

**Compendium of Resource Equivalency Analyses:
New Carissa Oil Spill**

References

- Ainley, D.G., D.N. Nettleship, H.R. Carter, and A.E. Storey. 2002. Common Murre (*Uria aalge*) In The Birds of North America, No.666 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Ainley, D.G., R.J. Boekelheide, S.H. Morrell, and C.S. Strong. 1990a. Cassin's Auklet, pages 307-338 in Seabirds of the Farallon Islands (D.G. Ainley and R.J. Boekelheide, eds.). Stanford University Press. Stanford, California.
- Ainley, D.G., S.H. Morrell, and R.J. Boekelheide. 1990b. Rhinoceros Auklet and Tufted Puffin, pages 339-348 in Seabirds of the Farallon Islands (D.G. Ainley and R.J. Boekelheide, eds.). Stanford University Press. Stanford, California.
- Ainley, D.G., R.P. Henderson, and C.S. Strong. 1990c. Leach's Storm-Petrel and Ashy Storm-Petrel, pages 128-162 in Seabirds of the Farallon Islands (D.G. Ainley and R.J. Boekelheide, eds.). Stanford University Press. Stanford, California.
- Baird, P.H. 1994. Black-legged Kittiwake (*Rissa tridactyla*) In The Birds of North America, No. 92 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Beissinger, S.R. 1995. Population trends of the Marbled Murrelet projected from demographic analyses. Pages 385-393 in Ecology and Conservation of the Marbled Murrelet (C.J. Ralph, G.L. Hunt, Jr., M.G. Raphael and J.F. Piatt, eds.). Gen. Tech. Rep. PSW-GTR-152, Pacific Southwest Research Station, Forest Service, U.S. Dept. of Agriculture, Albany, CA.
- Beissinger, S.R. and N. Nur. 1997. Appendix B: Population trends of the Marbled Murrelet projected from demographic analysis. Pages B1-B35 in U.S. Fish and Wildlife Service. Recovery Plan for the Threatened Marbled Murrelet (*Brachyramphus marmoratus*) in Washington, Oregon and California. U.S. Fish and Wildlife Service, Portland, OR.
- Beissinger, S.R. and M.Z. Peery. 2003. Range-wide analysis of juvenile ratios from Marbled Murrelet monitoring programs: Implications for demographic analyses. Report to the U.S. Fish and Wildlife Service. Arcata Field Office. 29pp.
- Bertram, D.F., I.L. Jones, E.G. Cooch, H.A. Knechtel and F. Cooke. 2000. Survival rates of Cassin's and Rhinoceros Auklets at Triangle Island, British Columbia. The Condor 102:155-162.
- Boekelheide, R.J., D.G. Ainley, S.H. Morrell, and T.J. Lewis. 1990a. Brandt's Cormorant, pages 163-194 in Seabirds of the Farallon Islands (D.G. Ainley and R.J. Boekelheide, eds.). Stanford University Press. Stanford, California.

