA.

Managing common tansy, houndstongue, and kochia. February 26, 2002. WSU--Kittitas County Cooperative Extension and Noxious Weed Control Board Training, Ellensburg, WA.

Integrated weed management. February 20, 2002. Pesticide Recertification Training, WSU Cooperative Extension, Port Orchard, WA.

Integrated weed management. February 7, 2002. Pesticide Recertification Training, WSU Cooperative Extension, Des Moines, WA.

Integrated plant health management. January 29, 2002. Pesticide Recertification Training, WSU Cooperative Extension, WSU Puyallup.

So...you want to be a weed scientist? November 7, 2001. Washington State Weed Conference, Yakima, WA.

Integrated plant health management. October 17, 2001. Pesticide Recertification Training, WSU Cooperative Extension, Seattle, WA.

Integrated weed management. March 27, 2001. Pesticide Recertification Training, WSU Cooperative Extension, Bellingham, WA.

Managing reed canarygrass in riparian buffer zones. March 8, 2001. Lewis County Noxious Weed Control Board Training, Chehalis, WA.

Managing reed canarygrass in riparian buffer zones. March 8, 2001. Grays Harbor County Noxious Weed Control Board Training, Elma, WA.

Management of problem pasture and range weeds. February 23, 2001. Grant County Noxious Weed Control Board Training, George, WA.

Integrated weed management. February 7, 2001. Pesticide Recertification Training, WSU Cooperative Extension, Kirkland, WA.

Control of musk thistle, whitetop, and other problem weeds. February 6, 2001. WSU--Kittitas County Cooperative Extension and Noxious Weed Control Board Training, Ellensburg, WA.

Integrated plant health management. January 23, 2001. Pesticide Recertification Training, WSU Cooperative Extension, WSU Puyallup.

Integrated weed management. January 18, 2001. Pesticide Recertification Training, WSU Cooperative Extension, Lynnwood, WA.

Managing reed canarygrass in riparian buffer zones. January 17, 2001. Pacific Northwest Farm Forum, Spokane, WA.

Integrated weed management. January 10, 2001. Pesticide Recertification Training, WSU Cooperative Extension, Tacoma, WA.

Integrated weed management. November 13, 2000. Pesticide Recertification Training, WSU Cooperative Extension, Lynnwood, WA.

Roadside vegetation control. October 17, 2000. Island county road maintenance training, Coupeville, WA.

Total vegetation control in industrial settings. September 27, 2000. Seattle City Light maintenance training, Seattle, WA.

Weed control in pastures. July 8, 2000. Grazier's Conference, WSU Cooperative Extension, La Conner, WA.

Backyard weed control. June 1, 2000. Skagit Men's Garden Club, WSU Mount Vernon, WA.

Identification and control of hawkweeds. March 22, 2000. Washington State Weed Coordinators Association, Leavenworth, WA.

Pasture/rangeland weed management. March 3, 2000. WSU--Kittitas County Cooperative Extension and Noxious Weed Control Board Training, Ellensburg, WA.

Identification and control of knapweeds. March 3, 2000. WSU--Kittitas County Cooperative Extension and Noxious Weed Control Board Training, Ellensburg, WA.

The ten most wanted weeds and how to control them. February 19, 2000. Cattlemen's Winterschool, Mount Vernon, WA.

Keeping weeds under control. January 27, 2000. Pesticide Recertification Training, WSU Cooperative Extension, Port Orchard, WA.

Integrated plant health management. January 25, 2000. Pesticide Recertification Training, WSU Cooperative Extension, WSU Puyallup.

Weeds of the west side: hogweed and hawkweeds. November 4, 1999. Washington State Weed Conference, Yakima, WA.

Weed management in landscapes. October 26, 1999. City of Seattle Pesticide Recertification Training, Seattle, WA.

Weed identification and management. September 24, 1999. Pesticide Recertification Training, WSU Cooperative Extension, Bellingham, WA.

Weed management in landscapes. August 26, 1999. Western Washington University, Bellingham, WA.

Principles of backyard weed control. June 5, 1999. Sequim, WA.

Elementary weed control. May 25, 1999. Discovery Garden, WSU Mount Vernon, WA.

Weed management in landscapes. March 4, 1999. Pesticide Recertification Training, WSU Cooperative Extension, Seattle, WA.

Weed management in landscapes. February 27, 1999. Interstate Professional Applicators Association, WSU Puyallup.

Weed management in landscapes. February 1, 1999. Pesticide Recertification Training, WSU Cooperative Extension, Olympia, WA.

Weed management in landscapes. January 13, 1999. Pesticide Recertification Training, WSU Cooperative Extension, Tacoma, WA.

Principles of weed identification and control. April 23, 1998. Master Gardening Training, Sequim, WA.

Principles of noxious weed control. April 22, 1998. Noxious Weed Workshop, Port Angeles, WA.

Management of diffuse knapweed and yellow starthistle. March 3, 1998. Pesticide Recertification Workshop, Ellensburg, WA.

Control of perennial weeds in landscapes. February 20, 1998. Pesticide Recertification Training, WSU Cooperative Extension, Bellingham, WA.

Weed identification: (142 presentations)

New invading weeds of the West and Early Detection/Rapid Response. April 17, 2013 (with Dr. George Beck, CSU). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Key weeds of the West. April 16, 2013 (with Dr. George Beck, CSU). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Identification of Colorado weeds. April 15, 2013. Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Identification of western Washington weeds. February 13, 2013. WSU Pesticide License Recertification Program, WSU Extension, Seattle, WA.

Weeds to know in Christmas trees and woodlands. January 22, 2013. Wilbur-Ellis Grower Meeting, Auburn, WA.

New invading weeds of the West and Early Detection/Rapid Response. April 18, 2012 (with Dr. George Beck, CSU). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Key weeds of the West. April 17, 2012 (with Dr. George Beck, CSU). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Identification of Colorado weeds. April 16, 2012. Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Aliens in your backyard: identification of some common weeds. November 21, 2011 (three classes). Imagine U@WSU, Federal Way High School, Federal Way, WA.

Identification of western Washington weeds. October 19, 2011. Small Farm and Ranch Training Program, WSU Skagit County Extension, WSU Mount Vernon NWREC.

Identification of western Washington weeds. October 13, 2011. WSU Pesticide License Recertification Program, WSU Extension, WSU Puyallup.

Identification of western Washington weeds. October 6, 2011. WSU Pesticide License Recertification Program, WSU Extension, Bellingham, WA.

Invasive plant species of the Western US. July 6, 2011. North American Invasive Plant Ecology and Management Short Course, North Platte, NE.

New invading weeds of the West and Early Detection/Rapid Response. April 21, 2011 (2 presentations with Dr. George Beck, CSU). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Key weeds of the West. April 20, 2011 (2 presentations with Dr. George Beck, CSU). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Identification of Colorado weeds. April 18, 2011. Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Know your weeds. March 19, 2011. Island County Master Gardener Foundation training, Coupeville, WA.

Aliens in your backyard: identification of some common weeds. March 17, 2011 (four classes). Imagine U@WSU, Port Townsend High School, Port Townsend, WA.

Aliens in your backyard: identification of some common weeds. March 16, 2011 (three classes). Imagine U@WSU, Port Angeles High School, Port Angeles, WA.

Identification of weeds of bulb crops. May 11, 2011. Bulb Field Day, WSU Puyallup.

Identification of Washington weeds. May 4, 2011. Research that works for you webinar, WSU Professional Development, originating at WSU Mount Vernon NWREC.

