

CURRICULUM VITAE

University of Idaho

TIMOTHY S. PRATHER

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Professional Preparation

University of Idaho, Range Science B. Sc., 1982

University of Idaho, Plant Science M. S., 1989

University of Idaho, Plant Science, Ph. D., 1993

Appointments

2011 to Present Professor, Invasive Plant Biology, University of Idaho

2004 to 2010: Associate Professor of Weed Ecology, University of Idaho

2000-2004: Assistant Professor of Weed Ecology, University of Idaho

1996-2000: Associate Academic, Integrated Pest Management Weed Ecologist, University of California, Davis

1992-1996: Assistant Academic, Integrated Pest Management Weed Ecologist, University of California, Davis

Courses

Invasive Plant Biology, PLSC 410/510

Plant Community Restoration Methods PLSC 419

Plant Physiology, PLSC 401

Forage and Grassland Management, PLSC 404

Recent Publications

Book Chapters

1. Lass, L. W., T. S. Prather, B. Shafii, and W. J. Price. 2011. Chapter 13, Tracking invasive species in rangeland using probability functions to identify site specific boundaries. A case study using yellow starthistle (*Centaurea solstitialis*). In GIS Applications in Agriculture Volume 2 Invasive Species. CRC Press LLC. pp. 277 – 298.
2. Radosevich, S.R., T. Prather, C. M. Ghera and L. Lass. 2009. Implementing science-based invasive plant management. In Management of Invasive Weeds, Inderjit (ed), Springer pp 345-360.
3. Prather, T. 2007. Risk assessment and decision making for invasive plant management planning. Invasive Plant Management: CIPM Online Textbook, <http://www.weedcenter.org/textbook/toc.html>
4. Prather, T. S. and L. W. Lass. 2005. Remote Sensing for Weed Detection. Chapter 8 in Inventory and Survey Methods for Nonindigenous Plant Species. pp 60 – 64.
5. Prather, T. S. 2005. Adaptive Sampling Design. Chapter 7, in Inventory and Survey Methods for Nonindigenous Plant Species. pp 56 – 59.
6. Mitchell, J.P., W.T. Lanini, S.R. Temple, P.N. Brostrom, E.V. Herrero, E. Miyao, T.S. Prather, K.J. Hembree. 2002. Reduced-disturbance agroecosystems in California. Chapter 97, pp 993-998, in “Managing for healthy ecosystems,” edited by D.J. Rapport, W.L. Lasley, D.E. Rolston, N.O. Nielsen, C.O. Qualset, A.B. Damania, Lewis Publ., CRC Press LLC.

