

LITERATURE CITED  
WILLAMETTE VALLEY FINAL CRITICAL HABITAT

- Altman, B., M. Hayes, S. Janes, and R. Forbes. 2001. Wildlife of westside grassland and chaparral habitats. Pages 261-291 in D. H. Johnson and T. A. O'Neil, managing directors. Wildlife-habitat relationships in Oregon and Washington. Oregon State University Press, Corvallis.
- Alverson, E.R. 2003. Polygons of restoration sites for Fender's blue butterfly in Eugene, Oregon. Received 12 June 2005 (e-mail attachment)
- Barnes, M. 2004. Habitat variation and experimental management of Kincaid's lupine. *Bulletin of the Native Plant Society of Oregon*. 37 (9):95, 102-103.
- Beekman, M. and F.L.W. Ratnieks. 2000. Long-range foraging by the honey-bee, *Apis mellifera* L. *Functional Ecology* 14(4):490-496. Page 493.
- Center for Plant Conservation. National Collection of Endangered Plants.  
<[http://centerforplantconservation.org/ASP/CPC\\_ViewProfile.asp?CPCNum=1634](http://centerforplantconservation.org/ASP/CPC_ViewProfile.asp?CPCNum=1634)>. Accessed June 14, 2005.
- Clark, D.L., K.F. Finley, and C.A. Ingersoll. 1993. Status report for *Erigeron decumbens* var. *decumbens* (revised). An unpublished document of the Conservation Biology Program, Oregon Department of Agriculture, Salem, Oregon.
- Clark, D.L., K.K. Finley, and C.A. Ingersoll. 1995a. Demography and Reproduction of *Erigeron decumbens* var. *decumbens*, 1993-1994 Field Studies. Prepared for the Oregon Department of Agriculture, Plant Conservation Biology Program. 28 pp.
- Clark, D.L., K.F. Finley, and C.A. Ingersoll. 1995b. Regeneration biology of *Erigeron decumbens* var. *decumbens*, an endangered plant of the Willamette Valley. An unpublished document of the Conservation Biology Program, Oregon Department of Agriculture, Salem, Oregon.
- Clark, D.L. 1996. Post-dispersal seed fates in a Western Oregon native prairie. Ph.D. Dissertation, Oregon State University, Corvallis, Oregon.
- Clark, D. L., C. A. Ingersoll, and K. K. Finley. 1997. Regeneration of *Erigeron decumbens* var. *decumbens* (Asteraceae), the Willamette daisy. Pages 41-47 in T. N. Kaye, A. Liston, R. N. Love, D. L. Luoma, R. J. Meinke and M. V. Wilson, editors. Conservation and management of native plants and fungi. Native Plant Society of Oregon, Corvallis.
- Clark, D. L. 2000. Demographic analysis of *Erigeron decumbens* var. *decumbens*, an endangered plant species of the Willamette Valley, Oregon: 1999 Field Studies. U.S. Fish and Wildlife Service, Western Oregon NWR Refuge Complex. Order No. 1448-13590-9-M047A.

