

Alaska Salmon Enhancement Program 2003 Annual Report



compiled by

Craig Farrington

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Alaska Department of Fish and Game
Division of Commercial Fisheries
P.O. Box 25526
Juneau, Alaska 99802-5526

March 2004

¹ The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished divisional reports. These reports frequently serve diverse ad hoc informational purposes or archive basic uninterpreted data. To accommodate timely reporting of recently collected information, reports in this series undergo only limited internal review and may contain preliminary data, this information may be subsequently finalized and published in the formal literature. Consequently, these reports should not be cited without prior approval of the author or the Division of Commercial Fisheries.

PUBLICATION ABSTRACT

TITLE/SUBTITLE Alaska Salmon Enhancement Program 2003 Annual Report		CONFIDENTIALITY <input checked="" type="checkbox"/> AVAILABLE TO PUBLIC <input type="checkbox"/> AVAILABLE TO LEGISLATURE ONLY
ABSTRACT <i>(100 words maximum)</i> The Alaska Department of Fish and Game (ADF&G) oversees and regulates all state and private sector salmon rehabilitation and enhancement projects. Protection of Alaska's natural salmon stocks requires stringent permitting processes. Geneticists, pathologists, and biologists review all projects prior to the issuance of a permit to operate a salmon ranching facility, transfer eggs or fish, or release fish into Alaska waters. Pathology, genetic, coded wire tag, and otolith processing laboratories are maintained to provide diagnostic information to department fishery managers inseason, as well as technical expertise to the private sector. Over 1.9 billion salmon eggs were collected by Alaska hatchery operators in 2003. In addition, nearly 1.5 billion fish were released and nearly 50 million fish were harvested in common property fisheries as a result of the ocean ranching program. The ocean ranching program provides hundreds of Alaskans with seasonal and full-time jobs. It is now considered the largest agricultural industry in Alaska.		SUBJECT CATEGORY <input checked="" type="checkbox"/> NATURAL RESOURCES <input type="checkbox"/> EDUCATION <input type="checkbox"/> SOCIAL SERVICES <input type="checkbox"/> HEALTH <input type="checkbox"/> TRANSPORTATION <input type="checkbox"/> LAW ENFORCEMENT <input type="checkbox"/> COMMERCE & INDUSTRY <input type="checkbox"/> GENERAL GOVERNMENT <input type="checkbox"/> LOCAL GOVERNMENT <input type="checkbox"/> OTHER
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Main Bay Hatchery



Gulkana Hatchery



Solomon Gulch Hatchery



Wally Noerenberg Hatchery



AF Koernig Hatchery



Neets Bay Hatchery

Figure 1. Photos of hatcheries in Alaska.

INTRODUCTION

The Alaska Department of Fish and Game (ADF&G) oversees and regulates all state and private sector salmon rehabilitation and enhancement projects. Protection of Alaska's natural salmon stocks requires stringent permitting processes. Geneticists, pathologists, and biologists review all projects prior to the issuance of a permit to operate a salmon ranching facility, transfer eggs or fish, or release fish into Alaska waters. Pathology, genetic, coded wire tag, and otolith processing laboratories are maintained to provide diagnostic information to department fishery managers inseason, as well as technical expertise to the private sector.

Over 1.9 billion salmon eggs were collected by Alaska hatchery operators in 2003. In addition, nearly 1.5 billion fish were released and nearly 50 million fish were harvested in common property fisheries as a result of the ocean ranching program. The ocean ranching program provides hundreds of Alaskans with seasonal and full-time jobs. It is now considered the largest agricultural industry in Alaska.

Prince William Sound and Southeast Alaska are the predominant regions affected by the enhancement program, and pink and chum salmon are the predominant species produced. Production levels, in terms of egg takes and releases, have largely stabilized. Programs have matured and are generally at planned capacities.

The salmon enhancement program is composed of several factions: 2 state hatcheries, 29 private nonprofit corporation hatcheries (PNP), 2 federal or Bureau of Indian Affairs (BIA) hatcheries, and several streamside incubation and restoration projects. State hatcheries are operated by the department's Division of Sport Fish and primarily produce salmonid species intended for sport fisheries. Private nonprofit corporations are permitted to operate salmon hatcheries and recoup their operational costs from a special harvest of returning adult fish, called a cost recovery harvest. All other returning adult fish are available for harvest in Alaska's common property fisheries open to the public. Federal hatcheries are generally used for research. Streamside incubation projects enhance stocks of fish inexpensively. Stream restoration projects involve restoring streams degraded by human-use activities.

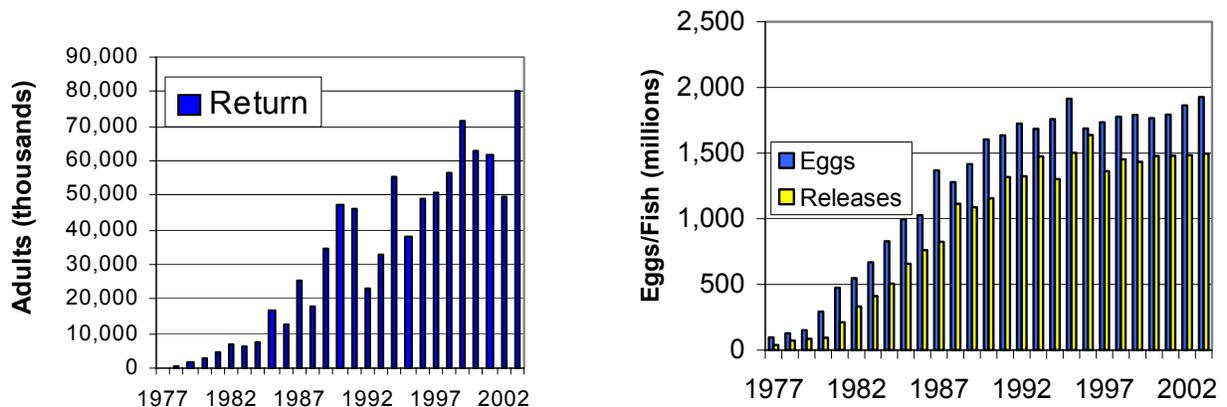


Figure 2. Total egg takes, releases, and returns to the Alaska salmon hatchery program, 1977 to 2003.

Highlights in 2003

- The statewide commercial common property harvest of salmon was composed of 33% enhancement program-produced fish, in terms of numbers and 23% enhancement program-produced fish, in terms of value. A preliminary estimate of the ex-vessel value of the enhanced common property harvest is \$39 million.
- Over 481,000 hatchery-produced fish representing 10 species (chinook, coho, pink, sockeye, and chum salmon; steelhead, lake, and rainbow trout; Arctic char and grayling) were caught by sport fishermen.
- In general the Alaskan hatchery program is stable. Egg takes and release numbers are very similar to prior years.
- In Southeast, this year's return of 9.7 million enhanced chum salmon was up significantly from the previous year's total of 6.1 million fish, due to a rebound towards improved ocean survivals.
- Directives by the Alaska Board of Fisheries established harvest guidelines for each commercial gear group in order to allocate the harvest of enhanced salmon in Southeast Alaska. If, over a specified period of time, allocation percentages are not met, actions must be taken to correct the imbalance. This was the fifth consecutive year of a continued imbalance necessitating corrective action to help increase the troll harvest of enhanced fish. However, the imbalance is diminishing due to a combination of shifts in market forces and shifts in species harvested.



Examining samples for IHN at the Juneau state pathology laboratory.



Analyzing samples at the Mark Tag and Age laboratory.

- The economic woes of the commercial salmon fishing industry in Alaska continued in 2003. Severe marketing conditions for wild Alaska salmon negatively affected both salmon fishermen and salmon processors. Statewide ex-vessel prices for most salmon species continued at very low levels.
- The preliminary statewide harvest of salmon in 2003 was 173,344,000 fish. Nearly 73,000,000 fish (42%) of that harvest was of hatchery origin.
- Contributions to harvests from the five Prince William Sound hatcheries provided nearly \$14 million to common property fishermen, approximately 53% of the ex-vessel value. Nearly half of the hatchery contribution number and over half of the value was sockeye salmon.
- The total harvest of pink salmon in Prince William Sound was a new record of 56.5 million fish. The harvest was composed of 14.7 million hatchery origin fish caught for cost recovery, and 41.8 million fish caught in the common property fisheries, which was composed of 89% hatchery origin fish.
- Over 23% of salmon caught in Cook Inlet commercial salmon fisheries originated from Cook Inlet hatcheries, with a preliminary ex-vessel value of \$4.0 million .
- Approximately 36% of the common property harvest in Kodiak commercial salmon fisheries was enhanced salmon, with a combined ex-vessel value of \$4.1 million.

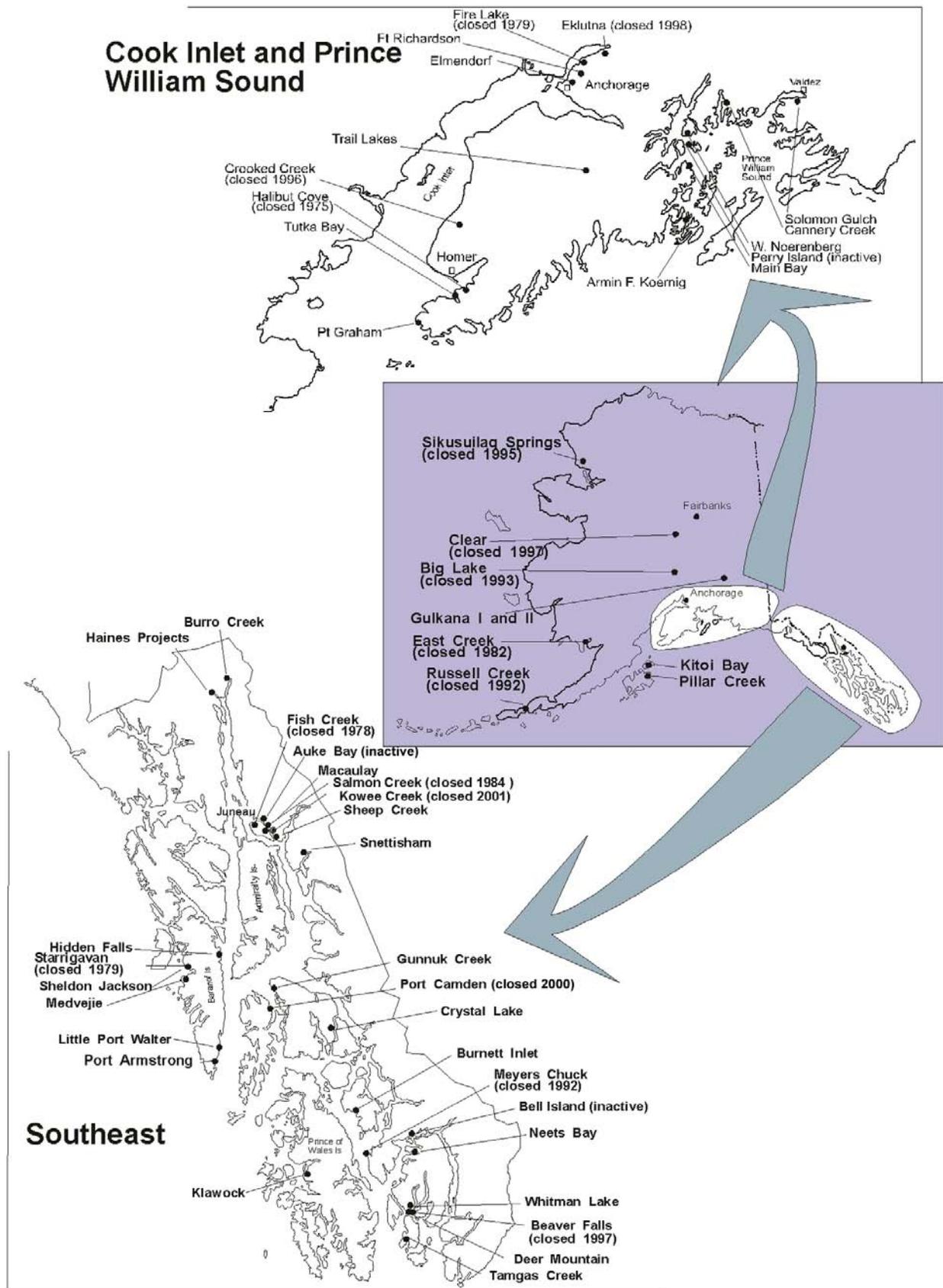


Figure 3. Locations of hatcheries within Alaska.

Table 1. Total egg takes, releases, and returns to the Alaska salmon enhancement program in 2003.

