

Fishery Management Report No. 06-19

**Alaska Salmon Enhancement Program
2005 Annual Report**

by

Bruce White

March 2006

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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Alaska Department of Fish and Game, Commercial Fisheries, Juneau

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Alaska Department of Fish and Game
Division of Sport Fish, Research and Technical Services
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ABSTRACT

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 any fish into Alaska waters. Pathology, genetic, coded wire tag, and otolith processing laboratories are maintained to provide both diagnostic information to ADF&G fishery managers, and inseason and technical expertise to the private sector.

Over 1.7 billion salmon eggs were collected by Alaskan hatchery operators in 2005. In addition, over 1.4 billion fish were released. An estimated 80 million salmon of hatchery origin returned. Of the 200 million salmon harvested in the commercial common property fishery, over 53 million or 27% of the harvest was contributed from ocean ranching by the Alaska salmon enhancement program. Enhanced salmon provided over \$39 million or 14% of the preliminary value of the commercial common property harvest. The ocean ranching program provides hundreds of Alaskans with seasonal and fulltime jobs. It is considered the largest agricultural industry in Alaska.

Key words: Alaska salmon enhancement program, salmon hatchery, annual report, ocean ranching, private non-profit corporation, Southeast Alaska, Prince William Sound, Cook Inlet, Kodiak, egg take, cost recovery, Chinook, pink, chum, coho, sockeye

INTRODUCTION

Prince William Sound and Southeast Alaska are the predominant regions involved with enhancement programs, and pink and chum salmon are the predominant species produced. Production levels, in terms of egg takes and releases, have largely stabilized (Figure 1); programs have matured and are generally operating at planned capacities.

The salmon enhancement program is composed of several factions:

- 30 private nonprofit (PNP) corporation hatcheries,
- 2 federal or Bureau of Indian Affairs (BIA) hatcheries,
- 2 Alaska state hatcheries, and
- Several streamside incubation and restoration projects.

The Alaska Department of Fish and Game Division of Sport Fish operates the state hatcheries, primarily to 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 activity.

HIGHLIGHTS IN 2005

- The preliminary statewide harvest of salmon in 2005 was a record 221 million fish, surpassing the previous record of 218 million fish harvested in 1995. Statewide, the returns associated with Alaska's salmon hatcheries also reached record levels, with a return of over 80 million salmon.
- Enhancement program-produced fish provided 14% of the total value of the statewide commercial common property harvest. A preliminary estimate of the exvessel value of the enhanced portion of the commercial common property harvest is \$39 million, and is likely to increase with post season adjustments.
- Statewide, 47% of the chum, 33% of the pink, 19% of the coho, 8% of the Chinook and 4% of the sockeye salmon in the common property harvest were of hatchery origin.
- Compared to 2004, the preliminary exvessel value of the statewide commercial salmon harvest increased about 30%. This is largely due to the record number of fish harvested. The preliminary price paid for sockeye salmon increased, while the prices for Chinook, coho, pink, and chum salmon remained about the same as last year.
- An estimated 405,001 hatchery-produced fish representing 10 species (Chinook, coho, pink, chum and sockeye salmon; steelhead, lake, and rainbow trout; Arctic char and grayling) were harvested by sport anglers.
- In Southeast, a total of 4.2 million enhanced fish contributed 6% of the total common property harvest in number, and \$10.2 million or 16% of the total harvest in value. An estimated 2.8 million enhanced chum salmon were harvested in the common property fishery having a preliminary exvessel value of \$5.4 million. Hatchery origin coho and Chinook salmon contributions to the common property fishery were \$2.4 and \$1.4 million, respectively.
- Prince William Sound experienced record pink salmon returns, and contributions to the common property harvest. The five hatcheries combined to provide over \$19 million to the common property fishery. Total hatchery contributions exceeded 72% of the common property harvest in number and provided approximately 44% of the total exvessel value. Hatchery produced pink, sockeye, chum and coho salmon contributed about \$12.1, \$3.2, \$2.6, and \$1.1 million to the common property harvest, respectively.
- Approximately 14% of the salmon caught in Cook Inlet commercial salmon fisheries originated from Cook Inlet hatcheries, with a preliminary exvessel value of \$4.6 million.
- Enhanced salmon in the Kodiak commercial common property fisheries contributed an estimated \$5.5 million, and by number totaled 36% of the common property harvest. Returns to hatcheries are subject to natural forces, and accordingly survival rates and return numbers vary from year to year.

