

PUBLICATIONS

Invited Chapters:

- Maxwell, B.D. and A.M. Mortimer. 1994. Selecting for herbicide resistance. *In*, **Herbicide Resistance In Plants: Biology and Biochemistry**, S. Powles and J. Holtum (eds). p.1-25. CRC Press.
- Maxwell, B.D. 1996. Evolutionary aspects of herbicide resistance. pp.17-23, **In Pesticide Resistance, Prevention & Management**, G.W. Bourdot and D.M. Suckling (eds), New Zealand Plant Protection Society Inc., Rotorua, NZ.
- De Haan, R.L., D.L. Wyse, N.J. Ehlke, B.D. Maxwell and D.H. Putman. 1997. Spring-seeded smother plants for weed control in corn and other annual crops. *In*, **Ecological Interactions and Biological Control**, D. Andow, D. Ragsdale and R. Nyvall (eds), Westview Press, Boulder, CO. (In Press)
- Colliver, C.T., B.D. Maxwell, D.A. Tyler, D.W. Roberts and D.S. Long. 1997. Georeferencing wild oat infestations in small grains: accuracy and efficiency of three weed survey techniques. pp.453-464. *In* **Site Specific Management for Agricultural Systems**. P.C. Robert, *et al.* (eds). Agronomy Soc. of Am., St Joseph, MI.
- Sheley, R.L., S. Kedzie-Web and B.D. Maxwell. 1999. Integrated weed management on rangelands. pp. 57-68 *In*, R.L. Sheley, J.K. Petroff, (eds). **Biology and Management of Noxious Weeds of Rangeland**. Oregon State University Press, Corvallis, OR.
- Maxwell, B.D. and R. Sheley. 1999. Integrated noxious weed management. (Chapter 5) pp. 57-68 *In*, R. Sheley, L. Larson and M. Borman, (eds). **Noxious Weeds of Rangeland**. Oregon State University Press, Corvallis, OR.
- Maxwell, B.D., J. Johnson and C. Montagne. 2000. Predicting land use change and ecosystem impacts in and around a rural community. pp. 183-197 *In*, M.J. Hill and R.J. Aspinall (eds), **Spatial Information for Land Use Management**. Gordon and Breach Pub.
- Maxwell, B.D. and R. Weed. 2001. Nontarget Terrestrial Plant Effects of Low-Dose, High-Potency Herbicides. Pp. 75-97. S. Ferenc (Ed), *In* **Impacts of Low-Dose, High-Potency Herbicides on Nontarget and Unintended Plant Species**. SETAC Publication. Washington, D.C.
- Johnson, J., B. Maxwell and R. Aspinall. 2003. Moving nearer to heaven: growth and change in the Greater Yellowstone Region, USA. Pp. 77-88. *In* R. Buckley, C. Pickering and D.B. Weaver (eds), **Nature Based Tourism, Environment and Land Management**. CAB International Pub.
- Maxwell, B.D. and E. Luschei. 2004. The Ecology of Crop-Weed Interactions: Towards a More Complete Model of Weed Communities in Agroecosystems. pp. 137-152. *In* D.R. Clements and A. Shrestha (eds), **New Dimensions in Agroecology**. Hawthorn Press.
- Maxwell, B.D. and J. T. O'Donovan. 2007. Understanding weed-crop interactions to manage weed problems. Pp. 17-33 *In* M.K. Upadhyaya and R.E. Blackshaw (Eds) **Non-chemical Weed Management**. CAB International. Cambridge, MA.
- Maxwell, B.D. and L.J. Rew. 2010. If You Can't Measure It, You Can't Manage It: An

Ecological Approach to Weed Management. Chapter 8. pp. 113-126. *In* J. Johnson (Ed) Knowing Yellowstone: Science in America's First National Park. Taylor Trade Publishing, Boulder, CO.

