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Rev.

Estimates of Salmon Harvests and Hatchery Releases in
Washington, Oregon, California, and Idaho, 1993-1997

by

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Table 1. Estimated commercial salmon catch in Washington, Oregon, California, and Idaho by species and region, in thousands of fish, 1993-1996 and preliminary 1997.

Region	Year	All Species	Sockeye	Pink	Chum	Coho	Chinook	Steelhead
Washington	1993	6,558.5	2,727.6	2,094.6	1,153.8	327.8	211.4	43.5
	1994	3,845.3	1,841.0	0.2	1,315.5	492.5	157.0	39.0
	1995	4,547.8	413.8	2,742.8	745.7	462.8	148.8	33.9
	1996	1,642.0	334.0	0.1	735.4	350.8	183.2	38.6
	1997	4,030.2	1,369.6	1,881.6	417.4	170.8	161.5	29.2
Oregon	1993	161.7	0.0	0.0	0.0	28.7	117.2	15.8
	1994	93.2	0.0	0.0	0.0	62.8	21.5	8.9
	1995	266.0	0.0	0.1	0.0	22.7	234.7	8.6
	1996	229.3	0.0	0.0	0.0	26.5	201.4	1.4
	1997	188.0	0.0	0.0	0.0	19.2	167.5	1.3
California	1993	280.0	0.0	0.0	0.0	0.0	280.0	0.0
	1994	295.8	0.0	0.0	0.0	0.0	295.8	0.0
	1995	679.6	0.0	0.0	0.0	0.0	679.6	0.0
	1996	380.9	0.0	0.0	0.0	0.0	380.9	0.0
	1997	487.5	0.0	0.0	0.0	0.0	487.5	0.0
Idaho	1993	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1994	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1995	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1996	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1997	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 2. Estimated commercial salmon catch in Washington, Oregon, California, and Idaho by species and region, in tonnes (round weight), 1993-1996 and preliminary 1997.

Region	Year	All Species	Sockeye	Pink	Chum	Coho	Chinook	Steelhead
Washington	1993	16,673.6	6,281.2	3,700.8	4,391.2	779.8	1,330.3	190.4
	1994	13,205.8	4,807.5	0.4	5,878.8	1,244.8	1,114.6	159.8
	1995	11,107.1	1,045.3	4,614.8	3,021.1	1,312.4	980.5	132.9
	1996	6,302.3	896.3	0.2	2,872.4	1,136.6	1,240.7	156.0
	1997	9,907.4	3,143.1	3,203.6	1,910.0	369.6	1,160.4	120.6
Oregon	1993	837.0	0.0	0.0	0.1	94.0	675.1	67.8
	1994	433.2	0.0	0.0	0.1	221.8	177.2	34.1
	1995	1,296.7	0.0	0.2	0.0	86.4	1,179.0	31.1
	1996	1,288.4	0.0	0.0	0.0	98.2	1,184.0	6.1
	1997	1,016.3	0.0	0.1	0.1	68.4	943.3	4.5
California	1993	1,325.0	0.0	0.0	0.0	0.0	1,325.0	0.0
	1994	1,618.9	0.0	0.0	0.0	0.0	1,618.9	0.0
	1995	3,465.9	0.0	0.0	0.0	0.0	3,465.9	0.0
	1996	2,146.9	0.0	0.0	0.0	0.0	2,146.9	0.0
	1997	2,736.1	0.0	0.0	0.0	0.8	2,735.4	0.0
Idaho	1993	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1994	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1995	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1996	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1997	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 3. Estimated average weight (kg) of salmon in commercial catches in Washington, Oregon, California, and Idaho by species and region, 1993-1996 and preliminary 1997.