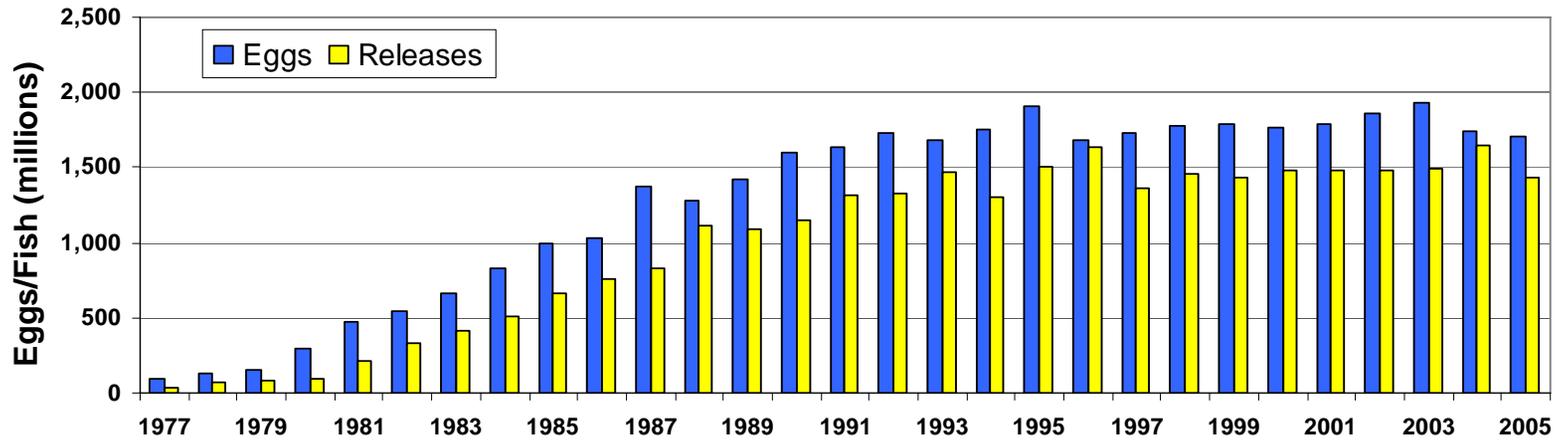


Figure 1.—Total egg-takes and releases in the Alaska salmon hatchery program, 1977 to 2005.

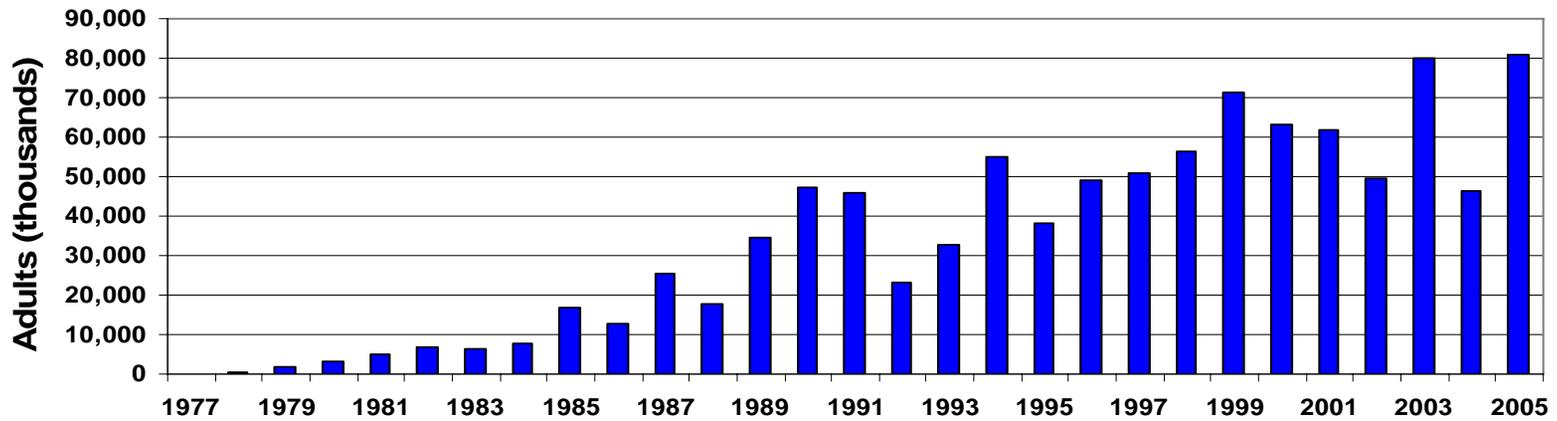


Figure 2.—Total returns in the Alaska salmon hatchery program, 1977 to 2005.