Table 1(a). Estimated egg takes from Alaska hatcheries, in millions, 2003.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	90.66	500.98	25.88	10.88	17.50	0.06	645.96
Prince William Sound	702.72	151.53	3.66	0.00	46.37	0.00	904.28
Cook Inlet	130.36	0.00	2.89	1.41	23.99	4.89	163.54
Kodiak/Alaska Peninsula	181.11	28.98	2.26	0.16	6.00	0.00	218.52
Totals^a	1,104.86	681.49	34.68	12.45	93.87	4.95	1,932.29

Table 1(b). Estimated releases from Alaska hatcheries, in millions, 2003.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	84.53	318.20	17.67	7.17	12.62	0.05	440.26
Prince William Sound	607.94	98.65	2.20	0.00	32.82	0.00	741.61
Cook Inlet	125.17	0.00	1.71	2.09	16.82	1.76	147.55
Kodiak/Alaska Peninsula	144.82	18.72	1.52	0.03	1.85	0.00	166.95
Totals^a	962.47	435.57	23.10	9.30	64.12	1.81	1,496.36

Table 1(c). Total returns attributed to Alaska hatcheries and enhancement projects in 2003, including common property, cost recovery, broodstock, and escapement.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	1,302,017	9,675,218	1,095,384	145,313	440,825	140	12,658,897
Prince William Sound	50,576,657	3,529,196	227,403	1,059	1,742,098	0	56,076,413
Cook Inlet	943,512	0	80,081	24,051	1,782,080	135,530	2,965,254
Kodiak/Alaska Peninsula	6,951,906	506,906	160,274	0	866,389	0	8,485,475
Totals^a	59,774,092	13,711,320	1,563,142	170,423	4,831,392	135,670	80,186,039

^a Some figures may not total exactly due to rounding.



Armin F. Koernig Hatchery.



Main Bay Hatchery interior.

Table 2. Alaska common property commercial harvests in 2003.

Table 2(a). Alaska common property commercial harvest of enhanced fish, in thousands of fish, 2003.

Area	Harvest ^a	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Total Commercial Harvest	403	1,450	2,442	52,481	9,269	66,045
	Total Cost Recovery Harvest	49	113	389	428	4,974	5,952
	<i>Common Property Harvest</i>	354	1,337	2,053	52,053	4,295	60,093
	Enhanced Fish Harvested	43	102	484	502	4,002	5,133
	% Enhanced in Total CP Harvest ^b	12.2%	7.7%	23.6%	1.0%	93.2%	8.5%
Prince William Sound	Total Commercial Harvest	49	2,799	490	49,461	3,718	56,517
	Total Cost Recovery Harvest	0	367	4	12,810	1,554	14,734
	<i>Common Property Harvest</i>	49	2,432	486	36,651	2,164	41,783
	Enhanced Fish Harvested	0	1,205	73	34,178	1,797	37,253
	% Enhanced in Total CP Harvest ^b	0.0%	49.5%	15.0%	93.3%	83.0%	89.2%
Cook Inlet	Total Commercial Harvest	19	4,168	114	909	157	5,367
	Total Cost Recovery Harvest	0	124	2	634	0	761
	<i>Common Property Harvest</i>	19	4,044	112	275	157	4,606
	Enhanced Fish Harvested	1	1,081	7	4	0	1,092
	% Enhanced in Total CP Harvest ^b	4.3%	26.7%	6.3%	1.4%	0.0%	23.7%
Kodiak	Total Commercial Harvest	19	4,042	339	14,066	1,152	19,618
	Total Cost Recovery Harvest	0	0	0	1,575	6	1,581
	<i>Common Property Harvest</i>	19	4,042	339	12,491	1,146	18,037
	Enhanced Fish Harvested	0	799	135	5,013	460	6,407
	% Enhanced in Total CP Harvest ^b	0.0%	19.8%	39.8%	40.1%	40.1%	35.5%
Chignik/Aleutian Islands/ Alaska Peninsula	Total Commercial Harvest	9	3,619	288	4,779	740	9,435
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest ^b	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bristol Bay	Total Commercial Harvest	44	14,871	43	0	807	15,765
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest ^b	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arctic-Yukon-Kuskokwim	Total Commercial Harvest	56	64	389	0	88	597
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest ^b	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	Total Commercial Harvest	599	31,013	4,105	121,696	15,931	173,344
	Total Cost Recovery Harvest	49	604	395	15,447	6,534	23,029
	<i>Common Property Harvest</i>	550	30,409	3,710	106,249	9,397	150,315
	Enhanced Fish Harvested	44	3,187	699	39,697	6,259	49,886
	% Enhanced in Total CP Harvest ^b	8.0%	10.5%	18.8%	37.4%	66.6%	33.2%

^a Total commercial harvest includes fish caught by all commercial gear types, which includes cost recovery harvested fish.

^b CP = common property

Table 2(b). Total estimated value of Alaska common property harvest, in thousands of dollars, 2003.

Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	\$6,126	\$7,013	\$9,927	\$11,803	\$5,952	\$40,822
Prince William Sound	\$3,686	\$16,213	\$1,808	\$12,256	\$2,743	\$36,706
Cook Inlet	\$329	\$14,921	\$176	\$45	\$161	\$15,632
Kodiak	\$87	\$11,518	\$418	\$3,285	\$875	\$16,183
Chignik/Aleutian Islands/Alaska Peninsula	\$47	\$13,207	\$308	\$974	\$523	\$15,060
Bristol Bay	\$213	\$46,918	\$89	\$0	\$473	\$47,693
Arctic-Yukon-Kuskokwim	\$1,993	\$204	\$664	\$0	\$67	\$2,928
Totals^a	\$12,481	\$109,994	\$13,391	\$28,363	\$10,794	\$175,024

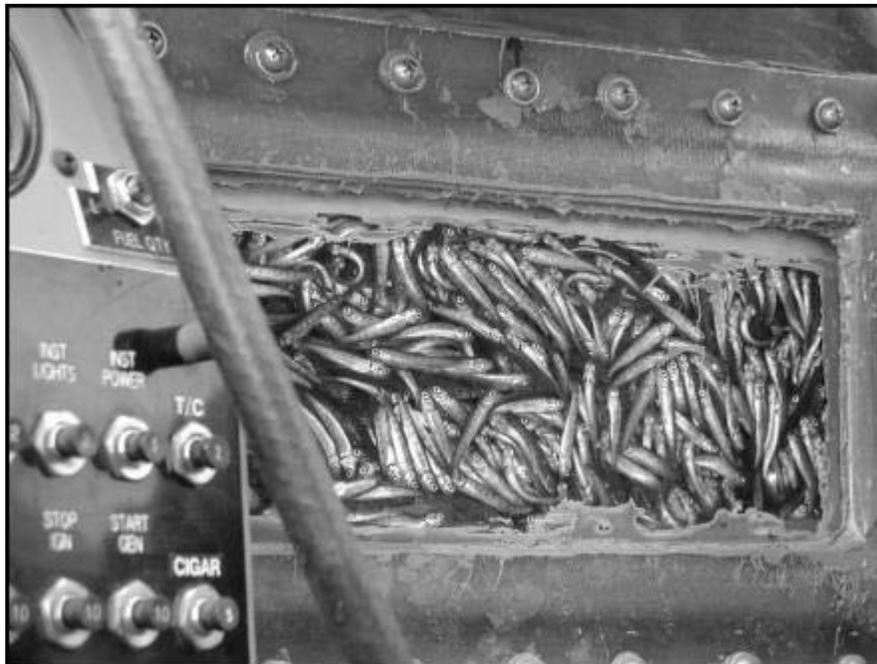
^a Data from the Alaska Department of Fish and Game website: <<http://www.state.ak.us/adfg/geninfo/finfish/salmon/salmhome.htm>>. Accessed 01/22/2004.

Table 3. Fishery enhancement program time line of events.

Year	Event	Number of state hatcheries	Number of private nonprofit (PNP) hatcheries	Number of Federal hatcheries
1934	Federal research station Little Port Walter constructed			1
1950	Federal hatchery at Auke Creek constructed			2
1953	1 territorial hatchery constructed at Kitoi Bay	1		
1954	1 territorial hatchery constructed at Deer Mountain	2		
1958	1 territorial hatchery constructed at Ft. Richardson	3		
1965	1 state hatchery constructed at Fire Lake	4		
1969	1 state hatchery constructed at Crystal Lake	5		
1971	Fisheries Rehabilitation, Enhancement and Development (FRED) Division created by Legislature			
1973	2 state hatcheries constructed (Crooked Creek and Gulkana)	7		
	State enhancement projects at Starrigavan and Halibut Cove started			
1974	2 state hatcheries constructed (Beaver Falls and East Creek) Legislature authorizes permits for private nonprofit hatchery operators to salmon ranch	9		
1975	4 PNP permits issued [Sheldon Jackson (#3), Port San Juan (#2), Perry Island (#1), and Sandy Bay (#4)] 2 state hatcheries constructed (Big Lake and Tutka)	11	4	
1976	AS 16.10.375 passed, designating regions for regional planning teams and enhancing salmon 1 state hatchery constructed at Elmendorf 2 PNP permits issued [Burnett Inlet (#5) and Kowee Creek (#6)]	12	6	
1977	1 PNP permit issued to Gunnuk Creek (#7) 2 state hatcheries constructed (Klawock and Russell Creek) State enhancement project at Karluk Lake started	14	7	
1978	1 PNP permit issued to Whitman Lake (#8) 2 state hatcheries constructed (Cannery Creek and Hidden Falls)	16	8	
1979	3 PNP permits issued [Sheep Creek (#11), Meyers Chuck (#10), Salmon Creek (#9)] 1 state hatchery constructed (Snettisham) 1 state hatchery closed (Fire Lake)	17 16	11	
1980	1 PNP permit issued to Burro Creek (#12) 2 state hatcheries constructed (Clear and Main Bay) 1 hatchery at Tamgas Creek constructed (Metlakatla Indian Community/BIA)	18	12	3
1981	1 state hatchery closed (East Creek) 2 state hatcheries constructed (Sikusuilag and Trail Lakes) 4 PNP permits issued [Medveje (#16), Port Armstrong (#13), Solomon Gulch (#15), Salmon Creek (#14)] 1 PNP permit revoked [Salmon Creek (#9)]	17 19	16 15	
1982	2 PNP permits issued [Eklutna (#17) and Favorite Bay (#18)]		17	
1983	3 PNP permits issued [Neets Bay (#19), Crittenden Creek (#22), and Esther (#20)] 1 state hatchery completed (Broodstock Development Center)	20	20	
1984	1 PNP permit issued to Santa Anna (#21)		21	
1985	1 PNP permit issued to Port Camden (#23)		22	
1986	1 PNP permit issued to Beaver Falls (#24)		23	
1987	1 PNP permit issued to Gastineau (#25)		24	
1988	Aquatic Farm Act signed; statute passes allowing contracting of hatchery operations 4 state hatcheries contracted to private sector (Kitoi Bay, Trail Lakes, Cannery Creek, Hidden Falls) 4 PNP permits issued [Hidden Falls (#28), Cannery Creek (#26), Trail Lakes (#27), Kitoi Bay (#29)] 1 state hatchery constructed (Pillar Creek) 2 PNP permits revoked [Sandy Bay (#4) and Salmon Creek (#14)]	16 17	28 26	
1990	CSHB432 becomes law prohibiting finfish farming in Alaska 1 PNP permit issued to Bell Island (#30)		27	
1991	5 state hatcheries contracted to private sector [Main Bay (#31), Tutka, Gulkana (#39), Pillar Creek (#38), and Beaver Falls (#24)] — Beaver Falls and Tutka tallied elsewhere Portions of 6 state hatcheries paid for by private or federal funds	12	30	
1992	1 state hatchery closed (Russell Creek) 2 PNP permits issued [Haines projects (#34) and Port Graham (#33)] 1 PNP permit revoked [Meyers Chuck (#10)] FRED Division merged with the Commercial Fisheries Division to form the Commercial Fisheries Management and Development (CFMD) Division	11	32 31	3
1993	3 state hatcheries transferred from CFMD Division to Sport Fish Division (Broodstock Development Center, Elmendorf, and Ft. Richardson) 2 state hatcheries contracted to private sector (Crooked Creek and Klawock) 1 state hatchery closed (Big Lake)	9 8		3

Year	Event	Number of state hatcheries	Number of private nonprofit (PNP) hatcheries	Number of Federal hatcheries
1994	4 PNP permits issued [Tutka (#32), Crooked Creek (#35), Klawock (#36), Deer Mountain (#37)] 1 state hatchery contracted (Deer Mountain) Ft. Richardson Hatchery merged with Broodstock Development Center	7 6	35	
1995	1 PNP hatchery under new management [Klawock (#38)] 1 state hatchery transferred from CFMD Division to Sport Fish Division (Crystal Lake) 1 state hatchery closed (Sikusuilag)	5		
1996	1 state hatchery contracted [Snettisham (#39)] 1 state hatchery transferred from CFMD Division to Sport Fish Division (Clear) 3 PNP permits revoked [Crittenden Creek (#22), Santa Anna (#21), and Favorite Bay (#18)]	4	36 33	
1997	1 state hatchery closed (Clear) 2 state contracted (PNP) hatcheries closed [Beaver Falls (#24), Crooked Creek (#35)] 1 PNP hatchery closed & reopened under new management [Burnett Inlet (#5, now #40)]	3	31 31	
1998	1 PNP hatchery closed [Eklutna (#17)]		30	
2000	1 state hatchery contracted to private sector (Crystal Lake Hatchery) Port Camden hatchery permit (# 23) given up	2	31 30	3
2001	Kowee Creek hatchery permit (#6) revoked; 1 Federal hatchery inactivated (Auke Creek)	2	29	2
2002	No activity	2	29 ^a	2
2003	Received permit application for chinook hatchery to be located at Port St. Nicholas, Prince of Wales	2	29 ^a	2

^a Perry Island, Bell Island, and Burro Creek are not active; there are 26 active PNP.