Refereed Journal Articles

1. Alomran, M., Newcombe, G., & Prather, T. (n.d.). *Ventenata dubia's* Native Range and Consideration of Plant Pathogens for Biological Control. *Invasive Plant Science and Management*, 1-16.
doi:10.1017/inp.2019.24
2. Koby, L., Prather, T., Quicke, H., Beuschlein, J., & Burke, I. (n.d.). Management of *Ventenata dubia* in the Inland Pacific Northwest with Indaziflam. *Invasive Plant Science and Management*, 1-25.
doi:10.1017/inp.2019.26
3. Barroso, Judit, Drew J. Lyon and Timothy S. Prather. 2019. Russian Thistle: Management in a Wheat-Fallow Crop Rotation. PNW 492 (revised).
4. Jones, L., N. Norton, T. S. Prather. 2018. Indicators of *Ventenata* (*Ventenata dubia*) Invasion in Sagebrush Steppe Rangelands. *Invasive Plant Science and Management* 11(1):1-9.
5. Venn, T.J., M.J. Wibbenmeyer, C.A. Armatas and T.S. Prather. 2017. Social preferences for invasive plant management: A case Study from the interior Northwest of the United States. 15: (2) 43-72.
6. Prather, T., S. Robins, D. Morishita. 2017. *Idaho's Noxious Weeds*, 9th Edition. University of Idaho Extension Publication 816, 152 pages.
7. Wallace, J. M. and T. S. Prather. 2016. Herbicide control strategies for *Ventenata dubia* in the Intermountain Pacific Northwest. *Invasive Plant Science and Management* 9:128-137.
8. Kesoju, S. R., B. Shafii, L. W. Lass, W. J. Price and T. S. Prather. 2015. Predicting rush skeletonweed (*Chondrilla juncea*) dispersal by wind within the canyon grasslands of Central Idaho. *Int. J. Plant Biol. Res* 3(1):1026.
9. Wallace, J. M., P. Pavek and T. S. Prather. 2015. Ecological characteristics of *Ventenata dubia* in the Intermountain Pacific Northwest. *Invasive Plant Science and Management* 8:57-71.
10. Shafii, B., W. J. Price, T. S. Prather and L. W. Lass. 2014. Modeling dispersal of yellow starthistle in the canyon grasslands of Northern Idaho. *Int. J. Plant Biol. Res.* 2(2):1011.
11. Lass, L.W., S. P. Cook, B. Shafii, and T.S. Prather. 2014. Development of a dispersal model for Balsam woolly adelgid, *Adelges piceae* Ratzeburge (Hemiptera:adelgidae), to facilitate landscape-level management planning. *International Journal of Forestry* 2014: 519010 DOI 10.1155/2014/519010
12. Wallace, J.M. and T.S. Prather. 2013. Comparative demography of an exotic herbaceous annual among plant communities in invaded canyon grassland: inferences for habitat suitability and population spread. *Biological Invasions* 15:2783-2797.
13. Wallace, J. M., T. S. Prather and V. Peterson. 2012. Effects of aminopyralid on ponderosa pine (*Pinus ponderosa*). 5:164-169.
14. Laitala, K. L., T. S. Prather, D. C. Thill, B. Kennedy, and C. Caudill. 2012. Efficacy of benthic barriers as a control measure for Eurasian watermilfoil (*Myriophyllum spicatum*). *Invasive Plant Science and Management* 5:170-177.
15. Bell, J. L., I. C. Burke, and T. S. Prather. 2011. Uptake, translocation and metabolism of aminocyclopyrachlor in prickly lettuce, rush skeletonweed and yellow starthistle. *Pest Management Science* 67:1338-1348.
16. Nyamai, P. A., T. S. Prather and J. M. Wallace. 2011. Evaluating restoration methods across a range of plant communities dominated by invasive annual grasses to native perennial grasses. *Invasive Plant Science and Management* 4:306-316.
17. Wallace, J., T. S. Prather and L. Wilson. 2010. Plant Community Response to Integrated Management of Meadow Hawkweed (*Hieracium caespitosum*) in the Pacific Northwest. *Invasive Plant Science and Management* 3:268-275
18. Stapleton, J.J., C. G. Summers, J.P. Mitchell and T. S. Prather. 2010. Deleterious activity of cultivated grasses (Poaceae) and residues on soilborne fungal, nematode and weed pests. *Phytoparasitica* 38:61-69
19. Summers, C. G., J. J. Stapleton, T. S. Prather, J. P Mitchell. 2009. Sudex cover crops can kill and stunt subsequent tomato, lettuce and broccoli transplants through allelopathy. *California Agriculture* 63:35-40.