- Clark, D.L. and M.V. Wilson. 1998. Fire effects on wetland prairie species. Report to US Fish and Wildlife Service.
- Clark, D.L. and M.V. Wilson. 2000. Controlling woody vegetation in wetland prairies (1994-1999). Report submitted to the Coast Range Resource Area, Bureau of Land Management, Eugene, Oregon
- Crone, E.E. and C.B. Schultz. 2003. Movement behavior and minimum patch size for butterfly population persistence. in: C. Boggs, W. Watt, and P. Ehrlich (eds) Ecology and Evolution Taking Flight: Butterflies as Model Study Systems. University of Chicago Press.
- Debinski, D.M. and R.H. Holt. 2000. A survey and overview of habitat fragmentation experiments. Conservation Biology. 14:342-355.
- Donaldson, J., I. Nänni, C. Zachariades, and J. Kemper. 2002. Effects of habitat fragmentation on pollinator diversity and plant reproductive success in renosterveld shrublands of South Africa. Conservation Biology. 16:5, pp.1267-1276.
- Fahrig, L. 1997. Relative effects of habitat loss and fragmentation on population extinction. Journal of Wildland Management 61(3): 603-610.
- Fahrig, L. and G. Merriam. 1994. Conservation of fragmented populations. Conservation Biology 8:50-59.
- Falk, D., C. Millar and M. Olwell. 1996. Restoring diversity strategies for reintroduction of endangered plants. Island Press: pp. 209-233.
- Fitzpatrick, G. 2005. 2004 status of the Fender's blue butterfly (*Icaricia icarioides fenderi*) in Lane County, Oregon: population estimates and site evaluations and effects of mowing on the Fender's blue butterfly (*Icaricia icarioides fenderi*): implications for conservation management. Unpublished report submitted to Oregon Natural Heritage Program and U.S. Fish and Wildlife Service. 41 pp.
- Franklin, J.F. and C.T. Dyrness. 1973. Natural Vegetation of Oregon and Washington. USDA Forest Service Pacific Northwest Forest and Range Experiment Station, Portland, OR. 417 pp.
- Gilpin, M.E. and M. Soule. 1986. Minimum Viable Populations: Processes of Species Extinction. Sinauer Associates, Inc: Sunderland, Massachusetts, p 19-34
- Goodman, D., 1987a. The Demography of Chance Extinction. Conservation Biology: The science of scarcity and diversity. Sinauer Associates Inc. Sunderland, Massachusetts. p 11-34.
- Goodman, D., 1987b. How do species persist? Lessons for conservation biology. Conservation Biology, Vol 1, p. 59-62.

- Hammond, P.C. 1994. 1993 study of the Fender's blue butterfly (*Icaricia icarioides fenderi*). Report to Oregon Natural Heritage Program and U.S. Fish and Wildlife Service, Portland, Oregon. 56 pp.
- Hammond, P.C. 1996. 1995 study of the Fender's blue butterfly (*Icaricia icarioides fenderi*). Report to Oregon Natural Heritage Program and U.S. Fish and Wildlife Service, Portland, Oregon. 25 pp.
- Hammond, P.C. 1997. 1996 study of the Fender's Blue Butterfly (*Icaricia icarioides fenderi*). Report to Oregon Natural Heritage Program and U.S. Fish and Wildlife Service, Portland, Oregon. 38 pp.
- Hammond, P.C. 1999. 1998 study of the Fender's Blue Butterfly (*Icaricia icarioides fenderi*). Report to Oregon Natural Heritage Program and U.S. Fish and Wildlife Service, Portland, Oregon. 27 pp.
- Hammond, P.C. 2001. 2000 Study of the Fender's Blue Butterfly (*Icaricia icarioides fenderi*) in Benton, Polk, and Yamhill Counties. Unpublished report prepared for U.S. Fish and Wildlife Service and Oregon Natural Heritage Program, Oregon. 35pp.
- Hammond, P.C. 2002. The 2001 Study of Fender's Blue Butterfly (*Icaricia icarioides fenderi*) in Benton, Polk, and Yamhill Counties. Unpublished report prepared for U.S. Fish and Wildlife Service and Oregon Department of State Lands, Oregon. 35 pp.
- Hammond, P.C. 2003. The 2003 Study of Fender's Blue Butterfly (*Icaricia icarioides fenderi*) in Benton, Polk, and Yamhill Counties. Unpublished report prepared for U.S. Fish and Wildlife Service and Oregon Department of State Lands, Oregon. 34 pp.
- Hammond, P.C. 2004. The 2004 Study of Fender's Blue Butterfly (*Icaricia icarioides fenderi*) in Benton, Polk, and Yamhill Counties. Unpublished report prepared for U.S. Fish and Wildlife Service and Oregon Department of State Lands, Oregon. 38 pp.
- Hammond, P.C. 2005. The 2005 Study of Fender's Blue Butterfly (*Icaricia icarioides fenderi*) in Benton, Polk, and Yamhill Counties. Unpublished report prepared for U.S. Fish and Wildlife Service and Oregon Department of State Lands, Oregon. 41 pp.
- Hammond, P.C. and M.V. Wilson. 1993. Status of the Fender's blue butterfly. Report to the Oregon Natural Heritage Program and US Fish and Wildlife Service.
- Huxel, G., and A., Hastings. 1998. Population size dependence, competitive coexistence and habitat destruction: *Journal of Animal Ecology*. 67, p. 446-453.