Gulkana sockeye salmon fry, as seen in the window of the plane preparing to transport them to Crosswind Lake.

Table 4. List of acronyms and abbreviations used throughout this report.

Acronym	
AAC	American Aquaculture Corporation
AAI	Alaska Aquaculture, Inc.
ADF&G	Alaska Department of Fish and Game
AKI	Armstrong-Keta, Inc.
AYK	Arctic-Yukon-Kuskokwim
BCF	Burro Creek Farms, Inc.
CIAA	Cook Inlet Aquaculture Association
COOP	Cooperative projects between state and PNP operators
DCED	Department of Commerce and Economic Development
DIPAC	Douglas Island Pink and Chum, Inc.
DMTH	Deer Mountain Tribal Hatchery
FRED	Fisheries Rehabilitation, Enhancement and Development Division
KNFC	Kake Nonprofit Fisheries Corporation
KRAA	Kodiak Regional Aquaculture Association
MCAA	Meyers Chuck Aquaculture Association
MIC	Metlakatla Indian Community
NMFS	National Marine Fisheries Service
NSRAA	Northern Southeast Regional Aquaculture Association
PGHC	Port Graham Hatchery Corporation
PNP	Private nonprofit
POWHA	Prince of Wales Hatchery Association
PWSAC	Prince William Sound Aquaculture Corporation
SJC	Sheldon Jackson College
SSRAA	Southern Southeast Regional Aquaculture Association
VFDA	Valdez Fisheries Development Association



Incubation box at Gulkana Hatchery.

Table 5. Eggs taken at Alaska hatcheries in 2003, in millions of eggs (transferred eggs are listed with the receiving hatchery).

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake		26.55	2.85	1.79			31.19
	Neets Bay		108.71	2.55				111.25
	Burnett Inlet			2.04		0.88		2.92
	Crystal Lake			0.27	1.94			2.21
NSRAA	Hidden Falls		93.74	5.49	1.42			100.65
	Medvejie Creek	0.31	54.99	3.05	3.16			61.51
	Haines projects		0.87					0.87
AKI	Port Armstrong	89.55	15.54	2.01	0.23			107.32
DIPAC	Macaulay ^a		122.58	0.72	1.14			124.45
	Snettisham					15.53		15.53
KTHC	Deer Mountain		0.20	0.18	0.16		0.06	0.60
KNFC	Gunnuk Creek		70.43					70.43
POWHA	Klawock			3.39		1.00		4.39
SJC	Sheldon Jackson	0.80	1.12	0.07				2.00
MIC	Tamgas Creek		6.26	3.27	0.64	0.08		10.25
NMFS ^b	Little Port Walter				0.40			0.40
Southeast Totals^c		90.66	500.98	25.88	10.88	17.50	0.06	645.96
Prince William Sound								
PWSAC	Armin F. Koernig	193.32						193.32
	Wally Noerenberg	119.36	151.53	1.42				272.31
	Cannery Creek	153.08						153.08
	Main Bay					9.74		9.74
	Gulkana					36.63		36.63
VFDA	Solomon Gulch	236.96		2.23				239.19
Prince William Sound Totals^c		702.72	151.53	3.66	0.00	46.37	0.00	904.28
Cook Inlet								
PGHC	Port Graham	57.17				0.16		57.33
CIAA	Trail Lakes			1.19		23.83		25.02
	Tutka Bay	73.20						73.20
ADF&G	Ship Creek Complex			1.69	1.41		4.89	7.99
Cook Inlet Totals^c		130.36	0.00	2.89	1.41	23.99	4.89	163.54
Kodiak								
KRAA	Kitoi Bay	181.11	28.98	2.12		0.42		212.64
	Pillar Creek			0.14	0.16	5.58		5.87
Kodiak Totals^c		181.11	28.98	2.26	0.16	6.00	0.00	218.52
Statewide Totals^c		1,104.86	681.49	34.68	12.45	93.87	4.95	1,932.29

^a Burro Creek and Sheep Creek egg takes are listed under Macaulay Hatchery.

^b Auke Creek Hatchery inactivated.

^c Some figures may not total exactly due to rounding.

Table 6. Alaskan hatchery releases in 2003, in millions of fish.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast^a								
SSRAA	Whitman Lake				0.70			0.70
	Kendrick Bay		10.63					10.63
	Nakat Inlet		8.50	0.31				8.80
	Anita Bay			0.22				0.22
	Neets Bay			3.13				
	Long Lake				0.26			0.26
	Neets Bay		39.03	2.08				41.10
	Nakat Inlet							0.00
	Anita Bay		5.41					5.41
	Burnett Inlet			0.25		0.04		0.29
	Hugh Smith Lake					0.42		0.42
	Neck Lake/Creek			1.70		0.36		2.06
	Crystal Lake			0.18	0.73			0.91
	Neets Bay				0.52			0.52
	Anita Bay				0.41			0.41
NSRAA	Hidden Falls		38.79	2.02	1.50			42.31
	Takatz Bay		36.63					36.63
	Medvejie	0.27	6.80	0.01	1.76			8.84
	Deep Inlet		41.41					41.41
	Deer Lake			2.47				2.47
	Shamrock Bay			0.22				0.22
	Haines projects		0.71					0.71
AKI	Port Armstrong	83.47		1.33	0.11			84.91
DIPAC	Macaulay (formerly Gastineau)		34.80	0.78	0.12			35.71
	Amalga Harbor		34.88					34.88
	Boat Harbor		12.22					12.22
	Limestone Inlet		14.00					14.00
	Skagway				0.06			0.06
	Fish Cr/Auke Bay/Twin L			0.01	0.13			0.14
	Snettisham					5.82		5.82
	Sweetheart Lake					0.53		0.53
	Tahltan/Tuya Lakes					3.75		3.75
	Tatsamenie Lake					1.35		1.35
KTHC	Deer Mountain			0.05	0.10		0.04	0.15
KNFC	Gunnuk Creek		6.56					6.56
	Southeast Cove		27.66					27.66
SJC	Sheldon Jackson	0.80	0.18	0.00	0.00			0.98
MIC	Tamgas Creek				0.59			0.59
POWHA	Klawock			2.91		0.36		3.27
NMFS	Little Port Walter				0.19		0.01	0.20
Southeast Totals^b		84.53	318.20	17.67	7.17	12.62	0.05	440.26
Prince William Sound								
PWSAC	Armin F. Koernig	146.41						146.41
	Wally Noerenberg	119.55	59.47	0.67				179.69
	Port Chalmers		23.52					23.52
	Whittier			0.10				0.10
	Cordova			0.10				0.10
	Chenega			0.05				0.05
	Sawmill Bay		15.66					15.66
	Gulkana I and II							
	Paxson Lake					11.28		11.28
	Crosswind Lake					8.36		8.36
	Summit Lake					6.60		6.60
	Cannery Creek	135.58						135.58
	Main Bay					6.58		6.58
VFDA	Solomon Gulch	206.40		1.28				207.67
Prince William Sound Totals^b		607.94	98.65	2.20	0.00	32.82	0.00	741.61
Cook Inlet^c								

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
PGHC	Port Graham	57.20				0.69		57.89
CIAA	Trail Lakes			0.66		1.80		2.46
	Tustamena Lake					6.02		6.02
	Kirschner/Leisure/Hazel					4.09		4.09
	Hidden Lake					0.63		0.63
	Meadow Creek					3.59		3.59
	Homer Spit			0.10				0.10
	Tutka Bay	67.97						67.97
ADF&G	Ship Creek Complex			0.94	2.09		1.76	4.80
	Ft. Richardson							0.00
Cook Inlet Totals^b		125.17	0.00	1.71	2.09	16.82	1.76	147.55
Kodiak								
KRAA	Kitoi Bay	144.82	18.72	1.06				164.61
	Crescent Lake			0.16				0.16
	Jennifer Lake			0.20				0.20
	Katmai			0.02				0.02
	Little Kitoi					0.29		0.29
	Ruth Lake			0.03				0.03
	Pillar Creek				0.03			0.03
	Crescent Lake					0.04		0.04
	Hidden Lake					0.03		0.03
	Island Lake			0.02				0.02
	Little Waterfall Lake					0.07		0.07
	Mission Lake			0.02				0.02
	Potato Lake			0.01				0.01
	Spiridon Lake					1.42		1.42
Kodiak Totals^b		144.82	18.72	1.52	0.03	1.85	0.00	166.95
Statewide Totals^b		962.47	435.57	23.10	9.30	64.12	1.81	1,496.36

^a No releases were made from Sheep Creek, Bell Island, or Burro Creek hatcheries.

^b Some figures may not total exactly due to rounding.

^c No releases were made from Eklutna Hatchery.

Table 7. Estimated adult returns, by species, to Alaska enhancement projects in 2003, including common property harvests, as reported by operators.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast^a								
SSRAA	Whitman Lake		394,710	71,092	26,625			492,427
	Neets Bay		1,889,820	297,180	12,470			2,199,470
	Burnett Inlet			136,100		111,317		247,417
	Crystal Lake			8,315	6,234			14,549
NSRAA	Hidden Falls		2,148,941	206,188	28,994			2,384,123
	Medvejie		1,107,909	61,409	48,914			1,218,232
	Haines projects		16,263			5,653		21,916
AKI	Port Armstrong	1,077,424		66,355				1,143,779
BCF	Burro Creek							0
DIPAC	Sheep Creek ^b							0
	Macaulay	123,483	2,619,712	84,613	9,189			2,836,997
	Snettisham ^c					313,581		313,581
KNFC	Gunnuk Creek		1,472,754	608				1,473,362
SJC	Indian River	101,110	9,109	1,962	132			112,313
POWHA	Klawock			76,671		10,074		86,745
MIC	Tamgas Creek		16,000	80,000	9,029	200		105,229
NMFS	Auke Creek							0
	Little Port Walter				2,483		80	2,563
KTHC	Deer Mountain			4,891	1,243		60	6,194
Southeast Totals		1,302,017	9,675,218	1,095,384	145,313	440,825	140	12,658,897
Prince William Sound								
PWSAC	Armin F. Koernig	7,065,581	4,881					7,070,462
	Wally Noerenberg	17,847,316	3,524,315	24,005				21,395,636
	Cannery Creek	8,288,949						8,288,949
	Main Bay					1,424,779		1,424,779
	Gulkana					317,319		317,319
ADF&G	Ship Creek Complex				1,059			1,059
VFDA	Solomon Gulch	17,374,811		203,398				17,578,209
Prince William Sound Totals		50,576,657	3,529,196	227,403	1,059	1,742,098	0	56,076,413
Cook Inlet^d								
PGHC	Port Graham	83,507				92,326		175,833
CIAA	Trail Lakes			18,164		1,689,754		1,707,918
	Tutka	860,005						860,005
ADF&G	Ship Creek Complex			61,917	24,051		135,530	221,498
Cook Inlet Totals		943,512	0	80,081	24,051	1,782,080	135,530	2,965,254
Kodiak								
KRAA	Kitoi Bay	6,951,906	506,906	157,844		29,802		7,646,458
	Fish Pass/Other			2,430		836,587		839,017
	Pillar Creek							0
Kodiak Totals		6,951,906	506,906	160,274	0	866,389	0	8,485,475
Statewide Totals		59,774,092	13,711,320	1,563,142	170,423	4,831,392	135,670	80,186,039

^a No enhanced fish returned to Auke Creek or Bell Island hatcheries.

^b Sheep Creek returns are listed under Macaulay Hatchery.

^c Estimates of Snettisham enhancement of sockeye returns to transboundary rivers are not included; they were unavailable at the time of this publication.

^d No fish returned to Eklutna Hatchery.

Table 8. Projected adult returns, by species, to Alaska enhancement projects in 2004.