Region		Sockeye	Pink	Chum	Coho	Chinook	Steelhead
Washington	1993	2.30	1.77	3.81	2.38	6.29	4.38
	1994	2.61	1.71	4.47	2.53	7.10	4.10
	1995	2.53	1.68	4.05	2.84	6.59	3.92
	1996	2.68	1.87	3.91	3.24	6.77	4.05
	1997	2.29	1.70	4.58	2.16	7.19	4.13
Oregon	1993	--	1.13	5.05	3.28	5.76	4.29
	1994	--	--	4.44	3.53	8.22	3.84
	1995	--	1.41	4.54	3.81	5.02	3.63
	1996	--	--	5.44	3.71	5.88	4.23
	1997	--	--	5.97	3.57	5.63	3.51
California	1993	--	--	--	--	4.73	--
	1994	--	--	--	--	5.47	--
	1995	--	--	--	--	5.10	--
	1996	--	--	--	--	5.64	--
	1997	--	--	--	--	5.61	--
Idaho	1993	--	--	--	--	--	--
	1994	--	--	--	--	--	--
	1995	--	--	--	--	--	--
	1996	--	--	--	--	--	--
	1997	--	--	--	--	--	--

Table 4. Estimated commercial salmon catch in Washington, Oregon, California, and Idaho by species, month, and region, in numbers of fish, 1996 and preliminary 1997.

ALL SPECIES - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	17,316	10,785	0	7	0	0	0	0
February	3,796	3,691	93	78	0	0	0	0
March	3,747	4,005	56	0	0	0	0	0
April	2,117	1,175	35	7,178	0	11,800	0	0
May	2,523	7,363	22,045	31,809	97,112	189,300	0	0
June	5,630	11,617	45,472	36,115	130,399	85,300	0	0
July	69,715	162,420	3,236	146	95,354	155,700	0	0
August	345,978	1,413,316	65,261	47,459	31,360	24,400	0	0
September	274,258	1,942,229	68,085	55,729	26,687	21,000	0	0
October	347,652	282,169	22,758	8,758	1	0	0	0
November	553,538	183,883	2,251	691	0	0	0	0
December	15,764	7,533	0	0	0	0	0	0
TOTAL	1,642,034	4,030,186	229,292	187,970	380,913	487,500	0	0
SOCKEYE - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	0	0	0	0	0	0	0	0
February	5	1	0	0	0	0	0	0
March	2	32	0	0	0	0	0	0
April	16	97	0	0	0	0	0	0
May	554	1,622	0	0	0	0	0	0
June	949	999	0	0	0	0	0	0
July	62,791	157,438	0	0	0	0	0	0
August	269,497	717,143	0	0	0	0	0	0
September	137	492,288	0	0	0	0	0	0
October	6	19	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
TOTAL	333,957	1,369,639	0	0	0	0	0	0

Table 4. Continued.

PINK - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	14	0	0	0	0
May	0	2	0	10	0	0	0	0
June	0	3	0	19	0	0	0	0
July	0	2,587	0	0	0	0	0	0
August	106	625,356	0	5	0	0	0	0
September	20	1,253,666	0	0	0	0	0	0
October	2	19	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
TOTAL	128	1,881,633	0	48	0	0	0	0
CHUM - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	6,171	1,986	0	0	0	0	0	0
February	0	1	0	0	0	0	0	0
March	50	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	0	4	0	0	0	0	0	0
June	3	1	0	0	0	0	0	0
July	7	56	0	0	0	0	0	0
August	120	32	0	0	0	0	0	0
September	2,708	660	1	2	0	0	0	0
October	177,860	228,886	4	17	0	0	0	0
November	543,144	181,796	0	0	0	0	0	0
December	5,365	3,971	0	0	0	0	0	0
TOTAL	735,428	417,393	5	19	0	0	0	0

Table 4. Continued.

COHO - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	60	7	0	0	0	0	0	0
February	24	0	0	0	0	0	0	0
March	1	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	52	4	0	0	0	0	0	0
June	108	0	8	0	0	0	0	0
July	3,013	419	0	0	0	0	0	0
August	21,787	14,008	319	169	1	0	0	0
September	163,802	107,671	18,583	16,728	0	0	0	0
October	154,020	47,254	7,557	2,268	0	0	0	0
November	7,400	1,445	0	0	0	0	0	0
December	531	27	0	0	0	0	0	0
TOTAL	350,798	170,835	26,467	19,165	1	0	0	0
CHINOOK - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	1,702	379	0	7	0	0	0	0
February	978	345	93	78	0	0	0	0
March	377	23	0	0	0	0	0	0
April	814	6	35	7,164	0	11,800	0	0
May	1,532	5,492	22,045	31,799	97,112	189,300	0	0
June	4,477	10,482	45,464	36,096	130,399	85,300	0	0
July	3,773	1,801	3,236	146	95,354	155,700	0	0
August	54,302	55,961	64,942	46,912	31,359	24,400	0	0
September	97,912	80,436	48,111	38,102	26,687	21,000	0	0
October	15,156	5,900	15,197	6,473	1	0	0	0
November	1,453	590	2,251	691	0	0	0	0
December	695	66	0	0	0	0	0	0
TOTAL	183,171	161,481	201,374	167,468	380,912	487,500	0	0

Table 4. Continued.