19. Mallek, S. B., T. S. Prather and J. Stapleton. 2007. Interaction effects of *Allium* spp. residues, concentrations and soil temperature on seed germination of four weedy plant species. *Applied Soil Ecology* 37:233-239.
20. Dahlquist, R. M., T. S. Prather, J. J. Stapleton. 2007. Tim and temperature requirements for weed seed thermal death. *Weed Science* 55:619-625.
21. Shafii, B. W.J. Price, T.S. Prather, L.W. Lass, D. Howard. 2006. Modeling dispersal of yellow starthistle in the canyon grasslands of north central Idaho. *Applied Statistics in Agriculture*. G. A. Milliken (Ed.). Kansas State University, Manhattan, Kansas
22. Milan, J. D., B. L. Harmon, T. S. Prather, M. Schwarzlaender. 2006. Winter mortality of *Aceria chondrillae*, a biological control agent released to control rush skeletonweed (*Chondrilla juncea*) in the western United States. *J. Applied Entomology* 130:473-479.
23. Lass, L. W., T. S. Prather, N. F. Glenn, K. T. Weber, J. T. Mundt, J. Pettingill. 2005. A review of remote sensing of invasive weeds and example of the early detection of spotted knapweed (*Centaurea maculosa*) and Babysbreath (*Gypsophila paniculata*) with a hyperspectral sensor. *Weed Science* 53:242-251.
24. Mundt, J. T., N. F. Glenn, K. T. Weber, T. S. Prather, L. W. Lass, J. Pettingill. 2005. Discrimination of hoary cress and determination of its detection limits via hyperspectral image processing and accuracy assessment techniques. *Remote Sensing of Environment* 96:509-517.
25. Glenn, N. F., J. T. Mundt, K. T. Weber, T. S. Prather, L. W. Lass, J. Pettingill. 2005. Hyperspectral data processing for repeat detection of small infestation of leafy spurge. *Remote Sensing of Environment* 95:399-412.
26. Shafii, B, W. J. Price T. S. Prather L. W. Lass and D. C. Thill. 2004. Using landscape characteristics as prior information for Bayesian classification of yellow starthistle. *Weed Science* 52:948-953.
27. Shafii, B., W. J. Price, T. S. Prather, L. W. Lass, D. C. Thill. 2003. Predicting the likelihood of yellow starthistle (*Centaurea solstitialis*) occurrence using landscape characteristics. *Weed Science* 51:748-751.
28. Price, W. J., B. Shafii, L. W. Lass and T. S. Prather. 2002. Using landscape characteristics as prior information for Bayesian classification of remotely sensed imagery. *Kansas State University Conference on Applied Statistics in Agriculture* pp 126 – 136.
29. Stapleton, J.J., T.S. Prather, S.B. Mallek, T.S. Riuz, and C.L. Elmore. 2002. High temperature solarization for production of weed-free container soils and potting mixes. *Horticultural Technology* 12(4):697-700.
30. Lass, L.W., D.C. Thill, B. Shafii and T.S. Prather. 2002. Detecting spotted knapweed (*Centaurea maculosa*) with hyperspectral remote sensing technology. *Weed Technology* 16:426–432.
31. Mitchell, J.P., P.B. Goodell, R. Krebill-Prather, T.S. Prather, K.J. Hembree, D.S. Munk, and D.M. May. 2001. Innovative agricultural extension partnerships in California's Central San Joaquin Valley. *J. Extension*. 39:6.
32. Hasey, J. K., Pickel, C., Buchner, R., Olson, W., Bentley, W., Prichard, T., Grant, J., Darby, N. and Prather, T. 2001. Year 2 of the Walnut Pest Management Alliance. *Hortscience*, 36(3), 481.
33. Prather, T.S., W.T. Lanini, S. Orloff, R. Vargas, J.L. Schmierer, K. Hembree, W.M. Canevari, S. Mueller, W. Bendixen, and R.L. Krebill-Prather. 2000. Interplanting grasses into alfalfa controls weeds in older stands. *Cal. Ag.* 54:37-41.
34. Liu F., and T.S. Prather. 2000. The fate of simazine in a drip-irrigated grape vineyard. *Weed Science* 48:514-517.
35. Hall, J.C., L.L. Van Eerd, S.D. Miller, K.D.K. Owen, T.S. Prather, D.L. Shaner, K.C. Vaughn, and S.C. Weller. 2000. Future research directions for weed science. *Weed Technol.* 14:647-658.
36. Steinmaus, S.J., T.S. Prather, and J.S. Holt. 2000. Estimation of base temperatures for nine weed species. *J. Experimental Botany* 51:275-286.

Honors

1. Awarded Idaho Weed Hall of Fame 2011
2. Outstanding Paper, Weed Technology 2003
3. Bronze Award for Idaho Farm Bureau Private Forest Series, Association of Natural Resource Extension Professionals, 2007.