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			24,000	17,000			41,000
	Earl West Cove		17,000					17,000
	Nakat Inlet		250,000	22,000				272,000
	Anita Bay		200,000	20,000	6,000			226,000
	Kendrick Bay		50,000					50,000
	Long Lake				4,000			4,000
	Neets Bay		1,595,000	300,000	14,000			1,909,000
	Burnett Inlet (under SSRAA)			25,000				25,000
	Neck Lake			120,000		35,000		155,000
	Salmon Lake					3,200		3,200
	Hugh Smith Lake					113,000		113,000
	McDonald Lake							0
	Crystal Lake			3,500	7,600			11,100
NSRAA	Hidden Falls		2,500,000	162,000	26,000			2,688,000
	Medvejie Creek		1,800,000	30,000	37,000			1,867,000
	Haines projects		9,976			3,709		13,685
AKI	Port Armstrong	2,504,129		133,135				2,637,264
BCF	Burro Creek				600			600
DIPAC	Macaulay (was Gastineau)		377,000	86,000	12,200			475,200
	Amalga Harbor		1,440,000					1,440,000
	Boat Harbor		182,000					182,000
	Limestone Inlet		99,000					99,000
	Snettisham					442,000		442,000
	Sweetheart Lake					3,400		3,400
	Taku River					5,200		5,200
	Stikine River					30,400		30,400
KTHC	Deer Mountain			8,200	1,136		22	9,358
KNFC	Gunnuk Creek		148,130	416				148,546
	Southeast Cove		1,363,460					1,363,460
SJC	Indian River	31,840	20,847	1,000	1,466			55,153
Federal	Little Port Walter				2,000		160	2,160
MIC	Tamgas		21,000	150,000	12,000	500		183,500
POWHA	Klawock			232,668		6,136		238,804
Southeast Totals		2,535,969	10,073,413	1,317,919	141,002	642,545	182	14,711,030
Prince William Sound								
PWSAC	Armin F. Koernig	8,651,000						8,651,000
	Wally Noerenberg	8,266,000	4,148,000	70,100				12,484,100
	Cannery Creek	7,545,000						7,545,000
	Main Bay					1,281,600		1,281,600
	Gulkana					134,000		134,000
VFDA	Solomon Gulch	11,578,906		132,105				11,711,011
Prince William Sound Totals		36,040,906	4,148,000	202,205	0	1,415,600	0	41,806,711
Cook Inlet								
PGHC	Port Graham	1,371,787				19,274		1,391,061
CIAA	Trail Lakes							
	Hazel/Leisure/ Chenik					49,000		49,000
	Big Lake					130,000		130,000
	Kirschner Lake					10,000		10,000
	Hidden Lake					127,000		127,000
	Bear Lake			16,400		52,100		68,500
	Tustumena Lake					427,000		427,000
	Tutka Bay	652,000						652,000
ADF&G	Ship Creek Complex*			66,917	25,561		134,673	227,151
Cook Inlet Totals		2,023,787	0	83,317	25,561	814,374	134,673	3,081,712
Kodiak								
KRAA	Kitoi Bay	7,897,313	423,102	168,948		8,796		8,498,159
	Pillar Creek			1,430		410,152		411,582
Kodiak Totals		7,897,313	423,102	170,378	0	418,948	0	8,909,741
Statewide Totals		48,497,975	14,644,515	1,773,819	166,563	3,291,467	134,855	68,509,194

* Ship Creek Complex is the combination of Elmendorf Hatchery and Fort Richardson Hatchery.

Table 9. Cumulative state loans and enhancement funds returned to associations as reported in: *Department of Community and Economic Development, Division of Investments — Fisheries Enhancement Revolving Loan Fund Program Overview.*

Region/Corporation (number of permits)	State Loans				Enhancement Funds Generated Through Assessments Returned to Associations via Contract		2003 Operator Reported Revenues ^a
	For Capital Construction		For Operations		FY 2004	Cumulative	
	FY 2003	Cumulative	FY 2003	Cumulative			
Southern Southeast							
SSRAA (Southern Southeast Regional Aquaculture Association) — (4) ^b	\$300,000	\$ 9,693,000		\$ 4,492,309	\$ 521,176	\$32,292,765	\$ 2,129,903
POWHA (Prince of Wales Hatchery Association) — (1)		\$ 400,000		\$ 1,469,000	\$ 0	\$ 0	\$ 145,958
KTHC (Ketchikan Tribal Hatchery Corporation) — (1)					\$ 0	\$ 0	\$ 63,551
Northern Southeast							
NSRAA (Northern Southeast Regional Aquaculture Association) — (3) ^b		\$ 2,724,265		\$ 1,816,496	\$ 749,220	\$24,162,032	\$ 2,130,852
AKI (Armstrong-Keta, Inc.) — (1)		\$ 3,565,145		\$ 4,087,595	\$ 0	\$ 0	\$ 219,347
BCF (Burro Creek Farms, Inc.) — (1)		\$ 143,500		\$ 290,875	\$ 0	\$ 0	\$ 0
DIPAC (Douglas Island Pink and Chum, Inc.) — (3)		\$ 9,364,000		\$13,664,000	\$ 0	\$ 0	\$ 4,045,700
KNFC (Kake Nonprofit Fisheries Corporation) — (1)		\$ 2,858,724		\$ 6,128,883	\$ 0	\$ 0	\$ 1,576,729
SJC (Sheldon Jackson College) — (1)		\$ 423,624			\$ 0	\$ 0	\$ 0
Prince William Sound							
PWSAC (Prince William Sound Aquaculture Association) — (3) ^d		\$24,475,419		\$ 5,585,500	\$ 529,186	\$15,088,373	\$ 7,019,389
VFDA (Valdez Fisheries Development Association) — (1)	\$152,744	\$ 5,046,443		\$ 8,024,246	\$ 0	\$ 0	\$ 3,100,953
Cook Inlet							
PGHC (Port Graham Hatchery Corporation) — (1)	\$592,000	\$ 1,106,500	\$ 495,855	\$ 635,155	\$ 0	\$ 0	\$ 135,671
CIAA (Cook Inlet Aquaculture Association) — (3) ^d		\$ 1,576,381	\$ 800,000	\$ 2,982,600	\$ 251,425	\$20,258,785	\$ 1,016,294
Kodiak							
KRAA (Kodiak Regional Aquaculture Association) — (2) ^d					\$ 294,159	\$11,994,958	\$ 482,931
Chignik							
CRAA (Chignik Regional Aquaculture Association) — (0) ^d					\$ 87,211	\$ 3,047,546	\$ 0
Statewide Totals	\$1,044,744	\$61,377,001	\$1,295,855	\$49,176,658	\$2,432,378	\$106,844,460	\$22,067,278

^a Data is preliminary and includes all reported revenue sources: cost recovery, carcass sale, donations, grants, etc.

^b A 3% mandatory assessment tax was collected from commercial fishermen.

^c A 2% mandatory assessment tax was collected from commercial fishermen.

Table 10. Salmon production from Alaska's hatcheries and enhancement projects.

Table 10(a). Summary of anadromous salmon production (all species) from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Releases	Returns	Year	Egg Takes	Releases	Returns
1966	NA	1	0	1985	995	659	16,650
1967	NA	1	0	1986	1,031	745	12,582
1968	NA	1	0	1987	1,274	754	24,994
1969	NA	1	0	1988	889	826	15,330
1970	NA	1	0	1989	1,418	1,087	34,530
1971	NA	1	0	1990	1,603	1,154	47,422
1972	NA	2	0	1991	1,634	1,319	46,109
1973	2	0	0	1992	1,725	1,323	23,187
1974	8	2	0	1993	1,685	1,475	32,609
1975	29	7	18	1994	1,758	1,302	55,172
1976	56	9	38	1995	1,913	1,503	38,062
1977	96	38	175	1996	1,687	1,638	49,229
1978	129	73	334	1997	1,734	1,363	50,839
1979	152	85	1,962	1998	1,776	1,453	56,468
1980	292	96	3,024	1999	1,791	1,435	71,276
1981	475	212	4,885	2000	1,762	1,476	62,960
1982	548	331	6,939	2001	1,792	1,481	61,729
1983	548	412	6,560	2002	1,862	1,484	49,345
1984	675	416	6,650	2003	1,927	1,495	80,050
				Total	33,265	25,650	859,126

Table 10(b). Summary of pink salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Releases	Returns	Year	Egg Takes	Releases	Returns
1974	5	0		1989	975	675	31,754
1975	15	5	18	1990	1,014	811	41,207
1976	23	4	16	1991	998	862	38,132
1977	66	18	175	1992	1,077	797	14,879
1978	79	50	321	1993	1,031	919	20,693
1979	91	60	1,591	1994	1,076	790	41,489
1980	174	64	2,310	1995	1,162	921	25,415
1981	328	135	4,371	1996	929	999	29,298
1982	344	218	6,610	1997	1,064	772	33,956
1983	406	264	5,939	1998	1,121	873	38,651
1984	443	332	5,298	1999	1,092	878	51,973
1985	604	366	14,158	2000	1,074	880	40,395
1986	511	484	9,044	2001	1,097	942	47,247
1987	840	443	21,960	2002	1,168	938	30,835
1988	736	730	13,838	2003	1,105	962	59,774

Table 10(c). Summary of chum salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Releases	Returns	Year	Egg Takes	Releases	Returns
1974	1	0		1989	293	310	1,347
1975	5	1		1990	450	241	2,039
1976	7	2		1991	480	365	2,181
1977	8	3	1	1992	510	428	3,089
1978	12	4	3	1993	496	469	6,709
1979	24	7	6	1994	529	407	8,996
1980	74	13	16	1995	596	473	9,808
1981	87	46	53	1996	590	535	16,353
1982	126	63	153	1997	524	485	12,595
1983	170	86	301	1998	517	479	13,468
1984	269	108	1,809	1999	571	461	15,072
1985	244	201	1,404	2000	576	508	18,698
1986	374	182	1,931	2001	564	468	9,167
1987	380	298	1,930	2002	549	451	12,565
1988	392	288	2,490	2003	681	436	13,711

Table 10(d). Summary of coho salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Releases	Returns	Year	Egg Takes	Releases	Returns
1966	NA	1		1985	20	15	308
1967	NA	1		1986	24	13	647
1968	NA	1		1987	26	15	451
1969	NA	1		1988	28	19	251
1970	NA	1		1989	23	16	489
1971	NA	0		1990	22	18	940
1972	NA	2		1991	23	14	1,251
1973	NA	2		1992	21	14	1,378
1974	NA	2		1993	25	15	915
1975	7	4	0	1994	28	18	1,306
1976	5	3	22	1995	27	21	1,312
1977	5	5		1996	30	21	1,087
1978	5	3		1997	36	23	1,456
1979	4	3	49	1998	30	21	1,365
1980	4	2	21	1999	26	22	1,553
1981	8	3	55	2000	28	19	1,631
1982	16	3	108	2001	29	21	1,799
1983	17	9	96	2002	36	20	2,120
1984	21	11	179	2003	35	23	1,563

Table 10(e). Summary of chinook salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Releases	Returns	Year	Egg Takes	Releases	Returns
1966	NA	0		1985	19	4	26
1967	NA	1		1986	16	6	40
1968	NA	0		1987	17	8	93
1969	NA	0		1988	18	9	75
1970	NA	0		1989	15	8	76
1971	NA	0		1990	17	10	116
1972	NA	0		1991	20	7	172
1973	NA	0		1992	13	10	131
1974	0	1		1993	12	12	112
1975	1	0		1994	13	10	126
1976	1	0		1995	14	7	171
1977	3	1		1996	11	7	171
1978	2	1	0	1997	12	7	150
1979	2	1	3	1998	13	8	104
1980	3	1	7	1999	12	8	112
1981	1	1	5	2000	11	9	159
1982	3	1	12	2001	13	10	188
1983	7	2	13	2002	16	8	157
1984	10	4	21	2003	12	9	170

Table 10(f). Summary of sockeye salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Releases	Returns	Year	Egg Takes	Releases	Returns
1972	NA	0		1988	107	69	1,166
1973	2	0		1989	112	77	864
1974	2	1		1990	100	74	3,120
1975	8	1		1991	113	70	4,373
1976	24	2		1992	104	74	3,710
1977	19	14	0	1993	122	61	4,180
1978	35	16	13	1994	112	77	3,255
1979	30	17	318	1995	115	81	1,356
1980	38	15	670	1996	127	75	2,320
1981	51	28	401	1997	98	75	2,682
1982	59	45	56	1998	95	72	2,879
1983	68	53	210	1999	91	67	2,566
1984	86	52	382	2000	74	60	2,076
1985	108	73	754	2001	89	39	3,328
1986	101	77	1,146	2002	93	67	3,668
1987	107	60	920	2003	94	64	4,831

Table 11. Summaries of salmon production in Alaska from private nonprofit hatcheries.

Table 11(a). Summary of statewide salmon production from private nonprofit hatcheries in Alaska, as reported by operators.

