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Alaska Fisheries Enhancement Program  
1996 Annual Report Summary

by

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## Summary

There are currently 40 hatcheries operating in Alaska (Figure 1). The private nonprofit (PNP) enhancement program consists of 33 hatcheries operated by PNP corporations, regional aquaculture associations, and other groups, such as the Prince of Wales Hatchery Association and the Ketchikan Indian Corporation. The state enhancement program operates 4 hatcheries, and the federal enhancement program includes research facilities at Auke Creek and Little Port Walter. The Tamgas Creek Hatchery on Annette Island, which is operated by the Metlakatla Indian Community, is under the jurisdiction of the federal Bureau of Indian Affairs.

In 1996, Alaska hatcheries contributed 29.4 million fish to Alaska's commercial, sport, subsistence, and personal use fisheries. More than 360 thousand fish were donated to the public or to different charitable causes. There also are numerous other enhancement projects that range from lake enrichment sites and fish ladders to spawning channels and streamside incubators.

Alaska commercial fishermen caught 175 million salmon in 1996. Of this catch more than 18% was composed of enhanced fish. Of this, 19% of the pink and 57% of the chum salmon harvested in the 1996 commercial fisheries were contributed by enhancement projects. Tables 1-4 show 1996 egg takes, releases, returns, and production by Alaska's hatchery operators.

