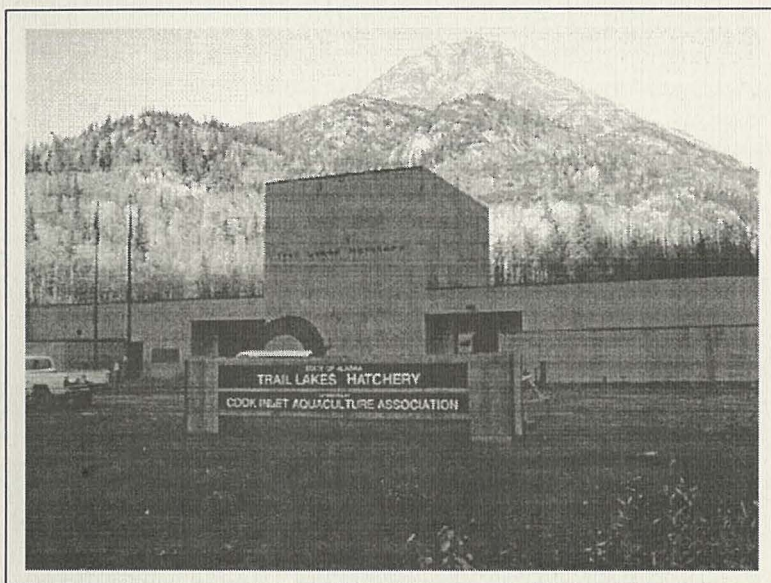


Alaska Salmon Enhancement Program 1998 Annual Report

compiled by
Marianne McNair

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Alaska Department of Fish and Game
Division of Commercial Fisheries
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PUBLICATION ABSTRACT

TITLE/SUBTITLE Alaska Salmon Enhancement Program 1998 Annual Report		CONFIDENTIALITY ☒ AVAILABLE TO PUBLIC ☐ AVAILABLE TO LEGISLATURE ONLY
ABSTRACT (100 words maximum) The Alaska Department of Fish and Game oversees and regulates all state and private sector salmon rehabilitation and enhancement projects. Protection of Alaska's natural salmon stocks requires biologically thorough permitting processes. Geneticists, pathologists, and biologists review all fishery projects prior to the issuance of a permit to operate a salmon ranching facility, transfer eggs or fish, or release any fish into Alaska waters. Pathology, genetic, and coded wire tag and otolith processing laboratories are maintained to provide both diagnostic information to department fishery managers inseason and technical expertise to the private sector. Over 1.7 billion salmon eggs were collected by Alaska hatchery operators in 1998. In addition, 1.4 billion fish were released and over 34 million fish were harvested in common property fisheries as a result of the ocean ranching program. This harvest represents 25% of the 1998 commercial common property harvest of 136 million fish. The ocean ranching program provides hundreds of Alaskans with seasonal and full-time jobs.		SUBJECT CATEGORY ☒ NATURAL RESOURCES ☐ EDUCATION ☐ SOCIAL SERVICES ☐ HEALTH ☐ TRANSPORTATION ☐ LAW ENFORCEMENT ☐ COMMERCE & INDUSTRY ☐ GENERAL GOVERNMENT ☐ LOCAL GOVERNMENT ☐ OTHER
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Author

Marianne McNair is a research analyst with the Alaska Department of Fish and Game, Division of Commercial Fisheries, P.O. Box 25526, Juneau, Alaska 99802-5526.

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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 biologically thorough permitting processes. Geneticists, pathologists, and biologists review all fishery 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 and 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.

Nearly 1.8 billion salmon eggs were collected by Alaska hatchery operators in 1998. In addition, 1.4 billion fish were released and over 26 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.

Prince William Sound and Southeast Alaska are the predominant regions affected by the enhancement program, and pink and chum salmon are the predominant species reared. 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 includes several components: 3 state hatcheries, 26 operating private nonprofit (PNP) hatcheries, 3 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 targeted for sport fisheries. PNP hatcheries, owned by PNP corporations, are permitted to operate salmon hatcheries and recoup their operational costs from a special harvest of adult fish, called a cost recovery harvest. All other returning adult fish are available for harvest in Alaska's common property (public) fisheries. Federal hatcheries are generally used for research, streamside incubation projects enhance specific waters inexpensively, and stream restoration projects involve restoring streams degraded by human-use activities.

Highlights in 1998:

- One hatchery was closed in 1998. Cook Inlet Aquaculture Association (CIAA), suspended operations at Eklutna Hatchery and transferred most of the Eklutna projects to Trail Lakes Hatchery.
- In 1998, 25% of Alaska's commercial common property harvest of salmon was produced by the enhancement program.
- In 1998, 28% of the total return of enhanced salmon went to cost recovery, compared to 40% of the total return of enhanced fish that were harvested for cost recovery in 1997.
- More than 450,000 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 1998.
- Many hatcheries throughout the state had excellent survivals from release to return. The highest percent survivals were: coho- 18% (Kitoi smolt release), pink -14% (Armin F. Koernig fry release), and sockeye- 33% (Main Bay smolt release).
- In general the Alaskan hatchery program is very stable. Programs have matured and hatcheries have reached their permitted capacities. Eggtakes and release numbers are very similar to prior years. However, because of excellent ocean survivals, the Alaskan hatcheries had their all time largest salmon (all species combined) returns in 1998.
- Returns of chinook and coho salmon to Gastineau Hatchery contributed 31% and 32%, respectively, of the total Golden North Salmon Derby catch of these species in 1998.
- Northern Southeast Regional Aquaculture Association's Medvejie Hatchery chum salmon program had its largest return ever of 3 million adults.

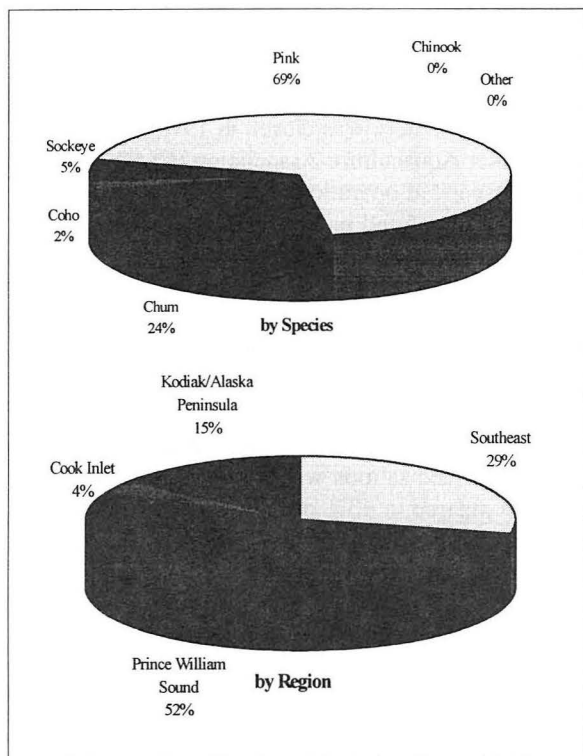


Figure 1. Total returns to enhancement projects in 1998.

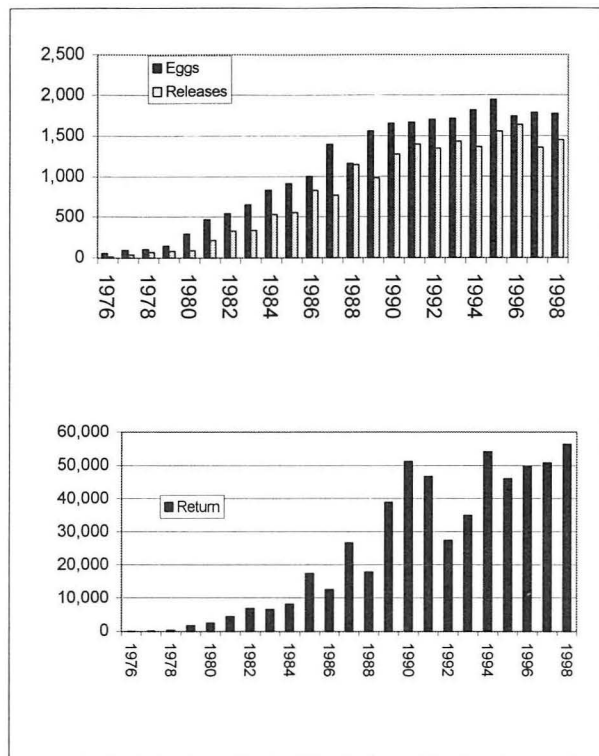


Figure 2. Total egg takes, release, and returns to the enhancement program in 1998.

- The Ketchikan coho salmon sport fishery (composed largely of Southern Southeast Regional Aquaculture Association fish) was the most successfully fall coho fishery monitored by ADF&G during 1998, with harvest rates as high as 1 rod hour/fish harvested.
- More than 75% of all fish caught in the commercial common property fisheries of Prince William Sound were produced by area hatcheries.
- More than 40,000 pounds of salmon were donated by Solomon Gulch Hatchery and flown, courtesy of the Air National Guard, to villages on the Yukon River to help areas with poor salmon returns.
- The harvest of pink salmon from the CIAA operated Tutka Hatchery accounted for 62% of the total commercial common property harvest of pink salmon in Cook Inlet.
- The preliminary 1998 Kodiak enhanced salmon harvest of 7.6 million fish represented about 29% of the total Kodiak commercial harvest. Coho enhancement contributions provided 35% of that area's coho salmon harvest.
- In August 1998 the *Yukon River Comprehensive Salmon Plan For Alaska* was completed after nearly five years of development.
- The Norton Sound/Bering Strait Regional Aquaculture Association participated in their first season of cooperative projects since becoming a state recognized aquaculture group in July of 1997.