Year	Egg take (millions)	Fry release (millions)	Total return (thousands)	Cost recovery (thousands)	Cost recovery revenue
1975	8				
1976	17	4			
1977	37	12	160	109	
1978	37	27	161	215	
1979	54	29	357	253	\$272,000
1980	126	36	1,506	346	\$482,000
1981	224	102	2,564	856	\$1,274,640
1982	234	127	5,341	1,364	\$1,170,000
1983	261	170	4,286	886	\$671,000
1984	373	218	4,764	1,043	\$1,655,000
1985	470	302	8,106	1,854	\$1,902,000
1986	522	381	7,904	1,212	\$1,861,000
1987	868	461	19,097	4,184	\$6,562,000
1988	1,046	820	14,344	2,498	\$8,789,000
1989	1,109	860	24,045	15,012	\$16,611,000
1990	1,249	925	42,405	10,388	\$12,898,000
1991	1,326	1,087	40,265	13,170	\$6,317,000
1992	1,428	1,075	18,175	7,255	\$10,239,000
1993	1,613	1,426	27,781	4,848	\$7,340,000
1994	1,726	1,268	52,023	15,906	\$17,104,000
1995	1,877	1,174	37,593	9,554	\$12,924,000
1996	1,735	1,632	48,946	14,657	\$14,325,000
1997	1,713	1,349	50,629	19,352	\$16,111,000
1998	1,759	1,444	56,154	15,651	\$14,535,000
1999	1,778	1,428	71,140	22,608	\$21,759,078
2000	1,750	1,469	62,743	19,007	\$26,065,000
2001	1,779	1,473	59,885	18,398	\$22,196,000
2002	1,849	1,478	49,061	19,004	\$19,462,990
2003	1,914	1,491	79,847	23,029	\$19,999,879
Cumulative Hatchery Revenues from Special Harvests:					\$262,525,587

Table 11(b). Summary of pink salmon production from private nonprofit hatcheries in Alaska.

Year	Egg take (millions)	Fry release (millions)	Total return (thousands)	Cost recovery (thousands)
1975	8			
1976	16	4		
1977	35	12	160	109
1978	35	26	160	215
1979	47	28	356	253
1980	98	32	1,505	346
1981	188	79	2,491	838
1982	185	103	5,253	1,359
1983	186	127	4,087	843
1984	242	159	3,638	583
1985	340	199	7,405	1,699
1986	325	272	6,768	949
1987	618	299	17,964	3,625
1988	645	626	12,258	2,008
1989	806	553	22,561	14,529
1990	789	685	39,920	9,846
1991	831	704	37,081	12,367
1992	883	648	13,200	5,977
1993	1,029	920	19,844	2,740
1994	1,075	787	40,939	13,384
1995	1,162	621	25,415	6,819
1996	929	999	29,298	9,401
1997	1,064	772	33,956	14,027
1998	1,121	873	38,652	10,693
1999	1,092	878	51,973	17,623
2000	1,074	880	40,395	12,381
2001	1,097	942	47,247	14,564
2002	1,168	938	30,835	12,916
2003	1,105	962	59,774	15,447

Table 11(c). Summary of chum salmon production from private nonprofit hatcheries in Alaska.

Year	Egg take (millions)	Fry release (millions)	Total return (thousands)	Cost recovery (thousands)
1975	<1	<1		
1976	<1	<1		
1977	2	<1		
1978	2	1	1	0
1979	7	1	<1	0
1980	27	3	2	0
1981	32	22	21	12
1982	46	24	22	<1
1983	69	42	127	35
1984	122	55	1,001	437
1985	119	98	525	123
1986	181	100	780	189
1987	235	150	955	499
1988	370	186	1,835	470
1989	267	287	1,102	298
1990	425	217	1,633	370
1991	442	359	1,959	404
1992	495	394	3,079	706
1993	458	452	6,387	1,782
1994	520	402	8,783	2,128
1995	590	463	9,800	2,252
1996	651	534	16,205	4,782
1997	517	477	13,250	4,643
1998	513	479	13,423	4,355
1999	568	460	15,072	4,361
2000	572	508	18,698	6,060
2001	560	468	7,620	3,104
2002	547	450	12,561	5,074
2003	675	436	13,686	6,534

Table 11(d). Summary of coho salmon production (thousands) from private nonprofit hatcheries in Alaska.

Year	Egg take (millions)	Juvenile release (millions)	Total return (thousands)	Cost recovery (thousands)
1975	<1			
1976	<1			
1977	<1	<1		
1978	1	<1	<1	
1979	1	<1	<1	
1980	1	1	<1	
1981	3	1	52	6
1982	3	1	62	2
1983	6	2	72	7
1984	6	3	121	22
1985	4	4	168	30
1986	8	4	345	73
1987	9	5	169	58
1988	13	5	122	11
1989	14	9	305	89
1990	14	11	692	141
1991	16	12	1,001	368
1992	17	10	1,070	378
1993	19	11	657	144
1994	24	13	1,189	240
1995	22	14	966	319
1996	28	20	1,041	253
1997	26	18	921	258
1998	23	17	1,124	342
1999	20	18	1,452	372
2000	22	15	1,456	320
2001	23	17	1,561	433
2002	31	17	1,875	766
2003	30	22	1,421	395

Table 11(e). Summary of chinook salmon production from private nonprofit hatcheries in Alaska.

Year	Egg take (millions)	Juvenile release (millions)	Total return (thousands)	Cost recovery (thousands)
1980	<1			
1981	<1			
1982	<1	<1	4	3
1983	1	<1	1	0
1984	3	<1	4	1
1985	6	1	8	2
1986	7	4	11	1
1987	5	6	9	2
1988	7	2	23	9
1989	7	3	37	18
1990	9	5	60	22
1991	10	4	70	26
1992	7	6	42	23
1993	5	7	54	26
1994	6	6	58	15
1995	6	4	98	28
1996	8	4	97	34
1997	8	5	85	32
1998	7	5	76	19
1999	7	5	77	16
2000	8	7	117	37
2001	10	7	130	49
2002	10	6	122	33
2003	10	6	134	49

Table 11(f). Summary of sockeye salmon production from private nonprofit hatcheries in Alaska.

Year	Egg take (millions)	Fry release (millions)	Total return (thousands)	Cost recovery (thousands)
1985	<1			
1986	1	<1		
1987	2	1		
1988	11	1	66	0
1989	15	8	40	79
1990	12	8	101	9
1991	27	8	154	5
1992	26	16	784	171
1993	103	37	839	156
1994	100	60	1,054	139
1995	97	72	1,313	136
1996	119	75	2,306	187
1997	98	77	2,417	392
1998	95	71	2,880	242
1999	91	67	2,566	236
2000	74	60	2,076	209
2001	89	39	3,327	248
2002	93	67	3,668	216
2003	94	64	4,831	604

Table 12. Alaska commercial salmon fishery harvest average weights and prices, 2003.

Area/Species	Average Harvest ^a		
	Weight (lb)	Price/lb.	
Cook Inlet	Chinook	17.67	\$0.97
	Sockeye	6.15	\$0.60
	Coho	6.57	\$0.24
	Pink	3.26	\$0.05
	Chum	7.35	\$0.14
Kodiak	Chinook	10.22	\$0.46
	Sockeye	5.36	\$0.53
	Coho	7.67	\$0.16
	Pink	3.55	\$0.07
	Chum	7.16	\$0.11
Prince William Sound	Chinook	22.00	\$3.40
	Sockeye	6.06	\$1.10
	Coho	8.27	\$0.45
	Pink	3.52	\$0.10
	Chum	7.04	\$0.18
Southeast	Chinook	15.45	\$1.12
	Sockeye	6.20	\$0.85
	Coho	7.45	\$0.65
	Pink	3.51	\$0.06
	Chum	7.18	\$0.19

^a Data from the Alaska Department of Fish and Game website: <http://www.state.ak.us/adfg/geninfo/finfish/salmon/salmhome.htm>. Accessed 01/22/2004.

Table 13. Alaska state hatchery FY2003 operating budgets, in thousands of dollars.

Hatchery	FY2003	FY2003
	Authorized Total	Actual Total
Elmendorf Hatchery	\$ 488.80	\$ 526.36
Ft. Richardson Hatchery	\$1,026.00	\$ 929.51
Crystal Lake Hatchery ^a	\$ 192.70	\$ 192.70

^a Crystal Lake Hatchery was also funded with \$192,700 from the Southeast Sustainable Salmon Fund, and with \$200,000 from the Southern Southeast Regional Aquaculture Association.

Table 14. Detailed return information, by species, to 2003 Alaska enhancement program projects.

Table 14(a). Estimated pink salmon returns to Alaska hatcheries in 2003, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest					Other	Brood	Cost Recovery		Total
	Seine	Gillnet	Troll	Sport	Personal Use/Subsistence			Harvest	Escapement	
Southeast										
AKI Port Armstrong	478,855					65,000	153,541	380,028		1,077,424
DIPAC Macaulay (was Gastineau)	11,493	11,493		2,295		50,331		47,871		123,483
SJC Sitka						201	909		100,000	101,110
NMFS Little Port Walter										0
Southeast Totals	490,348	11,493	0	2,295	0	115,532	154,450	427,899	100,000	1,302,017
Prince William Sound										
PWSAC Armin F. Koernig	4,494,486					350,000	714,927	1,506,168		7,065,581
Wally Noerenberg	12,422,082						750,435	4,674,799		17,847,316
Cannery Creek	5,390,008					150,000	296,367	2,452,574		8,288,949
VFDA Solomon Gulch	11,871,024			30,000		1,000,000	251,151	4,176,473	46,163	17,374,811
Prince William Sound Totals	34,177,600	0	0	30,000	0	1,500,000	2,012,880	12,810,014	46,163	50,576,657
Cook Inlet										
PGHC Port Graham					266		78,241		5,000	83,507
CIAA Tutka	90	3,834		1,500			189,120	634,320	31,141	860,005
Cook Inlet Totals	90	3,834	0	1,500	266	0	267,361	634,320	36,141	943,512
Kodiak										
KRAA Kitoi Bay	5,013,172				1,077	63,903	239,033	1,574,721	60,000	6,951,906
Kodiak Totals	5,013,172	0	0	0	1,077	63,903	239,033	1,574,721	60,000	6,951,906
Statewide Totals	39,681,210	15,327	0	33,795	1,343	1,679,435	2,673,724	15,446,954	242,304	59,774,092

Table 14(b). Estimated chum salmon returns to Alaska hatcheries in 2003, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest					Personal Use/Subsistence	Other	Brood	Cost Recovery		Total
	Seine	Gillnet	Troll	Sport	Harvest				Escapement		
Southeast											
SSRAA	Whitman Lake										
	Nakat Inlet – summer	93,200	85,000								178,200
	Anita Bay -summer	9,700	9,960								19,660
	Earl West Cove – summer	32,700	89,250								121,950
	Kendrick Bay – summer	69,900	5,000								74,900
	Neets Bay – summer	172,300	81,100	170,700			14,100	105,400	841,200		1,384,800
	Neets Bay – fall	51,100	85,200	20			9,400	44,500	205,100		395,320
	Nakat Inlet – fall	5,500	104,200								109,700
NSRAA	Medvejie	528,146	210,948	87,582			18,940	28,671	230,722	2,900	1,107,909
	Hidden Falls	1,342,396		9,127			43,523	123,930	629,965		2,148,941
	Haines projects		14,277					620		1,366	16,263
DIPAC	Sheep Creek										0
	Macaulay (was Gastineau)	6,814	79,834	295	1,933		85,162	98,668	19,210		291,916
	Amalga	57,973	270,032	1,410					1,826,922		2,156,337
	Limestone Inlet	11,818	56,445	49							68,312
	Boat Harbor	10,815	92,316	16							103,147
KNFC	Gunnuk Creek	11,713		100	150		3,305	90,439		917	106,624
	Southeast Cove	135,038		500			10,000		1,220,592		1,366,130
SJC	Sitka	9,082					6	21			9,109
MIC	Tamgas Creek*										16,000
Southeast Totals		2,548,195	1,183,562	269,799	2,083	0	184,436	492,249	4,973,711	5,183	9,675,218
Prince William Sound											
PWSAC	Wally Noerenberg	390,242	617,347					178,142	1,553,595		2,739,326
	Pt. Chalmers	784,989									784,989
	Armin F. Koernig	4,881									4,881
Prince William Sound Totals		1,180,112	617,347	0	0	0	0	178,142	1,553,595	0	3,529,196
Kodiak											
KRAA	Kitoi Bay	459,815					2,351	31,350	6,390	7,000	506,906
Kodiak Totals		459,815	0	0	0	0	2,351	31,350	6,390	7,000	506,906
Statewide Totals		4,188,122	1,800,909	269,799	2,083	0	186,787	701,741	6,533,696	12,183	13,711,320

* Hatchery operator reported the total return but did not break out the return by user groups.