- Boekelheide, R.J., D.G. Ainley, S.H. Morrell, and T.J. Lewis. 1990b. Pelagic Cormorant and Double-crested Cormorant, pages 195-217 in *Seabirds of the Farallon Islands* (D.G. Ainley and R.J. Boekelheide, eds.). Stanford University Press. Stanford, California.
- Bordage, D., and J.P.L. Savard. 1995. Black Scoter (*Melanitta nigra*) In *The Birds of North America*, No.177 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Boulanger, J., K. Martin, G. Kaiser, and A.E. Derocher. 1999. Evaluating uncertainty in estimating population trends of Marbled Murrelets. Pages 53-63 in *Biology and Conservation of Forest Birds* (A.W. Diamond and D.N. Nettleship, eds.). Society of Canadian Ornithologists Special Publication No. 1, Fredericton, NB.
- Bradley, R.W. 2002. Breeding Ecology of Radio-Marked Marbled Murrelets (*Brachyramphus marmoratus*) in Desolation Sound, British Columbia. MS Thesis. Simon Fraser University, Burnaby, BC.
- Brown, P.W., and L.H. Fredrickson. 1997. White-winged Scoter (*Melanitta fusca*) In *The Birds of North America*, No.274 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Burger, A.E. 2002. Conservation assessment of Marbled Murrelets in British Columbia: a review of the biology, populations, habitat associations, and conservation. Technical Report Series No. 387. Canadian Wildlife Service, Pacific and Yukon Region, British Columbia.
- Cam, E., L.W. Loughheed, R.W. Bradley, and F. Cooke. 2003. Demographic assessment of a Marbled Murrelet population from capture-recapture data. *Conservation Biology* 17 (4): 1118-1126.
- Conroy, C.J., V. Bahn, M.S. Rodway, L. Ainsworth, and D. Newsom. 2002. Estimating nest densities for Marbled Murrelets in three habitat suitability categories in the Ursus Valley, Clayoquot Sound. Pages 121-137 in *Multi-scale Studies of Populations, Distribution and Habitat Associations of Marbled Murrelets in Clayoquot Sound, British Columbia* (A.E. Burger and T.A. Chatwin, eds.). Ministry of Water, Land and Air Protection, Victoria, BC.
- Cooper, J.M. 1994. Least Sandpiper (*Calidris minutilla*) In *The Birds of North America*, No. 115 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Cullen, S.A. 2002. Using Radar to Monitor Populations and Assess Habitat Associations of Marbled Murrelets within the Sunshine Coast Forest District. Report to British Columbia Ministry of Water, Land and Air Pollution. March 2002. 25pp.
- De Santo, T.L., and S.K. Nelson. 1995. Comparative reproductive ecology of auks (family alcidae) with emphasis on the marbled murrelet. Pages 33-47 in R.C. John, G.L. Hunt, M.G. Raphael, J.F. Piatt, eds., *Ecology and Conservation of the Marbled Murrelet*. General Technical Report PSW-GTR-152. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.

- Evers, D.C. 2004. Status assessment and conservation plan for the Common Loon (*Gavia immer*) in North America. U.S. Fish and Wildlife Service, Hadley, Massachusetts. 94 pp.
- Fjeldsa, J. 1973. Territory and the regulation of population density and recruitment in the horned grebe *Podiceps auritus arcticus* Boje, 1822. Vidensk. Meddr dansk naturh Foren. 136:117-189.
- Ford, R.G., G.K. Himes-Boor, and J.C. Ward. 2001. Seabird mortality resulting from the *M/V New Carissa* oil spill incident: February and March 1999. Final report to the natural resource trustees. May 14, 2001. 47pp. plus Appendices
- Freeman, A.M. III. 1993. *The Measurement of Environmental and Resource Values: Theory and Methods*. (Resources for the Future, Washington, DC).
- Gaston, A.J., and S.B. Dechesne. 1996. Rhinoceros Auklet (*Cerorhinca monocerata*) *In* The Birds of North America, No.212 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Gratto-Trevor, C.L. 1992. Semipalmated Sandpiper (*Calidris pusilla*) *In* The Birds of North America, No. 6 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Hatch, J.J., and D.V. Weseloh. 1999. Double-crested Cormorant (*Phalacrocorax auritus*) *In* The Birds of North America, No.441 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Hatch, S.A. 1987. Adult survival and productivity of Northern Fulmars in Alaska. *The Condor* 89:685-696.
- Hatch, S.A., and D.N. Nettleship. 1998. Northern Fulmar (*Fulmarus glacialis*) *In* The Birds of North America, No.361 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Hobson, K.A. 1997. Pelagic Cormorant (*Phalacrocorax pelagicus*) *In* The Birds of North America, No.282 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Hudson, P.J. 1985. Population parameters for the Atlantic alcidae. pages 233-261 *in* The Atlantic Alcidae (D.N. Nettleship and T.R. Birkhead, eds.). Academic Press. New York, New York.
- Huntington, C.E., R.G. Butler, and R.A. Mauck. 1996. Leach's Storm-Petrel (*Oceanodroma leucorhoa*) *In* The Birds of North America, No.233 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Ivey, G. 2003. Draft Conservation Assessment and Management Plan for Breeding Western and Clark's Grebes in California. December 2003. 83pp.