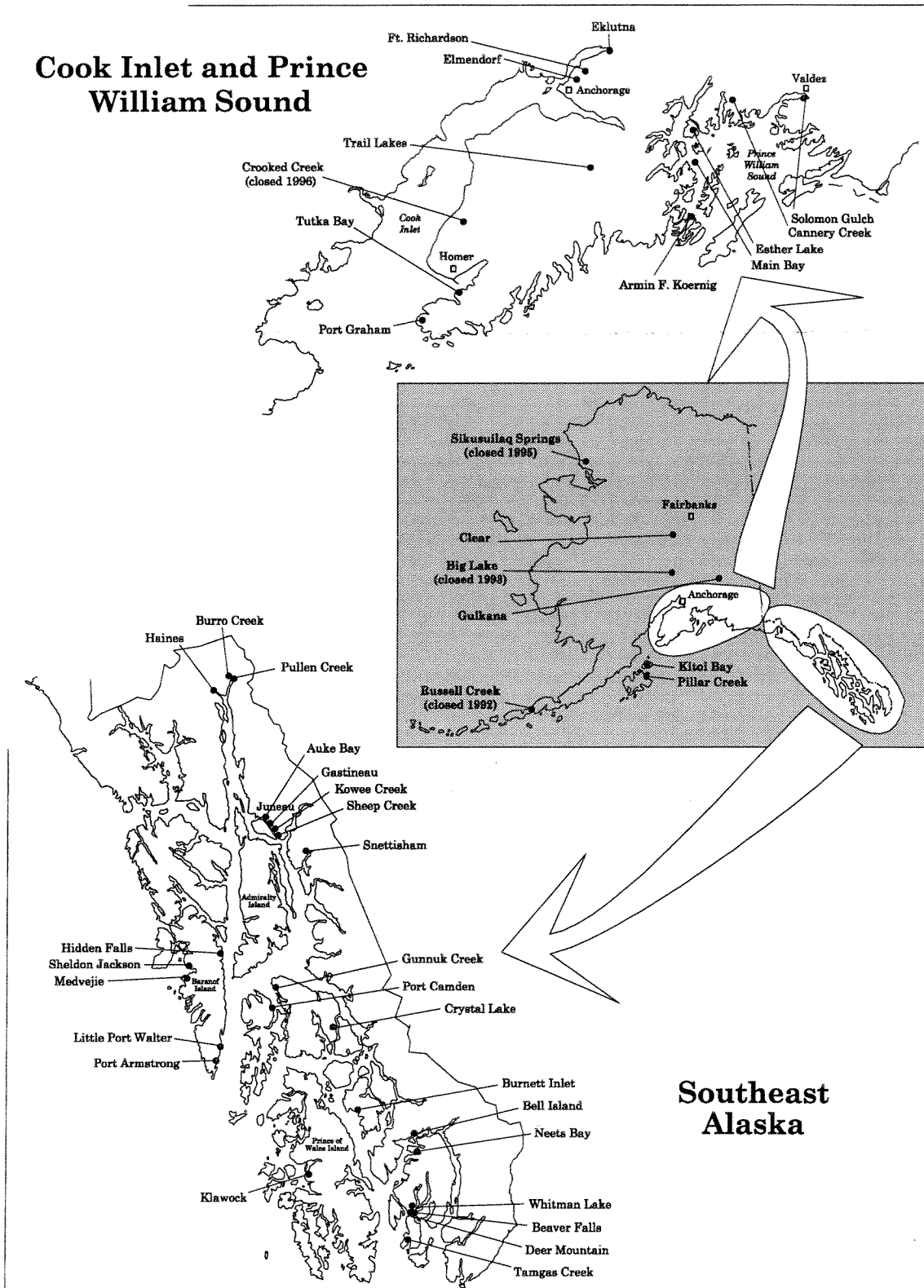


Figure 1. Locations of Alaska hatcheries.

Table 1. Total egg takes, releases, and returns to the Alaska salmon enhancement program in 1996.

Estimated egg takes from Alaska hatcheries, in millions, 1996.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	139.60	497.03	23.31	9.34	26.95	0.01	696.25
Prince William Sound	539.79	124.31	0.64	0.48	40.57	0.00	705.79
Cook Inlet	117.64	0.00	2.69	2.03	38.74	2.80	163.90
Kodiak/Alaska Peninsula	131.76	29.88	2.69	0.00	13.42	0.00	177.74
Arctic-Yukon-Kuskokwim	0.00	0.00	0.18	0.00	0.00	1.11	1.29
<b>Totals</b>	<b>928.80</b>	<b>651.22</b>	<b>29.51</b>	<b>11.85</b>	<b>119.67</b>	<b>3.92</b>	<b>1,744.97</b>

Estimated releases from Alaska hatcheries, in millions, 1996.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	101.90	412.79	15.93	5.06	13.23	0.02	548.93
Prince William Sound	641.68	102.31	2.15	0.09	33.69	0.00	779.92
Cook Inlet	111.47	0.00	1.54	1.84	20.40	1.86	137.11
Kodiak/Alaska Peninsula	144.05	20.14	1.10	0.00	7.96	0.00	173.24
Arctic-Yukon-Kuskokwim	0.00	0.19	0.24	0.00	0.00	0.70	1.13
<b>Totals</b>	<b>999.10</b>	<b>535.43</b>	<b>20.96</b>	<b>6.99</b>	<b>75.27</b>	<b>2.58</b>	<b>1,640.33</b>

Total returns attributed to Alaska hatcheries and enhancement projects, 1996.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	3,539,078	13,997,452	879,151	109,751	659,889	0	19,185,321
Prince William Sound	23,892,978	2,317,704	235,406	2,112	991,283	0	27,439,483
Cook Inlet	598,424	24,368	67,342	48,010	480,893	73,905	1,292,942
Kodiak/Alaska Peninsula	1,267,179	45,592	74,074	0	627,465	0	2,014,310
Arctic-Yukon-Kuskokwim	0	0	5,808	0	0	5,536	11,344
<b>Totals</b>	<b>29,297,659</b>	<b>16,385,116</b>	<b>1,261,781</b>	<b>159,873</b>	<b>2,759,530</b>	<b>79,441</b>	<b>49,943,400</b>

Table 2. Eggs taken at Alaska hatcheries in 1996, in millions.