Table 14(c). Estimated coho salmon returns to Alaska hatcheries in 2003, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Cost Recovery				Total
		Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	
Southeast											
SSRAA	Whitman Lake	2,160	6,600	11,070	2,160		2,838	2,864			27,692
	Anita Bay	300	9,400	9,100	1,300						20,100
	Nakat	1,350	12,200	8,600	1,150						23,300
	Neets Bay	24,100	84,900	104,120	20,100		6,900	160	56,900		297,180
	Burnett Inlet	4,600	3,300	1,600	1,100		3,300	2,400	14,400		30,700
	Neck Lake	10,900	27,000	6,900	6,700				50,400	3,500	105,400
	Crystal Lake Hatchery	400	1,400	1,100	4,000		1,280	135			8,315
NSRAA	Medvejie	145	2	489	235		244	234			1,349
	Deer Lake	1,439		13,896	1,767		1,541		34,075		52,718
	Shamrock Cove	22		5,432	1,488		400				7,342
	Hidden Falls	8,644	195	38,828	3,190		6,776	2,844	140,908	4,000	205,385
	Patterson Bay	71		295	37					400	803
AKI	Port Armstrong	2,330		19,890	951		15,420	2,494	25,270		66,355
KNFC	Gunnuk Creek	9	191	93	11			304			608
DIPAC	Macaulay (was Gastineau)	2,887	3,608	11,188	14,869		2,556	591	48,914		84,613
	Sheep Creek										0
KTHC	Deer Mountain	962	652	415	909		519	124	310	1,000	4,891
SJC	Sitka			1,959			3				1,962
BCF	Burro Creek										0
POWHA	Klawock Hatchery	11,365	44	28,037	6,407	500	4,919	1,859	17,543	5,997	76,671
MIC	Tangas Creek*										80,000
NMFS	Auke Creek										0
Southeast Totals		71,684	149,492	263,012	66,374	500	46,696	14,009	388,720	14,897	1,095,384
Prince William Sound											
PWSAC	Wally Noerenberg	724	8,900		1,000			1,314			11,938
	Cordova/Whittier/Chenega				12,067						12,067
VFDA	Solomon Gulch	63,132			118,800		15,425	1,749	4,087	205	203,398
Prince William Sound Totals		63,856	8,900	0	131,867	0	15,425	3,063	4,087	205	227,403
Cook Inlet											
CIAA	Trail Lakes				14,637		25	879	2,228	395	18,164
ADF&G	Ship Creek Complex		3,981		14,766			216		220	19,183
	Homer Spit				6,377						6,377
	Resurrection Bay				24,379			355			24,734
	Campbell Creek		1,251		1,010			79		3,082	5,422
	Eklutna tailrace		1,800		4,267			134			6,201
Cook Inlet Totals		0	7,032	0	65,436	0	25	1,663	2,228	3,697	80,081
Kodiak											
KRAA	Kitoy Bay	135,049			60	9,340	9,000	4,395			157,844
	Pillar Creek- road system				1,430	1,000					2,430
Kodiak Totals		135,049	0	0	1,490	10,340	9,000	4,395	0	0	160,274
Statewide Totals		270,589	165,424	263,012	265,167	10,840	71,146	23,130	395,035	18,799	1,563,142

* Hatchery operator reported the total return but did not break out the return by user groups.

Table 14(d). Estimated chinook salmon returns to Alaska hatcheries in 2003, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest					Cost Recovery				Total	
	Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement		
Southeast											
SSRAA	Whitman Lake	120	140	5,700	2,180		7,426	999		2,500	19,065
	Earl West Cove	390	6,260	670	240						7,560
	Neets Bay	380	280	3,240	1,870		350		6,350		12,470
ADF&G	Crystal Lake Hatchery	60	530	520	4,590		534				6,234
NSRAA	Medvejie	966	922	9,387	3,140		2,845	1,609	30,045		48,914
	Hidden Falls	4,648	15	6,313	640		4,475	837	12,066		28,994
BCF	Burro Creek										0
DIPAC	Macaulay (was Gastineau)	15	522	543	5,415		1,295	1,024	177	198	9,189
KTHC	Deer Mountain Hatchery	569	42	263			76	78		215	1,243
SJC	Sitka			59						73	132
MIC	Tamgas Creek*										9,029
NOAA	Little Port Walter	37	9	697	54		1,384	302			2,483
Southeast Totals		7,185	8,720	27,392	18,129	0	18,385	4,849	48,638	2,986	145,313
Prince William Sound											
ADF&G	Ship Creek Complex				1,059						1,059
Prince William Sound Totals		0	0	0	1,059	0	0	0	0	0	1,059
Cook Inlet											
ADF&G	Ship Creek Complex										
	Seldovia		107		301	67					475
	Resurrection Bay				2,845						2,845
	Homer Spit				1,709	12					1,721
	Ship Creek				3,681			232		1,789	5,702
	Halibut Cove		665		519						1,184
	Crooked Creek				2,409	164		185		1,952	4,710
	Ninilchik River				736			290		336	1,362
	Eklutna tailrace				400						400
	Deception Creek		40		1,687			194		3,731	5,652
Cook Inlet Totals		0	812	0	14,287	243	0	901	0	7,808	24,051
Statewide Totals		7,185	9,532	27,392	33,475	243	18,385	5,750	48,638	10,794	170,423

* Hatchery operator reported the total return but did not break out the return by user groups.

Table 14(e). Estimated sockeye salmon returns to Alaska hatcheries in 2003, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest					Cost Recovery				
	Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	Total
Southeast										
SSRAA	Hugh Smith L	300	200						19,568	20,068
	McDonald Lake	200	400				406		89,243	90,249
	Burnett Inlet	200	400			200	200			1,000
POWHA	Klawock Hatchery				2,500	252	1,060		6,262	10,074
DIPAC	Snettisham	8,002	66,953		385	32,168	4,439	113,052		224,999
	Sweetheart Lake	894	4,329		2,000					7,223
	Stikine River		17,733			37,716	1,726		21,694	78,869
	Taku River		794		6	265			1,425	2,490
NSRAA	Haines projects		1,922			1,853	26		1,852	5,653
MIC	Tamgas Creek*									200
Southeast Totals		9,596	92,731	0	0	4,891	72,454	7,857	113,052	140,044
Prince William Sound										
PWSAC	Main Bay	118,993	928,140		4,000			6,878	366,768	1,424,779
	Gulkana I and II		60,960			42,647	1,116	8,314	817	113,854
	Crosswind Lake		91,721			48,525	27,251	6,119		173,616
	Summit Lake		5,010			23,432			1,407	29,849
Prince William Sound Totals		118,993	1,085,831	0	4,000	114,604	28,367	21,311	366,768	1,742,098
Cook Inlet										
PGHC	Port Graham		24,665				378	200	46,988	20,095
CIAA	Trail Lakes – Bear Creek	7,341						3,735	2,754	9,498
	Hidden Lake		21,066	2,898	2,468			742	349	10,992
	Meadow Creek		55,284	250	250	346	5,383			86,569
	Leisure/Hazel Lakes		391,771	650	4,900	121			35,556	432,998
	Tustumena Lake		568,850	6,600	63,000		10,251		347,782	996,483
	Kirschner Lake		11,607					38,741		50,348
Cook Inlet Totals		7,341	1,073,243	0	10,398	70,618	845	20,311	124,388	474,936
Kodiak										
KRAA	Kitoi Bay	28,155			65	82			1,500	29,802
	Pillar Creek									
	Settler's Cove	1,532				1,000				2,532
	Afognak Lake							316	27,450	27,766
	Malina Lake	17,300				1,000			12,000	30,300
	Perenosa/Paul's Lakes	9,700							23,594	33,294
	Spiridon Lake	455,086	183,597							638,683
	Ruth Lake	1,876								1,876
	Foul Bay	51,182								51,182
	Waterfall Bay	50,954								50,954
	Frazer Lake Fishpass									0
Kodiak Totals		615,785	183,597	0	65	2,082	0	316	0	64,544
Statewide Totals		751,715	2,435,402	0	14,463	192,195	101,666	49,795	604,208	4,831,392

* Hatchery operator reported the total return but did not break out the return by user groups.

Table 14(f). Estimated "other" enhanced fish returns to Alaska hatcheries in 2003.

Area/Operator/Location		Species	Commercial	Sport Catch	Personal Use/Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast										
DMTH	Deer Mountain	Steelhead					6		54	60
NMFS	Little Port Walter	Steelhead	40	40						80
Southeast Totals			0	0	0	0	6	0	54	140
Cook Inlet										
ADF&G	Ship Creek Hatchery Complex	Arctic char		5,998			310			6,308
		Arctic grayling		3,596			85			3,681
		Lake trout		857						857
		Landlocked salmon		32,495						32,495
		Rainbow trout		89,966			2,223			92,189
Cook Inlet Totals			0	132,912	0	0	2,618	0	0	135,530
Statewide Totals			0	132,912	0	0	2,624	0	54	135,670



Table 15. Summary of salmon production in 2003 from Fish Resource Permits issued by the Alaska Department of Fish and Game.

Area/Permittee	Species	Maximum Number to be Released
Southeast		
Juneau Center for Fisheries & Ocean Sciences	CHINOOK	12,000
Juneau-Douglas High School	COHO	3,000
Petersburg High School	PINK	50,000
Skagway School	PINK, COHO, CHINOOK	30,000, 12,000 & 20,000
Thorne Bay Elementary	COHO	500
USDA Forest Service	COHO	90,000
Point Higgins Elementary (Ketchikan)	CHUM	100
Keet Gooshi Heen Elementary (Sitka)	CHUM	300
Hydaburg School	COHO	500
Yakutat Elementary School	COHO	500
Southcentral		
Abbott Loop Elementary (Anchorage)	COHO	500
Alpenglow Elementary (Eagle River)	COHO	500
Anchorage Montessori School	COHO	500
Aquarian Charter (Anchorage)	COHO	500
Atheneum School	COHO	500
Baxter Elementary School (Anchorage)	COHO	500
Bayshore Elementary (Anchorage)	COHO	500
Bear Valley Elementary (Anchorage)	COHO	500
Butte Elementary School (Palmer)	COHO	500
Clarkl Middle School (Anchorage)	COHO	500
Chugach Optional	COHO	500
Chapman School (Anchor Point)	COHO	500
Chugiak High School (Eagle River)	COHO	500
College Gate Elementary (Anchorage)	COHO	500
Colony Middle School (Palmer)	COHO	500
Creekside Elementary (Anchorage)	COHO	500
Denali Elementary (Anchorage)	COHO	500
Eagle River Elementary	COHO	500
Dimond High School	COHO	500
Fairview Elementary (Anchorage)	COHO	500
Fire Lake Elementary	COHO	500
Finger Lake Elementary (Palmer)	COHO	500
Girdwood School	COHO	500
Gladys Wood Elementary (Anchorage)	COHO	500
Goldenview Middle School (Anchorage)	COHO	500
Goose Bay Elementary (Palmer)	COHO	500
Homer High School	COHO	500
Homestead Elementary (Eagle River)	COHO	500
Huffman Elementary (Anchorage)	COHO	500
Glacier View Elementary	COHO	500
Inlet View Elementary (Anchorage)	COHO	500
Kalifornsky Beach Elementary (Soldotna)	COHO	500
Kasuun Elementary (Anchorage)	COHO	500
Hanshew Middle School	COHO	500
Kenny Lake School (Copper Center)	COHO	500
King Career Center (Anchorage)	COHO	500
Klatt Elementary (Anchorage)	COHO	500
Lake Hood Elementary (Anchorage)	COHO	500
Meadow Lakes Elementary (Wasilla)	COHO	500
Midnight Sun Family Learning Center (Wasilla)	COHO	500
Mirror Lake Middle School (Chugiak)	COHO	500
Larson Elementary (Wasilla)	COHO	500
Mountain View Elementary (Anchorage)	COHO	500
Mt. Iliamna Elementary (Elmendorf AFB)	COHO	500
Mt. View Elementary (Kenai)	COHO	500
Muldoon Elementary	COHO	500
Nanwalek Elem/High School	COHO	500
Nikiski Elementary	COHO	500
Ninilchik School	COHO	500
Northern Lights ABC (Anchorage)	COHO	500
New Ideas Homeschool (Wasilla)	COHO	500
Nunaka Valley Elementary (Anchorage)	COHO	500
Ocean View Elementary (Anchorage)	COHO	500
O'Malley School (Anchorage)	COHO	500
Orion Elementary (Elmendorf AFB)	COHO	500
Palmer Junior Middle School	COHO	500
Pioneer Peak Elementary School (Palmer)	COHO	500