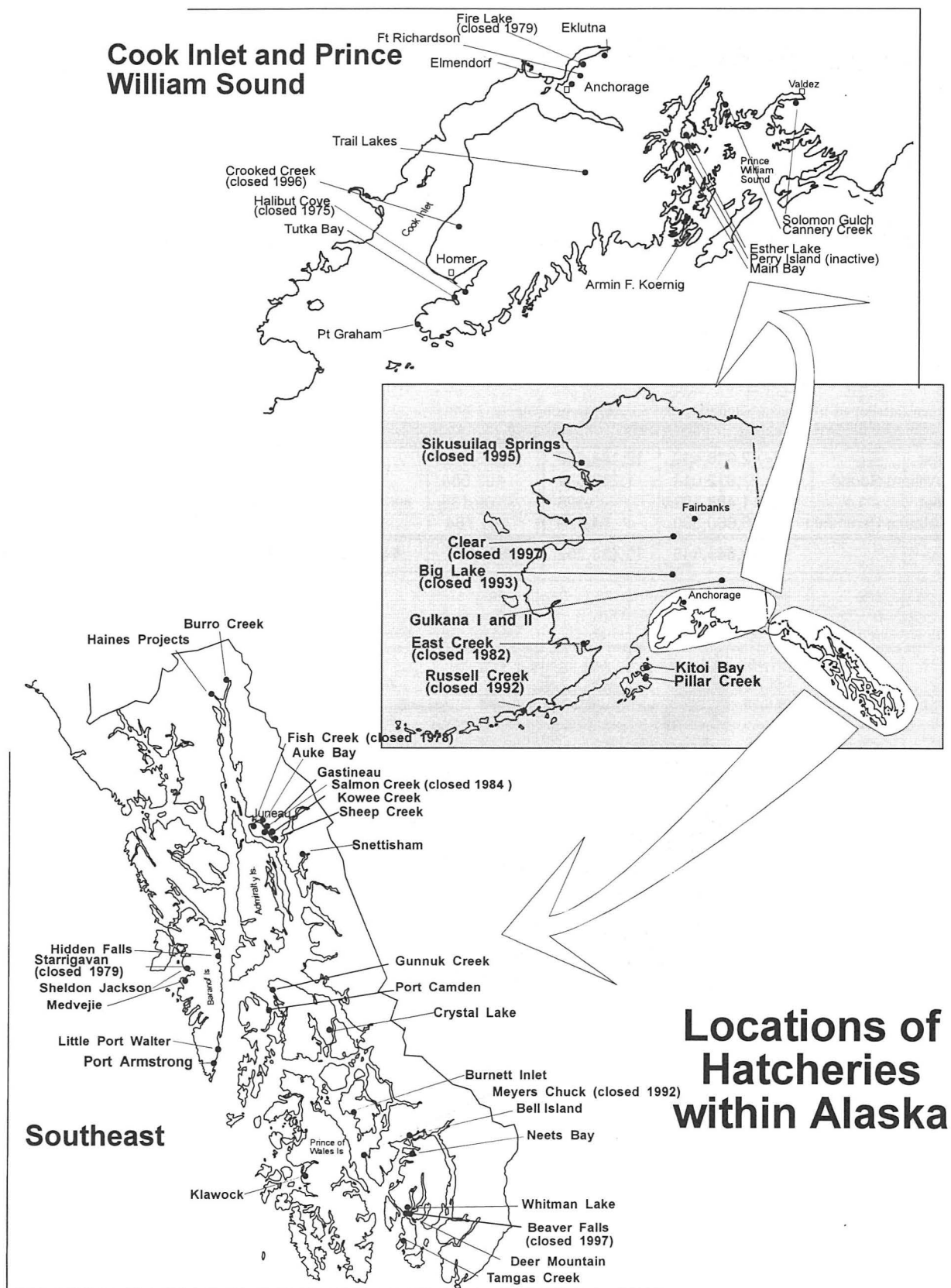


Figure 3. Locations of Alaska hatcheries.

Table 1. Total egg takes, releases, and returns to the Alaska salmon enhancement program in 1998.

Estimated egg takes from Alaska hatcheries, in millions, 1998.

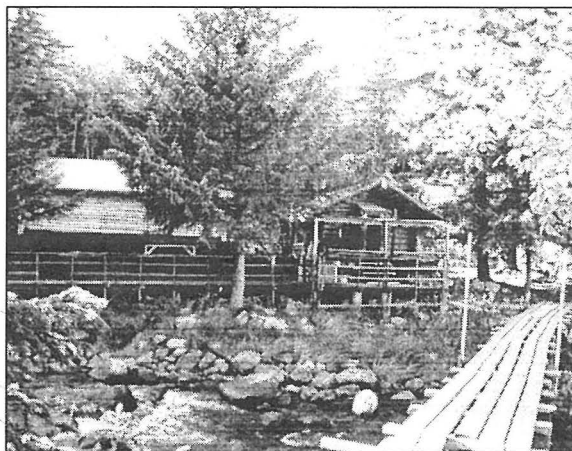
Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	103.82	397.26	22.26	10.81	16.23	0.02	550.40
Prince William Sound	672.28	111.13	2.77	0.00	46.60	0.00	832.77
Cook Inlet	145.16	0.00	2.84	1.99	24.79	2.77	177.54
Kodiak/Alaska Peninsula	200.01	8.72	2.29	0.00	7.46	0.00	218.48
Totals	1,121.26	517.11	30.15	12.80	95.08	2.78	1,779.19

Estimated releases from Alaska hatcheries, in millions, 1998.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	89.54	356.82	15.82	6.94	12.51	0.02	481.67
Prince William Sound	542.38	110.07	2.16	0.08	35.04	0.00	689.72
Cook Inlet	90.00	0.00	2.30	1.63	17.22	1.37	112.51
Kodiak/Alaska Peninsula	150.60	12.31	1.28	0.00	5.86	0.00	170.05
Totals	872.53	479.20	21.55	8.65	70.63	1.39	1,453.95

Total returns attributed to Alaska hatcheries and enhancement projects, 1998.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	2,628,439	12,154,625	1,003,088	82,324	380,491	292	16,249,259
Prince William Sound	27,872,014	1,213,681	107,584	2,808	925,562	0	30,121,649
Cook Inlet	1,488,793	106	106,134	55,540	254,413	84,813	1,989,799
Kodiak/Alaska Peninsula	6,660,300	54,850	161,784	0	1,319,053	0	8,195,987
Totals	38,649,546	13,423,262	1,378,590	140,672	2,879,519	85,105	56,556,694



Burro Creek Hatchery

Table 2. Alaska enhancement/common property commercial harvest of enhanced fish, in thousands, 1998.

Area	Harvest ^a	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Total Commercial Harvest	231	1,375	2,911	42,565	15,560	62,642
	Total Cost Recovery Harvest	19	34	313	1,373	3,834	5,572
	Common Property Harvest	212	1,341	2,598	41,192	11,726	57,070
	Enhanced Fish Harvested	21	204	580	863	7,732	9,399
	% Enhanced in Total CP Harvest ^b	9.7%	15.2%	22.3%	2.1%	65.9%	16.5%
Prince William Sound	Total Commercial Harvest	71	1,710	195	28,700	1,270	31,946
	Total Cost Recovery Harvest	0	148	19	8,534	522	9,222
	Common Property Harvest	71	1,562	176	20,166	748	22,724
	Enhanced Fish Harvested	0	620	27	16,227	510	17,384
	% Enhanced in Total CP Harvest	0.0%	39.7%	15.1%	80.5%	68.2%	76.5%
Cook Inlet	Total Commercial Harvest	9	1,504	176	2,002	101	3,792
	Total Cost Recovery Harvest		82	10	788	0	879
	Common Property Harvest	9	1,422	166	1,214	101	2,913
	Enhanced Fish Harvested	1	111	6	508	0	625
	% Enhanced in Total CP Harvest	9.5%	7.8%	3.6%	41.8%	0.0%	21.5%
Kodiak	Total Commercial Harvest	17	3,622	425	22,056	316	26,436
	Total Cost Recovery Harvest	0	0	0	0	0	0
	Common Property Harvest	17	3,622	425	22,056	316	26,436
	Enhanced Fish Harvested	0	842	150	6,272	38	7,302
	% Enhanced in Total CP Harvest	0.0%	23.3%	35.3%	28.4%	12.0%	27.6%
Chignik/Aleutian Islands/ Alaska Peninsula	Total Commercial Harvest	15	4,323	417	8,853	911	14,519
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bristol Bay	Total Commercial Harvest	126	9,990	125	25	391	10,657
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arctic-Yukon-Kuskokwim	Total Commercial Harvest	95	129	342	591	368	1,525
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	Total Commercial Harvest	564	22,653	4,591	104,792	18,917	151,520
	Total Cost Recovery Harvest	19	263	342	10,694	4,355	15,674
	Common Property Harvest	545	22,390	4,249	94,098	14,562	135,846
	Enhanced Fish Harvested	21	1,777	763	23,870	8,280	34,711
	% Enhanced in Total CP Harvest	3.9%	7.9%	18.0%	25.4%	56.9%	25.6%

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

Table 3. Fishery enhancement program time line of events.

Year	Event	Number of State	Number of Private Nonprofit	Number of Federal
1934	Federal research station Little Port Walter constructed			1
1950	Federal hatchery at Auke Creek constructed			2
1953	1 territorial hatchery constructed (Kitoi Bay)	1		
1954	1 territorial hatchery constructed (Deer Mountain)	2		
1958	1 territorial hatchery constructed (Ft. Richardson)	3		
1965	1 state hatchery constructed (Fire Lake)	4		
1969	1 state hatchery constructed (Crystal Lake)	5		
1971	Fisheries Rehabilitation, Enhancement and Development (FRED) Division created by Legislature			
1973	2 state hatcheries constructed (Crooked Creek and Gulkana) State enhancement projects at Starrigavan and Halibut Cove started	7		
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 (Elmendorf) 2 PNP permits issued (Burnett Inlet (#5) and Kowee Creek (#6))	12	6	
1977	1 PNP permit issued (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 (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 (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 (Sikusillaq 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 (Santa Anna (#21))		21	
1985	1 PNP permit issued (Port Camden (#23))		22	
1986	1 PNP permit issued (Beaver Falls (#24))		23	
1987	1 PNP permit issued (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 (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	

Table 3. Continued.

Year	Event	Number of State	Number of Private Nonprofit	Number of Federal
1993	3 state hatcheries transferred from CFMD Division to Sport Fish Division (Brood stock 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		
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 (Sikusuilaq)	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	

Note: Perry Island, Kowee Creek, Port Camden and Bell Island are not active PNP sites (total = 26 active operational PNPs)

Table 4. Eggs taken at Alaska hatcheries in 1998, in millions.

Region/Operator/Location			Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast									
SSRAA	Whitman Lake			30.16	3.80	1.81			35.77
	Neets Bay			82.78	3.20				85.98
	Burnett Inlet						0.31		0.31
NSRAA	Hidden Falls			78.37	4.59	1.40			84.36
	Medvejie Creek	0.33		41.55	3.18	2.62			47.68
	Port Camden	NO EGGS IN 1998							0.00
	Haines projects			1.40			0.46		1.86
AKI	Port Armstrong	86.62			1.61				88.23
BCF	Burro Creek	0.25		0.01	0.03	0.10			0.38
DIPAC	Sheep Creek	NO EGGS IN 1998							0.00
	Gastineau	6.44		108.13		0.65			115.22
	Snettisham						14.25		14.25
KTHC	Deer Mountain				0.20	0.15		0.01	0.36
KNFC	Gunnuk Creek			54.24	0.02				54.25
POWHA	Klawock				0.71		1.21	0.01	1.92
SJC	Indian River	10.18		0.30	0.07	0.24			10.78
MIC	Tamgas Creek			0.33	4.58	0.79			5.70
Federal	Little Port Walter					0.70			0.70
	Auke Creek				0.07				0.07
ADF&G	Crystal Lake				0.23	2.35			2.58
Southeast Totals			103.82	397.26	22.26	10.81	16.23	0.02	550.40
Prince William Sound									
PWSAC	Armin F. Koernig	160.62							160.62
	Wally Noerenberg	130.20		111.13	0.54				241.87
	Cannery Creek	149.57							149.57
	Main Bay						9.25		9.25
	Gulkana						37.35		37.35
VFDA	Solomon Gulch	231.90			2.23				234.13
Prince William Sound Totals			672.28	111.13	2.77	0.00	46.60	0.00	832.77
Cook Inlet									
PGHC	Port Graham	16.16			0.06		1.33		17.55
CIAA	Eklutna	CLOSED IN 1998							0.00
	Trail Lakes				0.81		23.46		24.26
	Tutka Bay	129.00							129.00
ADF&G	Elmendorf					0.94			0.94
	Ft. Richardson				1.97	1.05		2.77	5.79
Cook Inlet Totals			145.16	0.00	2.84	1.99	24.79	2.77	177.54
Kodiak									
KRAA	Kitoi Bay	200.01		8.72	2.15				210.88
	Pillar Creek				0.14		7.46		7.60
Kodiak Totals			200.01	8.72	2.29	0.00	7.46	0.00	218.48
Statewide Totals			1,121.26	517.11	30.15	12.80	95.08	2.78	1,779.19

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.

See Table 16 for list of acronyms used throughout this report.

Table 5. Alaska hatchery 1998 releases, in millions of fish.