- Johnsgard, P.A. 1987. Diving Birds of North America. University of Nebraska Press. Lincoln, Nebraska.
- Jones, C. A. and K. A. Pease. 1997. "Restoration-based compensation measures in natural resource liability statutes," *Contemporary Economic Policy* 15, 4, October, pp. 111-123.
- Lee, D.S., and J.C. Haney. 1996. Manx Shearwater (*Puffinus puffinus*) In The Birds of North America, No.257 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Lee, K.E., and W.J. Sydeman. 2004. Age-dependant and annual variation in demographic parameters of Cassin's Auklets (*Ptychoramphus aleuticus*) at Southeast Farallon Island, California; ocean climate cycle implications for population dynamics. In preparation.
- Lowe, Roy W., D. Pitkin 2004. Estimated bird use for potential seabird and shorebird restoration projects for the *M/V New Carissa* NRDA. Memo to Trustees, October 7, 2004.
- MacWhirter, B., P. Austin-Smith, and D. Kroodsmas. 2002. Sanderling (*Calidris alba*) In The Birds of North America, No. 653 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Manley, I.A. 1999. Behavior and Habitat Selection of Marbled Murrelets Nesting on the Sunshine Coast. M.S. Thesis, Simon Fraser University, Burnaby, BC.
- Manley, I.A. and S.K. Nelson. 1999. Habitat characteristics associated with nest success and predation at Marbled Murrelet tree nests (Abstract). *Pacific Seabirds* 26:40.
- Manuwal, D.A., and H.R. Carter. 2001. Natural history of the common murre (*Uria aalge californica*). Pages 1-32 in D.A. Manuwal, H.R. Carter, T.S. Zimmerman, and D.L. Orthmeyer, eds.,. *Biology and Conservation of the Common Murre in California, Oregon, Washington and British Columbia. Volume 1: Natural History and Population Trends*. U.S. Geological Survey, Biological Resources Division, Information and Technology Report USGS/BRD/ITR2000-0012, Washington, DC.
- Manuwal, D.A., and A.C. Thoresen. 1993. Cassin's Auklet (*Ptychoramphus aleuticus*) In The Birds of North America, No.50 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- McIntyre, J.W., and J.F. Barr 1997. Common Loon (*Gavia immer*) In The Birds of North America, No.313 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, D.C.
- McIver, W.R., H.R. Carter, R. Golightly, D. Welsh, T.W. Keeney, G.J. McChesney, J. Gerard, D.L. Whitworth, J.R. Gilardi. 2001. Reproductive success of the Ashy Storm-petrel at Santa Cruz Island, California, 1995-1998. *Pacific Seabirds* 28(1):43-44.

- Nelson, S.K. 2005. Surveys for Marbled Murrelets in Potential Habitat in the Oregon Coast Range, 2001. Oregon Cooperative Fish and Wildlife Research Unit, Oregon State University, Corvallis, Oregon. 31 p. plus Appendices.
- Nelson, S.K. 2003. Surveys for Marbled Murrelets in Potential Habitat in the Oregon Coast Range, 2001. Report prepared for the Trustee Council of the New Carissa Oil Spill and the U.S. Fish and Wildlife Service. 31 pp+ Appendices.
- Nelson, S.K. 1997. Marbled Murrelet (*Brachyramphus marmoratus*). In A. Poole and F. Gill eds., The Birds of North America, No. 276. The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Nelson, S.K. and T.E. Hamer. 1995. Nest success and the effects of predation on Marbled Murrelets. Pages 89-97 in Ecology and Conservation of the Marbled Murrelet (C.J. Ralph, G.L. Hunt, Jr., M.G. Raphael and J.F. Piatt, eds.). Gen. Tech. Rep. PSW-GTR-152, Pacific Southwest Research Station, Forest Service, U.S. Dept. of Agriculture, Albany, CA.
- Nevins, H.M., and H.R. Carter. 2003. Age and sex of common murre *Uria aalge* recovered during the 1997-98 Point Reyes tarball incidents in central California. Marine Ornithology 31:51-58.
- Nur, N., G.W. Page, and L.E. Stenzel. 1999. "Appendix D: Population viability analysis for Pacific coast snowy plovers" in Western Snowy Plover (*Charadrius alexandrinus nivosus*) Pacific coast population, draft recovery plan (May 2001) U S Fish and Wildlife Service, Region 1.
- Nur, N., R.G. Ford, and D.G. Ainley. 1994. Final Report: Computer Model of Farallon Seabird Populations. Point Reyes Bird Observatory.
- NOAA. 1999. *Discounting and the Treatment of Uncertainty in Natural Resource Damage Assessment*. Technical Paper 99-1 (Silver Spring, MD: NOAA).
- Oring, L.W, E.M. Gray, and J.M. Reed. 1997. Spotted Sandpiper (*Actitis macularia*) In The Birds of North America, No. 289 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- OSPR General Bird REA. 2002. Office of Spill Prevention and Response. California Department of Fish and Game. Sacramento, California.
- Parker, N., Cam, E., Lank, D.E., and Cook, F. 2003. Post-fledging survival of Marbled Murrelets *Brachyramphus marmoratus* estimated with radio-marked juveniles in Desolation Sound, British Columbia. Marine Ornithology (In review).
- Peacock, B. 1999. "Habitat equivalency analysis: conceptual background and hypothetical example" (National Park Service, Washington, DC, April).

