

Comparative maturation schedules of two Columbia River sockeye salmon *Oncorhynchus nerka* populations

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Supplement. Review of data on wild sockeye salmon life history transitions

Table S1. *Oncorhynchus nerka*. Sources of historical and recent data on Okanagan River and Redfish Lake sockeye salmon life history transitions

Number	Author(s)	Year	Title	Source	Information contained
1	Allen, R.L., and T.K. Meekin	1980	Columbia River sockeye salmon study, 1971-1974	Progress report 120, State of Washington Department of Fisheries	Okanagan River age and size at maturation
2	Anas, R.E., and J.R. Gauley	1956	Blueback salmon (<i>Oncorhynchus nerka</i>) age and length at seaward migration past Bonneville Dam	Special scientific report-- fisheries No. 185, U. S. Fish and Wildlife Service	Okanagan River smolt age
3	Bjornn, T.C., D.R. Craddock, and D.R. Corley	1968	Migration and survival of Redfish Lake, Idaho, sockeye salmon, <i>Oncorhynchus nerka</i>	Transactions of the American Fisheries Society 97: 360-373	Redfish Lake smolt age and size; Redfish lake age and size at maturation
4	Chapman, D., C. Peven, A. Giorgi, T. Hillman, F.M. Utter, M. Hill, J. Stevenson, and M. Miller	1995	Status of sockeye salmon in the mid-Columbia region	Don Chapman Consultants, Inc., Boise, ID	Okanagan River smolt age and size; Okanagan River age and size at maturation
5	Fryer, J.K.	1995	Columbia basin sockeye salmon: causes of their past decline, factors	PhD, School of Fisheries, University of Washington,	Okanagan River age and size at maturation

			contributing to their present low abundance, and the future outlook	Seattle, WA	
6	Fryer, J.K.	2004	Identification of Columbia Basin sockeye salmon stocks in 2003	Technical report 04-1, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
7	Fryer, J.K.	2005	Identification of Columbia Basin sockeye salmon stocks in 2004	Technical report 05-2, Columbia River Inter-Tribal Fish Commission, Portland, OR.	Okanagan River age and size at maturation
8	Fryer, J.K.	2006	Identification of Columbia Basin sockeye salmon stocks in 2005	Technical report 06-4, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
9	Fryer, J.K.	2007	Identification of Columbia Basin sockeye salmon stocks in 2006	Technical report 07-03, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
10	Fryer, J.K.	2008	Use of PIT tags to determine upstream migration timing and survival of Columbia Basin sockeye salmon in 2007	Technical report 08-02, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
11	Fryer, J.K.	2009	Use of PIT tags to determine upstream migratory timing and survival of Columbia Basin sockeye salmon in 2008	Technical report 09-03, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
12	Fryer, J.K., and M. Schwartzberg	1991	Identification of Columbia Basin sockeye salmon stocks based on scale pattern analyses, 1990	Technical report 91-2, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
13	Fryer, J.K., and M. Schwartzberg	1993	Identification of Columbia Basin sockeye salmon stocks based on scale pattern analyses in 1992	Technical report 93-2, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
14	Fryer, J.K., and M. Schwartzberg	1994	Identification of Columbia Basin sockeye salmon stocks based on scale pattern analyses in 1993	Technical report 94-2, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
15	Fryer, J.K., and D.A. Kelsey	2001	Identification of Columbia Basin sockeye salmon stocks based on scale pattern analyses in 2000	Technical report 01-2, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
16	Fryer, J.K., and D.A. Kelsey	2002	Identification of Columbia Basin sockeye salmon stocks based on scale pattern analyses in 2001	Technical report 02-2, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
17	Fryer, J.K., and D.A. Kelsey	2003	Identification of Columbia Basin sockeye salmon stocks based on scale pattern analyses in 2002	Technical report 03-2, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
18	Fryer, J.K., C.E. Pearson, and M.	1992	Identification of Columbia Basin	Technical report 92-2, Columbia	Okanagan River age and

