

NPAFC

Doc. 554

Rev. _____

Estimates of Salmon Harvests and Hatchery Releases in Washington, Oregon, California, and Idaho, 1993-2000

by

Aloysius J. Didier, Jr.
Pacific States Marine Fisheries Commission
45 SE 82nd Drive, Suite 100
Gladstone, OR 97027-2522
USA

Submitted to the

North Pacific Anadromous Fish Commission

by

THE UNITED STATES

October 2001

THIS PAPER MAY BE CITED IN THE FOLLOWING MANNER:

Didier, A.J. Jr. 2001. Estimates of salmon harvests and hatchery releases in Washington, Oregon, California, and Idaho, 1993-2000. (NPAFC Doc. 477) 14 p. Pacific States Marine Fisheries Commission, 45 SE 82nd Drive, Suite 100, Gladstone, OR 97027-2522, USA

Table 1. Estimates of commercial salmon catch in Washington, Oregon, California, and Idaho by species and region, in thousands of fish, 1993-1999 and preliminary 2000.

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	1,675.9	334.5	0.1	734.3	350.9	204.2	52.0
	1997	4,077.0	1,369.5	1,873.6	417.4	171.0	197.4	48.0
	1998	1,618.5	540.7	0.9	706.9	209.2	118.8	42.1
	1999	750.4	20.7	53.4	236.2	239.8	172.5	27.8
	2000	1,482.8	542.2	0.4	237.6	534.8	135.3	32.5
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	187.9	0.0	0.0	0.0	19.2	167.4	1.3
	1998	159.9	0.0	0.0	0.0	24.4	134.6	0.9
	1999	135.7	0.0	0.1	0.0	55.9	79.3	0.4
	2000	281.8	0.3	0.0	0.0	121.8	158.7	1.1
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	380.4	0.0	0.0	0.0	0.0	380.4	0.0
	1997	486.5	0.0	0.0	0.0	0.0	486.5	0.0
	1998	226.9	0.0	0.0	0.0	0.0	226.9	0.0
	1999	291.3	0.0	0.0	0.0	0.0	291.3	0.0
	2000	0.0	0.0	0.0	NA	NA	NA	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
	1998	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1999	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NA = Not Available

Table 2. Estimates of commercial salmon catch in Washington, Oregon, California, and Idaho by species and region, in tonnes (round weight), 1993-1999 and preliminary 2000.

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	6,542.7	897.4	0.1	2,864.6	1,136.9	1,439.9	203.9
	1997	10,266.4	3,142.7	3,203.7	1,910.2	370.1	1,451.2	188.5
	1998	6,126.3	1,467.2	1.5	2,948.1	672.1	864.3	173.1
	1999	3,201.8	55.4	91.2	1,092.0	777.3	1,070.1	115.8
	2000	5,359.3	1,458.5	0.8	1,134.3	1,650.2	977.1	138.3
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	1,016.1	0.0	0.1	0.1	68.4	943.1	4.5
	1998	896.7	0.0	0.0	0.1	87.9	805.6	3.2
	1999	703.4	0.0	0.1	0.0	214.9	487.1	1.2
	2000	1,424.7	0.5	0.0	0.1	474.2	945.5	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	2,147.3	0.0	0.0	0.0	0.0	2,147.3	0.0
	1997	2,756.2	0.0	0.0	0.0	0.0	2,756.2	0.0
	1998	963.4	0.0	0.0	0.0	0.0	963.4	0.0
	1999	2,004.9	0.0	0.0	0.0	0.0	2,004.9	0.0
	2000	2,649.1	0.0	0.0	0.1	4.0	2,645.0	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
	1998	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1999	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	2000	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, 1993-1999 and preliminary 2000.