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			0.30	0.71			1.01
	Kendrick Bay		9.30					9.30
	Neets Bay				0.26			0.26
	Nakat Inlet		8.48	0.20				8.68
	Earl West Cove		8.23	0.19	0.39			8.81
	Neets Bay		73.26	2.41	0.57			76.24
	Burnett Inlet			0.16				0.16
	Neck Lake			1.32				1.32
	Hidden Falls		25.88	1.49	1.07			28.44
	Takatz		37.81					37.81
NSRAA	Medveje Creek	0.21	4.56		1.12			5.89
	Deep Inlet		34.76					34.76
	Deer Lake			2.83				2.83
	Shamrock Bay			0.24				0.24
	Port Camden		2.37					2.37
AAC	Haines projects		0.86			0.10		0.96
	Bell Island	NO RELEASES IN 1998						0.00
AKI	Port Armstrong	75.78		0.12				75.90
BCF	Burro Creek	0.35	0.02		0.16			0.53
DIPAC	Sheep Creek	NO RELEASES IN 1998						0.00
	Gastineau	8.71	24.25	0.82	0.21			33.99
	Amalga Harbor		49.16					49.16
	Boat Harbor		7.21					7.21
	Limestone Inlet		13.99					13.99
	Fish Cr/Auke Bay/Twin L				0.37			0.37
	Snettisham					11.84		11.84
KTHC	Deer Mountain			0.08	0.10		0.02	0.18
KNFC	Gunnuk Creek		54.61					54.61
SJC	Sheldon Jackson	4.50	1.67	0.03	0.04			6.24
MIC	Tamgas Creek		0.40	3.57	0.52			4.49
POWHA	Klawock			1.79		0.58	0.00	2.37
Federal	Little Port Walter				none			0.00
ADF&G	Auke Creek			0.05				0.05
	Crystal Lake			0.20	0.61			0.81
	Neets Bay				0.41			0.41
	Earl West Cove				0.40			0.40
Southeast Totals		89.54	356.82	15.82	6.94	12.51	0.02	481.67
Prince William Sound								
PWSAC	Armin F. Koernig	105.97	10.12					116.10
	Wally Noerenberg	103.68	77.84	0.21				181.72
	Port Chalmers		22.11					22.11
	Whittier			0.10				0.10
	Cordova			0.10	0.04			0.14
	Chenega				0.04			0.04
	Gulkana I and II					32.26		32.26
	Cannery Creek	137.57						137.57
VFDA	Main Bay					2.78		2.78
	Solomon Gulch	195.16		1.75				196.91
Prince William Sound Totals		542.38	110.07	2.16	0.08	35.04	0.00	689.72
Cook Inlet								
PGHC	Port Graham	0.00		0.03		0.00		0.03
	Eklutna			0.11		9.56		9.67
	Trail Lakes							0.00
	Bear Lake/Creek			0.41		5.33		5.74
	Grouse L			0.50		1.29		1.79
ADF&G	Hidden Lake					1.04		1.04
	Tutka Bay	90.00						90.00
	Elmendorf			0.33	1.06		0.11	1.51
	Ft. Richardson			0.92	0.57		1.25	2.74
Cook Inlet Totals		90.00	0.00	2.30	1.63	17.22	1.37	112.51
Kodiak								
KRAA	Kitoi Bay	150.60	12.31	1.15		0.50		164.55
	Pillar Creek			0.13		5.36		5.50
Kodiak Totals		150.60	12.31	1.28	0.00	5.86	0.00	170.05
Statewide Totals		872.53	479.20	21.55	8.65	70.63	1.39	1,453.95

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

See Table 16 for list of acronyms used throughout this report.

Table 6. Estimated adult returns, by species, to Alaska enhancement projects in 1998, including common property harvests, as reported by operators.

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake		988,376	41,983	19,507			1,049,866
	Neets Bay		4,072,100	227,667	1,367			4,301,134
	Burnett Inlet (under SSRAA)			98,661		171,241		269,902
NSRAA	Hidden Falls		2,216,997	182,500	11,810			2,411,307
	Medvejie Creek		2,998,747	110,054	31,422			3,140,223
	Haines projects		12,045			4,007		16,052
AAI	Burnett Inlet (under AAI)		147,629					147,629
AKI	Port Armstrong	2,212,708		34,284				2,246,992
BCF	Burro Creek	1,615	14	89	100			1,818
DIPAC	Sheep Creek		201,198					201,198
	Gastineau	171,261	1,052,656	104,387	2,546			1,330,850
	Snettisham				171	189,803		189,974
KNFC	Gunnuk Creek		398,932	1,042				399,974
SJC	Indian River	242,855	671	260	293			244,079
POWH	Klawock			43,057		15,440	205	58,702
MIC	Tamgas Creek		65,260	147,227	4,451			216,938
Federal	Auke Creek	No returns in 1998						0
	Little Port Walter				1,943			1,943
COOP	Earl West Cove				3,095			3,095
ADF&G	Crystal Lake			2,494	4,863			7,357
KTHC	Deer Mountain			8,329	756		87	9,172
	Fish Pass/Other			1,054				1,054
Southeast Totals		2,628,439	12,154,625	1,003,088	82,324	380,491	292	16,249,259
Prince William Sound								
PWSAC	Armin F. Koernig	7,243,200						7,243,200
	Wally Noerenberg	8,542,600	1,181,410	9,292	2,808			9,736,110
	Cannery Creek	7,326,100						7,326,100
	Main Bay					257,062		257,062
VFDA	Gulkana					668,500		668,500
	Solomon Gulch	4,760,114	32,271	98,292				4,890,677
Prince William Sound Totals		27,872,014	1,213,681	107,584	2,808	925,562	0	30,121,649
Cook Inlet								
PGHC	Port Graham	22,388				15,432		37,820
CIAA	Eklutna		106	5		6,573		6,684
	Trail Lakes			15,700		232,408		248,108
	Tutka	1,466,405						1,466,405
ADF&G	Elmendorf			54,574	21,072			75,646
	Ft. Richardson			35,855	34,468		84,813	155,136
Cook Inlet Totals		1,488,793	106	106,134	55,540	254,413	84,813	1,989,799
Kodiak								
KRAA	Kitoi Bay	6,660,300	54,850	161,784		62,000		6,938,934
	Fish Pass/Other					828,655		828,655
	Pillar Creek					428,398		428,398
Kodiak Totals		6,660,300	54,850	161,784	0	1,319,053	0	8,195,987
Statewide Totals		38,649,546	13,423,262	1,378,590	140,672	2,879,519	85,105	56,556,694

See Table 16 for list of acronyms used throughout this report.

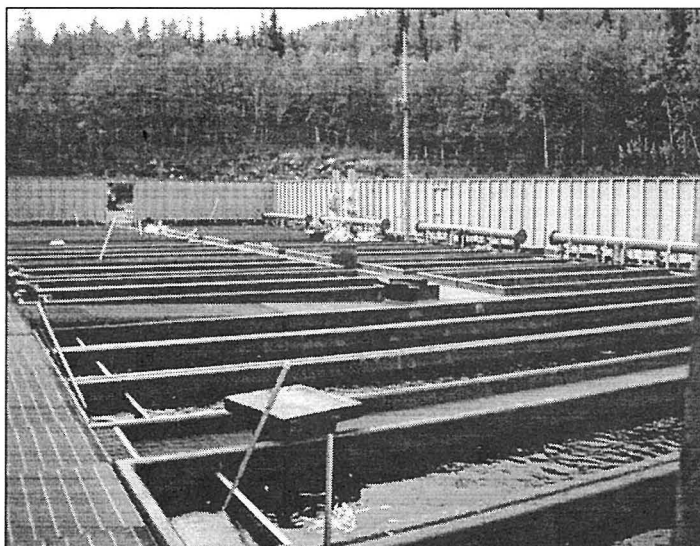
Table 7. Projected adult returns, by species, to Alaska enhancement projects in 1999.

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			22,000	2,000			24,000
	Earl West Cove		100,000	14,000				114,000
	Nakat Inlet		340,000	14,000				354,000
	Kendrick Bay		200,000					200,000
	Neets Bay		1,860,000	200,000	1,300			2,061,300
	Burnett Inlet (under SSRAA)			16,400				16,400
	Neck Lake			144,000				144,000
	Salmon					32,978		32,978
	Virginia Lake					28,305		28,305
	Hugh Smith Lake					27,504		27,504
	McDonald Lake					264,704		264,704
NSRAA	Hidden Falls							0
	Takatz Bay		2,356,000	119,000	9,600			2,484,600
	Medvejie Creek			600	27,400			28,000
	Deep Inlet		3,180,000					3,180,000
	Mist Cove/Deer Lake			138,000				138,000
	Shamrock Bay			19,000				19,000
	Port Camden		24,850					24,850
	Haines projects		3,386			11,261		14,647
	Burnett Inlet (under AAI)		571,968					571,968
	Port Armstrong	2,275,000		6,200				2,281,200
BCF	Burro Creek	2,500	100	0	800			3,400
DIPAC	Gastineau	298,000	613,000	107,000	600			1,018,600
	Auke/Fish Creek				3,900			3,900
	Amalga Harbor		817,000					817,000
	Boat Harbor		168,000					168,000
	Limestone Inlet		192,000					192,000
	Snettisham					23,400		23,400
	Speel Lake					15,750		15,750
	Crescent Lake					4,500		4,500
	Sweetheart Lake					6,200		6,200
	Chilkat Lake					65,700		65,700
	Gilbert Bay					13,700		13,700
	Taku River					12,900		12,900
	Stikine River					77,700		77,700
	Deer Mountain			5,835	667		100	6,502
	Ward Creek			6,813				6,813
KNFC	Gunnuk Creek		188,180	1,554				189,734
	Southeast Cove		342,970					342,970
AAC	Bell Island	No returns in 1999						0
SJC	Indian River	90,000	33,400	561	826			124,787
Federal	Auke Creek	No returns in 1999						0
	Little Port Walter				1,500			1,500
POWHA	Klawock			65,000		7,400	180	72,400
ADF&G	Crystal Lake			3,500	3,000			6,500
COOP	Earl West Cove				4,500			4,500
Southeast Totals		2,665,500	10,990,854	883,463	56,093	592,002	280	15,187,912
Prince William Sound								
PWSAC	Armin F. Koernig	4,400,000	1,400					4,401,400
	Wally Noerenberg	4,400,000	1,900,000	25,200	1,500			6,326,700
	Cannery Creek	5,800,000						5,800,000
	Main Bay					123,100		123,100
	Marsha L					1,100		1,100
VFDA	Gulkana					471,000		471,000
	Solomon Gulch	6,830,672		140,169				6,970,841
Prince William Sound Totals		21,430,672	1,901,400	165,369	1,500	595,200		24,094,141

Table 7. (Page 2 of 2).

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Cook Inlet								
PGHC	Port Graham			3,500		19,042		22,542
CIAA	Eklutna			10,800		70,000		80,800
	Kirschner/Leisure/ Chenik					114,000		114,000
	Bruin/Ursus/Paint					41,000		41,000
	Trail Lakes							0
	Kirschner/Leisure/ Chenik					72,000		72,000
	Bruin/Ursus/Paint					41,000		41,000
	Hazel Lake					42,000		42,000
	Packers Lake					121,800		121,800
	Hidden Lake					55,900		55,900
	Bear Lake			21,000		39,400		60,400
	Tustumena Lake					660,000		660,000
	Grouse Lake					156,600		156,600
	Tutka Bay	3,150,000				19,200		3,169,200
ADF&G	Elmendorf			54,900	21,766			76,666
	Ft. Richardson			61,671	2,400		96,682	160,753
Cook Inlet Totals		3,150,000	0	148,371	24,166	1,432,900	96,682	4,852,119
Kodiak								
KRAA	Kitoi Bay	2,730,000	185,000	123,140		36,000		3,074,140
	Pillar Creek			4,245		415,350		419,595
Kodiak Totals		2,730,000	185,000	127,385	0	451,350	0	3,493,735
Statewide Totals		29,976,172	13,077,254	1,324,588	81,759	3,071,452	96,962	47,627,907

See Table 16 for list of acronyms used throughout this report.