Aliens in your backyard: identification of some common weeds. March 14, 2011 (three classes). Imagine U@WSU, Rogers High School, Puyallup, WA.

Weeds to know in Skagit Valley crops. February 16, 2011. Skagit Farmers Supply growers meeting, Mount Vernon, WA.

Reed canarygrass identification and control. November 19, 2010. Okanogan County Noxious Weed Conference, Okanogan County Noxious Weed Control Board, Okanogan, WA.

Identification of western Washington weeds. October 28, 2010. WSU Pesticide License Recertification Program, WSU Extension, Chehalis, WA.

Identification and management of weeds in western Washington. October 13, 2010. Center for Urban Horticulture Continuing Education Series, University of Washington, Seattle, WA.

Weed Science in the Middle East: Training Iraqi Extension Personnel. August 4, 2010. WSU Mount Vernon NWREC Brown Bag Seminar Series, WSU Mount Vernon NWREC.

Fun with weed identification. July 7, 2010. 1st to 6th graders in Western Washington University Summer Education Program, Bellingham, WA.

Weed identification and management techniques. June 18, 2010. Session 3: Pre-harvest, IPM for Blueberry and Raspberry Production, Whatcom County Extension, Ferndale, WA.

Weed identification and management techniques. May 7, 2010. Session 2: Bloom, IPM for Blueberry and Raspberry Production, Whatcom County Extension, Ferndale, WA.

Identification and management of selected noxious weeds. May 5, 2010. King County Noxious Weed Control Board Training, Kent, WA.

Weed identification and management techniques. April 2, 2010. Session 1: Pre-bloom, IPM for Blueberry and Raspberry Production, Whatcom County Extension, Ferndale, WA.

Weed identification and control. December 2, 2009. IPM for Spanish-speaking landscape workers, Bellevue, WA.

Aliens in your backyard: identification of some common weeds. November 24, 2009 (three classes). Imagine U@WSU, Bremerton High School, Bremerton, WA.

Aliens in your backyard: identification of some common weeds. November 23, 2009 (three classes). Imagine U@WSU, Spanaway Lake High School, Spanaway, WA.

How to manage pigweeds and common lambsquarters. November 5, 2009. Washington State Weed Conference, Yakima, WA.

Grass ID workshop. June 23 2009. Washington State Noxious Weed Control Board, WSU Puyallup.

Grass ID workshop. June 18, 2009. Washington State Noxious Weed Control Board, George, WA.

Weed identification and control. February 26, 2009. Master Gardener Training, Everett, WA.

Weed identification and control. February 24, 2009. Master Gardener Training, Burlington, WA.

Weed identification and control. February 5, 2009. Master Gardener Training, Friday Harbor, WA.

Weed identification and control. January 30, 2009. Master Gardener Training, WSU Puyallup.

Weed identification and control. January 20, 2009. Master Gardener Training, Seattle, WA.

Getting smart on smartweeds. January 6, 2009. Growers meeting, Dayton, WA.

Getting smart on smartweeds. November 6, 2008. Washington State Weed Conference, Yakima, WA.

Weed identification and control. October 16, 2008. IPM for Spanish-speaking landscape workers, Seattle, WA.

Identification and management of several noxious weeds in King County. May 14, 2008. King County Noxious Weed Control Board Training, Kent, WA.

Identification and management of several noxious weeds in King County. May 7, 2008. King County Noxious Weed Control Board Training, Kenmore, WA.

Identification of several weed species of concern in landscapes. April 24, 2008. City of Portland Parks and Recreation Spring Pesticide License Recertification Class, Portland, OR.

Identification and management of several noxious weeds in northern Puget Sound. April 7, 2008. WSU Beach Watchers training, Bayview, WA.

Plant taxonomy. March 25, 2008. Master Gardener Training, Bellingham, WA.

Weed identification and control. February 14, 2008. Master Gardener Training, WSU Mount Vernon.

Weed identification and control. February 12, 2008. Master Gardener Training, Coupeville, WA.

Weed identification and control. February 2, 2008. Master Gardener Training, Seattle, WA.

Weed identification and control. January 18, 2008. Master Gardener Training, WSU Puyallup.

Garden weed identification. October 23, 2007. Samish Island Garden Club meeting, Samish Island, WA.

Western Washington Weed ID workshop. June 7, 2007. Washington State Noxious Weed Control Board, WSU Puyallup.

Eastern Washington Weed ID workshop. June 6, 2007. Washington State Noxious Weed Control Board, Ephrata, WA.

Weed identification and control. February 13, 2007. Master Gardener Training, WSU Mount Vernon NWREC.

Weed identification and control. January 30, 2007. Master Gardener Training, Seattle, WA.

Weed identification and control. January 29, 2007. Master Gardener Training, Friday Harbor, WA.

Weed identification and control. January 25, 2007. Master Gardener Training, Everett, WA.

Weed identification and control. January 19, 2007. Master Gardener Training, WSU Puyallup.

Identification and management of several noxious weeds in northern Puget Sound. October 26, 2006. WSU Beach Watchers training, Anacortes, WA.

Weed identification. October 20, 2006. Pesticide Recertification Training, WSU Cooperative Extension, Poulsbo, WA.

Weed identification. October 11, 2006. Pesticide Recertification Training, WSU Cooperative Extension, Bellingham, WA.

Advanced weed identification. September 7, 2006. WSU Master Gardener Conference, Seattle, WA.

Weed identification and control. May 23, 2006. Advanced Master Gardener Training, WSU Mount Vernon.

Weed identification and control. February 21, 2006. Master Gardener Training, WSU Mount Vernon.

Weed identification and control. February 21, 2006. Master Gardener Training, Coupeville, WA.

Weed identification and control. January 26, 2006. Master Gardener Training, Everett, WA.

Weed identification and control. January 24, 2006. Master Gardener Training, Seattle, WA.

Weed identification and control. January 20, 2006. Master Gardener Training, WSU Puyallup.

Identification and management of several noxious weeds in northern Puget Sound. October 13, 2005.

WSU Beach Watchers training, Anacortes, WA.

Weed identification. October 27, 2005. Pesticide Recertification Training, WSU Extension, WSU Vancouver.

Weed identification and control. February 4, 2005. Master Gardener Training, WSU Puyallup.

Weed identification and control. February 3, 2005. Master Gardener Training, Anacortes, WA.

Weed identification and control. January 27, 2005. Master Gardener Training, Everett, WA.

Identification of weeds in Christmas trees. January 20, 2005. Wilbur-Ellis Grower Meeting, Tacoma, WA.

Weed identification and control. January 18, 2005. Master Gardener Training, Seattle, WA.

Plant family characters and techniques for keying plants. December 15, 2004. Northwestern Region of Washington State Parks, Burlington, WA.

Plant family characters and techniques for keying plants. December 1, 2004. Southwestern and Puget Sound Regions of Washington State Parks, Auburn, WA.

Weed identification and integrated management. February 4, 2004. Pesticide Recertification Training, WSU Cooperative Extension, Kirkland, WA.

Weed identification and control. February 3, 2004. Master Gardener Training, Seattle, WA.

Weed identification and control. January 29, 2004. Master Gardener Training, Everett, WA.

Weed identification. January 27, 2004. Pesticide Recertification Training, WSU Cooperative Extension, WSU Puyallup.

Poisonous weeds of Northwest pastures. November 12, 2003. Mount Vernon Veterinary Hospital "Learn at the Lincoln" Series. Mount Vernon, WA.

Weed identification and management. October 29, 2003. ProHort Class, UW/CUH, Seattle, WA.