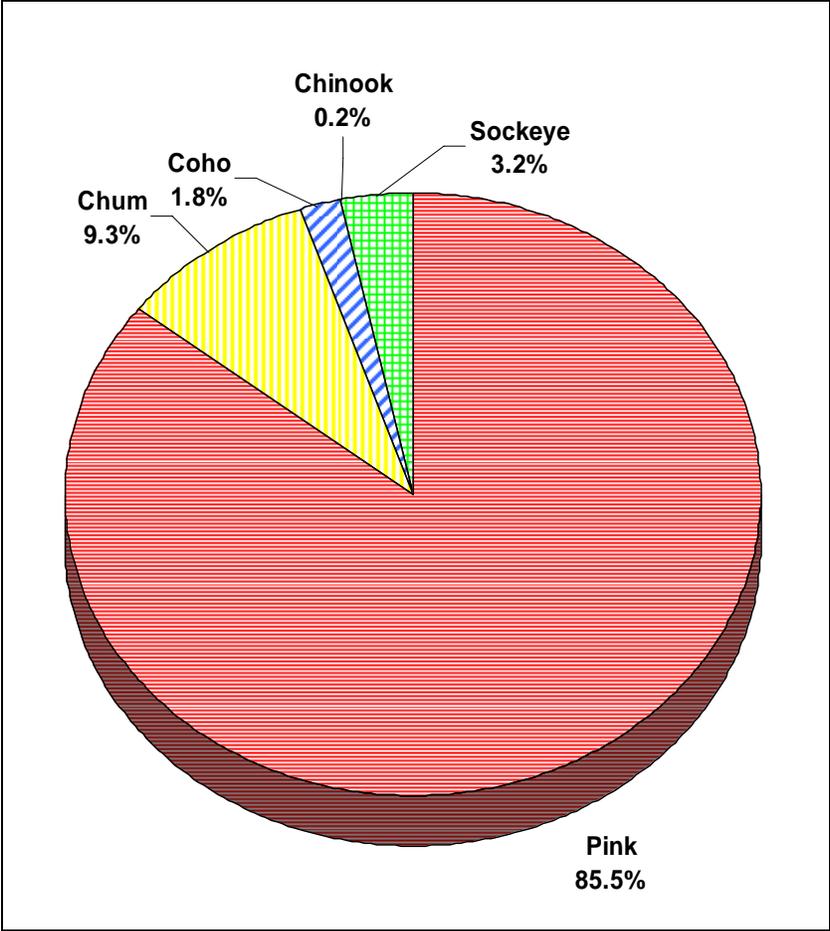


Figure 3.—Alaska salmon hatchery returns by species in 2005.