Trail Lakes Hatchery raceways

Table 8. Cumulative state loans and enhancement funds returned to associations (through December 31, 1998), and annual fish sales for private nonprofit hatcheries.

Region/Corporation (number of permits)	State Loans				Enhancement Funds Generated Through Assessments Returned to Associations via Contract		1998 Operator Reported Revenues
	For Capital Construction		For Operations		FY 99	Cumulative	
	CY 98	Cumulative	CY 98	Cumulative			
Southern Southeast							
SSRAA (Southern Southeast Regional Aquaculture Association) — (3)		\$ 9,393,000		\$ 4,133,009	\$1,034,374	\$27,515,661 note 1	\$ 4,049,744
AAI (Alaska Aquaculture, Inc.) — (0)		\$ 3,469,418		\$ 4,678,794		NA	
MCAA (Meyers-Chuck Aquaculture — Association) — (0)		\$ 10,000				NA	
POWHA (Prince of Wales Hatchery Association) — (1)		\$ 400,000	\$ 200,000	\$ 660,000			\$ 46,000
Northern Southeast							
NSRAA (Northern Southeast Regional Aquaculture Association) — (4)		\$ 2,724,265		\$ 1,816,496	\$1,007,349	\$18,744,753 note 1	\$ 2,339,513
AKI (Armstrong-Keta, Inc.) — (1)		\$ 3,065,142	\$ 500,000	\$ 4,086,398		NA	\$ 948,510
BCF (Burro Creek Farms, Inc.) — (1)		\$ 143,500		\$ 240,875		NA	\$ 36,177
DIPAC (Douglas Island Pink and Chum, Inc.) — (4)		\$ 9,139,000		\$13,164,000		NA	\$ 3,694,300
KNFC (Kake Nonprofit Fisheries Corporation) — (1)		\$ 1,500,724	\$ 200,000	\$ 4,974,060		NA	\$ 424,340
SJC (Sheldon Jackson College) — (1)		\$ 423,624		\$ 61,370		NA	\$ 116,886
THFDC (Tlingit and Haida Fisheries — Development Corporation) — (0)		\$ 1,464,000		\$ 89,860		NA	
Prince William Sound							
PWSAC (Prince William Sound Aquaculture Corporation) — (3)		\$24,467,209		\$ 5,585,500	\$ 772,503	\$10,884,063 note 2	\$ 6,257,640
VFDA (Valdez Fisheries Development Association) — (1)	\$350,000	\$ 3,543,830	\$ 100,000	\$ 7,148,746		NA	\$ 2,743,270
Cook Inlet							
PGHC (Port Graham Hatchery Corporation) — (1)				\$ 235,000		NA	\$ 0
CIAA (Cook Inlet Aquaculture Association) — (4)		\$ 1,438,881		\$ 1,583,369	\$ 681,988	\$18,911,030 note 2	\$ 1,373,050
Kodiak							
KRAA (Kodiak Regional Aquaculture Association) — (2)					\$ 445,289	\$ 9,346,652 note 2	
Chignik							
CRAA (Chignik Regional Aquaculture Association) — (0)					\$ 75,264	\$ 1,459,974 note 2	
Statewide Totals	\$350,000	\$61,182,593	\$1,000,000	\$48,457,477	\$4,016,767	\$86,862,133	\$22,029,430

Sources: Vicky Malley and Dave Massey, Department of Commerce and Economic Development — Fisheries Enhancement Revolving Loan Fund Program Overview; PNP annual reports.

Note 1. A 3% mandatory assessment tax was collected from commercial fishermen.

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

Note 3. Operator reported revenue includes all revenue sources: cost recovery, carcass sale, donations, grants, etc.

Note 4. A struck through (example) corporation name indicates that the corporation is no longer active.

NA = not applicable

CY = calendar year

FY 99 = fiscal year (July 1, 1998–June 30, 1999)

Table 9(a). Summary of salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Fry Releases	Total Returns	Year	Egg Takes	Fry Releases	Total Returns
1965				1982	543,770,000	331,281,000	6,930,068
1966	NA	676,000	0	1983	656,523,000	336,278,000	6,670,292
1967	NA	1,468,000	0	1984	831,065,000	533,309,000	8,197,790
1968	NA	928,400	0	1985	914,692,000	556,240,000	17,407,937
1969	NA	923,900	0	1986	1,002,852,000	827,385,000	12,693,232
1970	NA	659,700	0	1987	1,397,805,000	770,271,000	26,748,764
1971	NA	659,000	0	1988	1,161,431,000	1,145,841,000	17,877,036
1972	NA	1,808,000	0	1989	1,563,083,000	982,441,000	38,908,688
1973	2,106,000	192,000	0	1990	1,656,565,000	1,275,234,000	51,221,000
1974	8,095,000	1,514,780	0	1991	1,667,759,000	1,395,745,000	46,625,538
1975	28,890,000	3,548,000	17,550	1992	1,701,713,000	1,345,410,000	27,499,166
1976	55,711,000	14,436,780	38,200	1993	1,716,344,000	1,433,359,000	35,022,000
1977	92,407,000	37,687,000	175,318	1994	1,822,848,000	1,366,193,000	54,163,000
1978	105,594,000	71,949,000	322,682	1995	1,947,990,000	1,559,176,000	45,981,000
1979	144,557,000	80,716,000	1,653,570	1996	1,741,005,000	1,637,756,000	49,864,000
1980	293,418,000	91,183,000	2,428,170	1997	1,789,109,000	1,358,634,000	50,840,000
1981	471,521,000	213,610,000	4,535,820	1998	1,776,406,219	1,452,553,696	56,471,589
				Total	25,093,259,219	18,821,943,256	562,292,410

Table does not include nonanadromous species.

Table 9(b). Summary of pink salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Fry Releases	Total Returns	Year	Egg Takes	Fry Releases	Total Returns
1973	558,000			1986	511,330,000	468,734,000	9,044,000
1974	4,949,000	448,000		1987	857,901,000	442,647,000	21,960,000
1975	15,460,000	1,429,000	17,550	1988	735,699,000	728,907,000	13,838,000
1976	23,441,000	10,200,000	16,200	1989	974,893,000	674,870,000	31,754,000
1977	64,281,000	18,433,000	175,000	1990	1,013,590,000	808,955,000	41,207,000
1978	60,085,000	49,658,000	321,000	1991	1,008,890,000	861,978,000	38,132,000
1979	90,060,000	54,885,000	1,591,000	1992	1,079,763,000	801,770,000	14,879,000
1980	173,940,000	64,285,000	2,310,000	1993	1,028,760,000	919,680,000	20,693,000
1981	327,599,000	134,652,000	4,371,000	1994	1,076,306,000	787,438,000	41,489,000
1982	343,955,000	217,604,000	6,610,000	1995	1,135,730,000	920,517,000	25,415,000
1983	406,393,000	178,220,000	5,939,000	1996	928,795,000	999,098,000	29,298,000
1984	433,384,000	336,738,000	5,298,000	1997	1,063,777,000	773,270,000	33,956,000
1985	536,349,000	261,434,000	14,158,000	1998	1,121,260,000	872,526,999	38,649,546

Table 9(c). Summary of chum salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Fry Releases	Total Returns	Year	Egg Takes	Fry Releases	Total Returns
1974	1,424,000	7,780		1986	345,567,000	181,850,000	1,938,000
1975	4,966,000	967,000		1987	343,065,000	276,477,000	2,005,000
1976	7,163,000	2,370,000		1988	388,463,000	235,231,000	2,650,000
1977	7,036,000	2,590,000	800	1989	281,078,000	318,116,000	1,347,000
1978	9,554,000	3,917,000	2,810	1990	450,327,000	208,000,000	2,039,000
1979	18,466,000	6,095,000	5,730	1991	490,173,000	373,892,000	2,260,000
1980	75,789,000	8,658,000	16,100	1992	519,425,000	434,198,000	3,193,000
1981	81,684,000	47,315,000	33,100	1993	468,890,000	460,120,000	6,563,000
1982	123,386,000	58,924,000	153,000	1994	528,818,000	410,973,000	8,715,000
1983	155,995,000	93,457,000	301,000	1995	592,286,000	473,215,000	9,829,000
1984	256,584,000	105,827,000	1,809,000	1996	651,221,000	535,427,000	16,385,000
1985	242,906,000	198,997,000	1,404,000	1997	581,827,000	478,058,000	12,609,000
				1998	517,111,200	479,198,066	13,423,262

Table 9(d). Summary of coho salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Fry Releases	Total Returns	Year	Egg Takes	Fry Releases	Total Returns
1966	NA	506,000		1982	16,100,000	3,266,000	107,609
1967	NA	930,000		1983	11,553,000	7,917,000	96,278
1968	NA	846,000		1984	17,688,000	8,811,000	179,462
1969	NA	828,000		1985	19,426,000	14,273,000	307,580
1970	NA	614,000		1986	23,715,000	12,665,000	659,587
1971	NA	442,000		1987	25,456,000	13,718,000	453,332
1972	NA	1,657,000		1988	26,951,000	15,579,000	284,461
1973	NA	1,909,000		1989	22,629,000	15,277,000	501,756
1974	NA	1,824,000		1990	21,051,000	16,446,000	885,308
1975	NA	3,470,000	100	1991	21,521,000	16,119,000	1,258,000
1976	NA	3,120,000	22,000	1992	21,364,000	14,625,000	1,280,000
1977	NA	4,922,000		1993	22,670,000	14,620,000	928,000
1978	NA	3,191,000		1994	31,514,000	17,335,000	1,306,000
1979	2,347,000	2,483,000	48,560	1995	28,198,000	17,427,000	1,296,000
1980	3,839,000	2,211,000	21,210	1996	29,509,000	20,960,000	1,262,000
1981	9,782,000	3,350,000	54,960	1997	33,120,000	23,184,000	1,108,000
				1998	30,154,927	21,549,425	1,378,590

Table 9(e). Summary of chinook salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Fry Releases	Total Returns	Year	Egg Takes	Fry Releases	Total Returns
1966	NA	170,000		1982	3,276,000	938,000	11,960
1967	NA	538,000		1983	6,084,000	1,544,000	13,250
1968	NA	82,400		1984	8,567,000	3,277,000	20,830
1969	NA	95,900		1985	13,632,000	4,064,000	26,210
1970	NA	45,700		1986	10,471,000	6,058,000	40,350
1971	NA	217,000		1987	16,417,000	7,730,000	91,900
1972	NA	151,000		1988	17,253,000	9,107,000	74,303
1973	NA	328,000		1989	14,501,000	7,989,000	79,280
1974	155,000	553,000		1990	17,547,000	9,935,000	110,380
1975	530,000	155,000		1991	18,598,000	7,284,000	122,000
1976	1,218,000	233,000		1992	13,037,000	9,819,000	121,538
1977	2,791,000	1,016,000		1993	9,530,000	11,220,000	111,166
1978	978,000	804,000	42	1994	13,174,000	9,731,000	121,000
1979	1,792,000	1,215,000	3,220	1995	14,922,000	6,722,000	159,000
1980	2,508,000	793,000	6,570	1996	11,851,000	6,994,000	160,000
1981	1,644,000	733,000	5,120	1997	12,396,000	7,589,000	142,000
				1998	12,803,092	8,649,988	140,672