Identification of weeds in Christmas trees. September 25, 2003. Christmas Tree Workshop, WSU Puyallup.

Weed identification and integrated management. February 5, 2003. Pesticide Recertification Training, WSU Cooperative Extension, Kirkland, WA.

Weed identification and control. February 4, 2003. Master Gardener Training, Seattle, WA.

Weed identification and control. January 31, 2003. Master Gardener Training, WSU Puyallup.

Weed identification and control. January 30, 2003. Master Gardener Training, Anacortes, WA.

Weed identification. January 28, 2003. Pesticide Recertification Training, WSU Cooperative Extension, WSU Puyallup.

Weed identification and control. January 23, 2003. Master Gardener Training, Everett, WA.

Identifying weeds in hay. October 23, 2002. WSU King County Cooperative Extension, Renton, WA.

Getting weed identifications: what to do and what not to do. October 16, 2002 (two sessions). WSU Extension Conference, Pullman, WA.

Identification of weeds in Christmas trees. October 3, 2002. Christmas Tree Workshop, WSU Puyallup.

Identification and control of backyard weeds. May 14, 2002. Advanced Master Gardener Training, WSU Mount Vernon.

Plant family characters and techniques for keying plants. July 26, 2001. Noxious Weed Workshop, Port Angeles, WA.

Fun with weed identification. June 13, 2001. 3rd graders in Little Mountain Elementary School, Mount Vernon, WA.

Genetics in modern agriculture. May 23, 2001. 3rd-6th graders in Sedro Woolley Elementary Gifted and Talented Program, WSU Mount Vernon.

Weed identification and control. March 7, 2001. Fir-Conway Garden Club, Conway, WA.

Identification and control of some noxious weeds. February 15, 2001. Skagit Farmer's Supply Growers Meeting, Mount Vernon, WA.

Weed identification and control. February 1, 2001. Master Gardener Training, Anacortes, WA.

Weed identification and control. January 26, 2001. Master Gardener Training, WSU Puyallup.

Weed identification and control. January 25, 2001. Master Gardener Training, Everett, WA.

Weed identification and control. January 16, 2001. Master Gardener Training, Seattle, WA.

Identification of several grassy weeds. October 24, 2000. Oregon Society of Weed Science, Hood River, OR.

Weed identification and control. July 7, 2000. Grazier's Conference, WSU Cooperative Extension, Sedro Woolley, WA.

Fun with weed identification. June 9, 2000. 3rd graders in Little Mountain Elementary School, Mount Vernon, WA.

Weed identification and control. February 17, 2000. Master Gardener Training, Everett, WA.

Weed identification and control. February 15, 2000. Master Gardener Training, Anacortes, WA.

Identification of cruciferous weeds. January 21, 2000. Moses Lake Crop Consultants, Moses Lake, WA.

Weed identification and control. January 14, 2000. Master Gardener Training, WSU Puyallup.

Weed identification and control. January 11, 2000. Master Gardener Training, Seattle, WA.

Your backyard weeds. May 15 and 16, 1999. Garden Tour, WSU Mount Vernon.

Weed identification and control. February 26, 1999. Advanced Master Gardener Training, Bellingham, WA.

Weed identification and control. February 18, 1999. Master Gardener Training, Anacortes, WA.

Weed identification and control. February 16, 1999. Master Gardener Training, Everett, WA.

Weed identification and control. January 22, 1999. Master Gardener Training, WSU Puyallup.

Weed identification and control. January 19, 1999. Master Gardener Training, Seattle, WA.

Identification of common weed seedlings. July 21, 1998. Master Gardener Training, Mount Vernon, WA.

Principles of weed identification. July 8, 1998. Weed Science Workshop, Walla Walla, WA.

Weed identification and control. February 19, 1998. Master Gardener Training, Anacortes, WA.

Weed physiology, biology, and ecology: (35 presentations)

Knotweed treatment update: the swimming pool studies. November 14, 2013. Olympic Knotweed Working Group, Port Townsend, WA.

Knotweed treatment update: the swimming pool studies. November 13, 2013. Puget Sound Knotweed Forum, King County Noxious Weed Control, Woodinville, WA.

Sustainable weed management. October 30, 2013. Small Farm and Ranch Training Program, WSU Skagit County Extension, WSU Mount Vernon NWREC.

Sustainable weed management. August 29, 2013. Intern Education Program, Cloud Mountain Farm, Everson, WA.

Invasion ecology. April 18, 2013. Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Sustainable weed management. March 26, 2013. Cultivating Success Small Farm and Ranch Training Program, WSU Okanogan County Extension, Twisp, WA.

Sustainable weed management. February 26, 2013. Utah State University Organic Growers Workshop, Westminster College, Salt Lake City, UT.

Sustainable weed management. January 23, 2013. Northwest Washington Sustainable Agriculture Conference, WSU Whatcom County Extension, Lynden, WA.

WSU weed management trials: the latest. November 1, 2012. Private Applicator Shortcourse, WSU Extension, WSU Mount Vernon NWREC.

Knotweed treatment update: the swimming pool studies. December 1, 2011. Skagit Knotweed Working Group, Sedro-Woolley, WA.

Knotweed treatment update: the swimming pool studies. November 16, 2011. Olympic Knotweed Working Group, Port Hadlock, WA.

Sustainable weed management. October 19, 2011. Small Farm and Ranch Training Program, WSU Skagit County Extension, WSU Mount Vernon NWREC.

Understanding weed biology for better weed control. October 10, 2010. Equipment for Small Farmers: Field Workshop, Whatcom County Extension, Ferndale, WA.

Sustainable weed management (with grad student Callie Bolton). September 29, 2010. Small Farm and Ranch Training Program, WSU Skagit County Extension, WSU Mount Vernon NWREC.

The herbicide registration process: what data are required before we can use the product? April 30, 2010. Kenai Peninsula Cooperative Weed Management Area Weed Workshop, Homer, AK.

Studies on the biology and control of Japanese and other knotweeds. October 27, 2009. Alaska Committee for Noxious and Invasive Plant Management Conference, Ketchikan, AK.

Sustainable weed management. September 23, 2009. WSU Skagit County Cultivating Success for Spanish-speaking Growers, WSU Mount Vernon NWREC.

Biology and control of yellow flag iris, butterflybush, and yellow archangel. October 22, 2009. Oregon Vegetation Management Association Annual Conference, Seaside, OR.

Sustainable weed management. January 21, 2009. WSU Jefferson County Cultivating Success Series, Port Hadlock, WA.

What's the rush? Why flowering rush is causing concern. September 30, 2008. Washington State Lake Protection Association, Arlington, WA.

Sustainable weed management. September 10, 2008. WSU Skagit County Cultivating Success Series, WSU Mount Vernon NWREC.

Weed impact assessment in Washington state. January 22, 2008. Invasive Plant Council of BC, Richmond, BC, Canada.

Sustainable weed management. December 12, 2007. WSU Skagit County Cultivating Success Series, WSU Mount Vernon NWREC.

Sustainable weed management. November 21, 2006. WSU Skagit County Cultivating Success Series, WSU Mount Vernon.

Sustainable weed management. November 15, 2006. WSU Snohomish County Sustainable Agriculture Series, Everett, WA.

Biology and control of yellow flag iris. September 26, 2006. Oregon Vegetation Management Association Annual Conference, Pendleton, OR.

Studies on the biology and control of Japanese and other knotweeds. November 14, 2005. Crop and Soil Sciences Departmental Seminar Series, Pullman, WA.