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
<b>Southeast</b>								
SSRAA	Whitman Lake			5.32	2.16			7.48
	Neets Bay		124.76	0.54				125.30
	Beaver Falls					1.26		1.26
NSRAA	Hidden Falls		83.79	5.01	1.41			90.21
	Medvejie Creek	0.32	41.60	3.05	1.45			46.42
	Port Camden		4.71					4.71
	Haines projects		0.24			0.62		0.85
AAI	Burnett Inlet	28.72	59.99					88.71
AKI	Port Armstrong	91.29		1.85				93.14
BCF	Burro Creek	0.46	0.14					0.59
DIPAC	Sheep Creek		27.07					27.07
	Gastineau	6.30	98.40		0.63			105.33
	Snettisham					23.75		23.75
KTHC	Deer Mountain			0.19	0.15		0.01	0.35
KNFC	Gunnuk Creek		51.74					51.74
POWHA	Klawock			2.27		1.33		3.60
SJC	Indian River	12.52	3.46	0.12	0.15			16.24
MIC	Tamgas Creek		1.14	4.76	0.85			6.75
Federal	Little Port Walter				0.63			0.63
ADF&G	Crystal Lake			0.20	1.91			2.11
<b>Southeast Totals</b>		<b>139.60</b>	<b>497.03</b>	<b>23.31</b>	<b>9.34</b>	<b>26.95</b>	<b>0.01</b>	<b>696.24</b>
<b>Prince William Sound</b>								
PWSAC	Armin F. Koernig	60.40	11.76					72.16
	Wally Noerenberg	115.82	110.34	0.64	0.48			227.28
	Cannery Creek	155.06						155.06
	Main Bay					3.22		3.22
	Gulkana					37.35		37.35
VFDA	Solomon Gulch	208.52	2.21					210.72
<b>Prince William Sound Totals</b>		<b>539.80</b>	<b>124.31</b>	<b>0.64</b>	<b>0.48</b>	<b>40.57</b>	<b>0.00</b>	<b>705.80</b>
<b>Cook Inlet</b>								
PGHC	Port Graham	1.64		0.21		1.59		3.44
	Eklutna			0.10		8.00		8.10
CIAA	Trail Lakes			0.95		14.48		15.43
	Tutka Bay	116.00						116.00
	Crooked Creek					14.67		14.67
ADF&G	Elmendorf			0.48	1.29			1.77
	Ft. Richardson			0.95	0.75		2.80	4.50
<b>Cook Inlet Totals</b>		<b>117.64</b>	<b>0.00</b>	<b>2.69</b>	<b>2.03</b>	<b>38.74</b>	<b>2.80</b>	<b>163.90</b>
<b>Kodiak</b>								
KRAA	Kitoi Bay	131.76	29.88	2.56		1.13		165.33
	Pillar Creek			0.13		12.29		12.42
<b>Kodiak Totals</b>		<b>131.76</b>	<b>29.88</b>	<b>2.69</b>	<b>0.00</b>	<b>13.42</b>	<b>0.00</b>	<b>177.74</b>
<b>Arctic-Yukon-Kuskokwim</b>								
ADF&G	Clear			0.18			1.11	1.29
<b>Arctic-Yukon-Kuskokwim Totals</b>		<b>0.00</b>	<b>0.00</b>	<b>0.18</b>	<b>0.00</b>	<b>0.00</b>	<b>1.11</b>	<b>1.29</b>
<b>Statewide Totals</b>		<b>928.80</b>	<b>651.22</b>	<b>29.51</b>	<b>11.85</b>	<b>119.67</b>	<b>3.92</b>	<b>1,744.97</b>

Note 1. If eggs were transferred, they are listed by the hatchery that received them.

Note 2. Individual hatchery egg takes may not add up to the regional or statewide totals because of rounding.

Table 3. Alaska hatchery releases in 1996, in millions of fish.

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
<b>Southeast</b>								
SSRAA	Whitman Lake				0.24			0.24
	Old Frank's Lake			0.14				0.14
	Neck Lake			0.61				0.61
	Herring Cove			0.28				0.28
	Kendrick Bay		8.24					8.24
	Nakat Inlet		16.31	0.20				16.51
	Earl West Cove		7.74	0.21				7.95
	Neets Bay		61.66	3.00	0.56			65.22
	Beaver Falls							0.00
	Virginia Lake					1.21		1.21
	Salmon Lake					0.53		0.53
	Hugh Smith Lake					0.36		0.36
NSRAA	Hidden Falls		49.72	1.55	0.89			52.16
	Takatz		26.96					26.96
	Medvejie Creek	0.19	4.84	2.62	1.00			8.66
	Deep Inlet		34.74					34.74
	Port Camden		4.83					4.83
	Haines projects		0.48			0.30		0.78
AAC	Bell Island	no releases						0.00
AAI	Burnett Inlet	12.18	41.00					53.18
AKI	Port Armstrong	72.48		1.38				73.86
BCF	Burro Creek	0.42	0.01	0.01	0.03			0.48
DIPAC	Sheep Creek		24.61	0.01				24.61
	Gastineau	8.74	11.47	0.35	0.07			20.64
	Sheep Creek		19.57	0.51	0.04			20.12
	Amalga Harbor		34.98					34.98
	Boat Harbor		8.54					8.54
	Limestone Inlet		15.42					15.42
	Fish/Auke Creek				0.21			0.21
KTHC	Deer Mountain			0.13	0.08		0.02	0.22
KNFC	Gunnuk Creek		7.70	0.03				7.73
	Southeast Cove		28.90					28.90
SJC	Sheldon Jackson	7.90	3.54	0.05	0.06			11.54
MIC	Tamgas Creek		1.55	3.97	1.13			6.65
POWHA	Klawock			0.75		0.32		1.07
Federal	Little Port Walter	no releases						0.00
	Auke Creek	no releases						0.00
ADF&G	Crystal Lake			0.11	0.74			0.85
	Snettisham					4.02		4.02
	Canada lakes					6.49		6.49
<b>Southeast Totals</b>		<b>101.90</b>	<b>412.79</b>	<b>15.93</b>	<b>5.06</b>	<b>13.23</b>	<b>0.02</b>	<b>548.93</b>
<b>Prince William Sound</b>								
PWSAC	Armin F. Koernig	108.64						108.64
	Wally Noerenberg	169.51	79.54	0.18	0.04			249.27
	Port Chalmers		22.77					22.77
	Whittier			0.05				0.05
	Cordova			0.05				0.05
	Chenega				0.05			0.05
	Gulkana I and II					30.37		30.37
	Cannery Creek	140.44						140.44
	Main Bay					3.32		3.32
VFDA	Solomon Gulch	223.09		1.88				224.96
<b>Prince William Sound Totals</b>		<b>641.68</b>	<b>102.31</b>	<b>2.15</b>	<b>0.09</b>	<b>33.69</b>	<b>0.00</b>	<b>779.92</b>
<b>Cook Inlet</b>								
PGHC	Port Graham	6.47				0.14		6.61
CIAA	Crooked Creek					11.07		11.07
	Eklutna			0.07		5.00		5.07
	Trail Lakes							0.00
	Chelatna Lake					1.04		1.04
	Packers Lake					0.69		0.69