Region	Year	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	1.22	3.90	3.24	7.05	3.92
	1997	2.29	1.71	4.58	2.16	7.35	3.93
	1998	2.71	1.75	4.17	3.21	7.28	4.11
	1999	2.67	1.71	4.62	3.24	6.20	4.16
	2000	2.69	2.31	4.77	3.09	7.22	4.25
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
	1998	--	2.27	5.59	3.61	5.99	3.58
	1999	--	1.90	6.07	3.84	6.14	3.44
	2000	1.58	1.66	5.78	3.89	5.96	4.23
California	1993	--	--	--	--	4.73	--
	1994	--	--	--	--	5.47	--
	1995	--	--	--	--	5.10	--
	1996	--	--	--	--	5.65	--
	1997	--	--	--	--	5.67	--
	1998	--	--	--	--	4.25	--
	1999	--	--	--	--	6.88	--
	2000	--	--	NA	NA	NA	--
Idaho	1993	--	--	--	--	--	--
	1994	--	--	--	--	--	--
	1995	--	--	--	--	--	--
	1996	--	--	--	--	--	--
	1997	--	--	--	--	--	--
	1998	--	--	--	--	--	--
	1999	--	--	--	--	--	--
	2000	--	--	--	--	--	--

NA = Not Available

Table 4 Estimated commercial salmon catch in Washington, Oregon, California, and Idaho by species, month, and region, in numbers of fish, 1999 and preliminary 2000.

ALL SPECIES - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	9,179	6,600	0	2	0	0	0	0
February	2,617	2,585	14	325	0	0	0	0
March	2,151	2,672	4	53	31	0	0	0
April	732	411	1,066	3,763	3,248	0	0	0
May	7,462	12,017	7,259	10,096	30,817	0	0	0
June	22,866	5,955	27,380	10,283	128,293	0	0	0
July	22,964	165,207	5,323	21,986	78,084	0	0	0
August	113,912	469,330	21,376	67,116	32,280	0	0	0
September	203,623	337,229	44,368	104,493	18,101	0	0	0
October	191,684	405,336	27,547	61,946	399	0	0	0
November	160,251	59,686	1,291	1,355	0	0	0	0
December	12,932	15,819	43	430	0	0	0	0
TOTAL	750,373	1,482,847	135,671	281,848	291,253	0	0	0

SOCKEYE - NUMBERS OF FISH								
Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	26	0	0	0	0	0	0	0
February	0	2	0	0	0	0	0	0
March	4	0	0	0	0	0	0	0
April	2	0	0	0	0	0	0	0
May	47	0	0	0	0	0	0	0
June	26	182	0	306	0	0	0	0
July	7,623	157,771	0	0	0	0	0	0
August	12,927	384,247	0	0	0	0	0	0
September	60	1	0	0	0	0	0	0
October	0	1	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	8	0	0	0	0	0	0	0
TOTAL	20,723	542,204	0	306	0	0	0	0

Table 4, continued.

PINK - NUMBERS OF FISH

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
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	0	0	0	0	0
May	0	0	1	0	0	0	0	0
June	11	1	28	3	0	0	0	0
July	1,918	118	15	0	0	0	0	0
August	37,233	231	8	0	0	0	0	0
September	13,832	2	3	0	0	0	0	0
October	356	0	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	53,350	352	55	3	0	0	0	0

CHUM - NUMBERS OF FISH

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	65	173	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	0	0	0	0	0
May	20	0	0	0	0	0	0	0
June	5	0	1	0	0	0	0	0
July	5	8	0	0	0	0	0	0
August	78	73	0	0	0	0	0	0
September	150	4,955	0	1	0	0	0	0
October	79,059	172,458	7	15	0	0	0	0
November	152,616	52,425	0	0	0	0	0	0
December	4,177	7,497	0	0	0	0	0	0
TOTAL	236,175	237,589	8	16	0	0	0	0

Table 4, continued.

COHO – NUMBERS OF FISH

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	60	5	0	0	0	0	0	0
February	3	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	1	0	0	0	0	0	0	0
June	0	14	0	0	0	0	0	0
July	971	2,010	11	0	0	0	0	0
August	17,760	30,383	795	12,961	0	0	0	0
September	114,540	275,257	31,932	60,801	0	0	0	0
October	100,209	223,999	23,196	48,023	0	0	0	0
November	6,162	3,088	0	0	0	0	0	0
December	87	91	0	0	0	0	0	0
TOTAL	239,793	534,847	55,934	121,785	0	0	0	0