Table 9(f). Summary of sockeye salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes	Fry Releases	Total Returns	Year	Egg Takes	Fry Releases	Total Returns
1972	NA	17,000		1985	108,039,000	72,407,000	757,000
1973	1,548,000	192,000		1986	101,251,000	77,086,000	1,146,000
1974	1,567,000	506,000		1987	106,584,000	60,726,000	1,099,000
1975	7,934,000	997,000		1988	107,237,000	67,707,000	1,780,000
1976	23,889,000	2,172,000		1989	107,524,000	75,552,000	2,111,000
1977	18,299,000	13,801,000	318	1990	99,265,000	73,190,000	4,120,000
1978	34,977,000	15,997,000	1,640	1991	112,683,000	68,984,000	6,374,000
1979	31,892,000	17,104,000	9,990	1992	105,043,000	75,125,000	3,899,000
1980	37,342,000	15,236,000	74,290	1993	120,860,000	57,680,000	5,018,000
1981	50,812,000	27,560,000	71,640	1994	114,078,000	75,640,000	4,187,000
1982	58,792,000	45,292,000	57,540	1995	111,136,000	81,391,000	1,390,000
1983	67,880,000	52,513,000	230,000	1996	119,679,000	75,278,000	2,759,000
1984	82,622,000	51,778,000	389,000	1997	97,989,000	76,533,000	3,025,000
				1998	95,077,000	70,629,218	2,879,519

NA = not available

Table 10(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	\$ 7,917,000
1994	1,725,820,000	1,267,520,000	52,022,989	14,812,269	\$ 15,626,000
1995	1,849,333,100	1,472,954,300	36,942,907	9,360,581	\$ 12,277,000
1996	1,734,940,000	1,632,050,000	48,201,545	14,705,098	\$ 18,422,000
1997	1,712,213,200	1,350,564,066	50,629,198	19,430,429	\$ 20,188,000
1998	1,759,218,719	1,443,566,636	56,306,181	15,732,568	\$ 18,688,000
Cumulative Hatchery Revenues from Special Harvests:					\$177,935,440

Table 10(b). Summary of pink salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
1975	8,002,395			
1976	16,251,456	3,653,666		
1977	35,383,112	12,093,184	160,147	108,718
1978	34,851,807	25,732,238	160,397	114,188
1979	46,582,015	28,204,674	356,498	244,555
1980	98,030,000	31,690,000	1,504,878	346,168
1981	188,000,000	78,800,000	2,491,345	838,037
1982	185,170,000	102,550,000	5,253,378	1,354,732
1983	185,520,000	126,890,000	4,086,552	701,399
1984	241,760,000	159,340,000	3,637,927	583,185
1985	339,910,000	199,490,000	7,404,789	1,698,732
1986	324,570,000	271,960,000	6,767,984	948,624
1987	618,350,000	299,260,000	17,963,785	3,624,586
1988	645,100,000	625,820,000	12,257,959	2,007,720
1989	805,870,000	553,090,000	22,561,056	14,519,987
1990	788,710,000	684,790,000	39,919,911	9,846,364
1991	830,860,000	704,330,000	37,081,341	11,574,828
1992	882,920,000	648,470,000	13,200,079	6,009,343
1993	1,028,760,000	919,680,000	19,844,303	2,736,262
1994	1,075,310,000	787,440,000	40,939,000	12,398,000
1995	1,134,730,000	919,740,000	24,765,273	6,817,549
1996	928,800,000	999,100,000	28,553,267	9,400,936
1997	1,063,777,000	773,270,000	33,956,000	14,058,384
1998	1,121,260,000	872,526,999	38,649,546	10,693,809

Table 10(c). Summary of chum salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
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
1982	46,130,000	23,590,000	22,133	378
1983	68,790,000	41,770,000	126,783	35,099
1984	122,170,000	54,780,000	1,001,449	436,617
1985	119,450,000	97,880,000	525,088	123,215
1986	181,450,000	100,490,000	779,637	188,754
1987	234,500,000	149,790,000	955,294	487,605
1988	369,610,000	186,050,000	1,835,164	469,754
1989	267,030,000	286,770,000	1,102,191	183,340
1990	425,410,000	216,860,000	1,632,539	369,985
1991	441,530,000	359,270,000	1,958,538	403,603
1992	495,360,000	394,260,000	3,078,557	741,276
1993	457,690,000	451,720,000	6,386,907	1,781,764
1994	520,120,000	402,220,000	8,783,080	2,049,000
1995	590,160,000	463,440,000	9,799,995	1,983,924
1996	651,220,000	533,690,000	16,204,661	4,782,038
1997	516,711,200	478,198,066	13,250,198	4,643,343
1998	512,535,200	478,798,066	13,423,262	4,355,450

Table 10(d). Summary of coho salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
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
1982	2,870,000	700,000	61,709	11,500
1983	6,200,000	1,570,000	71,781	7,396
1984	6,300,000	3,230,000	121,112	27,310
1985	4,100,000	4,220,000	168,427	29,530
1986	8,300,000	4,280,000	344,749	72,960
1987	9,280,000	5,440,000	169,149	58,333
1988	13,310,000	4,720,000	122,186	13,383
1989	13,740,000	9,040,000	305,048	88,702
1990	14,470,000	10,730,000	691,680	140,728
1991	16,120,000	11,500,000	1,001,338	372,612
1992	16,510,000	10,280,000	1,070,086	338,725
1993	19,150,000	11,100,000	657,208	128,771
1994	24,280,000	12,640,000	1,189,140	221,291
1995	21,535,600	13,868,300	966,222	318,730
1996	27,700,000	19,570,000	1,041,009	251,005
1997	25,930,000	18,044,000	921,000	258,309
1998	23,378,927	16,529,548	1,276,284	342,475

Table 10(e). Summary of chinook salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
1980	194,000			
1981	400,000			
1982	220,000	150,000	3,500	3,500
1983	800,000	140,000	872	872
1984	2,730,000	380,000	3,656	1,589
1985	6,180,000	720,000	8,181	2,006
1986	6,580,000	4,050,000	11,156	1,282
1987	4,550,000	5,940,000	8,643	2,176
1988	7,010,000	2,210,000	23,246	8,700
1989	7,330,000	3,270,000	36,572	17,748
1990	8,790,000	4,700,000	59,726	22,164
1991	10,000,000	3,900,000	69,926	21,138
1992	7,400,000	6,210,000	42,401	17,647
1993	4,900,000	6,920,000	53,843	24,754
1994	6,030,000	5,510,000	57,969	10,698
1995	6,260,000	3,600,000	98,024	28,236
1996	7,900,000	4,410,000	96,928	32,974
1997	7,806,000	4,519,000	85,000	31,802
1998	6,967,592	5,082,805	77,570	18,878

Table 10(f). Summary of sockeye salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
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
1990	11,780,000	8,140,000	101,216	8,513
1991	27,480,000	8,070,000	153,606	5,023
1992	25,530,000	15,960,000	783,508	170,629
1993	102,720,000	37,060,000	838,805	156,159
1994	100,080,000	59,710,000	1,053,800	133,280
1995	96,647,500	72,306,000	1,313,393	142,354
1996	119,320,000	75,280,000	2,305,680	174,191
1997	97,989,000	76,533,000	2,417,000	385,393
1998	95,077,000	70,629,218	2,879,519	263,264

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

Table 11. Alaska commercial salmon fishery harvest weights and prices, 1998.

Area/Species	Average Harvest	
	Weight (lb)	Price/lb.
Cook Inlet	Chinook	20.6
	Sockeye	5.2
	Coho	6.5
	Pink	3.1
	Chum	7.0
Kodiak	Chinook	14.4
	Sockeye	4.8
	Coho	8.5
	Pink	3.7
	Chum	7.8
Prince William Sound	Chinook	22.5
	Sockeye	6.0
	Coho	8.5
	Pink	3.7
	Chum	8.2
Southeast	Chinook	17.4
	Sockeye	6.0
	Coho	7.7
	Pink	3.5
	Chum	8.9

Data from Herman Savikko, ADF&G, as of 2/1/99, based on total commercial fishery.

Table 12. Alaska state hatchery FY 98 operating budgets, in thousands of dollars.

Hatchery	FY 98	FY 98
	Authorized Total	Actual Total
Elmendorf Hatchery	\$ 559.60	\$ 591.70
Ft. Richardson Hatchery	\$1,158.90	\$1,101.30
Clear Hatchery	\$ 56.20	\$ 54.20
Crystal Lake Hatchery	\$ 613.70	\$ 564.00

Table 13. Detailed return information, by species, to 1998 Alaska enhancement program projects.

Table 13(a). Estimated pink salmon returns to Alaska hatcheries in 1998, including common property harvests, as reported by operators.

		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Comment
Region/Operator/Location		Selne	Gillnet	Troll	Sport							
Southeast												
AKI	Port Armstrong	785,730						114,752	1,249,976	62,250	2,212,708	
BCF	Burro Creek	200	200	200	100			415		500	1,615	
DIPAC	Gastineau				5,642			165,619			171,261	
SJC	Indian River	62,199	9,000	5,625	1,875		4,418	12,034	122,704	25,000	242,855	
Southeast Totals		848,129	9,200	5,825	7,617	0	4,418	292,820	1,372,680	87,750	2,628,439	
Prince William Sound												
PWSAC	Armin F. Koernig	4,965,782					300,000	344,049	1,633,369		7,243,200	
	Wally Noerenberg	4,938,691					900,000	265,820	2,438,089		8,542,600	
	Cannery Creek	5,102,449					600,000	305,879	1,317,772		7,326,100	
VFDA	Solomon Gulch	1,220,315			100,000			275,109	3,144,361	20,329	4,760,114	
Prince William Sound Totals		16,227,237	0	0	100,000	0	1,800,000	1,190,857	8,533,591	20,329	27,872,014	
Cook Inlet												
PGHC	Port Graham							22,388			22,388	
CIAA	Tutka	495,595	12,255					153,580	787,538	17,437	1,466,405	
Cook Inlet Totals		495,595	12,255	0	0	0	0	175,968	787,538	17,437	1,488,793	
Kodiak												
KRAA	Kitoy Bay	6,272,000						348,300		40,000	6,660,300	
Kodiak Totals		6,272,000	0	0	0	0	0	348,300	0	40,000	6,660,300	
Statewide Totals		23,842,961	21,455	5,825	107,617	0	1,804,418	2,007,945	10,693,809	165,516	38,649,546	

Table 13(b). Estimated chum salmon returns to Alaska hatcheries in 1998, including common property harvests, as reported by operators.