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Table 3. Page 2 of 2.

Region/Operator/Location	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
<b>Cook Inlet (continued)</b>							
CIAA (continued)							
Trail Lakes (continued)							<b>0.00</b>
Bear Lake/Creek			0.43		0.78		<b>1.21</b>
Hidden Lake					1.60		<b>1.60</b>
Tutka Bay	105.00				0.08		<b>105.08</b>
ADF&G			0.40	1.50			<b>1.90</b>
Ft. Richardson			0.64	0.34		1.86	<b>2.84</b>
<b>Cook Inlet Totals</b>	<b>111.47</b>	<b>0.00</b>	<b>1.54</b>	<b>1.84</b>	<b>20.40</b>	<b>1.86</b>	<b>137.11</b>
<b>Kodiak</b>							
KRAA							
Kitoi Bay	144.05	20.14	1.07		0.73		<b>165.99</b>
Pillar Creek			0.03		7.23		<b>7.26</b>
<b>Kodiak Totals</b>	<b>144.05</b>	<b>20.14</b>	<b>1.10</b>	<b>0.00</b>	<b>7.96</b>	<b>0.00</b>	<b>173.24</b>
<b>Arctic-Yukon-Kuskokwim</b>							
ADF&G							
Clear		0.19	0.24			0.70	<b>1.13</b>
<b>Arctic-Yukon-Kuskokwim Totals</b>	<b>0.00</b>	<b>0.19</b>	<b>0.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.70</b>	<b>1.13</b>
<b>Statewide Totals</b>	<b>999.10</b>	<b>535.43</b>	<b>20.96</b>	<b>6.99</b>	<b>75.27</b>	<b>2.58</b>	<b>1,640.33</b>

Note: Individual hatchery releases may not add up to the regional or statewide totals because of rounding.

Table 4(a). Summary of statewide salmon production (all species) from private nonprofit hatcheries in Alaska, as reported by operators.