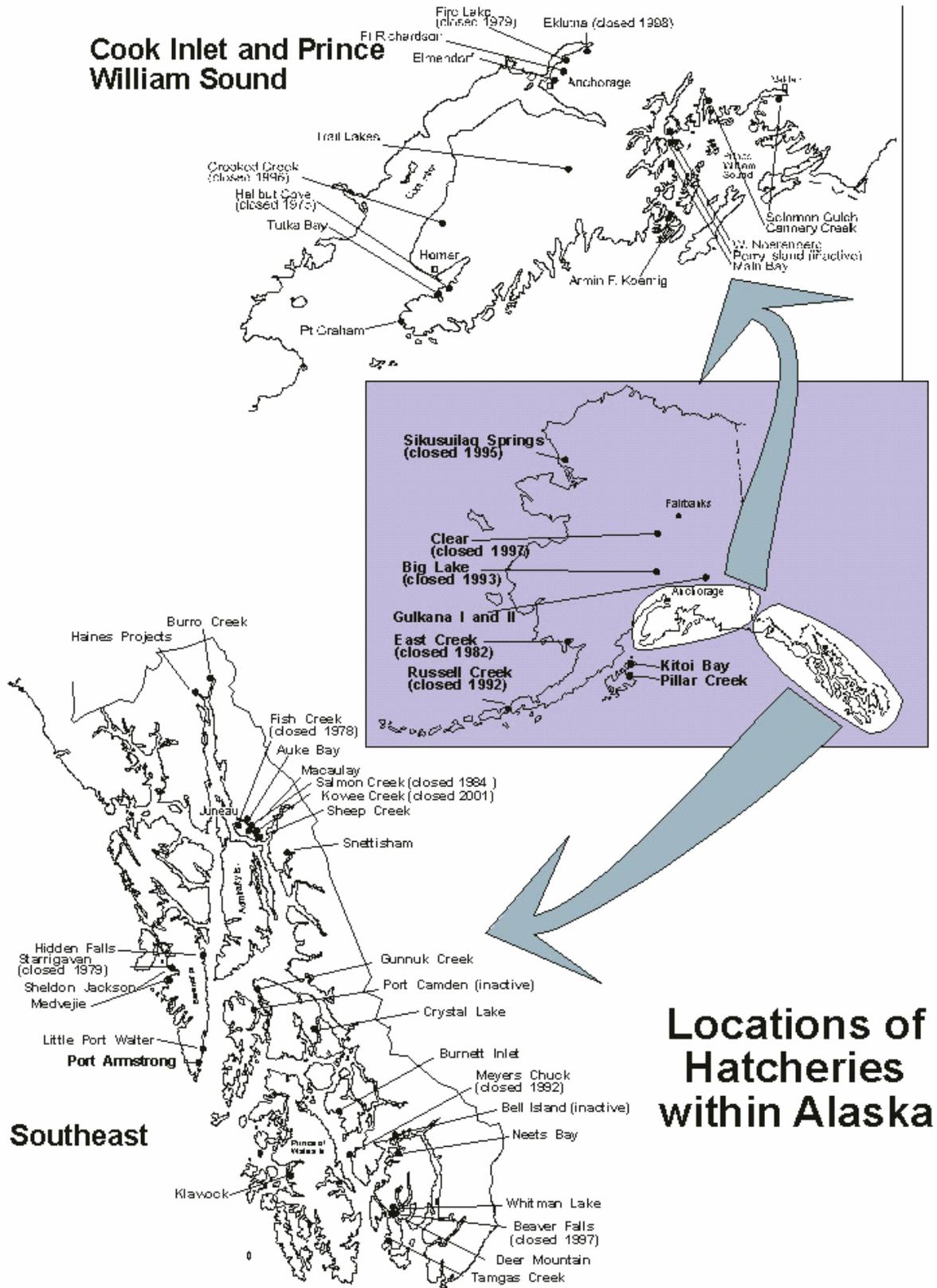


Figure 4.—Locations of hatcheries in Alaska.

Table 1.–List of acronyms and abbreviations used throughout this report.

Acronym	Organization
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

Table 2.—Estimated egg takes from Alaska hatcheries, in millions, 2005.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	83.46	435.97	23.98	13.48	17.41	0.17	574.46
Prince William Sound	685.78	167.77	4.80	0.00	47.87	0.00	906.22
Cook Inlet	25.18	0.00	2.83	2.02	8.21	4.43	42.68
Kodiak/Alaska Peninsula	155.10	22.65	2.47	0.21	8.30	0.00	188.72
Totals ^a	949.52	626.38	34.08	15.71	81.80	4.60	1,712.09

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

Table 3.—Estimated releases from Alaska hatcheries, in millions, 2005.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	81.42	400.42	15.55	7.39	10.91	0.02	515.72
Prince William Sound	564.05	126.99	3.03	0.00	15.33	0.00	709.40
Cook Inlet	26.57	0.00	2.17	2.00	10.16	1.24	42.14
Kodiak/Alaska Peninsula	136.29	21.58	1.39	0.07	2.32	0.00	161.64
Totals ^a	808.32	548.99	22.13	9.47	38.73	1.26	1,428.90

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

Table 4.—Total returns attributed to Alaska hatcheries and enhancement projects in 2005, including common property, cost recovery, broodstock, and escapement.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	1,788,382	5,227,853	874,135	116,636	301,227	94	8,308,327
Prince William Sound	50,908,319	2,200,381	329,869	1,846	733,682	0	54,174,097
Cook Inlet	2,366,005	0	81,239	19,615	1,344,244	122,443	3,933,546
Kodiak/Alaska Peninsula	14,013,561	124,959	165,979	380	217,447	0	14,522,326
Totals ^a	69,076,267	7,553,193	1,451,222	138,477	2,596,600	122,537	80,938,296

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

Table 5.– Alaska common property commercial harvest of enhanced fish, in thousands, 2005.