Common Property Harvest												
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Comment
Southeast												
SSRAA	Whitman Lake										0	
	Nakat Inlet – summer	183,724	135,668								319,392	
	Nakat Inlet – fall	15,153	65,278								80,431	
	Earl West Cove – summer	39,145	59,097								98,242	
	Kendrick Bay – summer	478,416	11,895								490,311	
	Neets Bay – summer	1,655,234	96,368				19,554	107,946	1,893,995		3,773,097	
	Neets Bay – fall	56,234	15,756				9,112	37,888	180,013		299,003	
NSRAA	Medvejie Creek	2,024,573	492,782	100,894			18,006	26,104	335,371	1,017	2,998,747	
	Hidden Falls	1,802,051					5,564	91,228	310,154	8,000	2,216,997	
	Haines projects		2,602				3,903	1,156		4,384	12,045	
AAI	Burnett Inlet								135,130		135,130	
	Anita Bay								12,499		12,499	
BCF	Burro Creek	3	2	1	1			7			14	
DIPAC	Sheep Creek		59,921					52,501	88,776		201,198	
	Gastineau		92,193		2,374			75,732	139,262		309,561	
	Amalga		41,569	2,316					508,686		552,571	
	Limestone Inlet		118,370								118,370	
	Boat Harbor		72,154								72,154	
KNFC	Gunnuk Creek	25,561		1,059	500		10,315	98,493	14,630	9,293	159,851	
	Southeast Cove	42,132		1,559			5,394		189,996		239,081	
SJC	Indian River	124	49				109	183	80	126	671	
MIC	Tamgas Creek	12,000	28,000					260	25,000		65,260	
Southeast Totals		6,334,350	1,291,704	105,829	2,875	0	71,957	491,498	3,833,592	22,820	12,154,625	
Prince William Sound												
PWSAC	Wally Noerenberg	21,600	286,054					179,875	491,581		979,110	
	Pt. Chalmers	202,300									202,300	
VFDA	Solomon Gulch						2,100		30,171		32,271	
Prince William Sound Totals		223,900	286,054	0	0	0	2,100	179,875	521,752	0	1,213,681	
Cook Inlet												
CIAA	Eklutna								106		106	
Cook Inlet Totals		0	0	0	0	0	0	0	106	0	106	
Kodiak												
KRAA	Kitoi Bay	38,000						16,350		500	54,850	
Kodiak Totals		38,000	0	0	0	0	0	16,350	0	500	54,850	
Statewide Totals		6,596,250	1,577,758	105,829	2,875	0	74,057	687,723	4,355,450	23,320	13,423,262	

Table 13(c). Estimated coho salmon returns to Alaska hatcheries in 1998, including common property harvests, as reported by operators.

		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Comment
Region/Operator/Location		Seine	Gillnet	Troll	Sport							
Southeast												
SSRAA	Whitman Lake	488	4,919	9,730	1,006		469	532			17,144	
	Earl West Cove	242	4,596	5,380	211						10,429	
	Summer	1,573	1,404	204	89			1,523			4,793	
	Nakat	803	3,620	4,885	309						9,617	
	Neets Bay	7,369	45,953	110,169	13,682			4,227	46,267		227,667	
	Burnett Inlet (SSRAA)											
NSRAA	Neck Lake	1,299	45,554	4,808	5,000				42,000		98,661	
	Medvejie Creek	154		549	111		152	199			1,165	
	Deer Lake	25,000	145	36,386	912		974		26,837		90,254	
	Shamrock Bay	716	24	14,238	3,038		11		358	250	18,635	
	Hidden Falls	39,248	879	64,598	3,750		8,843	2,586	62,096	500	182,500	
AKI	Port Armstrong	3,365		14,947	483			1,274	11,013	3,202	34,284	
BCF	Burro Creek			57	10			22			89	
DIPAC	Gastineau	1,703	6,003	26,752	15,624		6,282	1,241	46,782		104,387	
KNFC	Gunnuk Creek	106	12	385	18					521	1,042	
KTHC	Deer Mountain	1,189	1,223	335	263	5	728	135		250	4,128	
	Ward Lake	637	1,703	426	35			1,400			4,201	
SJC	Indian River			80	26			44		110	260	
POWHA	Klawock Hatchery	5,616	1,872	13,104	11,232		1,781	284	144	9,023	43,056	
MIC	Tamgas Creek	10,325	28,223	25,877	1,801			3,000	78,000		147,226	
ADF&G	Old Frank's Lake									1,054	1,054	
	Crystal Lake Hatchery	243	473	712	200	103	538	225			2,494	
Southeast Totals		100,076	146,603	333,622	57,800	108	19,778	16,692	313,497	14,910	1,003,086	
Prince William Sound												
PWSAC	Wally Noerenberg		2,800		450		1,000	541			4,791	
	Cordova/Whittier				4,501						4,501	
VFDA	Solomon Gulch	23,717			50,000	1,627		2,761	19,068	1,119	98,292	
Prince William Sound Totals		23,717	2,800	0	54,951	1,627	1,000	3,302	19,068	1,119	107,584	
Cook Inlet												
CIAA	Eklutna								5		5	
ADF&G	Trail Lakes				4,665			780	9,905	350	15,700	
	Elmendorf				52,900	1,450		224			54,574	1
	Ft. Richardson/Little Susitna		6,000		24,689	4,688		478			35,855	1
Cook Inlet Totals		0	6,000	0	82,254	6,138	0	1,482	9,910	350	106,134	
Kodiak												
KRAA	Kitoy Bay	148,333			800	325	2,500	6,666		210	158,834	
	Settler's Bay/Crescent L	500	500		200	1,000					2,200	
	Katmai L	250	250		50	200					750	
Kodiak Totals		149,083	750	0	1,050	1,525	2,500	6,666	0	210	161,784	
Statewide Totals		272,876	156,153	333,622	196,055	9,398	23,278	28,142	342,475	16,589	1,378,588	

Table 13(d). Estimated chinook salmon returns to Alaska hatcheries in 1998, including common property harvests, as reported by operators.

Region/Operator/Location		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Comment
		Seine	Gillnet	Troll	Sport							
Southeast												
SSRAA	Whitman Lake		188	564	413		16,930	522	890		19,507	
COOP	Earl West Cove	617	2,051	301	126						3,095	
	Neets Bay	633	43	313	288				90		1,367	
NSRAA	Medvejie Creek	125	42	4,878	638		11,003	1,409	13,327		31,422	
	Hidden Falls	5,012	74	2,359	183		1,090	762	1,630	700	11,810	
BCF	Burro Creek	15	15	10	10		4	46			100	
DIPAC	Gastineau	14	203	246	1,459		194	430			2,546	
KTHC	Deer Mountain Hatchery	3	19	74	278	14	63	70		235	756	
SJC	Indian River			112	25			90	1	65	293	
MIC	Tamgas Creek		237	144	150		750	230	2,940		4,451	
Federal	Little Port Walter	180	26	945	89			703			1,943	
	Snettisham			16	155						171	
ADF&G	Crystal Lake Hatchery	48	378	668	704		1,911	1,154			4,863	
Southeast Totals		6,647	3,276	10,630	4,518	14	31,945	5,416	18,878	1,000	82,324	
Prince William Sound												
PWSAC	Wally Noerenberg				750			978			1,728	
	Chenega/Cordova/Whittier				800	280					1,080	
Prince William Sound Totals		0	0	0	1,550	280	0	978	0	0	2,808	
Cook Inlet												
ADF&G	Elmendorf				4,605	560		105			5,270	
	Ninilchik River		426		500						926	
	Deception Cr	75	25		50					50	200	
	Homer Spit	325			13,661	281		409			14,676	1
	Ft. Richardson										0	
	Deception Creek				1,300			189			1,489	
	Ninilchik River				1,000			156			1,156	1
	Statewide LL Lakes				31,823						31,823	1,2
Cook Inlet Totals		400	451	0	52,939	841	0	859	0	50	55,540	
Statewide Totals		7,047	3,727	10,630	59,007	1135	31,945	7,253	18,878	1,050	140,672	

Table 13(e). Estimated sockeye salmon returns to Alaska hatcheries in 1998, including common property harvests, as reported by operators.

		Common Property Harvest							Cost Recovery		Escapement	Total	Comment
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Harvest				
Southeast													
SSRAA	Beaver Falls – Shrimp Bay											0	
	Hugh Smith Lake	985	2,399				34	184		920		4,522	
	Virginia Lake		349							1,200		1,549	
	Salmon Lake	1,739	7,389		555	900				4,446		15,029	
SSRAA/ADF&G	McDonald Lake	64,979	21,763		200		63,199					150,141	
POWHA	Klawock Hatchery	6,516	2,792			3,200	280	582		2,070		15,440	
NSRAA	Haines Project – Chilkat		3,415							592		4,007	
DIPAC	Snettisham – Gilbert Bay		6,335				1,231	4,771	23,152			35,489	
	Snettisham		9,543			5,000			10,387			24,930	
	Chilkat L Coop		46,000							54,000		100,000	
	Stikine		27,978									27,978	
	Taku		1,406									1,406	
Southeast Totals		74,219	129,369	0	755	9,100	64,744	5,537	33,539	63,228		380,491	
Prince William Sound													
PWSAC	Main Bay		128,702		6,738			10,596	111,026			257,062	
	Gulkana I and II		152,641			11,100	27,744	19,255		12,060		222,800	
	Crosswind L		318,507			22,100	45,183		36,810			422,600	
	Summit L		20,388							2,712		23,100	
Prince William Sound Totals		0	620,238	0	6,738	33,200	72,927	29,851	147,836	14,772		925,562	
Cook Inlet													
PGHC	Port Graham							1,289		14,143		15,432	
CIAA	Eklutna		2,260		100		1,500		2,713			6,573	
	Trail Lakes – Bear Creek	2,299						2,272	21,046	6,159		31,776	
	Packer's Creek		18,346						868	17,486		36,700	
	Salmon Creek								17,293	3,916		21,209	
	Kirschner Lake	8,112							19,390			27,502	
	China Poot/Hazel L	79,642				15,000			20,579			115,221	
Cook Inlet Totals		90,053	20,606	0	100	15,000	1,500	3,561	81,889	41,704		254,413	
Kodiak													
KRAA	Kitoi Bay	62,000										62,000	
	Pillar Creek												
	Kitoi/Duck Bay	13,000			150	100						13,250	
	Crescent L	1,543	1,543			2,000						5,086	
	Afognak	9,000						1,170				10,170	
	Hidden L/Foul Bay	9,188										9,188	
	Spiridon Lake	93,000	65,000									158,000	
	Spiridon Lake	125,000	91,000					647		5,000		221,647	
	Waterfall Bay	11,057										11,057	
	Frazer Lake Fishpass	161,000	200,000				233,755			233,900		828,655	
Kodiak Totals		484,788	357,543	0	150	2,100	233,755	1,817	0	238,900		1,319,053	
Statewide Totals		649,060	1,127,756	0	7,743	59,400	372,926	40,766	263,264	358,604		2,879,519	

Comments:

1. Based on 1997 Sport Fish Statewide Harvest Surveys.
2. Combined coho and chinook harvest

Table 13(f). Estimated "other" enhanced fish returns to Alaska hatcheries in 1998.

Region/Operator/Location	Species	Commercial	Sport Catch	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Comment
Southeast										
POWHA Klawock	steelhead	50	150			5			205	
DMTH Deer Mountain	steelhead		30		10	14		33	87	1
Southeast Totals		50	180	0	10	19	0	33	292	
Cook Inlet										
ADF&G Ft. Richardson/Statewide lakes	Arctic char		2,238			51			2,289	
	Arctic grayling		3,524						3,524	
	rainbow trout		79,000						79,000	
Cook Inlet Totals		0	84,762	0	0	51	0	0	84,813	
Statewide Totals		50	84,942	0	10	70	0	33	85,105	

See Table 16 for listing of acronyms used throughout this report.

Table 14. Summary of fishery resource-permitted salmon production in Alaska for 1998.