STEELHEAD - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	9,383	8,413	0	0	0	0	0	0
February	2,789	3,344	0	0	0	0	0	0
March	3,317	3,950	56	0	0	0	0	0
April	1,287	1,072	0	0	0	0	0	0
May	385	239	0	0	0	0	0	0
June	93	132	0	0	0	0	0	0
July	131	119	0	0	0	0	0	0
August	166	816	0	373	0	0	0	0
September	9,679	7,508	1,390	897	0	0	0	0
October	608	91	0	0	0	0	0	0
November	1,541	52	0	0	0	0	0	0
December	9,173	3,469	0	0	0	0	0	0
TOTAL	38,552	29,205	1,446	1,270	0	0	0	0

Table 5. Estimated commercial salmon catch in Washington, Oregon, California, and Idaho by species, month, and region, in kilograms, 1996 and preliminary 1997.

ALL SPECIES - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	68,888	46,222	0	64	0	1,070	0	0
February	15,194	16,782	722	720	0	0	0	0
March	16,948	18,766	217	0	0	325	0	0
April	7,733	4,935	195	44,255	0	66,028	0	0
May	7,664	32,487	113,329	186,541	514,491	1,008,809	0	0
June	20,970	46,107	267,639	207,368	690,157	461,012	0	0
July	171,955	384,362	21,225	908	586,538	897,631	0	0
August	1,156,154	3,121,093	385,216	236,855	190,834	159,965	0	0
September	1,226,221	4,160,106	376,703	281,632	164,908	137,186	0	0
October	1,424,793	1,211,776	110,041	52,233	10	4,082	0	0
November	2,121,316	830,322	13,064	5,741	0	9	0	0
December	64,492	34,392	0	0	0	0	0	0
TOTAL	6,302,328	9,907,350	1,288,351	1,016,317	2,146,938	2,736,117	0	0
SOCKEYE - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	0	0	0	0	0	0	0	0
February	23	2	0	0	0	0	0	0
March	4	73	0	0	0	0	0	0
April	29	211	0	0	0	0	0	0
May	1,002	3,514	0	0	0	0	0	0
June	1,870	1,976	0	0	0	0	0	0
July	146,678	364,979	0	0	0	0	0	0
August	746,281	1,651,802	0	0	0	0	0	0
September	427	1,120,533	0	0	0	0	0	0
October	8	38	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
TOTAL	896,322	3,143,128	0	0	0	0	0	0

Table 5. Continued.

PINK - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	22	0	0	0	0
May	0	2	0	10	0	4	0	0
June	0	4	0	23	0	0	0	0
July	0	5,340	0	0	0	0	0	0
August	188	1,044,740	0	7	0	0	0	0
September	45	2,153,504	0	0	0	0	0	0
October	6	37	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
TOTAL	239	3,203,627	0	62	0	4	0	0
CHUM - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	27,638	9,083	0	0	0	0	0	0
February	0	4	0	0	0	0	0	0
March	181	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	0	16	0	0	0	0	0	0
June	17	3	0	0	0	0	0	0
July	36	241	0	0	0	0	0	0
August	520	123	0	0	0	0	0	0
September	11,301	3,142	5	3	0	0	0	0
October	732,012	1,057,252	22	110	0	0	0	0
November	2,076,848	820,808	0	0	0	0	0	0
December	23,881	19,316	0	0	0	0	0	0
TOTAL	2,872,434	1,909,988	27	113	0	0	0	0

Table 5. Continued.