Invited Peer Reviewed Journal Papers:

- Roush, M.L., S.R. Radosevich and B.D. Maxwell. 1990. Future outlooks for herbicide resistance research. *Weed Technology* 4:208-214.
- Maxwell, B.D. 1992. Weed thresholds: the space components and considerations for herbicide resistance evolution. *Weed Tech.* 6:205-212.
- Maxwell, B.D. and M. Jasieniuk. 1994. Population genetics and the evolution of herbicide resistance in weeds. *Phytoprotection* 75:25-35.
- Jasieniuk, M. and B.D. Maxwell. 2001. Plant diversity: new insights from molecular biology and genomics technologies. *Weed Sci.* 49: 257-265.
- Maxwell, B.D. and E. Luschei. 2004. The ecology of crop-weed interactions: Toward a more complete model of weed communities in agroecosystems. *Journal of Crop Improvement* 11:137-154.
- Rew, L.J., Maxwell, B.D., Aspinall, R. 2005. Predicting the occurrence of non-indigenous species using environmental and remotely sensed data. *Weed Science* 53:236-241.
- Maxwell, B.D. and L.C. Luschei. 2005. Justification for site-specific weed management based on ecology and economics. *Weed Science* 53:221-227.
- Parks CG, Radosevich SR, Endress BA, Naylor BJ, Anzinger D, Rew LJ, Maxwell BD & Dwire KA. 2005. Natural and land use history of the Northwest Mountainous Ecoregions (U.S.A.) in relation to patterns of plant invasions. *Perspectives in Plant Ecology, Evolution and Systematics.* 7:137-158.
- Rew, L.J., Maxwell, B.D. Dougher, F.D., Aspinall, R. 2006. Searching for a needle in a haystack: evaluating survey methods for sessile species. *Biological Invasions* 8:523-539

Refereed (not invited):

- Maxwell, B.D. 1982. A floral description of native forests on Kosrae, Eastern Caroline Islands. *Micronesia* 18:109-120.
- Ralph, C.J. and B.D. Maxwell. 1984. Relative effects of human and feral hog disturbance on a wet forest in Hawaii. *Biological Consvr.* 30:291-303.
- Maxwell, B.D., S.M. Wiatr, and P.K. Fay. 1985. The economic potential of leafy spurge (*Euphorbia esula* L.). *Econ. Bot.* 39:150-156.
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- Petersen, T. and B.D. Maxwell. 1988. Water stress of *Pinus ponderosa* in relation to foliage density of neighboring plants. *Can. J. Forest Res.* 17:1620-1622.
- Maxwell, B.D., M. Wilson, and S.R. Radosevich. 1988. Population modeling approach for evaluating leafy spurge development and control. *Weed Technology.* 2:132-138.
- Roush, M.L., S.R. Radosevich, R.G. Wagner, B.D. Maxwell, and T.D. Petersen. 1988. A comparison of methods for measuring effects of density and proportion in plant competition experiments. *Weed Science* 37:268-275.
- Roush, M.L., S.R. Radosevich and B.D. Maxwell. 1990. Future outlooks for herbicide resistance research. *Weed Technology* 4:208-214.
- Maxwell, B.D., M.L. Roush and S.R. Radosevich. 1990. Predicting the evolution and dynamics of herbicide resistance in weed populations. *Weed Technology* 4:2-13.
- Maxwell, B.D. and C. Ghersa. 1992. The influence of weed dispersion versus the effect of competition on crop yield. *Weed Tech.* 6:196-204.
- Maxwell, B.D. 1992. Weed thresholds: the space components and considerations for herbicide resistance evolution. *Weed Tech.* 6:205-212.
- Buhler, D.D. and B.D. Maxwell. 1993. A modified floatation method for extraction and enumeration of weed seeds from soil. *Weed Sci.* 41:298-302.
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- Zasada, C.J., J.C. Tappeiner III, B.D. Maxwell and M.A. Radwan. 1993. Seasonal changes in shoot and root production, and carbohydrate content of salmonberry (*Rubus spectabilis*) rhizome segments from the Central Oregon Coast Range. *Can. J. For. Res.* 24:272-277.
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- Lindquist, J.L., D. Rhode, K.J. Puettmann and B.D. Maxwell. 1994. The influence of plant population spatial arrangement on individual plant yield. *Ecological Applications* 4:518-524.
- DeHaan, R.L., D.L. Wyse, N.J. Ehlke, B.D. Maxwell and D.H. Putnam. 1994. Simulation of spring seeded smother plants for weed control in corn (*Zea mays*). *Weed Sci.* 42:35-43.
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- Maxwell, B.D. and M. Jasieniuk. 1994. Population genetics and the evolution of herbicide resistance in weeds. *Phytoprotection* 75:25-35.
- Lindquist, J.L., B.D. Maxwell, D.D. Buhler and J.L. Gunsolus. 1995. Modeling the population dynamics and economics of velvetleaf (*Abutilon theophrasti*) in a corn (*Zea mays*) - soybean (*Glycine max*) rotation. *Weed Science* 43:226-232.

