

**Endangered and Threatened Wildlife and Plants: 12-Month Finding on a Petition to Reclassify *Eriodictyon altissimum* (Indian Knob mountainbalm) as Threatened**

- Bossard, C.C., J.M. Randall, and M.C. Hoshovsky. 2000. Invasive plants of California's wildlands. University of California Press, Los Angeles. Species profile for *Brassica tournefortii* on pp. 68-72. Species profile for *Ehrharta* spp. on pp. 164-170.
- California Division of Forestry and Fire Protection, 2012. Fire Perimeters Geodatabase version 11.1; current as of April 2012.
- CDPR 2013. Veldt grass removal project. Available online at [http://www.parks.ca.gov/?page\\_id=21574](http://www.parks.ca.gov/?page_id=21574). Accessed November 5, 2013.
- [CalIPC] California Invasive Plant Council. 2000. Invasive species of California's wildland: *Ehrharta* spp. Available online at <http://www.cal-ipc.org/ip/management/ipcw/pages/detailreport.cfm@usernumber=44&surveynumber=182.php>. Accessed November 5, 2013.
- [CalIPC] California Invasive Plant Council. 2011 (2012). Cal-IPC. 2011. Invasive species of California's wildland: *Ehrharta* spp. Accessed online, October 28. 7 pp.
- [CNPS] California Native Plant Society. 1987. Rare plant status report for *Eriodictyon altissimum*. Sacramento, California.
- [County] County of San Luis Obispo. 2010. Los Osos Wastewater Project, Biological Assessment. Department of Public Works, 94 pp.
- Elam, D.R. 1994. Genetic Variation and Reproductive Output in Plant Populations: Effects of Population Size and Incompatibility. Doctor of Philosophy, Graduate Program in Botany (Plant Genetics). University of California, Riverside. December. 194 pp.
- Greenlee, J.T. and J.H. Langenheim. 1990. Historic fire regimes and their relation to vegetation patterns in the Monterey Bay Area of California. *American Midland Naturalist* 124(2): 239-253.
- Gilpin, M. E. and M. E. Soule. 1986. Minimum viable populations: processes of species extinction. Pages 19–34 in M. E. Soule [ed.]. *Conservation biology: the science of scarcity and diversity*. Sinauer Associates, Inc., Sunderland, Massachusetts.
- Halse, R.R. 1993. Hydrophyllaceae. In: Hickman, J.C. (ed.) *The Jepson manual – higher plants of California*. University of California Press, Los Angeles. Pp. 683-708.
- Howard, J. L. (2012) 1992. *Eriodictyon californicum*. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). Available at <http://www.fs.fed.us/database/feis/> [2012, July 19].