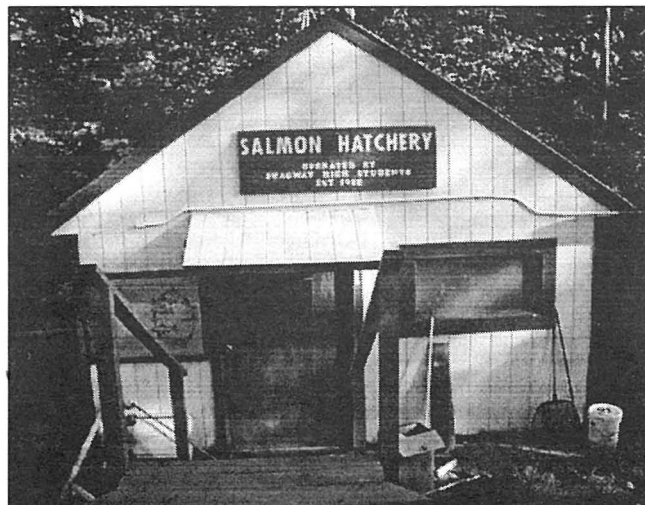
Region/Permittee	Species	Maximum Number to be Released
Southeast		
Douglas Island Pink and Chum, Inc.	SOCKEYE	5,000
Juneau Center for FOS	CHINOOK	45,000
Juneau-Douglas High School	COHO	2
Kake High School	CHUM	500
Klawock City School	COHO	250
Skagway High School	PINK, COHO, CHINOOK	62,000
Southern Southeast Regional Aquaculture Assn.	CHINOOK, COHO,	25,180
Thorne Bay School	COHO, PINK	500
University of Alaska, Southeast	SEAWEED	600
USDA, Forest Service	COHO	125,140
White Cliff Elementary	COHO	250
Southcentral		
Academy Charter School	COHO	250
Alpenglow Elementary	COHO	250
Anchorage Montessori School	COHO	250
Aurora Elementary School	COHO	100
Baxter Elementary	COHO	250
Bear Valley Elementary	COHO	250
Birchwood ABC	COHO	250
Bowman School	COHO	250
Butte Elementary	COHO	250
Central School of Science	COHO	250
CES Palmer Research Center	COHO	500
Chapman School	COHO	300
Chester Valley School	COHO	250
Chinook Elementary	COHO	250
Chugach Optional School	COHO	250
College Gate Elementary	COHO	250
Colony Middle School	COHO	250
Cook Inlet Aquaculture Association	SOCKEYE	500,000
Denali Elementary	COHO	250
Dimond High School	COHO	250
Eagle River Elementary	COHO	250
East High School	COHO	250
Fairview Elementary	COHO	250
Girdwood School	COHO	250
Gladys Wood Elementary	COHO	250
Goldenview Middle School	COHO	250
Goose Bay Elementary School	COHO	250
Homer High School	COHO	500
Homestead Elementary	COHO	250
Huffman Elementary	COHO	250
Inlet View Elementary	COHO	250
J.F. Kennedy Elementary	COHO	250
Kasuun Elementary School	COHO	250
Kenny Lake School	COHO	250
Kincaid Elementary School	COHO	250
King Career Center	COHO	250
Klatt Elementary	COHO	250
Lake Otis Elementary	COHO	250
Midnight Sun Family Learning Cntr	COHO	250
Mirror Lake Middle School	COHO	250
Mt. View Elementary	COHO	250
Nanwalek Elem/High School	COHO	500
Nikiski Elementary	COHO	250
Nunaka Valley	COHO	250
Ocean View Elementary	COHO	250
O'Malley Elementary	COHO	250

Table 14. (Continued.)

Region/Permittee	Species	Maximum Number to be Released
Southcentral (continued)		
Orion Elementary c/o Ursa Major	COHO	250
Palmer Junior Middle School	COHO	500
Rabbit Creek School	COHO	250
Rogers Park Elementary	COHO	250
Scenic Park Elementary	COHO	250
Sears Elementary School	COHO	250
Sherrod Elementary	COHO	250
Snowshoe Elementary School	COHO	250
St. Elizabeth Ann Seton School	COHO	250
Susan B. English School	PINK	500
Susitna Elementary School	COHO	250
Su-Valley Jr. Sr. High School	COHO	250
Swanson Elementary School	COHO	50
Taku Elementary	COHO	250
Tanaina Elementary	COHO	250
Tudor School	COHO	250
Turnagain Elementary	COHO	250
Tustumena Elementary School	COHO	250
Wasilla High School	COHO	500
Wasilla Middle School	COHO	250
William Tyson Elementary	COHO	250
Williwaw Elementary	COHO	250
Kodiak		
Main Elementary School	COHO	50
Interior		
AK Public Lands Info. Center	CHUM	50
Anderson School	COHO	250
Circle School	COHO	500
Delta Junction High School	COHO	2,800
Eagle Community School	COHO	500
Katie John School	COHO	500
Nenana High School	COHO	500
Tanacross School	COHO	1,000
Tanana School	COHO	500
Tok School	COHO	250
Tri-Valley School	COHO	500
Western		
Dillingham High School	COHO	500
East Elementary	COHO	100
Kodiak National Wildlife Refuge	COHO	30
Nikolski School	COHO	500
Perryville School	COHO	250
Peterson Elementary	COHO	200
Port Lions School	COHO, PINK	4
Saint George School	OYSTER, PACIFIC	100
Togiak School	COHO	500
Unalaska High School	PINK, COHO	49,200
Arctic Yukon Kuskokwim		
Andrew K. Demoski School	CHUM	250
Aniak Elementary School	COHO	500
Aniak High School	COHO	500
Arctic Village School	COHO	500
Bethel Regional High School	COHO	250
Cominco Alaska, Inc.	TROUT, RAINBOW	75
Crow Village Sam School	COHO	500
Ella B. Vernetti School	COHO	500
Fort Yukon School	COHO	250

Table 14. (Continued.)

Region/Permittee	Species	Maximum Number to be Released
Arctic Yukon Kuskokwim (continued)		
Galena City Schools	COHO	250
Gusty Michael School	COHO	500
Jack Egnaty Sr. School	COHO	500
Jimmy Huntington School	COHO	400
Johnnie John Sr.	COHO	250
Kiana School	COHO	500
Kilbuck Elementary	COHO	250
Kotzebue Middle/High School	CHUM	500
Kwethluk Community School	COHO	500
Marshall School	COHO	500
McGrath School	COHO	300
Mountain Village High School	COHO	500
NS/BS RAA	COHO	6
Quinhagak School	COHO	300
Shaktoolik School	COHO	250
Takotna Charter School	COHO	250
Vocational Educational/Correspondence	CHUM	500
Zackar Levi Elementary	COHO	300
Outside		
Washington State University	TROUT, RAINBOW	8,000



Skagway High School operated salmon hatchery

Table 15. Detailed return information, by species, to 1997 Alaska enhancement program projects.

Table 15(a). Estimated pink salmon returns to Alaska hatcheries in 1997, including common property harvests, as reported by operators.

■ = updated information

Region/Operator/Location		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Cost Recovery Revenue
		Seine	Gillnet	Troll	Sport							
Southeast												
AAI	Burnett Inlet	NOT AVAILABLE							585,709		585,709	
	Anita Bay	NOT AVAILABLE							531		531	
AKI	Port Armstrong	575,000						133,716	1,048,900	63,726	1,821,342	\$ 688,894
BCF	Burro Creek	200	200	200	100	100	250	1,028			2,078	
DIPAC	Gastineau				2,875		101,801	11,091	93,660		209,427	\$ 63,304
SJC	Indian River	127,632			130			36,545	47,618	235,000	446,925	\$ 69,519
Federal	Auke Creek	NOT AVAILABLE									0	
Southeast Totals		702,832	200	200	3,105	100	102,051	182,380	1,776,418	298,726	3,066,012	\$ 821,717
Prince William Sound												
PWSAC	Armin F. Koernig	3,747,662					20,000		3,206,656		6,974,318	\$1,480,975
	Wally Noerenberg	3,529,259					31,651	376,828	2,257,226		6,194,964	\$1,098,201
	Cannery Creek	3,587,289					258,064	320,656	1,872,493		6,038,502	\$ 894,679
VFDA	Solomon Gulch	4,005,264			100,000		333,215	297,274	2,480,483	39,437	7,255,673	\$2,696,319
Prince William Sound Totals		14,869,474	0	0	100,000	0	642,930	994,758	9,816,858	39,437	26,463,457	\$6,170,174
Cook Inlet												
PGHC	Port Graham	40,625	17,102			5,000	24,711	12,177	86,562		186,177	\$ 49,052
CIAA	Tutka	82,809	31,726		5,000		1,543	176,020	2,378,546	96,096	2,771,740	\$1,015,535
Cook Inlet Totals		123,434	48,828	0	5,000	5,000	26,254	188,197	2,465,108	96,096	2,957,917	\$1,064,587
Kodiak												
KRAA	Kitoy Bay	1,211,128						256,318		2,500	1,469,946	
	Waterfall L fishpass	13,809									13,809	
Kodiak Totals		1,224,937	0	0	0	0	0	256,318	0	2,500	1,483,755	\$ 0
Statewide Totals		16,920,677	49,028	200	108,105	5,100	771,235	1,621,653	14,058,384	436,759	33,971,141	\$8,056,478

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Table 15(b). Estimated chum salmon returns to Alaska hatcheries in 1997, including common property harvests, as reported by operators.

= updated information

Region/Operator/Location		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Cost Recovery Revenue
		Seine	Gillnet	Troll	Sport							
Southeast												
SSRAA	Whitman Lake										0	
	Nakat Inlet – summer	206,983	154,312								361,295	
	Earl West Cove – summer	40,519	70,159								110,678	
	Kendrick Bay – summer	385,966	18,438								404,404	
	Neets Bay – summer	468,626	78,117	2,109				102,927	1,470,072	34,055	2,155,906	\$3,699,494
	Neets Bay – fall	27,253	12,595	1,522				30,152	602,043	13,745	687,310	
	Neets Bay – Nakat-fall	78,531	127,219	232							205,982	
NSRAA	Medvejie Creek	1,613,687	361,350	290,216			512	44,828	283,712	720	2,595,025	\$ 561,163
	Hidden Falls	1,377,400						111,000	220,024	1,400	1,709,824	\$ 913,614
	Haines projects		3,707				5,560	713		5,254	15,234	
AAI	Burnett Inlet	8,428	11,124						90,840		110,392	
	Anita Bay	30,045	12,273						626		42,944	
BCF	Burro Creek	10	10	10	5	5	10	42			92	
DIPAC	Sheep Creek		49,172		2,000		15,639	45,246	36,213	25,000	173,270	\$ 49,802
	Gastineau		49,300		1,605		30,315	47,631	44,871		173,722	\$ 43,603
	Amalga		217,594						692,533		910,127	\$ 888,233
	Limestone Inlet		57,848						45,434		103,282	\$ 62,582
	Boat Harbor		188,026						2,920		190,946	\$ 4,452
KNFC	Gunnuk Creek	14,656	1,000	300	150		14,536	96,229	35,014	24,504	186,389	\$ 56,889
	Southeast Cove	24,690	1,500	500			3,000		284,131		313,821	\$ 461,643
SJC	Indian River	957						511	43	433	1,944	\$ 41
MIC	Tamgas Creek	3,000	35,000						27,000		65,000	
Southeast Totals		4,280,751	1,448,744	294,889	3,760	5	69,572	479,279	3,835,476	105,111	10,517,587	\$6,741,516
Prince William Sound												
PWSAC	Wally Noerenberg	215,237	601,104		2,000		15,229	154,764	800,366		1,788,700	\$2,269,772
VFDA	Solomon Gulch	255,300			1,000		7,750		6,803		270,853	\$ 19,975
Prince William Sound Totals		470,537	601,104	0	3,000	0	22,979	154,764	807,169	0	2,059,553	\$2,289,747
Cook Inlet												
CIAA	Ekluṭna		1,047						698		1,745	\$ 482
Cook Inlet Totals		0	1,047	0	0	0	0	0	698	0	1,745	\$ 482
Kodiak												
KRAA	Kitoi Bay	11,021						18,082			29,103	
Kodiak Totals		11,021	0	0	0	0	0	18,082	0	0	29,103	\$ 0
Statewide Totals		4,762,309	2,050,895	294,889	6,760	5	92,551	652,125	4,643,343	105,111	12,607,988	\$9,031,745

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Table 15(c). Estimated coho salmon returns to Alaska hatcheries in 1997, including common property harvests, as reported by operators.