Year	Egg Take	Fry Release	Total Return	Special Harvest	Hatchery Revenue
1975	8,091,395				
1976	16,622,881	3,719,741			
1977	37,008,186	12,360,354	160,147	108,718	\$ 130,726
1978	37,346,167	26,796,238	160,967	114,188	\$ 141,799
1979	54,295,879	29,131,774	356,501	244,555	\$ 309,612
1980	125,740,500	35,587,200	1,506,466	346,168	\$ 436,171
1981	223,600,000	101,600,000	2,563,913	850,293	\$ 1,274,640
1982	234,390,000	126,990,000	5,340,720	1,370,110	\$ 1,165,608
1983	261,310,000	170,375,000	4,285,989	744,767	\$ 669,838
1984	372,880,000	217,730,000	4,764,144	1,048,701	\$ 1,668,788
1985	469,960,000	302,320,000	8,106,485	1,853,483	\$ 1,878,348
1986	522,200,000	380,890,000	7,903,526	1,211,620	\$ 1,867,054
1987	868,250,000	461,170,000	19,096,871	4,172,700	\$ 6,557,877
1988	1,045,620,000	819,800,000	14,343,654	2,499,557	\$ 9,266,780
1989	1,108,700,000	860,190,000	24,044,699	14,849,608	\$ 28,985,391
1990	1,249,160,000	925,210,000	42,405,072	10,387,754	\$ 13,644,041
1991	1,325,990,000	1,087,070,000	40,264,749	12,377,204	\$ 6,396,187
1992	1,427,710,000	1,075,180,000	18,174,631	7,277,620	\$ 10,424,579
1993	1,613,220,000	1,426,480,000	27,781,066	4,827,710	\$ 7,917,685
1994	1,725,820,000	1,267,520,000	52,022,989	14,812,269	\$ 15,625,954
1995	1,849,333,100	1,472,954,300	36,942,907	9,360,581	\$ 12,276,938
1996	1,734,940,000	1,632,050,000	48,201,545	14,641,144	\$ 18,421,517
<b>Cumulative Hatchery Revenues from Special Harvests:</b>					<b>\$139,059,534</b>

Table 4(b). Summary of chum salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest	Hatchery Revenue
1975	77,000				
1976	347,275	66,075			
1977	1,614,574	264,068			
1978	1,684,930	1,064,000	543		
1979	6,782,864	924,400	3		
1980	26,850,000	3,340,000	1,588		
1981	32,400,000	21,900,000	20,518	6,115	\$ 24,640
1982	46,130,000	23,590,000	22,133	378	\$ 302
1983	68,790,000	41,770,000	126,783	35,099	\$ 37,120
1984	122,170,000	54,780,000	1,001,449	436,617	\$ 690,393
1985	119,450,000	97,880,000	525,088	123,215	\$ 209,208
1986	181,450,000	100,490,000	779,637	188,754	\$ 303,080
1987	234,500,000	149,790,000	955,294	487,605	\$1,162,579
1988	369,610,000	186,050,000	1,835,164	469,754	\$2,180,685
1989	267,030,000	286,770,000	1,102,191	183,340	\$ 754,806
1990	425,410,000	216,860,000	1,632,539	369,985	\$1,411,640
1991	441,530,000	359,270,000	1,958,538	403,603	\$1,269,087
1992	495,360,000	394,260,000	3,078,557	741,276	\$2,449,107
1993	457,690,000	451,720,000	6,386,907	1,781,764	\$4,864,415
1994	520,120,000	402,220,000	8,783,080	2,049,000	\$5,088,624
1995	590,160,000	463,440,000	9,799,995	1,983,924	\$4,223,472
1996	651,220,000	533,690,000	16,204,661	4,782,038	\$10,459,811

Table 4(c). Summary of sockeye salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest	Hatchery Revenue
1985	310,000				
1986	1,295,700	102,000			
1987	1,570,000	750,000			
1988	10,590,000	1,000,000	66,499		
1989	14,740,000	8,030,000	39,832	39,831	\$ 254,215
1990	11,780,000	8,140,000	101,216	8,513	\$ 35,506
1991	27,480,000	8,070,000	153,606	5,023	\$ 21,167
1992	25,530,000	15,960,000	783,508	170,629	\$1,653,004
1993	102,720,000	37,060,000	838,805	156,159	\$ 433,147
1994	100,080,000	59,710,000	1,053,800	133,280	\$ 580,055
1995	96,647,500	72,306,000	1,313,393	142,354	\$ 720,349
<b>1996</b>	<b>119,320,000</b>	<b>75,280,000</b>	<b>2,305,680</b>	<b>174,191</b>	<b>\$ 900,017</b>