- Jackson, S.A. 1996. Reproductive aspects of *Lomatium Bradshawii* and *Erigeron Decumbens* of the Willamette Valley, Oregon. M.S. thesis, University of Oregon, Eugene. 97 pp.
- Kagan, J. S. and Susan Yamamoto. 1987. Status report for *Erigeron decumbens* subsp. *decumbens*. Unpublished report to the U.S. Fish and Wildlife Service, Portland, Oregon.
- Kaye, T.N. 1999. Obligate insect pollination of a rare plant: *Lupinus sulphureus* ssp. *kincaidii*. *Northwest Science* 73:50-52.
- Kaye, T.N. 2000. Population Monitoring for Proposed Experimental Habitat Manipulation of Willamette Daisy, Oxbow West Site, West Eugene. Challenge Cost Share Project funded jointly by the Bureau of Land Management, Eugene District and the Institute for Applied Ecology. pp.15.
- Kaye, T.N. and J. Cramer. 2003. Population Monitoring for *Lupinus sulphureus* ssp. *Kincaidii* Fir Butte and Oxbow West Sites, West Eugene. 2002 Progress Report. Challenge Cost Share Project funded jointly by the Bureau of Land Management, Eugene District and the Institute for Applied Ecology. pp.18.
- Kuykendall, K., and T.N. Kaye. 1993a. Status Report for *Lupinus sulphureus* ssp. *Kincaidii*, Draft report to the Oregon Department of Agriculture, Corvallis, Oregon.
- Kuykendall, K., and T.N. Kaye. 1993b. *Lupinus sulphureus* ssp. *Kincaidii* survey and reproductive studies. Unpublished report to the Bureau of Land Management (Roseberg District) and Oregon Department of Agriculture. 16 pp.
- Lesica, P. and F.W. Allendorf. 1995. When are peripheral populations valuable for conservation? *Conservation Biology* 9:753-760.
- Liston, A., K. St. Hilaire, and M. V. Wilson. 1995. Genetic diversity in populations of Kincaid's lupine, host plant of Fender's blue butterfly. *Madrono* 42:309-322.
- McIntire, E., C.B. Schultz, and E.E. Crone. In review by *Journal of Applied Ecology*, May 12, 2006. pp. 1-47.
- Menges, E. 1991. The application of minimum viable population theory to plants. In *Genetics and Conservation of Rare Plants*, eds D Falk and K. Hosinger. Oxford Univ. Press, New York. pp. 45-61.
- National Wetlands Inventory. 19 Sept. 2003. Digital Wetlands Data. Accessed 16 Feb. 2005. <<http://www.nwi.fws.gov/downloads.htm>>.
- Natural Resources Conservation Service. 30 Aug. 2004. Soil Survey Geographic (SSURGO) database for Lane County Area, Oregon. Accessed 26 Jan. 2005. <[http://www.or.nrcs.usda.gov/pnw\\_soil/or\\_data.html](http://www.or.nrcs.usda.gov/pnw_soil/or_data.html)>.