COHO - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	344	31	0	0	0	0	0	0
February	103	0	0	0	0	0	0	0
March	5	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	120	21	0	0	0	720	0	0
June	149	0	20	0	0	40	0	0
July	6,271	693	0	0	0	0	0	0
August	47,095	24,420	1,207	528	1	1	0	0
September	498,399	240,624	69,593	60,858	0	0	0	0
October	550,780	100,418	27,358	6,981	0	0	0	0
November	31,153	3,267	0	0	0	0	0	0
December	2,184	104	0	0	0	0	0	0
TOTAL	1,136,603	369,578	98,177	68,367	1	761	0	0
CHINOOK - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	4,234	812	0	64	0	1,070	0	0
February	2,382	854	722	720	0	0	0	0
March	949	149	0	0	0	325	0	0
April	2,119	36	195	44,233	0	66,028	0	0
May	5,018	27,926	113,329	186,531	514,491	1,008,085	0	0
June	18,549	43,617	267,620	207,345	690,157	460,972	0	0
July	18,431	12,694	21,225	908	586,538	897,631	0	0
August	361,442	397,314	384,010	235,022	190,833	159,964	0	0
September	679,284	617,259	301,211	217,608	164,908	137,186	0	0
October	139,229	53,598	82,661	45,142	10	4,082	0	0
November	7,369	6,033	13,064	5,741	0	9	0	0
December	1,736	154	0	0	0	0	0	0
TOTAL	1,240,742	1,160,446	1,184,036	943,315	2,146,937	2,735,352	0	0

Table 5. Continued.

STEELHEAD - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1996	1997	1996	1997	1996	1997	1996	1997
January	36,672	36,296	0	0	0	0	0	0
February	12,686	15,922	0	0	0	0	0	0
March	15,809	18,544	217	0	0	0	0	0
April	5,585	4,688	0	0	0	0	0	0
May	1,524	1,008	0	0	0	0	0	0
June	385	507	0	0	0	0	0	0
July	539	415	0	0	0	0	0	0
August	628	2,694	0	1,297	0	0	0	0
September	36,765	25,044	5,894	3,162	0	0	0	0
October	2,758	433	0	0	0	0	0	0
November	5,946	214	0	0	0	0	0	0
December	36,691	14,818	0	0	0	0	0	0
TOTAL	155,988	120,583	6,111	4,459	0	0	0	0

Table 6. Estimated subsistence salmon catch in Washington, Oregon, California, and Idaho by species and region, in numbers of fish, 1993-1996 and preliminary 1997.

Region	Year	All Species	Sockeye	Pink	Chum	Coho	Chinook	Steelhead
Washington ^a	1993	28,206	2,438	4,153	4,246	1,776	13,707	1,886
	1994	63,968	3,235	6	52,535	3,488	3,024	1,680
	1995	29,405	1,067	1,509	20,310	2,274	2,569	1,676
	1996	81,391	5,266	2	65,690	1,704	6,941	1,788
	1997	11,113	1,724	256	1,808	1,779	4,238	1,308
Oregon ^b	1993	21,205	5,013	0	0	35	10,215	5,942
	1994	15,514	472	0	0	324	7,916	6,802
	1995	26,115	445	0	0	113	13,062	12,495
	1996	39,694	1,414	0	0	42	24,756	13,482
	1997	53,295	2,046	0	0	138	32,352	18,759
California ^c	1993	9,811	0	0	0	0	9,811	0
	1994	11,848	0	0	0	0	11,848	0
	1995	19,944	0	0	0	0	19,944	0
	1996	20,512	0	0	0	0	20,512	0
	1997	18,300	0	0	0	0	18,300	0
Idaho	1993	1,162	0	0	0	0	1,162	0
	1994	108	0	0	0	0	108	0
	1995	2	0	0	0	0	2	0
	1996	40	0	0	0	0	40	0
	1997	3,470	0	0	0	0	3,470	0
^a	Includes ceremonial, subsistence, and take-home.							
^b	Includes all ceremonial and subsistence harvest of salmonids by Columbia River Treaty Tribes in the mainstem Columbia River between Bonneville and McNary dams.							
^c	Estimates are for the Indian subsistence harvest in the Yurok Indian Reservation							