Ecological communities. May 7, 2002. 5th graders in Little Mountain Elementary School, Mount Vernon, WA.

Toxic plants. February 6, 2001. WSU--Kittitas County Cooperative Extension and Noxious Weed Control Board Training, Ellensburg, WA.

Local plant toxicity. October 18, 2000. Mount Vernon Veterinary Hospital lecture series, Mount Vernon, WA.

West side broadleaf weed control. November 4, 1999. Washington State Weed Conference, Yakima, WA.

Purple loosestrife reproduction: when is a seed a sterile seed? March 17, 1999. Washington State Weed Coordinators Association, Leavenworth, WA.

Preventing species shifts. February 27, 1999. Interstate Professional Applicators Association, Puyallup, WA.

Fall weed control. September 9, 1998. Farm and Garden Workshops, Centraillia, WA.

Perennial weed biology, physiology, and control. March 25, 1998. Weed Management in Western Washington Workshop, Elma, WA.

Herbicide/adjuvant technology: (78 presentations)

Glyphosate and resistance: should you be concerned? December 4, 2013. Pesticide Recertification Training, WSU Extension, WSU Puyallup.

Effective herbicide applications in grapes: understanding Roundup resistance and when to apply. November 15, 2013. Washington Grape Society Annual Meeting, Grandview, WA.

Water quality matters: choosing the right herbicide and surfactant. May 30, 2013. Olympic Knotweed Working Group, Shelton, WA.

Herbicides and environmental concerns. April 17, 2013 (2 presentations). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Glyphosate resistance: how to limit the spread of glyphosate resistant weeds. February 7, 2013. Skagit Farmers Supply, Greenhouse, Nursery, and Landscaper Recertification Meeting, Mount Vernon, WA.

Glyphosate and resistance: should you be concerned? November 1, 2012. Private Applicator Shortcourse, WSU Extension, WSU Mount Vernon NWREC.

Glyphosate and resistance: understanding the concepts behind how herbicide resistance develops. April 23, 2012. Olympic Knotweed Working Group, Silverdale, WA.

Herbicides and environmental concerns. April 18, 2012 (2 presentations). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Toxicity of aquatic herbicides. April 12, 2012. Skagit Knotweed Working Group, Sedro-Woolley, WA.

Applied herbicide mode of action. April 10, 2012. Washington State Department of Transportation regional training, Wenatchee, WA.

Glyphosate and resistance: understanding the concepts behind how herbicide resistance develops. March 29, 2012. Columbia Gorge Invasive Species and Exotic Pest Workshop, WSU Skamania County, Stevenson, WA.

Glyphosate and resistance: understanding the concepts behind how herbicide resistance develops. March 16, 2012. Washington State Weed Coordinators Conference, Chelan, WA.

Glyphosate stewardship: keeping an effective herbicide effective. February 16, 2012. Understanding and Preventing Glyphosate Resistance Workshop, Wenatchee, WA.

Herbicide resistance: comparison of glyphosate resistance to other cases of resistance. February 15, 2012. Understanding and Preventing Glyphosate Resistance Workshop, WSU Prosser IAREC.

Glyphosate stewardship: keeping an effective herbicide effective. February 15, 2012. Understanding and Preventing Glyphosate Resistance Workshop, WSU Prosser IAREC.

Glyphosate stewardship: keeping an effective herbicide effective. February 3, 2012. Understanding and Preventing Glyphosate Resistance Workshop, Napa, CA.

Glyphosate stewardship: keeping an effective herbicide effective. January 30, 2012. Understanding and Preventing Glyphosate Resistance Workshop, McMinnville, OR.

Glyphosate stewardship: keeping an effective herbicide effective. December 16, 2011. Understanding and Preventing Glyphosate Resistance Workshop, Yuba City, CA.

Toxicity of aquatic herbicides. November 2, 2011 (2 sessions). Washington State Weed Conference, Yakima, WA.

Herbicide movement and toxicity. June 30, 2011. Weed Management Training, Mount Rainier National Park, WA.

Herbicides and the environment: understanding toxicity. May 19, 2011. Olympic Knotweed Working Group, Shelton, WA.

Herbicides 101: getting to know products used for noxious weed control. May 18, 2011. King County Noxious Weed Management Workshop, Preston, WA.

Herbicides and environmental concerns. April 19, 2011 (2 presentations). Western Society of Weed Science Noxious Weed Short Course, Loveland, CO.

Herbicide mode of action. March 30, 2011. Washington State Department of Transportation regional training, Bellingham, WA.

Herbicide mode of action. March 23, 2011. Washington State Department of Transportation regional training, Chehalis, WA.

Herbicide mode of action. March 22, 2011. Washington State Department of Transportation regional training, Shelton, WA.

Herbicides and environmental concerns. March 17, 2011. Washington State Noxious Weed Coordinators Conference, Chelan, WA.

Herbicide mode of action. March 15, 2011. Washington State Department of Transportation regional training, Kent, WA.

Aminopyralid in compost: what to do. March 2, 2011 (2 presentations). Whatcom County Extension informational meetings, Bellingham, WA.

Herbicide metabolism. February 2, 2011. Roza and Sunnyside Valley Irrigation District meeting, Sunnyside, WA.

Herbicide resistance. January 25, 2011. Grant County Noxious Weed Control meeting, George, WA.

How herbicides are broken down in plants. January 5, 2011. Ag-Link growers meeting, Dayton, WA.

Adjuvants/Surfactants: why we use them and how they work. December 1, 2010. Washington Turf and Landscape Show, Bellevue, WA.

Herbicide mode of action. November 19, 2010. Okanogan County Noxious Weed Conference, Okanogan County Noxious Weed Control Board, Okanogan, WA.

Herbicide metabolism. November 18, 2010. Research that works for you webinar, WSU Professional Development, originating at WSU Mount Vernon NWREC.

Maximizing the effectiveness of pesticide applications. October 28, 2010. WSU Pesticide License Recertification Program, WSU Extension, Chehalis, WA.

Maximizing the effectiveness of pesticide applications. October 26, 2010. City of Seattle Pesticide Recertification Seminar, Seattle, WA.

Herbicide movement and toxicity. June 10, 2010. Weed Management Training, Mount Rainier National Park, WA.

How to conduct effective field trials for weed control. March 18, 2010. Washington State Weed Coordinators Association, Ellensburg, WA.

Adjuvants/Surfactants: why we use them, how they work, what products can be used near/in water? November 12, 2009. Olympic Knotweed Working Group, Port Angeles, WA.

Herbicide movement and toxicity. June 22, 2009. Weed Management Training, Mount Rainier National Park, WA.

Weed resistance: what it is and how to protect yourself from it. February 4, 2009. Vegetation Management Seminar, Helena Chemical Company, Tumwater, WA.

Herbicide movement and toxicity. June 18, 2008. Weed Management Training, Mount Rainier National Park, WA.

Backyard herbicides. June 13, 2008. WSU Master Gardener Conference, Port Townsend, WA.

Herbicide mechanism of action. April 24, 2008. City of Portland Parks and Recreation Spring Pesticide License Recertification Class, Portland, OR.

Herbicide movement and toxicity. June 20, 2007. Weed Management Training, Mount Rainier National Park, WA.

Herbicide mechanism of action. March 29, 2007. Washington State Department of Transportation Training, Shoreline, WA.

Herbicide mechanism of action. March 22, 2007. Washington State Department of Transportation Training, Mount Vernon, WA.

Herbicide movement and toxicity. July 20, 2006. Weed Management Training, Mount Rainier National Park.