Area	Harvest ^a	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Total Commercial Harvest	448	1,608	2,993	59,040	6,437	70,526
	Total Cost Recovery Harvest	31	140	255	811	1,893	3,129
	Common Property Harvest	417	1,468	2,738	58,229	4,544	67,397
	Enhanced Fish Harvested	50	121	491	772	2,770	4,204
	% Enhanced in Total CP Harvest ^b	11.9%	8.3%	17.9%	1.3%	61.0%	6.2%
Prince William Sound	Total Commercial Harvest	35	1,987	536	59,897	1,987	64,442
	Total Cost Recovery Harvest	0	189	44	12,510	536	13,279
	Common Property Harvest	35	1,798	492	47,387	1,451	51,163
	Enhanced Fish Harvested	0	329	183	35,111	1,383	37,007
	% Enhanced in Total CP Harvest ^b	0.0%	18.3%	37.3%	74.1%	95.3%	72.3%
Cook Inlet	Total Commercial Harvest	30	5,424	208	2,354	167	8,183
	Total Cost Recovery Harvest	0	75	2	2,139	0	2,215
	Common Property Harvest	30	5,349	206	215	167	5,968
	Enhanced Fish Harvested	0	819	0	5	0	823
	% Enhanced in Total CP Harvest ^b	0.0%	15.3%	0.0%	2.2%	0.0%	13.8%
Kodiak	Total Commercial Harvest	14	3,047	396	30,139	477	34,073
	Total Cost Recovery Harvest	0	0	0	2,640	0	2,640
	Common Property Harvest	14	3,047	396	27,499	477	31,433
	Enhanced Fish Harvested	0	215	152	10,963	92	11,422
	% Enhanced in Total CP Harvest ^b	0.0%	7.1%	38.3%	39.9%	19.2%	36.3%
Chignik/Aleutian Islands/ Alaska Peninsula	Total Commercial Harvest	16	6,598	220	9,614	791	17,239
	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	75	24,502	75	3	1,131	25,786
	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	63	121	349	0	386	919
	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	681	43,287	4,777	161,047	11,376	221,168
	Total Cost Recovery Harvest	31	404	301	18,099	2,429	21,263
	Common Property Harvest	650	42,883	4,476	142,948	8,947	199,905
	Enhanced Fish Harvested	50	1,484	826	46,851	4,245	53,456
	% Enhanced in Total CP Harvest ^b	7.6%	3.5%	18.5%	32.8%	47.4%	26.7%

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

^b CP = common property.

Table 6.—Preliminary estimated value of the total Alaska common property harvest, in thousands of dollars, 2005.

Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	\$12,101	\$7,286	\$13,428	\$22,482	\$8,868	\$64,165
Prince William Sound	\$3,563	\$17,716	\$3,019	\$16,348	\$2,741	\$43,388
Cook Inlet	\$701	\$29,831	\$654	\$51	\$282	\$31,519
Kodiak	\$139	\$11,689	\$1,074	\$10,315	\$672	\$23,888
Chignik/Aleutian Islands/Alaska Peninsula	\$118	\$25,812	\$234	\$974	\$583	\$27,722
Bristol Bay	\$213	\$91,294	\$142	\$0	\$852	\$92,502
Arctic-Yukon-Kuskokwim	\$2,444	\$444	\$847	\$0	\$362	\$4,097
Totals ^a	\$19,278	\$184,074	\$19,399	\$50,171	\$14,359	\$287,281

^a Harvest data from Eggers, D. 2006 Run Forecasts and Harvest Projections for 2006 Alaska Salmon Fisheries and Review of the 2005 Season. Value data from the Alaska Department of Fish and Game website: <http://www.state.ak.us/adfg/geninfo/salmon;salmhome.htm>. Accessed 2/06/2006. Preliminary figures may not total exactly due to rounding.

Table 7.—Salmon fishery enhancement program timeline of events.