	Schwartzberg		sockeye salmon stocks based on scale pattern analyses in 1991	River Inter-Tribal Fish Commission, Portland, OR	size at maturation
19	Gustafson, R.G., T.C. Wainwright, G.A. Winans, F.W. Waknitz, L.T. Parker, and R.S. Waples	1997	Status review of sockeye salmon from Washington and Oregon	NOAA Technical Memorandum NMFS-NWFSC-33, National Oceanic and Atmospheric Administration, Seattle, WA	Okanagan River smolt age
20	Hebdon, J., M. Elmer, and P. Kline	2000	Snake River sockeye salmon captive broodstock program research element: annual progress report 1999	Bonneville Power Administration, Portland, OR.	Redfish Lake smolt age and size
21	Hebdon, J., J. Castillo, C. Willard, and P. Kline	2003	Snake River sockeye salmon captive broodstock program; research element: annual report 2001	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
22	Hebdon, J.L., J. Castillo, and P. Kline	2002	Snake River sockeye salmon captive broodstock program research element: annual progress report 2000	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
23	Hyatt, K.D., and D.P. Rankin	1999	A habitat based evaluation of Okanagan sockeye salmon escapement objectives	Research Document 99/191, Fisheries and Oceans Canada, Ottawa	Okanagan River smolt age and size
24	Johnson, K.A.	1995	Research and recovery of Snake River sockeye salmon: annual report for April 1993-1994	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
25	Johnson, K.A., and J.J. Pravecek	1996	Research and recovery of Snake River sockeye salmon: annual report for April 1994-April 1995	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
26	Kline, P., and J.A. Lamansky Jr.	1997	Research and recovery of Snake River sockeye salmon: annual progress report April 1, 1995-April 1, 1996	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
27	Peterson, M., B. Moore, K. Plaster, and P. Kline	2007	Snake River sockeye salmon captive broodstock program; research element: annual report 2006	Idaho Department of Fish and Game, Boise, ID	Redfish Lake smolt age and size
28	Peterson, M., K. Plaster, L. Redfield, J. Heindel, and P. Kline	2008	Snake River sockeye salmon captive broodstock program; research element: annual report 2007	Idaho Department of Fish and Game, Boise, ID	Redfish Lake smolt age and size
29	Plaster, K., M. Peterson, D. Baker, J. Heindel, J. Redding, C. Willard, and P.	2006	Snake River sockeye salmon captive broodstock program; research element: annual report	Idaho Department of Fish and Game, Boise, ID	Redfish Lake smolt age and size

	Kline		2005		
30	Schwartzberg, M., and J.K. Fryer	1989	Identification of Columbia Basin sockeye salmon stocks based on scale pattern analyses, 1988	Technical report 89-2, Columbia River Inter-Tribal Fish Commission, Portland, OR	Okanagan River age and size at maturation
31	Willard, C., K. Plaster, and J. Castillo	2005	Snake River sockeye salmon captive broodstock program; research element: annual report 2003	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
32	Willard, C., J. Hebdon, J. Castillo, J. Gable, and P. Kline	2004	Snake River sockeye salmon captive broodstock program; research element: annual report 2002	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
33	Willard, C., M. Peterson, K. Plaster, J. Castillo, D. Baker, J. Heindel, J. Redding, and P. Kline	2006	Snake River sockeye salmon captive broodstock program; research element: annual report 2004	Bonneville Power Administration, Portland, OR	Redfish Lake smolt age and size
34	Wright, H., K. Long, D. McQueen, K.D. Hyatt, D.P. Rainkin, N. Audy, L. Weins, M. Walsh, G. Traxler, S. Wolski, S. Lawrence, and R. Benson	2007	Experimental re-introduction of sockeye salmon (<i>Oncorhynchus nerka</i>) into Skaha Lake, 2005 brood year report, year 2 of 12	Okanagan Nation Alliance, Westbank, BC	Okanagan River smolt age and size
35	Wright, H., K. Long, D. McQueen, K.D. Hyatt, D.P. Rainkin, M. Walsh, G. Traxler, S. Wolski, S. Lawrence, J. Tamblyn, L. Weins, E. Tonasket, and F. Joseph	2006	Experimental re-introduction of sockeye salmon (<i>Oncorhynchus nerka</i>) into Skaha Lake, 2005 brood year report, year 1 of 12	Okanagan Nation Alliance, Westbank, BC	Okanagan River smolt age and size
36	Fryer, J.K.		Unpublished data	Columbia River Inter-Tribal Fish Commission	Okanagan River age and size at maturation
37	Baker, D.		Unpublished data	Idaho Department of Fish and Game	Redfish Lake age and size at maturation