Table 7. Estimated sport salmon harvest in Washington, Oregon, California, and Idaho by species and region, in numbers of fish, 1993-1996 and preliminary 1997.								
Region	Year	All Species	Sockeye	Pink	Chum	Coho	Chinook	Steelhead
Washington	1993	726,360	7,525	104,626	16,773	324,148	149,002	124,286
	1994	279,498	256	13	20,124	56,507	78,312	124,286
	1995	622,794	318	215,701	13,378	172,433	115,228	105,736
	1996	492,369	70,780	140	26,823	176,253	117,992	100,381
	1997	399,858	309	52,131	12,425	215,025	119,968	NA
Oregon	1993	306,689	0	31	0	81,171	130,505	94,982
	1994	162,865	0	0	0	5,433	86,392	71,040
	1995	224,231	0	0	0	19,062	130,073	75,096
	1996	230,586	0	0	0	15,976	134,810	79,800
	1997	NA						
California ^d	1993	214,193	0	0	0	29,800	143,908	40,485
	1994	290,163	0	0	0	500	236,837	52,826
	1995	440,025	0	0	0	900	407,701	31,424
	1996	180,640	0	0	0	600	180,040	NA
	1997	229,400	0	0	0	500	228,900	NA
Idaho	1993	35,128	0	0	0	0	423	34,705
	1994	21,435	0	0	0	0	0	21,435
	1995	22,431	0	0	0	0	0	22,431
	1996	26,238	0	0	0	0	0	26,238
	1997	NA						
NA	Not Available							
^d	Includes marine harvest of salmon, statewide freshwater harvest of steelhead, and freshwater harvest of chinook salmon in the Klamath/Trinity river systems only.							

Table 8. Estimated hatchery releases of salmon in Washington, Oregon, California, and Idaho by species and region, in numbers of fish, 1993-1996 and preliminary 1997.

Region	Year	All Species	Sockeye	Pink	Chum	Coho	Chinook	Steelhead
Washington ^e	1993	276,625,168	3,492,161	0	59,773,153	63,221,669	139,149,575	10,988,610
Washington	1994	280,018,504	8,614,445	3,482,400	59,997,531	56,408,041	141,729,134	9,786,953
Washington	1995	302,357,381	16,302,522	100,000	59,141,900	56,977,877	159,257,306	10,577,776
Washington	1996	279,470,468	5,772,030	4,591,440	58,651,021	58,579,720	142,068,583	9,807,674
Washington	1997	253,935,917	14,470,295	0	42,048,963	44,015,354	144,633,760	8,767,545
Oregon ^f	1993	24,335,013	0	0	0	4,541,541	17,344,784	2,448,688
Oregon	1994	70,276,234	0	0	0	14,923,950	48,750,284	6,602,000
Oregon	1995	80,538,325	0	0	0	13,135,609	60,585,263	6,817,453
Oregon	1996	76,215,096	20,948	0	0	13,491,138	56,202,975	6,500,035
Oregon	1997	53,480,574	0	0	0	10,266,305	37,024,914	6,189,355
California ^g	1993	55,361,097	0	0	0	805,236	48,967,178	5,588,683
California	1994	67,494,675	0	0	0	721,598	60,369,324	6,403,753
California	1995	66,774,097	0	0	0	847,362	60,149,213	5,777,522
California	1996	64,539,035	0	0	0	217,682	59,004,254	5,317,099
California	1997	54,638,391	0	0	0	785,608	50,116,721	3,736,062
Idaho ^h	1993	12,699,610	0	0	0	0	4,925,908	7,773,702
Idaho	1994	15,852,394	14,119	0	0	0	7,772,342	8,065,933
Idaho	1995	17,093,620	95,438	0	0	630,312	7,699,435	8,668,435
Idaho	1996	10,857,327	0	0	0	0	1,909,945	8,947,382
Idaho	1997	5,816,460	0	0	0	0	1,072,122	4,744,338

^e Includes Washington state, Regional Enhancement Group (REG), Western Washington Tribes, and US Fish and Wildlife Service facilities.

^f Includes Oregon state, Salmon and Trout Enhancement Program (STEP), and US Fish and Wildlife Service facilities.

^g Includes California state, California Cooperative Fish Rearing Program, and US Fish and Wildlife Service facilities.

^h Includes Idaho state, Nez Perce tribal, and US Fish and Wildlife Service facilities.