Herbicide movement and toxicity. April 20, 2006. City of Portland Parks and Recreation Spring Pesticide License Recertification Class, Portland, OR.

Herbicide movement and toxicity. October 26, 2005. Sustainable Landscape Practices: Taking a Closer Look, City of Seattle Parks, Shoreline, WA.

Herbicide movement and toxicity. June 22, 2005. Weed Management Training, Mount Rainier National Park.

Where have all the herbicides gone? March 16, 2005. 7th Annual Small Fruit Grower's Workshop, WSU Vancouver.

Herbicide movement and toxicity. June 15, 2004. Weed Management Training, Mount Rainier National Park.

Herbicide movement and toxicity. June 18, 2003. Weed Management Training, Mount Rainier National Park.

Herbicides for western Washington farm crops. November 5, 2002. WSU Cooperative Extension Recertification Program, Mount Vernon, WA.

Herbicide movement and toxicity. June 19, 2002. Weed Management Training, Mount Rainier National Park.

Safely controlling weeds near water. March 26, 2002. Washington State Parks Pest Management Training, Olympia, WA.

Herbicide leachability and toxicology: an interpreter's guide. March 20, 2002. Washington State Weed Coordinators Association, Wenatchee, WA.

Avoiding herbicide resistance on your grassy shoulders. February 27, 2002. Grays Harbor County Noxious Weed Control Board Training, Elma, WA.

Herbicides for western Washington crop production. February 15, 2002. Skagit Farmer's Supply Growers Meeting, Mount Vernon, WA.

Herbicide families and their mode of action. November 15, 2001. Target Specialty Products Pacific Northwest Workshop, Portland, OR.

Herbicide families and their mode of action. November 13, 2001. Target Specialty Products Pacific Northwest Workshop, Seattle, WA.

Herbicide movement and toxicity. June 18, 2001. Weed Management Training, Mount Rainier National Park.

Herbicide movement and breakdown in soils. March 8, 2001. Grays Harbor County Noxious Weed Training, Elma, WA.

Backyard herbicides. December 7, 2000. Skagit Men's Garden Club, WSU Mount Vernon.

Backyard herbicides. July 11, 2000. Advanced Master Gardener Training, WSU Mount Vernon.

Herbicide movement and toxicity. June 20, 2000. Weed Management Training, Mount Rainier National Park.

Herbicide movement and breakdown in soils. March 8, 2000. Lewis County Noxious Weed Training, Chehalis, WA.

Spray adjuvants for herbicides. November 5, 1998. Washington State Weed Conference, Yakima, WA.

Backyard herbicides. April 23, 1998. Master Gardening Training, Sequim, WA.

Herbicide timing for weed control. January 8, 1998. Weed Short Course, Western Washington Horticultural Conference, SeaTac, WA.

AGENCIES ADVISED/TECHNICAL ASSISTANCE:

Federal:

Natural Resources Conservation Service
United States Forest Service
United States Park Service
Samish Indian Nation
Upper Skagit Tribes

State:

Washington State Department of Agriculture
Washington State Department of Ecology
Washington State Department of Fish and Wildlife
Washington State Department of Transportation
Washington State Noxious Weed Control Board
Washington State Parks Department

Local:

City Parks and Recreation Departments

City School Districts
County Noxious Weed Control Boards
Nooksack Salmon Enhancement Association, Bellingham, WA
Natural Resources Conservation Districts
Seattle City Light, Seattle, WA
Skagit Fisheries Enhancement Group, Mount Vernon, WA

PROFESSIONAL SERVICE:

Departmental and University

committees:

Promotion and Tenure Advisory Committee (Chris Benedict and Jennifer Andreas), 2010-2013
Search Committee, Weed Scientist, WSU Pullman, 2010-12
Search Committee, Extension Director, Island County, 2010
Search Committee, Extension Ag Educator, Franklin-Benton Counties, 2010
Planning Committee, Extension Annual Conference, 2007 meeting and 2009 meeting
Chairman, Search Committee, Weed Scientist, WSU Pullman, 2005-06
WSU Mount Vernon Building Committee, 2003-06
Planning Committee, West side faculty meeting, 2001
Search Committee, Weed Ecologist, WSU Pullman, 2000-01
Search Committee, Vegetable Pathologist, WSU Mount Vernon, 1999-2000
Safety Committee, WSU Mount Vernon, 1997-2005
Search Committee, Head of Agricultural Communications Department, University of Idaho, 1990-91
College of Agriculture Promotion and Tenure Committee, University of Idaho, 1989-91

teaching:

classroom

ME 523. Energy and Environment Seminar, "Production of Biofuel Crops in Western Washington", University of Washington, 2010.
Crop Science 305. Guest lecturer, "Integrated Weed Management on the West Side," Washington State University, 1999-2005.
Crop Science 101. Guest lecturer, "West Side Agriculture," Washington State University, 2001-2003.
Plant Science 308. Guest lecturer, "Weeds and Forages," University of Idaho, 1997.
Plant Science 338. Guest lecturer, "Poisonous Plants," University of Idaho, 1996.
Plant Science 410/510. Guest lecturer, "Noxious and Range Weeds," University of Idaho, 1996.
Plant Science 406. Co-instructor for broadleaf and grassy weed identification, and weed seed identification, University of Idaho, Coeur d'Alene, ID, 1995.
Plant Science 461. Guest lecturer, "Physiological Disorders of Tree Fruit," University of Idaho, 1994.
AgEd 359 and AgEd 181. Guest lecturer, "Role of the County Agent," University of Idaho, 1993.
Plant Science 338. Laboratory teaching assistant, Introduction to Weed Science course, University of Idaho, 1987.

online

Weed Management in Vineyards (Weed Biology, Weed Reproduction, Non-chemical Weed Management, and Chemical Weed Management), WSU On-line Viticulture and Enology Certificate Program. Spring 2012; **Spring 2013**

field tours (attended and data presented):

ornamentals/landscape:

Bulb field day, rotating annually between WSU Puyallup/WSU Mount Vernon NWREC (1998-2011)
Pacific Northwest Christmas Tree Association Tour, Mossyrock, WA (2009).

non-crop:

Reed canarygrass tour, Riparian Management Group, Whatcom County (2001-2002).
Noxious weed tour, Washington State Noxious Weed Control Board (Clallam Co., 2001; Grant Co., 2000;
Pacific Co., 2005, Whatcom Co., 1999; King Co., 2006; Pacific Co., 2007; Chelan, Clallam, and
Cowlitz Cos., 2008; Kitsap Co., 2009; **Walla Walla, Co. and Boardman, OR, 2013**).
USFS Pesticide Coordinators field tour, Portland, OR (2007).

seed crops:

Seed tour, WSU Mount Vernon NWREC (1998-2005)
Interenational Spinach Conference, La Conner (2006)

small fruit:

Vineyard Workshop, WSU Mount Vernon NWREC (2008-2009)
Sakuma Brothers Berry Tour (2009-2011)
Blueberry field day, WSU Mount Vernon NWREC (1999-2001, 2003-2005, 2007-2010)
Raspberry field day, WSU Vancouver (2000-2001)

vegetables:

Cucumber twilight tour, WSU Mount Vernon NWREC (1998-2000, 2002-2003)
Pea field day, WSU Mount Vernon NWREC (1998-2002)
Potato field day, WSU Mount Vernon NWREC (1998-1999, 2002-2004)
Corn Field Day, Chehalis, WA (1998)

general weed:

WSU Mount Vernon NWREC Field Day (2007-2011, **2013**; Chairman, 2010)
Congressional Delegation Farm Tour (August 11, 2008)
Crop and Soil Science Department Graduate Student Tour, northwest Washington (2004, 2006, 2009)
Skagit Farm Walks with WSU Skagit County Extension (2 sessions, 2004)
Weed science tour, WSU Mount Vernon NWREC (1999-2001)
Washington Pest Control Tour, Washington State Commission for Pesticide Registration (1999, 2001,
2003, 2007, 2011)

recruitment

Imagine U@WSU. November 21, 2011. Federal Way High School, Federal Way, WA (3 sessions).
Imagine U@WSU. May 17, 2011. Port Townsend High School, Port Townsend, WA (4 sessions).
Imagine U@WSU. May 16, 2011. Port Angeles High School, Port Angeles, WA (3 sessions).
Imagine U@WSU. March 14, 2011. Rogers High School, Puyallup, WA (3 sessions).
Imagine U@WSU. November 22, 2010. Arlington High School, Arlington, WA (3 sessions).
Imagine U@WSU. November 24, 2009. Bremerton High School, Bremerton, WA (3 sessions).
Imagine U@WSU. November 23, 2009. Spanaway Lake High School, Spanaway, WA (3 sessions).
Careers in science. May 15, 2008. Mount Vernon High School, Mount Vernon, WA.
Careers in science. May 7, 2007. Mount Vernon High School, Mount Vernon, WA.
Future cougar day in Seattle. September 16, 2006. Quest Field, Seattle, WA.
Careers in agronomy. May 18, 2000. Career Day, La Conner High School, La Conner, WA.

reviews:

Since 1997: Departmental or interdepartmental manuscripts, 22
Extension Bulletins, 6
Grant proposals, 13
Agronomy Journal, 2 manuscripts
African Journal of Agricultural Research, 2 manuscripts
Biological Conservation, 1 manuscript
Chemistry and Ecology, 2 manuscripts
Crop Protection, 1 manuscript
Ecological Restoration, 1 manuscript
Ecoscience, 1 manuscript
Environmental Management, 1 manuscript
HortScience, 6 manuscripts
HortTechnology, 5 manuscripts
Invasive Plant Science and Management, 9 manuscripts
Madrono, 1 manuscript
Management of Biological Invasions, 1 manuscript
Natural Areas Journal, 1 manuscript
New Zealand Journal of Crop and Horticultural Science, 1 manuscript
Northwest Science, 3 manuscripts
Rangeland Ecology and Management, 1 manuscript
Weed Technology, 35 manuscripts
Weed Research, 1 manuscript
Weed Science, 3 manuscripts

2013. Two manuscripts for Chemistry and Ecology, one manuscript for Management of Biological Invasions, six manuscripts for Weed Technology, one manuscript for HortTechnology, one manuscript for Rangeland Ecology and Management, one manuscript for Northwest Science, one manuscript for Invasive Plant Science and Management, and one grant proposal.

2012. One manuscript for Crop Protection, one manuscript for Environmental Management, one manuscript for Weed Technology, and one departmental manuscript.

2011. One manuscript for Weed Science, one manuscript for Invasive Plant Science and Management, one interdepartmental manuscript, and two extension bulletins.

2010. Two departmental/interdepartmental manuscripts, one manuscript for African Journal of Agricultural Research, one manuscript for Ecoscience, one manuscript for Hort Technology, one manuscript for Invasive Plant Science and Management, one manuscript for New Zealand Journal of Crop and Horticultural Science, two manuscripts for Northwest Science, one manuscript for Weed Science, one manuscript for Weed Technology, one grant proposal, and two extension bulletins.

2009. Three departmental/interdepartmental manuscripts, one manuscript for Ecological Restoration, three manuscripts for Invasive Plant Science and Management, one grant proposal, and one manuscript for Weed Technology.

2008. One departmental manuscript, one bulletin, two manuscripts for Invasive Plant Science and Management, three manuscripts for Weed Technology, one manuscript for African Journal of Agricultural Research, one manuscript for Natural Areas Journal, and one manuscript for Biological Conservation.

2007. One interdepartmental manuscript, one bulletin, one manuscript for Invasive Plant Science and Management, two manuscripts for Weed Technology.

2006. Two grant proposals, one interdepartmental manuscript, one manuscript for Weed Science, two manuscripts for Weed Technology, two manuscripts for HortScience, one manuscript for Agronomy Journal.

- 2005. One grant proposal, two bulletins, four manuscripts for Weed Technology, one manuscript for Weed Research, one manuscript for HortScience, one manuscript for HortTechnology, one manuscript for Agronomy Journal.
- 2004. One grant proposal, two manuscripts for Weed Science, two manuscripts for Weed Technology, one manuscript for HortScience, one manuscript for HortTechnology.
- 2003. One interdepartmental manuscript, two grant proposals, two manuscripts for HortScience, five manuscripts for Weed Technology.
- 2002. Three departmental or interdepartmental manuscripts, two grant proposals, one manuscript for Madrone, and three manuscripts for Weed Technology.
- 2001. One departmental or interdepartmental manuscript, one grant proposal, two manuscripts for Weed Technology, and one manuscript for HortTechnology.
- 2000. Three departmental or interdepartmental manuscripts and one manuscript for Weed Technology.
- 1999. Three departmental or interdepartmental manuscripts, one grant proposal, and two manuscripts for Weed Technology.
- 1998. One departmental or interdepartmental manuscript.

State and Region

committees:

- Board member, Washington State Weed Association, 2002-2011.
(President, 2006; Vice President, 2005; Secretary, 2010-2011; Crop Section Program Chairman, 2002, 2004, 2009)
- Scientific Advisor, Washington State Noxious Weed Control Board, 1999-present.**
- Board member, Western Society of Weed Science (Weed Science Society of America representative), 2009-2012.
- Chairman, Local Arrangements Committee, Western Society of Weed Science, 2005 meeting (Vancouver, B.C., Canada); 2007 meeting (Portland, OR)
- Education and Regulatory Section, Western Society of Weed Science, 2006 meeting (Reno, NV)
- Student Paper Judging Committee, Western Society of Weed Science** (Chairman, 2000; Judge, 1999-2003, 2007, 2012-2013).
- Placement Committee, Western Society of Weed Science, 2002-2004.
- Section Chairman, Weeds of Horticultural Crops, Western Society of Weed Science, 2002, 2003, 2008.
- Section Chairman, Teaching and Technology Transfer, Western Society of Weed Science, 1997, 1998.
- Board of Directors, Inland Empire Agricultural Chemical Association, 1990-1993
(1991-1993, Chairman, Scholarship Committee).
- Chairman, Professional Development Committee, Idaho Association of County Agricultural Agents, 1990-1992.
- Board of Directors, Extension District 1, Idaho Association of County Agricultural Agents, 1989-1990.

public/extension education:

- Taught 4-hour session on identification of grassy and broadleaf weed seedlings. Cenex/Land O'Lakes fieldman training, Walla Walla, WA, 1998.
- Taught 2-hour sessions on "Mechanical Weed Control of Noxious Weeds" and "Weed Identification." Wyoming weed and pest control district supervisors training workshop, Pinedale, WY, 1996.

National

committees:

- Board member, Weed Science Society of America (Western Society of Weed Science representative), 2009-2012.
- Standardized Plant Names Subcommittee, Weed Science Society of America, 1997-present (Chairman, 1998-present).**

Herbicides for Minor Uses Committee, Weed Science Society of America, 2001-present.
Extension Committee, Weed Science Society of America, 1999-2004.
Calendar Committee, Weed Science Society of America, 2001-2003.