Year	Event	No. of state hatcheries	No. private nonprofit (PNP) hatcheries	No. 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)	9		
	Legislature authorizes permits for private nonprofit hatchery operators to salmon ranch			
1975	4 PNP permits issued [Sheldon Jackson (#3), Port San Juan (#2), Perry Island (#1), and Sandy Bay (#4)]		4	
	2 state hatcheries constructed (Big Lake and Tutka)	11		
1976	AS 16.10.375 passed, designating regions for regional planning teams and enhancing salmon			
	1 state hatchery constructed at Elmendorf	12		
	2 PNP permits issued [Burnett Inlet (#5) and Kowee Creek (#6)]		6	
1977	1 PNP permit issued to Gunnuk Creek (#7)		7	
	2 state hatcheries constructed (Klawock and Russell Creek)	14		
	State enhancement project at Karluk Lake started			
1978	1 PNP permit issued to Whitman Lake (#8)		8	
	2 state hatcheries constructed (Cannery Creek and Hidden Falls)	16		
1979	3 PNP permits issued [Sheep Creek (#11), Meyers Chuck (#10), Salmon Creek (#9)]		11	
	1 state hatchery constructed (Snettisham)	17		
	1 state hatchery closed (Fire Lake)	16		
1980	1 PNP permit issued to Burro Creek (#12)		12	
	2 state hatcheries constructed (Clear and Main Bay)	18		
	1 hatchery at Tamgas Creek constructed (Metlakatla Indian Community/BIA)			3
1981	1 state hatchery closed (East Creek)	17		

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Table 7.—Page 2 of 3.

Year	Event	No. of state hatcheries	No. private nonprofit (PNP) hatcheries	No. of Federal hatcheries
	2 state hatcheries constructed (Sikusuilag and Trail Lakes)	19		
	4 PNP permits issued [Medvejie (#16), Port Armstrong (#13), Solomon Gulch (#15), Salmon Creek (#14)]		16	
	1 PNP permit revoked [Salmon Creek (#9)]		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)]		20	
	1 state hatchery completed (Broodstock Development Center)	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)	16		
	4 PNP permits issued [Hidden Falls (#28), Cannery Creek (#26), Trail Lakes (#27), Kitoi Bay (#29)]		28	
	1 state hatchery constructed (Pillar Creek)	17		
	2 PNP permits revoked [Sandy Bay (#4) and Salmon Creek (#14)]		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	12	30	
	Portions of 6 state hatcheries paid for by private or federal funds			
1992	1 state hatchery closed (Russell Creek)	11		
	2 PNP permits issued [Haines projects (#34) and Port Graham (#33)]		32	
	1 PNP permit revoked [Meyers Chuck (#10)]		31	
	FRED Division merged with the Commercial Fisheries Division to form the Commercial Fisheries Management and Development (CFMD) Division			3
1993	3 state hatcheries transferred from CFMD to Sport Fish Division (Broodstock Development Center, Elmendorf, and Ft. Richardson)			

-continued-

Table 7.—Page 3 of 3.

Year	Event	No. of state hatcheries	No. private nonprofit (PNP) hatcheries	No. of Federal hatcheries
	2 state hatcheries contracted to private sector (Crooked Creek and Klawock)	9		
	1 state hatchery closed (Big Lake)	8		3
1994	4 PNP permits issued [Tutka (#32), Crooked Creek (#35), Klawock (#36), Deer Mountain (#37)]		35	
	1 state hatchery contracted (Deer Mountain)	7		
	Ft. Richardson Hatchery merged with Broodstock Development Center	6		
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)]	4	36	
	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)]		33	
1997	1 state hatchery closed (Clear)	3		
	2 state contracted (PNP) hatcheries closed [Beaver Falls (#24), Crooked Creek (#35)]		31	
	1 PNP hatchery closed & reopened under new management [Burnett Inlet (#5, now #40)]		31	
1998	1 PNP hatchery closed [Eklutna (#17)]		30	
2000	1 state hatchery contracted to private sector (Crystal Lake Hatchery)	2	31	
	Port Camden hatchery permit (# 23) given up		30	3
2001	Kowee Creek hatchery permit (#6) revoked; 1 Federal hatchery inactivated (Auke Creek)	2	29	2
2002	No activity	2	29	2
2003	No activity	2	29	2
2004	1 PNP hatchery permit issued [Port St. Nicholas (#43)]	2	30	2
2005	No activity	2	30 ^a	2

^a Perry Island, Bell Island, and Burro Creek are not active; there are 27 active PNPs.