- Penniman, T.M., M.C. Coulter, L.B Spear, and R.J. Boekelheide. 1990. Western Gull. pages 218-244 in Seabirds of the Farallon Islands (D.G. Ainley and R.J. Boekelheide, eds.). Stanford University Press. Stanford, California.
- Perry, M.Z., S.R. Beissinger, S.H. Newman, E.H. Burkett, and T.D. Williams. 2004. Applying the Declining Population Paradigm: Diagnosing Causes of Poor Reproduction in the Marbled Murrelet. *Conservation Biology*. 18:1088-1098.
- Pierotti, R.J., and C.A. Annett. 1995. Western Gull (*Larus occidentalis*) In The Birds of North America, No. 174 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Russell, R.W. 1999. Comparative demography and life history tactics of seabirds: implications for conservation and marine monitoring. *American Fisheries Society Symposium* 23:51-76.
- Savard, J.P.L, D. Bordage, and A. Reed. 1998. Surf Scoter (*Melanitta perspicillata*) In The Birds of North America, No.363 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Sealy, S.G. 1975. Aspects of the breeding biology of the Marbled Murrelet in British Columbia. *Bird-Banding* 46:141-154.
- Senner, S.E., and B.J. McCaffery. 1997. Surfbird (*Aphriza virgata*) In The Birds of North America, No. 266 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Sperduto, Hebert, Donlan, and Thompson. 1999. "Injury Quantification and Restoration Scaling for Marine Birds Killed as a Result of the North Cape Oil Spill," (US Fish & Wildlife Service and Industrial Economics, MA, March).
- Stedman, S.J. 2000. Horned Grebe (*Podiceps auritus*) In The Birds of North America, No.505 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Stern, M.A., D.J. Lauten, K.A. Castelein, K.J.Popper and J.A. Fukuda (2000), "Impact assessment of oil spilled from the New Carissa on the Western Snowy Plover along the Oregon coast," in unpublished report by the Oregon Natural Heritage Program and The Nature Conservancy to TMM Co., LTD; Coos Bay District Bureau of Land Management; Oregon Dept. Fish and Wildlife; Dunes National Recreation Area; U.S. Fish and Wildlife Service. 32pp.
- Storer, R.W., and G.L. Nuechterlein. 1992. Western Grebe (*Aechmophorus occidentalis*) In The Birds of North America, No.26 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.

- Stout, B.E., and G.L. Nuechterlein. 1999. Red-necked Grebe (*Podiceps grisegena*) In The Birds of North America, No.465 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Strong, C.S. 2003. Marbled Murrelet abundance and reproductive indices in Oregon during 2002. Unpubl. report to the Oregon Dept. of Fish & Wildlife, Wildlife Diversity Program, Portland, OR. 14pp.
- Unsworth, R. and R. Bishop. 1994. "Assessing natural resource damages using environmental annuities," *Ecological Economics* 11, pp. 35-41.
- Verbeek, N.A.M. 1993. Glaucous-winged Gull (*Larus glaucescens*) In The Birds of North America, No. 59 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Wallace, A.H., and G.E. Wallace. 1998. Brandt's Cormorant (*Phalacrocorax penicillatus*) In The Birds of North America, No.362 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Warham, J. 1995. The Behavior, Population Biology and Physiology of the Petrels. Academic Press. New York, New York.
- Warnock, N.D., and R.E. Gill. 1996. Dunlin (*Calidris alpina*) In The Birds of North America, No. 203 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Whittow, G.C. 1997. Wedge-tailed Shearwater (*Puffinus pacificus*) In The Birds of North America, No.305 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Wilson, W.H. 1994. Western Sandpiper (*Calidris mauri*) In The Birds of North America, No. 90 (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and The American Ornithologists' Union, Washington, DC.
- Zafonte, M. 2002. Demographic parameters for selected species (draft). Office of Spill Prevention and Response. California Department of Fish and Game. Sacramento, California.