- Noss, R. F. and A. Y. Cooperrider. 1994. *Saving Nature's Legacy: Protecting and Restoring Biodiversity*. Island Press, Washington, D.C. 416 pp.
- Noss, R., and B. Csuti. 1997. Habitat Fragmentation, Chapter 9 in *Principles of Conservation Biology*, G. Meffe and C. Carroll (eds.). Sinauer Associates Incorporated. Sunderland Massachusetts. 729 p.
- Noss, R.F., E.T. LaRoe III, and J.M. Scott. 1995. Endangered ecosystems of the United States; a preliminary assessment of loss and degradation. Biological Report 28, National Biological Service, Washington, D.C.
- Nunney, L., and K.A. Campbell. 1993. Assessing Minimum Viable Population Size: Demography Meets Population Genetics. *Trends in Ecology and Evolution* 8(7):234-239
- Oregon Department of Fish and Wildlife. 7 Feb. 1998. Willamette Valley Land Use/Land Cover. Accessed 22 Feb. 2005. <<http://www.nwhi.org/nhi/gisdata/willamette.asp>>.
- Oregon Natural Heritage Information Center. 2004. Polygon data for three Willamette Valley species of concern. Received 3 Dec. 2004.
- Oregon Natural Heritage Program. 1 Jan. 1999. 1851 Historic Vegetation (Willamette Valley, Oregon). Accessed 1 Jan. 2005. <<http://www.fsl.orst.edu/pnwer/wrb/access.html>>.
- Oregon Natural Heritage Program. 2003. Polygon data for Willamette Valley species of concern. Received January 2003.
- Oregon Natural Heritage Program and The Nature Conservancy. (Titus, Jonathan H., John A. Christy, Dick VanderSchaaf, James S. Kagan, and Edward R. Alverson) Nov. 1996.
- Oregon Natural Heritage Program. Jun. 2002. Historic Vegetation (Oregon 1909). Accessed 22 Feb. 2005. <<http://www.gis.state.or.us/data/alphalist.html>>.
- Primack, R. 1993. *Essentials of Conservation Biology*. Sinauer Associates, Sunderland, MA. 564 pp.
- Redford, K.H. and B.D. Richter. 1999. Conservation of biodiversity in a world of use. *Conservation Biology*. 13:6, pp. 1246-1256.
- Salix Associates. 2005. Vegetation mapping and management recommendations for Baskett Butte: Baskett Slough NWR, Polk County, Oregon. Unpublished report prepared for Baskett Slough NWR, Polk County, Oregon. 22 pp.
- Schultz, C. B. 2001. Restoring resources for an endangered butterfly. *Journal of Applied Ecology* 38: 1007-1019.

- Schultz, C. and E. Crone. 1998. Burning prairie to restore butterfly habitat: a modeling approach to management tradeoffs for the Fender's blue butterfly. *Restoration Ecology* 6(3): 244-252.
- Schultz, C. B. and E. E. Crone. 2001. Edge-mediated dispersal behavior in a prairie butterfly. *Ecology* 82: 1879-1892.
- Schultz, C. B. and E. E. Crone. 2005 Patch Size and Connectivity Thresholds for Butterfly Habitat Restoration. *Conservation Biology* 19:3, 887-896
- Schultz, C. B. and K. Dlugosch. 1999. Effects of declining food resources on populations of the Fender's blue butterfly (*Icaricia icarioides fenderi*). *Oecologia* 119: 231-238.
- Schultz, C. B. 1997. Planting butterfly seeds: An experiment in restoring habitat for the Fender's blue butterfly. In T. Kaye, A. Liston, R. M. Love, D. L. Luoma, R. J. Meinke, and M. V. Wilson (editors) *Conservation and Management of Native Plants and Fungi*. Native Plant Society of Oregon, Corvallis, Oregon. 88-98.
- Schultz, C.B. 1998. Dispersal behavior and its implications for reserve design for a rare Oregon butterfly. *Conservation Biology* 12: 284-292.
- Schultz, C.B. and P.C. Hammond. 2003. Using population viability analysis to develop recovery criteria for endangered insects: Case study of the Fender's blue butterfly. *Conservation Biology*. 17:1372-1385.
- Schultz, C.B., P.C. Hammond and M.V. Wilson. 2003. The biology of the Fender's blue butterfly, an endangered species of western Oregon native prairies. *Natural Areas Journal*. 23:61-71
- Severns, P.M. 2003a. Inbreeding and small population size reduce seed set in a threatened and fragmented plant species, *Lupinus sulphureus* ssp. *kincaidii* (Fabaceae). *Biological Conservation*. 110(2): 221-229.
- Severns, P.M. 2003b. Propagation of a long-lived and threatened prairie plant, *Lupinus sulphureus* ssp. *kincaidii*. *Restoration Ecology*. 11(3): 334-342.
- Severns, P.M. 2004. Fern Ridge Fender's blue butterfly Season Summary for 2004. Report to the US Army Corps of Engineers. 13 pp.
- Severns, P.M. In review by Madrono. May 30, 2006. pp. 1-23
- Severns, P.M. Exotic grass invasion impacts fitness in an endangered prairie butterfly. In preparation to submit to *Journal of Applied Ecology*.
- Sidle, J.G. 1987. Critical Habitat Designation: Is it Prudent? *Environmental Management* 11(4):429-437.
- Soulé, M.E., and D. Simberloff. 1986. What do genetics and ecology tell us about the design of nature reserves? *Biological Conservation*. 35(1): pp. 19-40.