Table 8.—Eggs taken at Alaska hatcheries in 2005, 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		37.07	3.00	1.51			41.58
	Neets Bay		88.68	2.01				90.69
	Burnett Inlet			2.11		0.84		2.95
	Crystal Lake			0.23	2.57			2.79
NSRAA	Hidden Falls		88.32	4.37	2.05			94.75
	Medvejie Creek	0.47	58.91	0.27	4.73			64.37
	Haines projects		2.19					2.19
AKI	Port Armstrong	81.46	4.63	3.03	0.22			89.34
DIPAC	Macaulay ^a		112.80	0.81	0.93			114.54
	Snettisham					16.57		16.57
KTHC	Deer Mountain			0.18	0.17		0.07	0.42
KNFC	Gunnuk Creek		25.10	0.02				25.12
POWHA	Klawock			4.94				4.94
SJC	Sheldon Jackson	1.53	6.39	0.07				8.07
MIC	Tamgas Creek		11.87	2.94	0.55			15.35
NMFS	Little Port Walter				0.69		0.10	0.79
Southeast Totals ^b		83.46	435.97	23.98	13.48	17.41	0.17	574.46
Prince William Sound								
PWSAC	Armin F. Koernig	198.59						198.59
	Wally Noerenberg	96.33	167.77	2.55				266.65
	Cannery Creek	151.81						151.81
	Main Bay					11.38		11.38
	Gulkana					36.48		36.48
VFDA	Solomon Gulch	239.05		2.25				241.30
Prince William Sound Totals ^b		685.78	167.77	4.80	0	47.87	0	906.22
Cook Inlet								
PGHC	Port Graham	25.18						25.18
CIAA	Trail Lakes			1.41		8.21		9.63
ADF&G	Ship Creek Complex			1.42	2.02		4.43	7.86
Cook Inlet Totals ^b		25.18	0	2.83	2.02	8.21	4.43	42.68
Kodiak								
KRAA	Kitoi Bay	155.10	22.65	2.38		0.72		180.84
	Pillar Creek			0.09	0.21	7.59		7.89
Kodiak Totals ^b		155.10	22.65	2.47	0.21	8.30	0	188.72
Statewide Totals ^b		949.52	626.38	34.08	15.71	81.80	4.60	1,712.09

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

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

Table 9.—Alaskan hatchery releases in 2005, in millions of fish.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total	
Southeast ^a									
SSRAA	Whitman Lake			0.30	0.63			0.94	
	Kendrick Bay		19.70					19.70	
	Nakat Inlet		7.92	0.30				8.22	
	Anita Bay			0.23				0.23	
	Neets Bay			0.83	0.09			0.92	
	Neets Bay		70.07	2.17				72.24	
	Nakat Inlet		9.76					9.76	
	Anita Bay		13.55					13.55	
	Burnett Inlet			0.23			0.18	0.40	
	Neck Lake			1.00			0.49	1.48	
	Crystal Lake			0.14	0.59			0.73	
	Neets Bay				0.40			0.40	
	Anita Bay				0.33			0.33	
	NSRAA	Hidden Falls		43.82	2.20	1.25			47.26
		Takatz Bay		44.98					44.98
		Deer Lake			0.57				0.57
		Medvejie							
Deep Inlet			41.42					41.42	
Bear Cove		0.27	7.21	0.02	2.43			9.92	
Mist Cove				0.72				0.72	
Indian River				0.03				0.03	
Shamrock Bay				0.29				0.29	
Haines projects			3.19					3.19	
AKI	Port Armstrong	80.11	0.57	1.58	0.08			82.35	
DIPAC	Macaulay (Gastineau)			0.40	0.22			0.62	
	Sheep Creek			0.10	0.10			0.20	
	Gastineau Channel		35.27					35.27	
	Amalga Harbor		36.79					36.79	
	Boat Harbor		13.56					13.56	
	Limestone Inlet		15.01					15.01	
	Skagway				0.22			0.22	
	FishCr/Auke Bay/Twin L				0.28			0.28	
	Snettisham					4.15		4.15	
	Sweetheart Lake					0.55		0.55	
Tahltan/Tuya Lakes					4.43		4.43		
Tatsamenie Lake					0.63		0.63		
KTHC	Deer Mountain			0.07	0.08		0.01	0.15	
KNFC	Gunnuk Creek		5.09					5.09	
	Southeast Cove		23.47					23.47	
SJC	Sheldon Jackson	1.04	1.08	0.07	0.01			2.19	
	Deep Inlet		3.25					3.25	
MIC	Tamgas Creek		4.72	2.06	0.53	0.10		7.40	
POWHA	Klawock			2.25		0.40		2.65	
NMFS	Little Port Walter				0.16		0.02	0.18	
Southeast Totals ^b		81.42	400.42	15.55	7.39	10.91	0.02	515.72	