Table 4(d). Summary of pink salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest	Hatchery Revenue
1975	8,002,395				
1976	16,251,456	3,653,666			
1977	35,383,112	12,093,184	160,147	108,718	\$ 130,726
1978	34,851,807	25,732,238	160,397	114,188	\$ 141,799
1979	46,582,015	28,204,674	356,498	244,555	\$ 309,612
1980	98,030,000	31,690,000	1,504,878	346,168	\$ 436,171
1981	188,000,000	78,800,000	2,491,345	838,037	\$ 1,200,000
1982	185,170,000	102,550,000	5,253,378	1,354,732	\$ 1,084,806
1983	185,520,000	126,890,000	4,086,552	701,399	\$ 613,618
1984	241,760,000	159,340,000	3,637,927	583,185	\$ 741,673
1985	339,910,000	199,490,000	7,404,789	1,698,732	\$ 1,320,320
1986	324,570,000	271,960,000	6,767,984	948,624	\$ 1,012,420
1987	618,350,000	299,260,000	17,963,785	3,624,586	\$ 4,711,068
1988	645,100,000	625,820,000	12,257,959	2,007,720	\$ 6,715,887
1989	805,870,000	553,090,000	22,561,056	14,519,987	\$27,380,703
1990	788,710,000	684,790,000	39,919,911	9,846,364	\$10,846,114
1991	830,860,000	704,330,000	37,081,341	11,574,828	\$ 2,890,652
1992	882,920,000	648,470,000	13,200,079	6,009,343	\$ 3,917,463
1993	1,028,760,000	919,680,000	19,844,303	2,736,262	\$ 1,733,572
1994	1,075,310,000	787,440,000	40,939,000	12,398,000	\$ 8,587,514
1995	1,134,730,000	919,740,000	24,765,273	6,817,549	\$ 5,579,764
<b>1996</b>	<b>928,800,000</b>	<b>999,100,000</b>	<b>28,553,267</b>	<b>9,400,936</b>	<b>\$ 5,986,199</b>

Table 4(e). Summary of coho salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest	Hatchery Revenue
1975	12,000				
1976	24,150				
1977	10,500	3,102			
1978	809,430	0	27		
1979	931,000	2,700	0		
1980	666,500	557,200	0		
1981	2,800,000	900,000	52,050	6,141	\$ 50,000
1982	2,870,000	700,000	61,709	11,500	\$ 80,500
1983	6,200,000	1,570,000	71,781	7,396	\$ 19,100
1984	6,300,000	3,230,000	121,112	27,310	\$ 233,466
1985	4,100,000	4,220,000	168,427	29,530	\$ 293,820
1986	8,300,000	4,280,000	344,749	72,960	\$ 535,203
1987	9,280,000	5,440,000	169,149	58,333	\$ 625,547
1988	13,310,000	4,720,000	122,186	13,383	\$ 178,771
1989	13,740,000	9,040,000	305,048	88,702	\$ 271,181
1990	14,470,000	10,730,000	691,680	140,728	\$ 939,671
1991	16,120,000	11,500,000	1,001,338	372,612	\$1,873,709
1992	16,510,000	10,280,000	1,070,086	338,725	\$2,051,466
1993	19,150,000	11,100,000	657,208	128,771	\$ 503,420
1994	24,280,000	12,640,000	1,189,140	221,291	\$1,248,600
1995	21,535,600	13,868,300	966,222	318,730	\$1,393,072
<b>1996</b>	<b>27,700,000</b>	<b>19,570,000</b>	<b>1,041,009</b>	<b>251,005</b>	<b>\$ 717,386</b>

Table 4(f). Summary of chinook salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest	Hatchery Revenue
1980	194,000				
1981	400,000				
1982	220,000	150,000	3,500	3,500	NA
1983	800,000	140,000	872	872	NA
1984	2,730,000	380,000	3,656	1,589	\$ 3,256
1985	6,180,000	720,000	8,181	2,006	\$ 55,000
1986	6,580,000	4,050,000	11,156	1,282	\$ 16,351
1987	4,550,000	5,940,000	8,643	2,176	\$ 58,684
1988	7,010,000	2,210,000	23,246	8,700	\$191,436
1989	7,330,000	3,270,000	36,572	17,748	\$324,487
1990	8,790,000	4,700,000	59,726	22,164	\$411,109
1991	10,000,000	3,900,000	69,926	21,138	\$333,572
1992	7,400,000	6,210,000	42,401	17,647	\$353,539
1993	4,900,000	6,920,000	53,843	24,754	\$383,131
1994	6,030,000	5,510,000	57,969	10,698	\$121,161
1995	6,260,000	3,600,000	98,024	28,236	\$360,281
<b>1996</b>	<b>7,900,000</b>	<b>4,410,000</b>	<b>96,928</b>	<b>32,974</b>	<b>\$358,104</b>

NA = not available

Note: Includes only data from private nonprofit hatcheries; does not include federal, Bureau of Indian Affairs, or state hatchery data.