- Stacey, P.B. and M. Taper. 1992. Environmental variation and the persistence of small populations. *Ecological Applications*. 2:1, pp. 18-29.
- Steffan-Dewenter, I. and A. Kuhn. 2003. Honeybee foraging in differentially structured landscapes. *Proceedings of the Royal Society, London B* 270:569-575. DOI 10.1098/rspb.2002.2292. Page 571.
- U.S. Army Corps of Engineers. 2002. Biological assessment of monitoring, maintenance and enhancement of habitat for Fender's Blue Butterfly and Kincaid's Lupine. Fern Ridge Project, Lane County, Oregon.
- U.S. Army Corps of Engineers. 2004. Fern Ridge Reservoir species of concern polygon and point data. Received 18 Nov. 2004. (CD-ROM).
- U.S. Bureau of Land Management. 2005. Polygons and point data for three Willamette Valley species of concern. Received 14 Feb. 2005 (e-mail attachment).
- U.S. Fish and Wildlife Service. 2003a. Condition of Fender's blue butterfly habitat in the Willamette Valley. Unpublished report on file at U.S. Fish and Wildlife Service, Oregon State Office.
- U.S. Fish and Wildlife Service. 2003b. Condition of Fender's blue butterfly habitat in the Willamette Valley. GIS layer compiled from various sources.
- U.S. Fish and Wildlife Service. 2004a. Site evaluations for Fender's blue butterfly, Kincaid's lupine and Willamette daisy. Data on file at U.S. Fish and Wildlife Service, Portland, Oregon.
- U.S. Fish and Wildlife Service. 2004b. 2003 So. Cal. Fires burned area rehabilitation plan. Carlsbad, California.
- U.S. Fish and Wildlife Service. 2004c. Partners for Fish and Wildlife Agreement.
- U.S. Fish and Wildlife Service. 2004d. Polygon data for Kincaid's lupine, Fender's blue butterfly and Willamette daisy populations. Received Sept. 2004 (CD-ROM and e-mail attachments).
- U.S. Fish and Wildlife Service. 2005. Site evaluations compiled from land manager reports and correspondence. Unpublished document on file at U.S. Fish and Wildlife Service, Oregon State Office.
- U.S. Fish and Wildlife Service. 2006a. Chapter II: Recovery (Technical Review Draft) *in* Recovery Plan for the Prairie Species of Western Oregon and Southwest Washington. Pacific Regional Office, Portland, Oregon.
- U.S. Fish and Wildlife Service. 2006b. Recovery Outline for *Lupinus sulphureus* ssp. *kincaidii* (Kincaid's lupine). Pacific Regional Office. Portland, Oregon. 23 pp.
- U.S. Geological Survey. 1991 (last update 26 Aug. 1993). Geologic map of Oregon. Accessed 17 Feb. 2005. <<http://www.gis.state.or.us/data/alphalist.html>>.