- IPCC. 2007. *Climate Change 2007: Synthesis Report. Contribution of Working Groups I, II and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* [Core Writing Team, Pachauri, R.K., and A. Reisinger (eds.)]. IPCC, Geneva, Switzerland, 104 pp.
- Keeley, J.E. (1992) 1987. Role of fire in seed germination of woody taxa in California chaparral. *Ecology* 68(2): 434-443.
- Keeley, J.E., W.J. Bond, R.A. Bradstock, J.G. Pausas, and P.W. Rundel. 2012. Fire in Mediterranean Ecosystems: Ecology, Evolution and Management. Cambridge Press, Pp. 41-42, 119, 330.
- Kelley, R.B., R. Patterson, R.R. Halse, T.C. Messick. 2012. Boraginaceae. In: Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, T.J. Rosatti, and D.H. Wilken, (eds.) *The Jepson manual: vascular plants of California*, second edition. University of California Press, Berkeley. Pp. 470-473.
- Keeley, J.E., W.J. Bond, R.A. Bradstock, J.G. Pausas, and P.W. Rundel. 2012. Fire in Mediterranean Ecosystems: Ecology, Evolution and Management. Cambridge Press, Pp. 41-42, 119, 330.
- Lambert, A.M., C.M. D'Antonio, and T.L. Dudley. 2010. Invasive species and fire in California ecosystems. *Fremontia* 38:2/38:3.
- Lesica, P. and F.W. Allendorf. 1995. When Are Peripheral Populations Valuable for Conservation? *Conservation Biology* 9: 753–760.
- [MBNEP] Morro Bay National Estuary Program. 2010. Morro Bay Invasive Species Action Plan, version 11.18.2010. 28 pages.
- Moldenke, A. R. 1976. California pollination ecology and vegetation types. *Phytologia* 34:305-361.
- Moritz, M.A., J.E. Keeley, E.A. Johnson, and A.A. Schaffner. 2004. Testing a basic assumption of shrubland fire management: how important is fuel age? *Front Ecol Environ* 2(2): 67–72.
- Ne'eman, G., C.J. Fotheringham, and J.E. Keeley. 1999. Patch to landscape patterns in post fire recruitment of a serotinous conifer. *Plant Ecology* 145: 235-242
- Odion, D. and C. Tyler. 2002. Are long fire-free periods needed to maintain the endangered fire-recruiting shrub *Arctostaphylos morroensis* (Ericaceae)? *Conservation Ecology* 6(2): 4 [online] URL: <http://www.consecol.org/vol6/iss2/art4>
- Primack, R.B. 1998. *Essentials of Conservation Biology*. Chapter 11, pp. 279-309.
- Shaffer, M.L. 1981. Minimum population sizes for species conservation. *BioScience* 31(2): 131-143.

- SWAP 2000 (2001). Alien Invasion, Part 8: Veldt grass. Available online at <http://www.elfin-forest.org/Library/Conservation/Weed%20Management/PeteWeed/VeldtGrass.htm>. Accessed November 5, 2013.
- [TNC] The Nature Conservancy. 2005. Element stewardship abstract for *Ehrharta* spp. Thunb. ((Including *Ehrharta erecta* Lam., *Ehrharta calycina* Sm., and *Ehrharta longiflora* Sm.)) 14 pp.
- Tyler, C.M. 1996. Relative importance of factors contributing to postfire seedling establishment in maritime chaparral. *Ecology* 77(7): 2182-2195.
- [USDA] U.S. Department of Agriculture. 1984. Soil Survey of San Luis Obispo County, California: Coastal Part. Soil Conservation Service.
- [Service] U.S. Fish and Wildlife Service. 1998. Recovery plan for the Morro shoulderband snail and four plants from western San Luis Obispo County, California. U.S. Fish and Wildlife Service. Portland, Oregon.
- [Service] U.S. Fish and Wildlife Service. 2002. Designation of critical habitat for *Eriodictyon capitatum* (Lompoc yerba santa) and *Deinandra increscens* ssp. *villosa* (Gaviota tarplant). 67 FR 67969.
- [Service] U.S. Fish and Wildlife Service. 2009. 5-year status review for *Eriodictyon altissimum* (Indian Knob mountainbam). Ventura Fish and Wildlife Office. January 2009.
- [Service] U.S. Fish and Wildlife Service. 2013. *Eriodictyon altissimum* (Indian Knob mountainbam ), Species Report. U.S. Fish and Wildlife Service, Ventura, California. August 20, 2013. 34 pp.
- Van Dyke, E., K.D. Holl, and J.R. Griffin. 2001. Maritime chaparral community transition in the absence of fire. University of California, Santa Cruz, and University of California Hastings Reserve. 32 pp.
- Wells, P.V. 1962. A subarborescent new *Eriodictyon* (Hydrophyllaceae) from San Luis Obispo County, California. *Madroño* 16:184-186.
- Zedler, P.H., Clayton R. Gautier, and Gregory S. McMaster. 1983. Vegetation change in response to extreme events: The effect of short intervals between fires in California chaparral and coastal scrub. *Ecology* 64(4): 809-818.