ATTENDANCE AT PROFESSIONAL MEETINGS:

State and Regional:

Western Society of Weed Science (1994, 1996-2007, 2009-**2013**).
Washington State Weed Conference (1994, 1997-**2013**).
Washington State Horticultural Association (1993).
Western Washington Horticultural Association (1998-2008).
Northwest Bulb Growers Association (1997-2008).
Washington State University Extension Conference (1998, 2000-2001, 2005, 2007).
Tri-state Weed Workers (1995, 2000, 2001).
Pacific Northwest Vegetable Association (1997, 2003, 2004).
Idaho Weed Control Association (1989, 1994-1998, 2004).
Idaho State Horticultural Society (1993).
Oregon Society of Weed Science (2000, 2003, 2012).
Oregon Horticultural Society (2002, 2005, 2008).
North Willamette Horticultural Society (2000-2001, 2003-2006, 2008-**2013**)
Alaska Committee for Noxious and Invasive Plant Management (2007, 2009)

National and International:

Weed Science Society of America (1995, 1997-2012)
International *Rubus* and *Ribes* Symposium (2005, 2011)
International Weed Science Society (2004)
Lower Mainland Horticultural Improvement Association, B.C., Canada (2002, 2006, 2010, **2013**)
International Spinach Conference (2006)
IR-4 Crop Grouping Workshop (2002).
IR-4 Ornamental Workshop (2002).
IR-4 Food Use Workshop (2003, 2005).
IR-4 GLP Workshop (1998-1999).
American Society for Horticultural Science (1994, 2000, 2003, 2008).
International Dwarf Fruit Tree Association (1993).
British Columbia Nursery Trades Association (1997)
International Blackcurrant Conference (2012)

HONORS AND AWARDS:

Named Fellow of the Western Society of Weed Science, 2013
Recipient of 2012 Presidential Award of Merit, Western Society of Weed Science.
Co-recipient of 2009 Team Interdisciplinary Award (along with several others), College of Agricultural, Human, and Natural Resources Sciences
Recipient of 2008 Weed Warrior Award, Washington State Weed Association
Recipient of 2007 Kenneth J. Morrison Award.
Recipient of 2007 Presidential Award of Merit, Western Society of Weed Science.
Distinguished Service Award, Western Washington Horticultural Association, 2004.
2nd place, Weed Science Society of America photography contest, Toronto, Ontario, Canada, 2000.
2nd place, Weed Science Society of America photography contest, San Diego, CA, 1999.
2nd place, Weed Science Society of America photography contest, Chicago, IL, 1998.
First place, student paper competition, Agricultural and Plant Science Division, Idaho Academy of Science, Moscow, ID, 1996.
Honorary State FFA Degree, Idaho FFA Association, 1995.

Idaho state winner, Horticultural Newsletter, National Association of County Agricultural Agents, 1992.
Idaho state co-winner (with Larry Smith and Ben Barstow), Search for Excellence in Extension, National Association of County Agricultural Agents, 1990.

Idaho state winner, Environmental Protection in the Use of Pesticides, National Association of County Agricultural Agents, 1989.

APPENDICES

I. EXTENSION PROGRAMS (since August 1997):

1. Weed science sections in pesticide pre-license trainings:

- a. **Principal audience:** Agricultural fieldmen and consultants, farmers, ranchers, homeowners, agency personnel.
- b. **Objectives:** Prepare audience to take and successfully complete Washington State Department of Agriculture pesticide license exams.
- c. **Delivery:**
26 three-hour presentations on weed biology, weed control principles, weed control strategies, and herbicide technology (Bellevue, Bellingham, Everett, Forks, Kelso, Kirkland, Lacey, Mount Vernon, Tacoma, WSU Puyallup, WSU Vancouver)

2. Weed control in agronomic/horticultural crops:

- a. **Principal audience:** Agricultural fieldmen and consultants, farmers, agency personnel, county extension agents.
- b. **Objectives:** Provide current research information on weed control strategies in various crops.
- c. **Delivery:**
156 presentations (berries, Christmas trees, cucumbers, grapes, green peas, organic weed control options, ornamental bulbs, potatoes, ryegrass seed, tree fruit, vegetable seed) (Abbotsford (BC, Canada), Albany (OR), Auburn, Bellingham, Burlington, Canby (OR), Chehalis, Corvallis (OR), Delta (BC, Canada), Enumclaw, Everett, James Hutton Institute (Scotland), La Conner, Lynden, Monroe, Mount Vernon, Olympia, Pasco, Portland (OR), Prosser, SeaTac, WSU Mount Vernon NWREC, WSU Prosser IAREC, WSU Puyallup, WSU Vancouver, Wilsonville (OR), Yakima)

3. Weed control in non-cropland, pasture/hay, urban horticulture, nursery, range, forestry, and rights-of-way (often noxious weeds):

- a. **Principal audience:** Nursery operators, consultants, commercial lawn care specialists, farmers, ranchers, foresters, county extension agents, and county weed control coordinators.
- b. **Objectives:** Provide current research information on weed control strategies in various non-agronomic situations.
- c. **Delivery:**
173 presentations (Anchorage (AK), Bellevue, Bellingham, Bremerton, Burlington, Bow, Centralia, Chehalis, Chelan, Coeur d'Alene (ID), Coupeville, Des Moines, Ellensburg, Elma, Everett, Fairbanks (AK), George, Grand Ronde (OR), Hood River (OR), Kenmore, Kirkland, La Conner, Lacey, Leavenworth, Lynnwood, Mill Creek, Montesano, Moses Lake, Mount Vernon, Nampa (ID), Okanogan, Olympia, Pendleton (OR), Pomeroy, Portland (OR), Port Angeles, Port Orchard, Poulsbo, Pullman, Rochester, Seattle, Seaside (OR), Sedro-Woolley, Sequim, Soldotna (AK), Spokane, Stanwood, Stevenson, Sunriver (OR), Surrey (BC, Canada), Tacoma, WSU Mount Vernon NWREC, WSU Puyallup, WSU Vancouver, Wenatchee, Wilsonville (OR), Yakima)

4. Weed identification:

- a. **Principal audience:** Master Gardeners, farmers, ranchers, homeowners, agricultural fieldmen, consultants, agency personnel, county extension agents, county weed control coordinators.
- b. **Objectives:** Provide information on plant family characteristics, improving the audience's ability to recognize and identify common weed species, as well as enhancing their ability to distinguish between horticultural and native plant species.
- c. **Delivery:**
 - 42 beginning (1-hour) Master Gardener weed science training sessions (Anacortes, Bellingham, Burlington, Coupeville, Everett, Friday Harbor, Seattle, WSU Mount Vernon NWREC, WSU Puyallup)
 - 36 weed walks, on-site discussion of identification of local weed species (Anacortes, Bellingham, Chehalis, Conway, Coupeville, Ferndale, Kirkland, Loveland (CO), Mount Vernon, Poulsbo, Samish Island, Seattle, Sequim, Sedro Woolley, Walla Walla, WSU Mount Vernon NWREC, WSU Puyallup, WSU Vancouver)
 - 64 other presentations (Auburn, Bayview, Bellevue, Bellingham, Bremerton, Burlington, Dayton, Ephrata, Ferndale, George, Hood River (OR), Kenmore, Kent, Loveland (CO), Moses Lake, North Platte (NE), Okanogan, Pasco, Port Angeles, Port Townsend, Portland (OR), Poulsbo, Pullman, Puyallup, Renton, Seattle, Spanaway, Walla Walla, WSU Mount Vernon NWREC, WSU Puyallup, Yakima)