- U.S. Geological Survey. 2000. 1:24,000 scale digital orthophotographic quadrangle images. Received 2004.
- University of Oregon (Institute for A Sustainable Environment ). 15 Dec. 1999. Landuse and Landcover ca. 1990 (version 121599). Accessed 24 Feb. 2005.  
<<http://www.fsl.orst.edu/pnwerc/wrb/access.html>>.
- Washington Natural Heritage Program. 2005. Kincaid's Lupine populations in Washington state. Digitization based upon reports. 3 Jun. 2004, 16 Jun. 2004.
- Wilson, M. V., P. C. Hammond and C. B. Schultz. 1997. The Interdependence of native plants and Fender's blue butterfly. *in* Conservation and Management of Native Plants and Fungi, T. Kaye, A. Liston, R. M. Love, D. L. Luoma, R. J. Meinke, & M. V. Wilson (eds). Native Plant Society of Oregon, Corvallis, OR. 82-87.
- Wilson, M. V., T. Erhart, P. C. Hammond, T. N. Kaye, K. Kuykendall, A. Liston, A. F. Robinson, C. B. Schultz, and P. M. Severns. 2003. The biology of Kincaid's lupine (*Lupinus sulphureus* spp. *Kincaidii*), a threatened species of western Oregon native prairies. *Natural Areas Journal*. 23: 72-83
- Wilson, M.V. 1998a. Wetland Prairie Contributed Chapter: Part I the U.S. Fish & Wildlife Service Willamette Basin Recovery Plan. Prepared for the U.S. Fish and Wildlife Service, Portland, Oregon. 24 pp.
- Wilson, M.V. 1998b. Upland Prairie Contributed Chapter: Part I the U.S. Fish & Wildlife Service Willamette Basin Recovery Plan. Prepared for the U.S. Fish and Wildlife Service, Portland, Oregon. 24 pp.
- Wilson, M.V. and D.L. Clark. 1997. Effects of fire, mowing, and mowing with herbicide on native prairie of Baskett Butte, Baskett Slough NWR. Prepared for U.S. Fish and Wildlife Service, Western Oregon Refuges.
- York, M.M. 2003. Relationship Between Plant and Butterfly Community Composition on Upland Prairies of the Willamette Valley, Oregon. M.S. thesis, University of Oregon, Eugene. 107 pp.

In Litt. Citations:

- Friedman, Sam, in litt.a. Email correspondence to Mikki Collins and Kate Norman, Fish and Wildlife Service, Portland, Oregon, dated June 21, 2005. Subject: Indicator Species.
- Friedman, Sam, in litt.b. Email correspondence to Mikki Collins and Kate Norman, Fish and Wildlife Service, Portland, Oregon, dated August 4, 2005. Subject: Additional Associate Plants at Kincaid's lupine in Douglas County.

Gisler, Steven, in litt. Email correspondence to Kate Norman, Fish and Wildlife Service, Portland, Oregon, dated June 14, 2005. Subject: Lupine Site Near Mill Creek.

Kaye, Tom, in litt.b. Email correspondence to Mikki Collins, Fish and Wildlife Service, Portland, Oregon, dated October 7, 2005. Subject: Ongoing Erigeron research.

Kaye, Tom, in litt.a. Email correspondence to Mikki Collins, Fish and Wildlife Service, Portland, Oregon, dated June 8, 2006. Subject: Indicator Species for Prairie Habitat.

Schultz, Cheryl, in litt.a. Email correspondence to Mikki Collins, Fish and Wildlife Service, Portland, Oregon, dated June 23, 2005. Subject: A Few More Nectar Sources.

Schultz, Cheryl, in litt.b. Email correspondence to Mikki Collins, Fish and Wildlife Service, Portland, Oregon, dated July 18, 2005. Subject: Some Thoughts on Monmouth Falls Population.

Smith, Steve, in litt.a. Email correspondence to Mikki Collins, Fish and Wildlife Service, Portland, Oregon, dated May 23, 2006. Subject: Survey of Wainright Property.

Smith, Steve, in litt.b. Facsimile transmittal to Mikki Collins, Fish and Wildlife Service, Portland, Oregon, dated May 23, 2006. Subject: Bill Wainright.