CHINOOK – NUMBERS OF FISH

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	204	35	0	2	0	NA	0	0
February	9	257	14	325	0	NA	0	0
March	27	23	4	53	31	NA	0	0
April	39	41	1,066	3,763	3,248	NA	0	0
May	7,153	11,905	7,258	10,088	30,817	NA	0	0
June	22,792	5,713	27,351	9,974	128,293	NA	0	0
July	12,399	5,252	5,297	21,986	78,084	NA	0	0
August	45,748	53,777	20,573	54,149	32,280	NA	0	0
September	71,517	49,645	12,130	42,648	18,101	NA	0	0
October	11,601	8,114	4,294	13,908	399	NA	0	0
November	1,023	360	1,291	1,355	0	0	0	0
December	20	184	43	430	0	0	0	0
TOTAL	172,532	135,306	79,321	158,681	291,253	0	0	0

NA = Not Available

Table 4, continued.

STEELHEAD - NUMBERS OF FISH

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	8,824	6,387	0	0	0	0	0	0
February	2,605	2,326	0	0	0	0	0	0
March	2,120	2,649	0	0	0	0	0	0
April	691	370	0	0	0	0	0	0
May	241	112	0	8	0	0	0	0
June	32	45	0	0	0	0	0	0
July	48	48	0	0	0	0	0	0
August	166	619	0	6	0	0	0	0
September	3,524	7,369	303	1,043	0	0	0	0
October	459	764	50	0	0	0	0	0
November	450	3,813	0	0	0	0	0	0
December	8,640	8,047	0	0	0	0	0	0
TOTAL	27,800	32,549	353	1,057	0	0	0	0

Table 5 Estimated commercial salmon catch in Washington, Oregon, California, and Idaho by species, month, and region, in kilograms, 1999 and preliminary 2000.

ALL SPECIES – KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	37,202	28,909	0	15	0	254	0	0
February	12,127	12,438	131	2,786	0	115	0	0
March	10,084	11,985	42	371	158	499	0	0
April	3,382	1,727	5,527	21,631	16,678	804	0	0
May	37,373	71,519	41,374	67,563	204,537	983,565	0	0
June	113,101	32,086	167,222	67,331	854,266	800,382	0	0
July	95,225	449,744	30,916	136,317	568,572	286,578	0	0
August	402,062	1,526,326	116,362	364,352	237,304	167,591	0	0
September	845,752	1,249,788	207,607	485,025	120,722	404,687	0	0
October	842,379	1,630,239	123,020	266,270	2,670	4,666	0	0
November	746,466	276,651	10,899	10,023	0	0	0	0
December	56,625	67,855	339	3,003	0	0	0	0
TOTAL	3,201,778	5,359,267	703,441	1,424,688	2,004,907	2,649,141	0	0

SOCKEYE - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	130	0	0	0	0	0	0	0
February	0	8	0	0	0	0	0	0
March	21	0	0	0	0	0	0	0
April	5	0	0	0	0	0	0	0
May	88	0	0	0	0	0	0	0
June	46	282	0	484	0	0	0	0
July	20,607	409,421	0	0	0	0	0	0
August	34,356	1,048,824	0	0	0	0	0	0
September	138	2	0	0	0	0	0	0
October	0	1	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	27	0	0	0	0	0	0	0
TOTAL	55,418	1,458,538	0	484	0	0	0	0

Table 5, continued.

PINK - KILOGRAMS

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
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	0	0	0	0	0
May	0	0	2	0	0	0	0	0
June	30	1	54	5	0	0	0	0
July	3,586	209	25	0	0	0	0	0
August	62,879	601	19	0	0	0	0	0
September	24,058	2	5	0	0	0	0	0
October	661	0	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	91,214	813	104	5	0	0	0	0

CHUM - KILOGRAMS

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	291	768	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	0	0	0	0	0
May	80	0	0	0	0	0	0	0
June	20	0	9	0	0	0	0	0
July	21	37	0	0	0	92	0	0
August	408	314	0	0	0	0	0	0
September	720	25,380	0	4	0	0	0	0
October	360,214	829,041	39	89	0	0	0	0
November	709,826	245,516	0	0	0	0	0	0
December	20,416	33,196	0	0	0	0	0	0
TOTAL	1,091,996	1,134,252	49	93	0	92	0	0

Table 5, continued.

