

# ANDREA L. LYONS

## Wildlife Ecologist

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### PROFESSIONAL EXPERIENCE

**Director, Terrestrial Ecology**, July 2014 to present, *Washington Conservation Science Institute, Cashmere, Washington.*

Ms. Lyons brings a wealth of experience ranging from conducting large-scale habitat-use analyses and developing population models for wildlife species, including grizzly bear, Canada lynx, and bighorn sheep in Washington, Alaska and British Columbia, to be used in NEPA/SEPA processes to support recovery and management objectives; to coordinating and conducting NEPA/SEPA analyses and associated ESA consultation for various projects, including Forest Restoration and a complex ski area expansion. Other projects include: climate change vulnerability assessments, use of Bayesian Networks to inform riparian habitat restoration and red tree vole conservation, and spotted owl surveys. Other responsibilities include: drafting project proposals, grant writing, budgeting and project leadership. Collaborators and clients include: WA Dept of Fish and Wildlife, WA Dept of Natural Resources, Okanogan-Wenatchee National Forest, Wenatchee Forestry Sciences Laboratory, US Fish and Wildlife Service, BC Ministry of Environment, Mission Ridge Mtn. Inc., Chelan County and Conservation Northwest.

**FOREST WILDLIFE ECOLOGIST**, Jan. 2012 to June 2014, *US Forest Service, Okanogan-Wenatchee NF, Wenatchee, WA*

**DISTRICT WILDLIFE BIOLOGIST**, April 2009 to Dec. 2012, *US Forest Service, Okanogan-Wenatchee NF, Entiat, WA*

**WILDLIFE BIOLOGIST**, June 1993 to March 2009, *US Forest Service, Okanogan-Wenatchee NF*

Ms. Lyons was a wildlife biologist on the Okanogan-Wenatchee NF for over 20 years. She was most recently the Wildlife Program Leader responsible for implementation, development and improvement of the Forest Wildlife Program on this 4 million acre forest, the majority of which is located within the range of the northern spotted owl and is managed under the Northwest Forest Plan. She was a team member and lead wildlife biologist on over 15 Environmental and Biological Assessments for projects on national forest lands including forest restoration, recreation planning, wildlife habitat management in front-country and wilderness, fish habitat restoration, range management, and prescribed fire. She was a co-leader of the Forest Restoration Strategy team, supporting implementation of decision-support tool for use in NEPA planning to conduct-multi-resource landscape evaluations. Other responsibilities included: 1) team lead of bighorn sheep/domestic sheep grazing risk assessment for incorporation into Forest Plan Revision Environmental Impact Statement and a forest-wide grazing Environmental Impact Statement; 2) team lead: Yakima Elk Herd Habitat Management project, cooperatively run with the Washington Dept. of Fish and Wildlife and PNW Research Station; 3) conducted research on habitat restoration for avian and Survey and Manage mollusc species; and 4) member of the North Cascades Grizzly Bear Subcommittee technical team from 1998 - 2014 (Chair 2012 – 2014).

### ACADEMIC TRAINING:

**MASTER OF SCIENCE**, 1997, WILDLIFE, University of Montana, Missoula, Montana, GPA 4.0. Major Professor: Dr. Christopher Servheen

**BACHELOR OF ARTS**, 1993, BIOLOGY, University of San Diego, San Diego, California, Magna Cum Laude, GPA, 3.7

## SELECTED PUBLICATIONS AND PRESENTATIONS

- Ransom, J. I., M. Krosby, and A. L. Lyons. 2018. Climate change implications for grizzly bears (*Ursus arctos*) in the North Cascades Ecosystem. Natural Resource Report NPS/NOCA/NRR—2018/1814. National Park Service, Fort Collins, Colorado.
- Lyons, A.L., W.L. Gaines, P. Singleton, W. Kasworm, M. Proctor, and J. Begley. 2018. Spatially explicit carrying capacity estimates to inform species specific recovery objectives: grizzly bear (*Ursus arctos*) recovery in the North Cascades. Biological Conservation.
- Lehmkuhl, J.F., A.L. Lyons, E. Bracken, J. Leingang, W.L. Gaines, E.K. Dodson, and P.H. Singleton. 2013. Forage composition, productivity, and utilization in the Eastern Washington Cascade Range. Northwest Science, 87(4):267-291.
- Lyons, A., and K. Halupka. 2013. Restoration on the Okanogan-Wenatchee NF. Presentation to Forest Service Chief Tidwell, Staff and PNW Forests on April 22, 2013. Nisqually, WA.
- Gaines, W., M. Haggard, J. Begley, J. Lehmkuhl, and A. Lyons. 2010. Short-Term Effects of Thinning and Burning Restoration Treatments on Avian Community Composition, Density, and Nest Survival in the Eastern Cascades Dry Forests, Washington, Forest Science 56(1):88-99.
- Gaines, W.L., R.J. Harrod, J. Dickinson, A.L. Lyons, and K. Halupka. 2010. Integration of Northern spotted owl habitat and fuels treatments in the eastern Cascades, Washington, USA. Forest Ecology and Manage. 260(11):2045-2052.
- Lyons, A.L., W.L. Gaines, J.F. Lehmkuhl, and R. Harrod. 2008. Short term effects of fire and fire surrogate treatments on foraging tree selection by cavity-nesting birds in dry forests of central Washington. Forest Ecology and Management 255(8-9):3203-3211.
- Gaines, W.L., A.L. Lyons, J.F. Lehmkuhl, M. Haggard, J.S. Begley, and M. Farrell. 2008. Avian Community composition, nesting ecology, and cavity-nester foraging ecology. Chapter 8 in Dry Forests of the Northeastern Cascades Fire and Fire Surrogate Project Site, Mission Creek, Okanogan-Wenatchee National Forest. USDA, Forest Service, PNW Research Station, Research Paper, PNW-RP-577, December 2008.
- Gaines, W.L., M.H. Haggard, J.F. Lehmkuhl, A.L. Lyons, and R.J. Harrod. 2007. Short-term response of land birds To ponderosa pine restoration. Restoration Ecology 15(4):666-674.
- Gaines, William L.; Lyons, Andrea L.; Lehmkuhl, John F.; Raedeke, Kenneth J. 2005. Landscape evaluation of Female black bear habitat effectiveness and capability in the North Cascades, Washington. Biological Conservation 125:411-425.
- Gaines, W.L., A.L. Lyons, and A. Sprague. 2005. Predicting the occurrence of a rare mollusk in the dry forests of north-central Washington. Northwest Science 79(2-3): 99-105.
- Lyons, A.L., W.L. Gaines, and C. Servheen. 2003. Black bear resource selection in the northeast Cascades, Washington. Biological Conservation 113(1): 55-62.
- Gaines, W.L., and A.L. Lyons. 2003. Crepuscular and nocturnal activity patterns of black bears in the north Cascades of Washington. Northwest Science. 77(2):140-146.
- Gaines, W.L., P. Singleton and A.L. Gold. 2001. Conservation of rare carnivores in the North Cascades Ecosystem, Western North America. Natural Areas Journal, 20:366-375.
- Gaines, W.L., A.L. Gold and D. Munzing. 1999. Black bear use of road density zones on the Okanogan National Forest, Washington. Paper presented at the 1999 annual meeting of the Washington Chapter of the Wildlife Society. Wenatchee, WA.