Area/Permittee	Species	Maximum Number to be Released
Polaris K-12 School (Anchorage)	COHO	500
Rabbit Creek Elementary (Anchorage)	COHO	500
Redoubt Elementary (Soldotna)	COHO	500
Russian Jack Elementary (Anchorage)	COHO	500
Rogers Park Elementary (Anchorage)	COHO	500
SAVE High School (Anchorage)	COHO	500
Scenic Park Elementary (Anchorage)	COHO	500
Sears Elementary (Kenai)	COHO	500
Sherrod Elementary (Palmer)	COHO	500
Service High School	COHO	500
Sterling Elementary	COHO	500
Susitna Elementary (Anchorage)	COHO	500
Swanson Elementary (Palmer)	COHO	500
Taku Elementary (Anchorage)	COHO	500
Tannaina Elementary (Wasilla)	COHO	500
Teeland Middle School	COHO	500
Trailside Elementary School (Eagle River)	COHO	500
Tudor Elementary (Anchorage)	COHO	500
Turnagain Elementary (Anchorage)	COHO	500
Tustumena Elementary (Kasilof)	COHO	500
UAK Cooperative Extension Service (Palmer)	COHO	500
Village Charter School	COHO	500
Ursa Minor Elementary	COHO	500
Talkeetna Elementary	COHO	500
Williwaw Elementary	COHO	500
Wasilla Middle School	COHO	500
Whaley Elementary	COHO	500
Willow Crest Elementary (Anchorage)	COHO	500
Interior		
Anderson School	COHO	500
Arctic Light Elementary (Ft. Wainwright)	COHO	500
ADFG Region III Lobby	COHO	500
Delta Junction High School	COHO	500
Joy Elementary (Fairbanks)	COHO	500
Monroe Catholic Jr. High (Fairbanks)	COHO	500
North Pole Middle School	COHO	500
Chinook Charter School	COHO	500
Nordale Elementary (Fairbanks)	COHO	500
Pearl Creek Elementary (Fairbanks)	COHO	500
Ryan Middle School (Fairbanks)	COHO	500
Tok School	COHO	500
Tri-Valley School (Healy)	COHO	500
University Park Elementary (Fairbanks)	COHO	500
Weller Elementary (Fairbanks)	COHO	500
Whitestone Training Center (Delta Junction)	COHO	500
Woodriver Elementary (Fairbanks)	COHO	500
Western		
Chiniak School	COHO	500
East Elementary School (Kodiak)	COHO	500
Perryville School	COHO	800
Peterson Elementary School (Kodiak)	COHO	500
Kodiak High School	COHO	500
King Cove School	COHO	500
Main Elementary (Kodiak)	COHO	500
North Star Elementary (Kodiak)	COHO	500
Togiak School	COHO	500
Unalaska High School	COHO	9,000
Port Heiden School	COHO	500
Old Harbor School	COHO	500
Kokhanok School	COHO	500
Newhalen School	COHO	500
St. Mary's School	COHO	500
Arctic-Yukon-Kuskokwim		
Crow Village Sam School (Chuathbaluk)	COHO	500
Circle School	COHO	250
Hooper Bay School	COHO	500
Norton Sound Economic Development Corp.	CHUM	10,000
Johnny Oldman School (Hughes)	COHO	500
Kotzebue Jr./Sr. High School	COHO	500
Ketacik Aappalluk Memorial School (Kwethluk)	COHO	500
Jimmy Huntington School (Huslia)	COHO	500
Napaaqtuqmiut School (Noatak)	COHO	500
Rocky Mountain School (Goodnews Bay)	COHO	500

Area/Permittee	Species	Maximum Number to be Released
Noorvik Elementary	COHO	500
Quinhagak School	COHO	500
Zackar Levi Elementary School (Lower Kalstag)	COHO	500
Trapper School (Nuiqsut)	COHO	500

Table 16. Updated return information, by species, to 2002 Alaska enhancement program projects.

Table 16(a). Updated pink salmon returns to Alaska hatcheries in 2002, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest					Cost Recovery				Total
	Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	
Southeast										
AKI Port Armstrong	883,967					50,000	118,913	936,046		1,988,926
DIPAC Macaulay (was Gastineau)	22,027			1,079		51,910		40,090		115,106
SJC Sitka	41,934					70	2,440			44,444
NMFS Little Port Walter							358			358
Southeast Totals	947,928	0	0	1,079	0	101,980	121,353	976,136	0	2,148,834
Prince William Sound										
PWSAC Armin F. Koernig	5,269,324						368,694	2,144,816		7,782,834
Wally Noerenberg	1,474,723	94,545					340,198	3,707,656		5,617,122
Cannery Creek	642,560						330,141	615,902		1,588,603
VFDA Solomon Gulch	391,444			23,560		93,921	312,864	4,430,173	13,277	5,265,239
Prince William Sound Totals	7,778,051	94,545	0	23,560	0	93,921	1,351,897	10,898,547	13,277	20,253,798
Cook Inlet										
PGHC Port Graham		5,000				55,000	96,433	235,397		391,830
CIAA Tutka	498	4,293					156,344	806,132		967,267
Cook Inlet Totals	498	9,293	0	0	0	55,000	252,777	1,041,529	0	1,359,097
Kodiak										
KRAA Kitoi Bay	6,696,774						336,386		40,000	7,073,160
Kodiak Totals	6,696,774	0	0	0	0	0	336,386	0	40,000	7,073,160
Statewide Totals	15,423,251	103,838	0	24,639	0	250,901	2,062,413	12,916,212	53,277	30,834,889

Table 16(b). Updated chum salmon returns to Alaska hatcheries in 2002, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Cost Recovery				Total
		Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	
Southeast											
SSRAA	Whitman Lake										
	Nakat Inlet – summer	65,600	40,200								105,800
	Nakat Inlet- Fall										0
	Earl West Cove – summer	17,700	51,000								68,700
	Kendrick Bay – summer	62,500	1,900								64,400
	Neets Bay – summer	81,600	31,400	25,600			48,800	90,200	555,900		833,500
	Neets Bay – fall	25,600	20,900				8,100	20,300	106,300		181,200
NSRAA	Medvejje	285,345	186,584	80,585			100	37,969	176,972	1,000	768,555
	Hidden Falls	1,225,544		4,991			1,039	107,221	281,695		1,620,490
	Haines projects		5,840					850		1,733	8,423
DIPAC	Sheep Creek										0
	Macaulay (was Gastineau)		102,196		1,706			98,800	4,777		207,479
	Amalga		451,778	622					1,151,413		1,603,813
	Limestone Inlet		106,597								106,597
	Boat Harbor		143,912								143,912
KNFC	Gunnuk Creek	14,237		500	150		2,100	56,218		630	73,835
	Southeast Cove	60,458		500			2,000		241,830		304,788
SJC	Sitka	2,094					42	196		5	2,337
MIC	Tamgas Creek		2,000					1,500			3,500
Southeast Totals		1,840,678	1,144,307	112,798	1,856	0	62,181	413,254	2,518,887	3,368	6,097,329
Prince William Sound											
PWSAC	Wally Noerenberg	794,794	1,636,007					211,833	2,554,826		5,197,460
	Pt. Chalmers	1,071,478									1,071,478
	Armin F. Koernig		54,464								54,464
Prince William Sound Totals		1,866,272	1,690,471	0	0	0	0	211,833	2,554,826	0	6,323,402
Kodiak											
KRAA	Kitoy Bay	88,724						54,523		1,000	144,247
Kodiak Totals		88,724	0	0	0	0	0	54,523	0	1,000	144,247
Statewide Totals		3,795,674	2,834,778	112,798	1,856	0	62,181	679,610	5,073,713	4,368	12,564,978

Table 16(c). Updated coho salmon returns to Alaska hatcheries in 2002, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Cost Recovery				Total
		Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	
Southeast											
SSRAA	Whitman Lake	4,367	2,340	6,751	753		7,467	2,078			23,756
	Anita Bay	100	8,100	7,900	200						16,300
	Nakat	2,000	4,800	5,200	700						12,700
	Neets Bay	40,600	79,300	99,900	16,900		12,328		119,000		368,028
	Burnett Inlet	1,697	5,476	1,244	201		4,000	2,115	11,266		25,999
	Neck Lake	1,887	16,027	5,023	405		3,000		32,748		59,090
	Crystal Lake Hatchery	200	100	600	200		2,833	262			4,195
NSRAA	Medvejje		9	268	115		294	328			1,014
	Deer Lake	3,417		26,272	2,253		562		75,440		107,944
	Shamrock Cove	40		5,083	478					375	5,976
	Hidden Falls	33,883	1,181	71,991	3,470		17,673	3,296	285,824		417,318
	Patterson Bay	527		6,154	135		5,052		5,148		17,016
AKI	Port Armstrong	3,178	34	58,219	1,815		25,700	1,451	136,712		227,109
	Gunnuk Creek	12	56	176	8					252	504
DIPAC	Macaulay (was Gastineau)	3,854	3,592	13,917	16,444		2,932	846	66,100		107,685
	Sheep Creek										0
KTHC	Deer Mountain	1,743	763	512	1,282		2,355	312			6,967
SJC	Sitka			550			1	76			627
BCF	Burro Creek										0
POWHA	Klawock Hatchery	11,203	46	27,692	24,519		3,762	1,001	23,772	13,601	105,596
MIC	Tamgas Creek	7,938	49,000	15,230	1,500			2,000	53,030		128,698
NMFS	Auke Creek										0
Southeast Totals		116,646	170,824	352,682	71,378	0	87,959	13,765	809,040	14,228	1,636,522
Prince William Sound											
PWSAC	Wally Noerenberg	2,431	784		500		1,000	1,389			6,104
	Cordova/Whittier/Chenega				22,198						22,198
VFDA	Solomon Gulch	25,017			44,160		19,862	1,461	8,000		98,500
Prince William Sound Totals		27,448	784	0	66,858	0	20,862	2,850	8,000	0	126,802
Cook Inlet											
CIAA	Trail Lakes				1,753			864	2,352	875	5,844
ADF&G	Elmendorf										
	Campbell Creek		2,270		1,144					6,013	9,427
	Resurrection Bay				24,640			180			24,820
	Ft Richardson										
	Homer Spit				14,508						14,508
	Landlocked				31,471						31,471
	Ship Creek		6,680		16,781			378		3,560	27,399
	Eklutna tailrace		1,804		7,073			94			8,971
Cook Inlet Totals		0	10,754	0	97,370	0	0	1,516	2,352	10,448	122,440
Kodiak											
KRAA	Kitoy Bay	209,259			160		8,000	4,428		1,000	222,847
	Pillar Creek- road system				1,000			54		10,595	11,649
Kodiak Totals		209,259	0	0	1,160	0	8,000	4,482	0	11,595	234,496
Statewide Totals		353,353	182,362	352,682	236,766	0	116,821	22,613	819,392	36,271	2,120,260

Table 16(d). Updated chinook salmon returns to Alaska hatcheries in 2002, including common property harvests, as reported by operators.

Region/Operator/Location		Common Property Harvest				Cost Recovery					Total
		Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	
Southeast											
SSRAA	Whitman Lake	120	440	4,490	2,890	125	8,863	1,120	4,589		22,637
	Earl West Cove Coop	1,420	4,040	270	10						5,740
	Neets Bay/Crystal Lake Coop	620	350	1,750	980		543		6,940		11,183
ADF&G	Crystal Lake Hatchery		79	734	1,971		930	2,076			5,790
NSRAA	Medvejje Creek	1,193	2,083	13,798	1,878		4,812	1,700	16,249	375	42,088
	Hidden Falls	8,440	228	6,590	560		3,082	1,065	3,767		23,732
BCF	Burro Creek			4	10		46				60
DIPAC	Gastineau		365	1,014	4,598		2,732	573	1,068		10,350
KTHC	Deer Mountain Hatchery		6	85	16		323	61		207	698
SJC	Indian River			30	18			32			80
MIC	Tamgas Creek	173	1,000	1,706	1,973			250	5,500		10,602
NMFS	Little Port Walter	146	8	402	52		902	320			1,830
Southeast Totals		12,112	8,599	30,873	14,956	125	22,233	7,197	38,113	582	134,790
Prince William Sound											
ADF&G	Elmendorf/Whittier				675						675
	Ft. Richardson										
	Fleming Spit				198						198
	Valdez				256						256
PWSAC	W Noerenberg										
	Chenega/Cordova				80						80
Prince William Sound Totals		0	0	0	1,209	0	0	0	0	0	1,209
Cook Inlet											
ADF&G	Elmendorf										
	Crooked Creek		10		2,852			234		1,261	4,357
	Halibut Cove		484		538						1,022
	Seldovia		214		297	124					635
	Resurrection Bay				3,380						3,380
	Homer Spit				2,621	12					2,633
	Ft. Richardson										
	Deception Creek		40		1,616			282		1,867	3,805
	Ninilchik River				415			418		295	1,128
	Ship Creek		7		2,287			316		978	3,588
Cook Inlet Totals		0	755	0	14,006	136	0	1,250	0	4,401	20,548
Statewide Totals		12,112	9,354	30,873	30,171	261	22,233	8,447	38,113	4,983	156,547

Table 16(e). Updated sockeye salmon returns to Alaska hatcheries in 2002, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest						Cost Recovery			Total
	Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	
Southeast										
SSRAA		112					286			398
POWHA						272	551		13,255	14,078
DIPAC	3,166	76,782	0	0	0	408	4,801	35,878	0	121,035
	8	1,392			308					1,708
		4,738				9,605	1,298		5,716	21,357
		660			7	50			302	1,019
NSRAA		2,848				5,528				8,376
MIC	2	2					78	1		83
Southeast Totals										
	3,174	86,534	0	0	315	15,863	6,936	35,878	19,273	168,054
Prince William Sound										
PWSAC		845,305		4,000			7,352	93,794		950,451
		1,229			2,971					4,200
		76,868		1,282	35,277		12,579		2,107	128,113
		143,258		2,388	45,797	43,291	4,029			238,763
		3,085		86	5,056				355	8,582
Prince William Sound Totals										
	0	1,069,745	0	7,756	89,101	43,291	23,960	93,794	2,462	1,330,109
Cook Inlet										
PGHC		14,497			9,799		1,200	20,245	18,950	64,691
CIAA	100	300				150				550
		13,447				42	4,063	2,723	8,441	28,716
		140,122		22,756	8,995	39	884	849	71,099	244,744
		45,917		4,000	4,000		4,155		85,172	143,244
		121,579		650	4,900	51		29,521		156,701
		418,647		6,500	45,000		9,442		215,738	695,327
								32,492		32,492
Cook Inlet Totals										
	100	754,509	0	33,906	72,694	282	19,744	85,830	399,400	1,366,465
Kodiak										
KRAA	28,984			200						29,184
	715				2,400					3,115
	24,281			89	207					24,577
									19,520	19,520
	3,757			300	1,345				32,214	37,616
	5,905			400	423				31,911	38,639
	211,100	280,500				1,800				493,400
	4,703									4,703
	45,820								80	45,900
	15,616				10	1,500				17,126
		4,200							85,317	89,517
Kodiak Totals										
	340,881	284,700	0	989	4,385	3,300	0	0	169,042	803,297
Statewide Totals										
	344,155	2,195,488	0	42,651	166,495	62,736	50,640	215,502	590,177	3,667,925

Table 16(f). Updated "other" enhanced fish returns to Alaska hatcheries in 2002.