### **Personal Communications**

- Chesnut, J. 2012a. (Local botanist, San Luis Obispo County). Personal communication on the status of occurrences of *Eriodictyon altissimum* and its proposed downlisting. Dated June 14. Local botanist, San Luis Obispo County. June 14, 2012.
- Chesnut, J. (Local botanist, San Luis Obispo County). 2012b. Personal communication on

further details of the status of occurrences of *Eriodictyon altissimum* and its proposed downlisting. Dated July 5. Local botanist, San Luis Obispo County. July 5, 2012.

McLeod, M. 1986. Letter to Monty Knudsen, Fish and Wildlife Biologist, U. S. Fish and Wildlife Service, regarding status of occurrences of Indian Knob mountainbalm. July 1. Professor of Biology, California Polytechnic State University, San Luis Obispo.

Vanderwier, J (Ventura Fish and Wildlife Office). 2006. Personal observation of site visits to Los Osos *Eriodictyon altissimum* sites. April 19, 2006.

Vanderwier, J. (Ventura Fish and Wildlife Office). 2006. Personal observation regarding site visit to Indian Knob with T. Guidetti. May 18, 2006.

Vanderwier, J. (Ventura Fish and Wildlife Office). 2009. Personal observation during site visits to *Eriodictyon altissimum* occurrence locations on Morro Dunes Ecological Reserve (EOs 4 and 6) and the Broderson parcel with C. Kofron (Ventura Fish and Wildlife Office). May 29, 2012.

Vanderwier, J. (Ventura Fish and Wildlife Office). 2012. Personal observation regarding site visits to *Eriodictyon altissimum* occurrence locations on Morro Dunes Ecological Reserve (EOs 4 and 6) and the Broderson parcel. October 8, 2012.

Vanderwier, J. (Ventura Fish and Wildlife Office). 2013. Personal observation regarding public opinion on controlled burns in the Indian Knob and Los Osos areas. September 19, 2013.

Veneris, P. (North Coast Battalion Chief, CAL FIRE). 2012. Personal communication regarding fire history in the Los Osos area. September 16, 2012.

### **Federal Register Documents**

**48 FR 49244; October 25, 1983.** Endangered and Threatened Wildlife and Plants; Preparation of Environmental Assessments for Listing Actions under the Endangered Species Act. Rule-related notice.

**56 FR 66400; December 23, 1991.** Endangered and Threatened Wildlife and Plants; Proposed Rule for Five Plants and Mono Shoulderband Snail from Western San Luis Obispo County, California.

**59 FR 64613; December 15, 1994.** Endangered and Threatened Wildlife and Plants; Endangered or Threatened Status for Five Plants and the Morro Shoulderband Snail from Western San Luis Obispo County, California.

**71 FR 14538; March 22, 2006.** Endangered and Threatened Wildlife and Plants. Endangered and Threatened Wildlife and Plants; Initiation of 5-Year Reviews of 56 Species in California and Nevada. Notice of Review.

**71 FR 16584; April 3, 2006.** Endangered and Threatened Wildlife and Plants. Initiation of 5-Year Reviews of 56 Species in California and Nevada; Correction.

**75 FR 28636; May 21, 2010.** Endangered and Threatened Wildlife and Plants; Initiation of 5-Year Reviews of 34 Species in California and Nevada; Availability of 96 Completed 5-Year Reviews in California and Nevada.

**77 FR 32922; June 4, 2012.** Endangered and Threatened Wildlife and Plants; 90-Day finding on a petition to delist or reclassify from endangered to threatened six California species.

**78 FR 54221; September 3, 2013.** Endangered and Threatened Wildlife and Plants; 12-Month Finding on a Petition to Downlist *Hesperocyparis abramsiana* (= *Cupressus abramsiana*), and Proposed Rule to Reclassify *H. abramsiana* as Threatened.