= updated information

Region/Operator/Location		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Cost Recovery Revenue
		Seine	Gillnet	Troll	Sport							
Southeast												
SSRAA	Whitman Lake	680	3,161	11,658	1,070		1,294	2,011	2,733		22,607	\$ 19,957
	Earl West Cove	149	5,534	4,965	140						10,788	
	Nakat Inlet	1,210	4,265	6,031	21						11,527	
NSRAA	Neets Bay	2,393	14,209	75,351	5,140				61,261		158,354	\$415,673
	Medvejie Creek	31		83			7	17			138	
	Deer Lake	9,300		44,732	1,176		757		43,560		99,525	\$253,184
	Shamrock Bay			1,822	322		29				2,173	
	Hidden Falls	15,125	57	27,824	5,528		5,426	7,805	41,903		103,668	\$207,134
AKI	Port Armstrong	3,417		32,802			1,500	973	38,800	496	77,988	\$197,401
BCF	Burro Creek	10	10	10	5	5	10	91			141	
DIPAC	Gastineau	871	508	7,850	7,219		5,464	1,120	28,469		51,501	\$111,929
	Sheep Creek	5	14	191	5						215	
KNFC	Gunnuk Creek			55						55	110	
KTHC	Deer Mountain	927	1,010	341	278		695	1,410		300	4,961	
	Ward Lake	597	930	687	662			200		1,700	4,776	
SJC	Indian River			42	4			14		195	255	
POWHA	Klawock Hatchery	6,685	669	37,436	34,081		15,823	2,215	2,178	6,000	105,087	\$ 13,876
MIC	Tamgas Creek	3,356	23,264	21,693	1,557				26,500		76,370	
ADF&G	Old Frank's Lake	204	368	1,195						3,170	4,937	
	Crystal Lake Hatchery	124	307	1,967	500		100	1,192		900	5,090	
Southeast Totals		45,084	54,306	276,735	57,708	5	31,105	17,048	245,404	12,816	740,211	\$1,219,154
Prince William Sound												
PWSAC	Wally Noerenberg		5,626		8,315		4,335	1,339			19,615	
VFDA	Solomon Gulch	47,500			25,000		10,795	2,774	9,818	36	95,923	\$ 46,611
Prince William Sound Totals		47,500	5,626	0	33,315	0	15,130	4,113	9,818	36	115,538	\$ 46,611
Cook Inlet												
CIAA	Eklutna		656				40		397		1,093	\$ 166
	Trail Lakes				4,066		19	594	2,690	2,796	10,165	\$ 838
ADF&G	Elmendorf				52,316	1,814		231			54,361	
	Ft. Richardson/Little Susitna		12,521		18,918	2,597					34,036	
Cook Inlet Totals		0	13,177	0	75,300	4,411	59	825	3,087	2,796	99,655	\$ 1,003
Kodiak												
KRAA	Kitoi Bay	108,940			1,000	400		6,618		1,350	118,308	
	Settler's Bay/Crescent L				900	9,000					9,900	
	Katmai L				500	1,000					1,500	
	Pillar Creek				600					8,288	8,888	
Kodiak Totals		108,940	0	0	3,000	10,400	0	6,618	0	9,638	138,596	\$ 0
Arctic-Yukon-Kuskokwim												
ADF&G	Clear/Interior lakes				5,909						5,909	
Arctic-Yukon-Kuskokwim Totals												
Statewide Totals		201,524	73,109	276,735	175,232	14,816	46,294	28,604	258,309	25,286	1,099,909	\$1,266,768

1997 Update

Table 15(d). Estimated chinook salmon returns to Alaska hatcheries in 1997, including common property harvests, as reported by operators.

[REDACTED] = updated information

Region/Operator/Location		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Cost Recovery Revenue
		Seine	Gillnet	Troll	Sport							
Southeast												
SSRAA	Whitman Lake		62	373	286		64	1,151			1,936	
	Carroll Inlet		283	1,271	755						2,309	
COOP	Earl West Cove	148	1,850	452	259						2,709	
	Neets Bay			122	98				545		765	
AKI	Port Armstrong			1,058					220	220	1,498	
NSRAA	Medvejie Creek	164	47	9,451	2,763		1,867	1,456	21,326		37,074	\$199,971
	Hidden Falls	4,236	227	10,832	142		153	4,002	6,048	650	26,290	\$ 57,991
BCF	Burro Creek	5	5	5	5	5		21			46	
DIPAC	Gastineau		340	319	2,302		534	416	714		4,625	\$ 1,787
KTHC	Deer Mountain Hatchery		63	30	34		285	52		150	614	
SJC	Indian River			332	10		122	22	2	150	638	\$ 17
MIC	Tamgas Creek		518	150	58				3,000		3,726	
Federal	Little Port Walter	215	116	2,098	227		5	452		1,142	4,255	
ADF&G	Crystal Lake Hatchery		379	1,792	2,614		954	2,839		145	8,723	
Southeast Totals		4,768	3,890	28,285	9,553	5	3,984	10,411	31,855	2,457	95,208	\$259,766
Prince William Sound												
PWSAC	Wally Noerenberg		869		1,411		170		55		2,505	\$ 1,078
Prince William Sound Totals		0	869	0	1,411	0	170	0	55	0	2,505	\$ 1,078
Cook Inlet												
CIAA	Crooked Creek	Closed in 97- not evaluated									0	
ADF&G	Elmendorf				4,605	647		140			5,392	
	Ninilchik River		344		187						531	
	Homer Spit	10	476		10,372	44		280			11,182	
	Ft. Richardson										0	
	Deception Creek				1,364			122			1,486	
	Ninilchik River				1,938			122			2,060	
	Statewide LL Lakes				32,660						32,660	
Cook Inlet Totals		10	820	0	51,126	691	0	664	0	0	53,311	\$ 0
Statewide Totals		4,778	5,579	28,285	62,090	696	4,154	11,075	31,910	2,457	151,024	\$260,844

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Table 15(e). Estimated sockeye salmon returns to Alaska hatcheries in 1997, including common property harvests, as reported by operators.

Region/Operator/Location		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total	Cost Recovery Revenue
		Seine	Gillnet	Troll	Sport							
Southeast												
SSRAA	Beaver Falls – Shrimp Bay	18,598	5,742				1,948		7,213		33,501	\$ 61,979
	Hugh Smith Lake	6,649	7,754							12,180	26,666	
	Virginia Lake		127	1,209						6,500	7,836	
	Salmon Lake	1,835	2,882	231	200	1,000				20,000	26,148	
SSRAA/ADF&G	McDonald Lake	144,176	31,693		200	5,000				73,313	254,382	
POWHA	Klawock Hatchery	3,246	50	50		3,500	85	990		780	8,701	
NSRAA	Haines Project – Chilkat		2,317				280	71		421	3,089	
DIPAC	Snettisham – Gilbert Bay		4,629			3,000			13,534		21,163	
	Snettisham		6,285				6,750	4,116	36,353		53,504	
	Stikine		50,487								50,487	
	Taku		13,429								13,429	
Southeast Totals		174,504	125,395	1,573	400	12,500	9,063	5,177	57,100	113,194	498,906	\$ 61,979
Prince William Sound												
PWSAC	Main Bay		845,871				4,979	10,023	236,031	1,500	1,098,404	\$1,387,245
	Gulkana I and II		88,900		730	7,693	26,610	18,919		12,060	154,912	
	Crosswind L		170,800		1,375	13,625	30,782		30,094		246,676	\$ 30,094
	Summit L		7,000		275	2,725				4,374	14,374	
Prince William Sound Totals		0	1,112,571	0	2,380	24,043	62,371	28,942	266,125	17,934	1,514,366	\$1,387,245
Cook Inlet												
PGHC	Port Graham		24,952			2,142		1,289	7,817	13,941	50,141	\$ 39,422
CIAA	Eklutna		34,763						23,175		57,938	\$ 41,729
	Trail Lakes – Bear Creek	8,933					43	356	10,056	7,589	26,977	\$ 39,373
	Packer's Creek		14,150				31,474		8,575	2,407	56,606	\$ 33,204
	Salmon Creek								12,545		12,545	\$ 16,616
	Coal Creek						1,148				1,148	
Cook Inlet Totals		8,933	73,865	0	0	2,142	32,665	1,645	62,168	23,937	205,355	\$170,344
Kodiak												
KRAA	Kitoi Bay	49,118			400	400					49,918	
	Pillar Creek											
	L Kitoi L	1,262			100	100					1,462	
	Crescent L	3,178	3,178			6,000					12,356	
	Afognak	10,000			300	3,000		2,569		129,481	145,350	
	Foul Bay	17,884									17,884	
	Spiridon Lake	65,000	65,000								130,000	
	Malina Lake	NA						743		8,712	9,455	
	Laura L	12,080			1,600	35				39,736	53,451	
	Waterfall Bay	32,905				0					32,905	
	Frazer Lake Fishpass	74,046	74,046							205,264	353,356	
Kodiak Totals		265,473	142,224	0	2,400	9,535	0	3,312	0	383,193	806,137	\$ 0
Statewide Totals		448,910	1,454,055	1,573	5,180	48,220	104,099	39,076	385,393	538,258	3,024,764	\$1,619,568

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Table 15(f). Estimated "other" enhanced fish returns to Alaska hatcheries in 1997, including common property harvests, as reported by operators.

■ = updated information

Region/Operator/Location		Species	Commercial	Sport Catch	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast										
DMTH	Deer Mountain	steelhead					14		46	60
Cook Inlet Totals			0	0	0	0	14	0	46	60
Cook Inlet										
ADF&G	Ft. Richardson/Statewide lakes	rainbow trout		79,287			■			79,287
Cook Inlet Totals			0	79,287	0	0	0	0	0	79,287
Arctic-Yukon-Kuskokwim										
ADF&G	Clear	grayling		3,067						3,067
		arctic char		3,204						3,204
		lake trout		250						250
Arctic-Yukon-Kuskokwim Totals			0	6,521	0	0	0	0	0	6,521
Statewide Totals			0	85,808	0	0	0	0	0	85,808

See Table 16 for listing of acronyms used throughout this report.

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Table 16. List of acronyms.

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.
CFMD	Commercial Fisheries Management and Development Division
CIAA	Cook Inlet Aquaculture Association
COOP	Cooperative projects between state and PNP operators
CRAA	Chignik Regional Aquaculture Association
DCED	Department of Commerce and Economic Development
DIPAC	Douglas Island Pink and Chum, Inc.
FRED	Fisheries Rehabilitation, Enhancement and Development Division
HPG	Hatchery Policy Group
KNFC	Kake Nonprofit Fisheries Corporation
KRAA	Kodiak Regional Aquaculture Association
KRHI	Klawock River Hatchery, Inc.
KTHC	Ketchikan Tribal Hatchery Corporation
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
RPT	Regional Planning Team
SJC	Sheldon Jackson College
SSRAA	Southern Southeast Regional Aquaculture Association
UAF	University of Alaska Fairbanks
USDA	U.S. Department of Agriculture
VFDA	Valdez Fisheries Development Association