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- Jacobs, J.J., R.L. Sheley and B.D. Maxwell. 1995. Effect of *Sclerotinia sclerotiorum* on the interference between bluebunch wheatgrass (*Agropyron spicatum*) and spotted knapweed (*Centaurea maculosa*). *Weed Technology* 10:13-21.
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- Lindquist, J.L., T. Weaver and B.D. Maxwell. 1996. Competitive exclusion as a method of weed control. *Great Basin Naturalist* 56:267-271.
- Sheley, R.L., T.J. Svejcar, B.D. Maxwell and J. S. Jacobs. 1996. Successional rangeland weed management. *Rangelands* 18:155-159.
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- Maxwell, B.D. 1999. My View: A perspective on ecologically based pest management. *Weed Sci.* 47:129.
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- Carsten, L., M.R. Johnston, B.D. Maxwell and D. Sands. 2001. Competitive interactions between *Avena fatua* and *Nassella pulchra* with and without crown rust infection. *Biological Control* 22: 207-218
- Van Wychen, L.R., E.C. Luschei, A.J. Bussan and B.D. Maxwell. 2002. Accuracy and cost effectiveness of GPS-assisted wild oat mapping in spring cereal crops. *Weed Sci.* 50:120-129
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- Collins, D. P., B.J. Jacobsen and B. Maxwell. 2002. Spatial and temporal population dynamics of a phyllosphere colonizing *Bacillus subtilis* biological control agent of sugarbeet *Cercospora* leaf spot. *Biological Control* 26:224-232
- Wright, A., A. Hansen, R. Kennedy, W. Cohen, U. Langner, R. Lawrence, R. Aspinall, B. Maxwell, A. Gallant. 2003. Vectors of Change in the American West: The Greater Yellowstone Ecosystem 1975-95. *Ecological Applications* 13:687-703.
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- Holman, J., J. Mickelson, A. Bussan, B. Maxwell, P. Miller. 2004. Spring Wheat, Canola, and Sunflower Response to Persian Darnel (*Lolium persicum*) Interference. *Weed Tech.* 18:509-520.

- Barroso J., C. Fernandez-Quintanilla, B.D. Maxwell and L.J. Rew. 2004. Simulating the effects of weed spatial pattern and resolution of mapping and spraying on economics of site-specific management. *Weed Research* **44**, 460-468.
- Carpinelli, M.F., R.L. Sheley and B.D. Maxwell. 2004. Revegetating weed-infested rangeland by maximizing niche occupation. *Rangeland Ecol. and Manag.* **57**:97-105.
- Barroso, J., D. Ruiz, C. Fernández-Quintanilla, E.S. Leguizamon, P. Hernaiz, A. Ribeiro, B. Diaz, B.D. Maxwell and L.J. Rew. 2005. Comparison of sampling methodologies for site-specific management of *Avena sterilis*. *Weed Research*. **45**:1-10.
- Creel, S., J. Winnie, Jr., B. Maxwell, K. Hamlin and M. Creel. 2005. Elk alter habitat selection as an antipredator response to wolves. *Ecology* **86**: 3387-3397.
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- Taylor, R. and B.D. Maxwell. 2006. Indirect Effects of Herbicides on Agroecological Trophic Systems, *J. Agriculture Ecosystems & Environment* **116**:157-164.
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- Smith, R.G., B.D. Maxwell, F.D. Menalled, and L.J. Rew. 2006. Lessons from agriculture may improve the management of invasive plants in wildland systems. *Frontiers of Ecology and the Environment* **4**:428-434
- Maxwell, B.D., R.G. Smith, M. Brelsford. 2007. Wild oat (*Avena fatua*) seed bank dynamics in transition to organic wheat production systems. *Weed Science* **55**:212-217.
- Wagner, N., B.D. Maxwell, M.L. Taper and L.J. Rew. 2007. Developing an empirical yield prediction model based on wheat and wild oat (*Avena fatua*) density, nitrogen and herbicide rate, and growing season precipitation. *Weed Science* **55**: 652-664.
- Rew, L.J., E.A. Lehnhoff and B.D. Maxwell. 2007. Non-indigenous species management using a population prioritization framework. *Can J. Plant Sci.* **87**: 1029-1036.
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percent cover in weed communities of organic and conventional no-tillage spring wheat systems. *Weed Research* 48:398-407.