Region/Operator/Location			Species	Commercial	Sport Catch	Personal Use/Subsistence	Other	Brood	Harvest	Escapement	Total
Southeast											
DMTH	Deer Mountain		Steelhead							5	5
NMFS	Little Port Walter		Steelhead					135			135
Southeast Totals				0	0	0	0	135	0	0	135
Cook Inlet											
ADF&G	Ft. Richardson/Statewide lakes		Arctic char		4,781			50			4,831
			Arctic grayling		4,522			99			4,621
			Lake trout		1,199						1,199
	Elmendorf/Statewide lakes		Rainbow trout		92,658			2,050			94,708
Cook Inlet Totals				0	103,160	0	0	2,199	0	0	105,359
Statewide Totals				0	103,160	0	0	2,334	0	0	105,494



Moving fry at Gulkana Hatchery.



Assembling incubators at AFK Hatchery.

Table 17. Actively operated Alaska hatcheries.

Initials	Address	City, State, Zip	Office phone	Fax phone	Hatchery	Hatchery Manager	Director	Email	
Southeast									
R	SSRAA	14 Borch Street	Ketchikan, AK 99901	(907) 225-9605	(907) 225-1348	Whitman Lake Neets Bay Burnett Inlet	Jay Creasy Bill Gass Jim Murphy	John Burke John Burke John Burke	ssraa@ssraa.org neetsbay@starband.net
R	NSRAA	1308 Sawmill Creek Rd	Sitka, AK 99835	(907) 772-4772 (907) 747-6850	(907) 747-1470	Crystal Lake* Medveje Creek Hidden Falls* Haines Projects	Loren Thompson Jim Seeland Lon Garrison Todd Buxton	John Burke Pete Esquiro Pete Esquiro Pete Esquiro	crystal.lake@starband.net nsraa@nsraa.org todd_buxton@nsraa.org
P	DIPAC	2697 Channel Drive	Juneau, AK 99801	(907) 463-5114	(907) 463-3213	Sheep Creek Macaulay Snettisham*	Sam Rabung Sam Rabung Kevin Steck	Eric Prestegard Eric Prestegard Eric Prestegard	Eric_Prestegard@dipac.net Rick_Focht@dipac.net
P	POWHA	PO Box 554	Craig, AK 99921	(907) 755-2231	(907) 755-2440	Prince of Wales*	John Bruns	John Bruns	powha@apt.net
P	SJC	801 Lincoln St	Sitka, AK 99835	(907) 747-5209		Sheldon Jackson	Dan Goodness	Mel Seifert	dgoodness@sj-alaska.edu
P	KNFC	PO Box 523	Kake, AK 99830	(907) 785-6460	(907) 785-6460	Gunnuk Creek	Brock Meredith	Steve Andison	fgwoman@alaska.net
P	BCF	P.O. Box 455	Skagway, AK 99840	(907) 983-2355		Burro Creek	Eugene Richards	Gene Richards	
P	AKI	P.O. Box 21990	Juneau, AK 99802	(907) 586-3443	(907) 586-2236	Port Armstrong	Pete Nichols	Bart Watson	portarmstrong@starband.net
P	KTHC	1158 Salmon Rd	Ketchikan, AK 99901	(907) 225-6760	(907) 225-7601	Deer Mountain	Jerry Guthrie	Jerry Guthrie	jguthrie@kictribe.com
F	NMFS	P.O. Box 21990	Juneau, AK 99802	(907) 586-3443	(907) 586-2236	Little Port Walter	Frank Thrower		Frank.Thrower@noaa.gov
F	MIC	PO Box 8	Mellakatta, AK 99929	(907) 886-3150	(907) 886-3152	Tamgas Creek	Steve Leask	Steve Leask	stevel@ptalaska.net
Prince William Sound									
R	PWSAC	PO Box 1110	Cordova, AK 99574	(907) 424-7511	(907) 424-7514	AF Koernig W Noerenberg Main Bay* Gulkana* Cannery Creek* Solomon Gulch	Geoff Clark Mark Somerville Rob Unger Gary Martinek Paul Santavy Ken Morgan	Dave Reggiani Dave Reggiani Dave Reggiani Dave Reggiani Dave Reggiani Jason Wells	pwsac@ctcak.net vfdacv@vinternet.net
P	VFDA	PO Box 125	Valdez, AK 99686	(907) 835-4874	(907) 835-5951				
Cook Inlet									
R	CIAA	40610 Kalifornsky Beach Rd	Kenai, AK 99611	(907) 283-5761	(907) 283-9433	Trail Lakes* Tutka*	Robert Blankenship Aaron VanArnum	Gary Fandrei Gary Fandrei	rblankenship_tlh@ciana.net
P	PGH	PO Box 5543	Port Graham, AK 99603	(907) 284-2233	(907) 284-2238	Port Graham	Greg McMullen	Paul McCollum	pghatchery@starband.net
S	ADFG	941 N. Reeve Blvd. PO Box 5267	Anchorage, AK 99501 Anchorage, AK 99505	(907) 274-0065 (907) 428-1348		Elmendorf Ft Richardson	Darrell Keifer Andrea Tesch	Larry Peltz Larry Peltz	darrell_keifer@fishgame.state.ak.us andrea_tesch@fishgame.state.ak.us
Kodiak									
R	KRAA	PO Box 3407	Kodiak, AK 99615	(907) 486-6555	(907) 486-4105	Pillar Creek* Kitoi Bay*	Gary Bryne Andrew Aro	Larry Malloy Larry Malloy	pch@qci.net kitoi@ptialaska.net
<p>Codes: R = Regional Aquaculture Association Private NonProfit (PNP) hatcheries, P= Nonassociation PNP hatchery, F= Federal/BIA hatchery, S=State hatchery * = state owned hatchery contracted to private operator</p>									

Table 17. Continued.

Initials	Corporate name	Hatchery	Permit #	PNP permit issued	Species reared	Web Site
Southeast						
SSRAA	Southern Southeast Regional Aquaculture Association	Whitman Lake	8	3/9/78	chum, coho, chinook	home.att.net/~ssraa/
		Neets Bay	19	6/17/83	chum, coho, chinook	
		Burnett Inlet	40	9/30/97	sockeye, coho	
		Crystal Lake*			chinook, coho	
NSRAA	Northern Southeast Regional Aquaculture Association	Medvejie Creek	16	8/17/81	chum, coho, chinook, pink	www.nsrta.org
		Hidden Falls*	28	6/22/88	chum, chinook, coho	
		Haines Projects	34	4/29/92	chum, sockeye	
DIPAC	Douglas Island Pink and Chum, Inc	Sheep Creek	11	9/19/79	chum, pink, coho	www.dipac.net
		Gastineau	25	6/3/87	chum, pink, coho, chinook	
		Snettisham*	39	7/15/96	sockeye	
POWHA	Prince of Wales Hatchery Association	Klawock River*	38	2/19/96	coho, sockeye, chinook, steelhead	
SJC	Sheldon Jackson College	Sheldon Jackson	3	4/29/75	pink, chum, coho, chinook, steelhead	
KNFC	Kake Nonprofit Fisheries Corporation	Gunnuk Creek	7	4/1/77	pink, chum, coho	
BCF	Burro Creek Farms	Burro Creek	12	5/23/80	pink, chum, coho, chinook	
AKI	Armstrong-Keta, Inc.	Port Armstrong	13	2/23/81	pink, chum, chinook, coho	
KTHC	Ketchikan Tribal Hatchery Corporation	Deer Mountain	37	6/22/94	chinook, coho, steelhead, rainbow	
NMFS	National Marine Fisheries Service	Little Port Walter			chinook, pink, steelhead	
MIC	Tamgas Creek Hatchery	Tamgas Creek			chum, coho, chinook, sockeye	
Prince William Sound						
PWSAC	Prince William Sound Aquaculture Association	AF Koernig	2	9/29/75	pink	www.ctcak.net/~pwsac/
		W Noerenberg	20	6/17/83	pink, chum, chinook, coho	
		Main Bay*			sockeye	
		Gulkana*			sockeye	
VFDA	Valdez Fisheries Development Association	Cannery Creek*	26	6/22/88	pink	
		Solomon Gulch	15	6/26/81	pink, coho, chinook	
Cook Inlet						
CIAA	Cook Inlet Aquaculture Association	Trail Lakes*	27	6/22/88	sockeye, coho, chinook	www.ciaa.net.org
		Tutka*	32	1/3/94	pink, sockeye	
PGH	Port Graham Hatchery Corporation	Port Graham	33	8/3/92	pink, sockeye, coho	
ADFG	Alaska Department of Fish and Game	Ship Creek Complex			chinook, coho, char, grayling, lake & rainbow trout	www.state.ak.us/adfg/adfghome.htm
		(Elmendorf and Ft. Richardson)				
Kodiak						
KRAA	Kodiak Regional Aquaculture Association	Pillar Creek*	41	5/1/98	sockeye, coho, chinook	www.ptialaska.net/~kraa07/index.html
		Kitoi Bay*	29	7/5/88	pink, chum, coho, sockeye	
Codes: * = state owned hatchery contracted to private operator						

Table 18. Permitted capacity of Alaskan private nonprofit hatcheries in 2003, in millions of eggs.

Region/Operator/Location		Pink	Chum	Combined Pink & Chum	Coho	Chinook	Sockeye	Other	Total
Southeast									
SSRAA	Whitman Lake		44.30		3.40	1.50			49.20
	Neets Bay		84.00		5.00	4.00			93.00
	Burnett Inlet				2.50		2.70		5.20
	Crystal Lake ^a								0.00
AAC	Bell Island				0.02	0.07		0.01	0.09
NSRAA	Hidden Falls		101.00		7.10	1.65			109.75
	Medvejie Creek	0.30	52.00		3.30	5.20			60.80
	Haines projects		2.60				2.00		4.60
AKI	Port Armstrong	85.00	30.00		2.00	2.00			119.00
BCF	Burro Creek			3.00	0.10	0.10			3.20
DIPAC	Macaulay	50.00	121.00		1.50	0.95			173.45
	Sheep Creek	10.00			0.15				10.15
	Snettisham						33.50		33.50
KTHC	Deer Mountain				0.38	0.13		0.05	0.56
KNFC	Gunnuk Creek			65.00	0.25				65.25
POWH A	Klawock				5.00	0.25	5.00	0.05	10.30
SJC	Sheldon Jackson			20.00	0.15	0.10		0.02	20.27
Southeast Totals^b		145.30	434.90	88.00	30.85	15.95	43.20	0.13	758.32
Prince William Sound									
PWSA C	Armin F. Koernig	190.00							190.00
	Wally Noerenberg	120.00	148.00		4.00	4.00			276.00
	Cannery Creek	152.00							152.00
	Main Bay						10.20		10.20
	Gulkana						36.75		36.75
VFDA	Solomon Gulch	230.00			2.00	0.30			232.30
Prince William Sound Totals^b		692.00	148.00	0.00	6.00	4.30	46.95	0.00	897.25
Cook Inlet									
PGHC	Port Graham	110.00					3.15		113.15
CIAA	Trail Lakes				6.00	4.00	30.00		40.00
	Eklutna				0.16		18.00		18.16
	Tutka Bay	125.00					0.66		125.66
Cook Inlet Totals^b		235.00	0.00	0.00	6.16	4.00	51.81	0.00	296.97
Kodiak									
KRAA	Kitoi Bay	215.00	25.00		2.30		0.30		242.60
	Pillar Creek				0.50	0.30	20.00		20.80
Kodiak Totals^b		215.00	25.00	0.00	2.80	0.30	20.30	0.00	263.40
Statewide Totals^b		1,287.30	607.90	88.00	45.81	24.55	162.26	0.13	2,215.94

^a Crystal Lake Hatchery is a state-owned facility under partial contract to SSRAA; it does not have a PNP permit.

^b Some figures may not total exactly due to rounding.

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