COHO - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	293	25	0	0	0	0	0	0
February	17	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	5	0	0	0	0	2,326	0	0
June	0	33	0	0	0	1,693	0	0
July	2,246	4,088	29	0	0	0	0	0
August	47,130	82,755	2,888	40,786	0	0	0	0
September	320,297	815,220	122,025	239,774	0	21	0	0
October	380,867	735,265	89,992	193,629	0	0	0	0
November	26,047	12,374	0	0	0	0	0	0
December	410	450	0	0	0	0	0	0
TOTAL	777,312	1,650,210	214,934	474,189	0	4,040	0	0

CHINOOK - KILOGRAMS								
Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	444	100	0	15	0	254	0	0
February	32	1,643	131	2,786	0	115	0	0
March	78	267	42	371	158	499	0	0
April	109	161	5,527	21,631	16,678	804	0	0
May	36,087	71,063	41,373	67,537	204,537	981,239	0	0
June	112,869	31,618	167,159	66,842	854,266	798,689	0	0
July	68,582	35,816	30,862	136,317	568,572	286,486	0	0
August	256,704	391,635	113,456	323,543	237,304	167,591	0	0
September	487,337	379,275	84,540	240,830	120,722	404,666	0	0
October	98,841	62,499	32,810	72,552	2,670	4,666	0	0
November	8,735	2,523	10,899	10,023	0	0	0	0
December	253	516	339	3,003	0	0	0	0
TOTAL	1,070,071	977,116	487,139	945,450	2,004,907	2,645,009	0	0

Table 5, continued.

STEELHEAD - KILOGRAMS

Month	Washington		Oregon		California		Idaho	
	1999	2000	1999	2000	1999	2000	1999	2000
January	36,044	28,016	0	0	0	0	0	0
February	12,078	10,787	0	0	0	0	0	0
March	9,985	11,718	0	0	0	0	0	0
April	3,268	1,566	0	0	0	0	0	0
May	1,113	456	0	26	0	0	0	0
June	136	152	0	0	0	0	0	0
July	183	173	0	0	0	0	0	0
August	585	2,197	0	23	0	0	0	0
September	13,202	29,909	1,036	4,418	0	0	0	0
October	1,796	3,433	178	0	0	0	0	0
November	1,858	16,238	0	0	0	0	0	0
December	35,519	33,693	0	0	0	0	0	0
TOTAL	115,767	138,338	1,215	4,467	0	0	0	0

Table 6. Estimated subsistence salmon catch in Washington, Oregon, California, and Idaho by species and region, in numbers of fish, 1993-1999 and preliminary 2000.

Region		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	81,443	5,266	2	65,690	1,704	6,994	1,787
	1997	13,367	1,728	290	3,002	1,926	5,183	1,238
	1998	155,631	2,164	1	136,023	9,719	6,266	1,458
	^b 1999	39,998	138	722	19,879	5,417	13,178	664
	^b 2000	82,327	5,840	9	56,493	11,043	8,113	829
	Oregon	^c 1993	21,205	5,013	0	0	35	10,215
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
1998		32,785	425	0	0	1,314	19,152	11,894
^b 1999		10,404	704	0	0	380	1,400	7,920
^b 2000		5,647	2,765	0	0	0	224	2,658
California	^d 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	18,813	0	0	0	0	18,813	0
	1998	13,051	0	0	0	0	13,051	0
	1999	15,521	0	0	0	0	15,521	0
	2000	29,833	0	0	0	0	29,833	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	3,474	0	0	0	0	3,474	0
	1998	944	0	0	0	0	944	0
	1999	211	0	0	0	0	211	0
	2000	4,240	0	0	0	0	4,240	0

^a Includes ceremonial, subsistence, and take-home.

^b These data are incomplete. Some harvest statistics for the Columbia River and its tributaries are unavailable.

^c Includes all ceremonial and subsistence harvest of salmonids by Columbia River Treaty Tribes in the mainstem Columbia River between Bonneville and McNary dams.

^d 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, 1993-1999.