5. Weed physiology, biology, and ecology:

- a. **Principal audience:** Master Gardeners, farmers, ranchers, homeowners, agricultural fieldmen, consultants, agency personnel, county extension agents, county weed control coordinators.
- b. **Objectives:** Provide information about how weeds grow and develop, how they perform basic physiological functions, and how populations change over time, improving the audience's ability to more effectively manage weeds.
- c. **Delivery:**
 - 42 beginning (2-hour) and advanced Master Gardener weed science training sessions (Anacortes, Bellingham, Burlington, Coupeville, Everett, Friday Harbor, Seattle, WSU Mount Vernon NWREC, WSU Puyallup)
 - 35 other presentations (Arlington, Everett, Everson, Ferndale, Homer (AK), Ketchikan (AK), Leavenworth, Loveland (CO), Lynden, Mount Vernon, Pendleton (OR), Port Hadlock, Port Townsend, Richmond (BC, Canada), Salt Lake City (UT), Seaside (OR), Sedro-Woolley, Twisp, WSU Mount Vernon NWREC, WSU Pullman, WSU Puyallup, Woodinville, Yakima)

6. Herbicide/adjuvant technology:

- a. **Principal audience:** Master Gardeners, farmers, ranchers, homeowners, agricultural fieldmen, consultants, agency personnel, county extension agents, county weed control coordinators.
- b. **Objectives:** Improve the audience's understanding of how herbicides work, increasing the efficiency and effectiveness of their herbicide applications and reducing the likelihood of off-target applications or accidental crop injury.

c. Delivery:

78 presentations (Bellevue, Bellingham, Chehalis, Chelan, Dayton, Ellensburg, Elma, George, Grandview, Kent, Loveland (CO), McMinnville (OR), Mount Rainier National Park, Mount Vernon, Napa (CA), Okanogan, Olympia, Port Angeles, Port Townsend, Preston, SeaTac, Seattle, Sedro-Woolley, Sequim, Shelton, Shoreline, Silverdale, Stevenson, Sunnyside, Tumwater, WSU Mount Vernon NWREC, WSU Prosser IAREC, WSU Puyallup, WSU Vancouver, Portland (OR), Wenatchee, Yakima, Yuba City (CA))

II. CREATIVE PROFESSIONAL ACTIVITIES:

A. Conducted research trials of agricultural weeds in a variety of crops and western Washington noxious weeds (648 trials including 14,626 individual treatments since 1997). Results from these trials, and/or my active support, contributed toward new and continuing Section 3 federal labels, Section 18 emergency use labels, and Section 24(c) special local needs labels (total of 95 registrations for 35 different herbicides in 32 different crops). Registrations are as follows:

(1) **Seed crops** (46 registrations for 17 herbicides in 18 crops):

- (a) Alfalfa seed: Fusilade (fluazifop)
- (b) Brussels sprout seed: simazine
- (c) Cabbage seed: simazine, Fusilade (fluazifop), and **Stinger (cropyralid)**.
- (d) Carrot seed: Reglone (diquat) and Caparol (prometryne)
- (e) Chinese cabbage seed: Assure II (quizalofop) and Fusilade (fluazifop)
- (f) Clover seed: Prowl H2O (pendimethalin) and Raptor (imazamox)
- (g) Coriander seed: Reglone (diquat)
- (h) Dill seed: Caparol (prometryne)
- (i) Fine fescue seed: Fusilade (fluazifop)
- (j) Kale seed: Fusilade (fluazifop)
- (k) Parsley seed: Caparol (prometryne)
- (l) Parsnip seed: Caparol (prometryne)
- (m) Radish seed: Reglone (diquat)
- (n) Ryegrass seed: Goal (oxyfluorfen), Prowl H2O (pendimethalin), Dual Magnum (s-metolachlor), Sencor (metribuzin), and diuron
- (o) Spinach seed: Reglone (diquat), Assure II (quizalofop), Ro-Neet (cycloate), Dual Magnum (s-metolachlor), Asulox (asulam), and Fusilade (fluazifop)
- (p) Swiss chard seed: Assure II (quizalofop), Betamix (phenmedipham + desmedipham), Nortron (ethofumesate), Ro-Neet (cycloate), Fusilade (fluazifop), Dual Magnum (s-metolachlor), and **Stinger (cropyralid)**
- (q) Table beet seed: Reglone (diquat), Assure II (quizalofop), Betamix (phenmedipham + desmedipham), Nortron (ethofumesate), Ro-Neet (cycloate), Fusilade (fluazifop), Dual Magnum (s-metolachlor), UpBeet (triflusulfuron), and **Stinger (cropyralid)**
- (r) Turnip seed: Reglone (diquat)

(2) **Small fruit crops** (18 registrations for 10 herbicides in 3 crops):

- (a) Blueberry: Chateau (flumioxazin), Callisto (mesotrione), Saber (2,4-D), Aim (carfentrazone), Sandea (halosulfuron), Stinger (cropyralid), Dual Magnum (s-metolachlor), and Matrix (rimsulfuron)
- (b) Raspberry: Aim (carfentrazone), Chateau (flumioxazin), Callisto (mesotrione), Dual Magnum (s-metolachlor), Matrix (rimsulfuron), and **Sandeal (halosulfuron)**
- (c) Strawberry: Spartan (sulfentrazone), Prowl H2O (pendimethalin), Stinger (cropyralid), and Chateau (flumioxazin)

(3) **Vegetable crops** (8 registrations for 10 herbicides in 3 crops):

- (a) Cucumber: Sandea (halosulfuron) and Strategy (ethalfluralin + clomozone)

- (b) Potato: Spartan (sulfentrazone), Chateau (flumioxazin), Boundary (s-metolachlor + metribuzin), and Solida (rimsulfuron)
- (c) Sweet corn: Starane (fluroxypyr) and Callisto (mesotrione)
- (4) **Ornamental bulb crops** (15 registrations for 6 herbicides in 3 crops):
 - (a) Daffodil: Gramoxone Inteon (paraquat), Devrinol (napropamide), diuron, Pendulum Aquacap (pendimethalin), Quali-Pro Isoxaben (isoxaben), and **Fusilade (fluazifop)**
 - (b) Iris: Gramoxone Inteon (paraquat), Devrinol (napropamide), diuron, Pendulum Aquacap (pendimethalin), and Quali-Pro Isoxaben (isoxaben)
 - (c) Tulip: Gramoxone InteonMax (paraquat), Devrinol (napropamide), Pendulum Aquacap (pendimethalin), and Quali-Pro Isoxaben (isoxaben)
- (5) **Field crops** (4 registrations for 4 herbicides in 3 crops):
 - (a) Silage corn: Callisto (mesotrione) and Starane (fluroxypyr)
 - (b) Triticale: Axiom (metribuzin + flufenacet)
 - (c) Wheat: Axiom (metribuzin + flufenacet)
- (6) **Ornamentals** (3 registrations for 4 herbicides in 1 crop): Christmas trees: Axiom (metribuzin + flufenacet), Kerb (pronamide), and SureGuard (flumioxazin)
- (7) **Non-crop** (2 registrations for 2 herbicides): Milestone (aminopyralid); **Perspective (aminocyclopyrachlor)**

B. Given 588 presentations to an estimated 44,846 people on a variety of weed, agricultural, and horticultural topics since 1997.

C. Identified some 1,750 plant specimens from Idaho, Montana, Oregon, and Washington (official) since 1993.