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- Maxwell, B.D., E.A. Lehnhoff and L.J. Rew. 2009. The rationale for monitoring invasive plant populations as a crucial step for management. *Invasive Plant Science & Management* 2: 1-9.
- Pollnac, F.W., B.D. Maxwell and F.D. Menalled. 2009. Weed community characteristics and crop performance: a neighbourhood approach. *Weed Research* 49:242-250
- Pollnac, F.W., B.D. Maxwell, and F.D. Menalled. 2009. Using species-area curves to examine weed communities in organic and conventional spring wheat systems. *Weed Science* 57:241-247.

Reviewed Publications:

- Maxwell, B.D., D.L. Coble, and P.K. Fay. 1983. Weed control using all-terrain vehicles. *Montana Ag. Exp. Stn. Capsule Information Series No. 32*, 6 pages.
- Maxwell, B.D. 1984. Changes in an infested plant community after an application of picloram, the effect of glyphosate on bud dormancy, the effect of pulling and the fuel potential of leafy spurge (*Euphorbia esula*). M.S. thesis. Montana State University.
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- Opalach, D., R.G. Wagner, B.D. Maxwell, J.H. Dukes, Jr., and S.R. Radosevich. 1988. A simulation model of competing Douglas-fir and salmonberry. *Proc. Forest Simulation Systems Conference*, Berkeley, CA.
- Wagner, R.G., D. Opalach, B.D. Maxwell, J.H. Dukes, Jr. and S.R. Radosevich. 1989. Interspecific competition index projection system (ICIPS) for young Douglas- fir stands on the Siuslaw National Forest. Technical Report #2. Department of Forest Science, Oregon State University. p.77.
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- Maxwell, B.D. 1990. The population dynamics and growth of salmonberry (*Rubus spectabilis*) and thimbleberry (*Rubus parviflorus*). Ph.D. thesis. Oregon State University.

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- Johnson, J.D., Maxwell, B. M., and Aspinall, R. 2002. Moving Nearer to Heaven: Growth and Change in the Greater Yellowstone Region, USA. In Ralph Buckley (ed): **Natural Tourism and the Environment**.
- Johnson, J. and B. Maxwell. 2002. The role of federal cropland protection and rural sprawl. *Montana Policy Review* 9:12-19.
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- Wagner, N., B. Maxwell, L. Rew, and D. Goodman. 2002 . Development of a yield prediction model for site-specific management of herbicide and fertilizer. Proceedings of the 6th International Conference on Precision Agriculture. Minneapolis, Minnesota. July 14-17.
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- Johnson, M., L.J. Rew, B.D. Maxwell and S. Sutherland. 2006. The role of wildfire in the establishment and Range Expansion of non-native plant species into natural areas. Bozeman, MT: Montana State University Center for Invasive Plant Management.
- Menalled, F., T. Bass, D. Buschena, D. Cash, M. Malone, B. Maxwell, K. McVay, P. Miller, R. Soto and D. Weaver. 2008. An introduction to the principles and practices of sustainable farming. Montana State University Mont Guide. MT200813AG.

Proceedings and Abstracts: * *Invited presentation*

- Maxwell, B.D. and P.K. Fay. 1983. The economic potential of leafy spurge. Proc. Western Soc. Weed Sci. 36:36.
- Maxwell, B.D., M.E. Foley, and P.K. Fay. 1984. The effect of glyphosata on the regulation of dormancy in leafy spurge (*Euphorbia esula* L.). WSSA Abstracts, 24:30.
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