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	478,515	70,487	57	26,658	173,612	107,320	100,381
	1997	451,425	317	53,263	12,351	208,880	108,786	67,828
	1998	278,692	136	204	18,939	138,091	61,181	60,141
	1999	317,872	192	41,752	7,687	118,343	74,576	75,322
	2000	0	NA	NA	NA	NA	NA	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	194,908	0	0	0	20,128	91,783	82,997
	1998	153,023	0	0	0	12,215	77,469	63,339
	1999	151,905	0	0	0	25,311	87,021	39,573
	2000	0	0	0	0	NA	NA	NA
California ^a	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	217,623	0	0	0	600	179,278	37,745
	1997	236,985	0	0	0	0	236,985	NA
	1998	130,811	0	0	0	0	130,811	NA
	1999	94,656	0	0	0	0	94,656	NA
	2000	0	0	0	0	0	NA	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	36,327	0	0	0	0	3,460	32,867
	1998	26,279	0	0	0	0	271	26,008
	1999	31,841	0	0	0	0	0	31,841
	2000	0	0	0	0	0	NA	NA

^a Includes marine harvest of salmon, statewide freshwater harvest of steelhead, and freshwater harvest of chinook salmon in the Klamath/Trinity river systems only.
NA = Not Available

Table 8. Estimated hatchery releases of salmon in Washington, Oregon, California, and Idaho by species and region, in numbers of fish, 1993-1999 and preliminary 2000.

Region	Year	All Species	Sockeye	Pink	Chum	Coho	Chinook	Steelhead
Washington	^a 1993	292,947,149	3,595,670	0	64,717,627	68,922,679	144,925,887	10,785,286
	1994	286,907,492	8,771,075	3,482,400	60,418,287	60,571,585	144,232,643	9,431,502
	1995	302,568,801	16,302,522	0	62,292,150	56,847,845	156,550,765	10,575,519
	1996	298,812,769	13,181,810	4,591,440	59,037,180	59,437,054	151,963,676	10,601,609
	1997	286,419,646	27,421,112	0	44,428,830	51,860,131	151,920,297	10,789,276
	1998	280,075,606	21,092,144	5,082,166	44,964,933	52,891,514	143,898,113	12,146,736
	1999	261,166,308	20,802,995	7,950	59,939,193	54,897,319	114,531,033	10,987,818
	2000	229,510,840	16,895,000	1,628,415	38,769,493	43,906,896	117,367,644	10,943,392
Oregon	^b 1993	71,286,254	0	0	900,000	16,886,564	46,768,943	6,730,747
	1994	72,316,507	0	0	0	15,013,242	50,008,399	7,294,866
	1995	80,817,744	0	0	0	13,135,609	60,864,682	6,817,453
	1996	75,919,771	20,948	0	0	13,491,138	55,907,650	6,500,035
	1997	53,982,634	0	0	0	10,266,305	37,320,239	6,396,090
	1998	41,346,423	67,392	0	0	8,182,803	26,975,076	6,121,152
	1999	46,244,499	0	0	0	9,502,649	30,457,060	6,284,790
	2000	46,766,588	0	0	0	8,700,071	32,314,081	5,752,436
California	^c 1993	55,361,097	0	0	0	805,236	48,967,178	5,588,683
	1994	65,885,005	0	0	0	721,598	58,759,654	6,403,753
	1995	66,774,097	0	0	0	847,362	60,149,213	5,777,522
	1996	64,182,086	0	0	0	217,682	58,647,305	5,317,099
	1997	54,231,695	0	0	0	785,608	49,710,025	3,736,062
	1998	59,165,717	0	0	0	777,657	54,964,225	3,423,835
	1999	49,227,759	0	0	0	771,157	45,424,032	3,032,570
	2000	46,785,829	0	0	0	576,086	43,780,838	2,428,905
Idaho	^d 1993	12,699,610	0	0	0	0	4,925,908	7,773,702
	1994	15,852,394	14,119	0	0	0	7,772,342	8,065,933
	1995	17,093,620	95,438	0	0	630,312	7,699,435	8,668,435
	1996	10,742,984	0	0	0	0	1,795,602	8,947,382
	1997	9,374,254	0	0	0	0	993,372	8,380,882
	1998	11,851,694	12,000	0	0	693,180	3,321,298	7,825,216
	1999	18,085,440	0	0	0	798,277	9,717,757	7,569,406
	2000	15,339,208	72,262	0	0	527,474	6,832,226	7,907,246

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

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

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

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