

Errata

Page	Correction	Date Error Found
12-14	in Action 161, Conservation Reserve Enhancement Program Lower Columbia River Estuary Management Program	01/09/00
9-180	9.6.5.5 ESA Section 10 Permit Authorization for Research/Monitoring Pursuant to the RPA	01/29/00
9-180	To streamline the permitting process and avoid delaying critical research, monitoring, and evaluation measures, this biological opinion considers the effects of the activities that would be funded and will fulfill each individual Action Agency's Section 7 consultation requirement.	01/29/00
9-180	As new study plans are developed in accordance with this RPA, NMFS anticipates the need for additional Section 10 research permits.	01/29/00
9-180	While some research/monitoring activities associated with the RPA cannot be determined in sufficient detail until annual plans are prepared and approved, the following Appendix H describes specific research activities that can be anticipated now, based on the elements of the RPA described in Section 9.6.1.	01/29/00
10-13	10.5.3 Terms and Conditions Related to FCRPS Research Projects Described in Section 9.6.5.3- 9.6.5.5	01/29/00
Section 14	Collis et al. 1999 should have been shown as Draft 1998 annual report.	01/18/01
Section 14	Document cited in Section 12 is missing from References: PFMC (Pacific Fishery Management Council). 1999. Identification and description of essential fish habitat, adverse impacts, and recommended conservation measures for salmon. Amendment 14 to the Pacific Coast Salmon Plan. PFMC, Portland, Oregon.	02/07/01
Section 14	ASCE (American Society of Civil Engineers). 1995. Guidelines for design of intakes for hydroelectric plants. Committee on Intakes of the Energy Division, ASCE, Reston, Virginia.	02/07/01
Section 14	Burgner, R.L. 1991. The life history of sockeye salmon (<i>Onchynchus nerka</i>). In C. Groot and L. Margolis, editors. Life History of Pacific salmon life histories. University of British Columbia Press, Vancouver.	02/07/01
Section 14	NMFS (National Marine Fisheries Service). 2000a. Letter E-mail re: draft biological opinion, to D. Ponganis (Corps), R. McKown (BOR), T. Lamb (BPA), F. Olney (USFWS), M.L. Soscia (EPA), F. Disheroon (Dept. of Justice), and D. Mecham (Dept. of Interior), from B. Brown, NMFS, Hydro Program, Portland, Oregon. May 17.	02/07/01

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Section 14	Keefer, M.L. and T.C. Bjornn, C. Peery, M. Jepson, R. Ringe, K. Tolotti, and L. Stuehrenberg. 1999. Additional Evaluations of adult salmon and steelhead migrations past dams and through reservoirs in the Columbia River basin. <i>In</i> U.S. Army Corps of Engineers. Anadromous fish evaluation program: 1999 annual research review. Walla Walla District, Walla Walla, Washington.	02/07/01
Section 14	Schrank, B. P., and E. M. Dawley, and B. Ryan. 1997. Evaluation of the effects of dissolved gas supersaturation on fish and invertebrates in Priest Rapids Reservoir, and downstream from Bonneville and Ice Harbor Dams, 1995. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, Washington, to U.S. Army Corps of Engineers, North Pacific Division, Portland, Oregon.	02/07/01
Appendix C	Bugert, B. 1997. Biological Assessment -- Mid-Columbia mainstem conservation plan--hatchery program. Draft. October 3.	02/08/01
Section 14	Fish Passage Center. 2000. Adult salmon passage counts at Priest Rapids Dam. FPC (fish Passage Center) Home. < http://www.fpc.org/adlthist/prdadult.htm > December 16.	02/08/01
Section 14	Bottom, D., S. Simenstad, A. Baptista, D. Jay, J. Burke, K. Jones, E. Casillas, K. Jones, and M. Schiewe. 2000. Salmon at River's End: The role of the estuary in the decline and recovery of Columbia River salmon. Estuarine influence on the recovery and resilience of Columbia River salmonids. NMFS internal draft report. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, Washington, to Bonneville Power Administration, Portland, Oregon.	02/08/01
Appendix C	McClure, M., B. Sanderson, E. Holmes, C. Jordan, P. Kareiva, and P. Levin. 2000b. Revised Appendix B of standardized quantitative analysis of the risks faced by salmonids in the Columbia River basin. National Marine Fisheries Service, Northwest Fisheries Science Center, Seattle, Washington. September.	02/08/01
Appendix C C.2.1.1.	The Snake River (SR) spring/summer chinook salmon ESU, listed as threatened on April 22, 1992 (67 57 FR 14653),...	02/08/01
C.2.1.2	The SR fall chinook salmon ESU, listed as threatened on April 22, 1992 (67 57 FR 14653),...	02/08/01
C.2.1.3	Critical habitat was designated for UCR spring-run chinook salmon on December 28, 1993 (58 FR 68543) February 16, 2000 (65 FR 7764).	02/08/01
C.2.1.4	Critical habitat was designated for UWR chinook salmon on February 16, 2000 (58 FR 68543) (65 FR 7764).	02/08/01

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Section 14	ODFW (Oregon Department of Fish and Wildlife) and WDFW (Washington Department of Fish and Wildlife). 1998. Status report, Columbia River fish runs and fisheries, 1938-1997. ODFW, Portland, and WDFW, Olympia Vancouver .	02/08/01
C.4.1.3	4th paragraph in this section, second to last sentence: At the low end, assuming that hatchery fish spawning in the wild have not reproduced (i.e., hatchery effectiveness = 0), the risk of absolute extinction within 100 years ranges from 0.97 for the Methow River to 1.00 for the Methow Wenatchee and Entiat rivers (Table B-5 in McClure et al. 2000b).	02/08/01
4.1.2.3	Spawning, which takes place in late fall, formerly occured in the mainstem and in the lower parts of major tributaries (NWPPC 1989; Bugert et al. 1990). As a result of the dams, primary spawning areas are limited to the free-flowing section between Lower Granite and Hells Canyon dams.	03/19/01
C.4.2.3	Replace with new C.4.2.3 Middle Columbia River Steelhead	03/20/01
1.2.1	Any direct take of UCR spring chinook salmon, UCR steelhead, and MCR steelhead for the purposes of the planned transport experiment from McNary Dam will be addressed in a separate-ESA Section 10 permit. is authorized as research Action 2003 in Appendix H.	04/05/01