-continued-

Table 9.–Page 2 of 2.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total	
Prince William Sound									
PWSAC	Armin F. Koernig	131.20						131.20	
	Wally Noerenberg	84.06	71.34	0.80				156.20	
	Port Chalmers		40.48					40.48	
	Whittier			0.11				0.11	
	Cordova			0.11				0.11	
	Chenega			0.05				0.05	
	Sawmill Bay		15.16					15.16	
	Gulkana I and II								
	Paxson Lake					3.31		3.31	
	Crosswind Lake					3.70		3.70	
	Cannery Creek	126.58						126.58	
	Main Bay					8.32		8.32	
	VFDA	Solomon Gulch	222.22		1.97				224.19
	Prince William Sound Totals ^b		564.05	126.99	3.03	0	15.33	0	709.40
Cook Inlet ^c									
PGHC	Port Graham	26.57				0.20		26.77	
CIAA	Trail Lakes								
	Bear Creek			0.89		3.42		4.32	
	Homer Spit			0.10				0.10	
	Hidden Lake					0.57		0.57	
	Meadow Creek					1.74		1.74	
	Hazel/Leisure/Kirschner Lake					4.13		4.13	
	Tutka Lagoon					0.10		0.10	
ADF&G	Ship Creek Complex			1.18	2.00		1.24	4.42	
Cook Inlet Totals ^b		26.57	0	2.17	2.00	10.16	1.24	42.14	
Kodiak									
KRAA	Kitoi Bay	136.29	21.58	1.01				158.87	
	Crescent Lake			0.14				0.14	
	Jennifer Lake			0.11				0.11	
	Katmai			0.03				0.03	
	Little Kitoi					0.68		0.68	
	Ruth Lake			0.03				0.03	
	Pillar Creek								
	Big Waterfall Lake					0.05		0.05	
	Crescent Lake					0.04		0.04	
	Hidden Lake					0.19		0.19	
	Island Lake			0.01				0.01	
	Little Waterfall Lake					0.07		0.07	
	Margaret Lake			0.01				0.01	
	Mission Lake			0.02				0.02	
	Monaska River			0.01	0.07			0.08	
	Potato Lake			0.01				0.01	
	Little Kitoi					0.06		0.06	
	Ruth Lake					0.03		0.03	
	Spiridon Lake					1.20		1.20	
	Kodiak Totals ^b		136.29	21.58	1.39	0.07	2.32	0	161.64
Statewide Totals ^b		808.32	548.99		9.47	38.73	1.26	1,428.90	
				22.13					

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

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

Table 10.—Estimated adult returns by species to Alaska enhancement projects in 2005, including common property harvests, as reported by operators.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake		610,094	38,982	19,205			668,281
	Neets Bay		1,044,846	124,600	14,060			1,183,506
	Burnett Inlet			44,380		4,400		48,780
	Crystal Lake			7,400	8,577			15,977
	Anita Bay				2,940			2,940
NSRAA	Hidden Falls		806,561	203,769	19,074			1,029,404
	Medveje		1,725,312	155,004	28,768			1,909,084
	Haines projects		5,058			6,043		11,101
AKI	Port Armstrong	1,786,926		19,444	1,656			1,808,026
DIPAC	Sheep Creek ^a							
	Macaulay		823,655	40,612	6,364			870,631
	Snettisham ^c					275,801		275,801
KNFC	Gunnuk Creek		164,426	423				164,849
SJC	Sitka	1,456	18,233	94	42			19,825
POWHA	Klawock			136,274		14,903		151,177
MIC	Tamgas Creek		29,668	96,669	10,163	80		136,610
NMFS	Little Port Walter				4,325			4,325
KTHC	Deer Mountain			6,454	1,462		94	8,010
Southeast Totals		1,788,382	5,227,853	874,135	116,636	301,227	94	8,308,327
Prince William Sound								
PWSAC	Armin F. Koernig	10,117,138						10,117,138
	Wally Noerenberg	9,164,154	2,200,381	87,399				11,451,934
	Cannery Creek	13,491,670						13,491,670
	Main Bay					467,109		467,109
	Gulkana					266,573		266,573
ADF&G	Ship Creek Complex				1,846			1,846
VFDA	Solomon Gulch	18,135,357		242,470				18,377,827
Prince William Sound Totals		50,908,319	2,200,381	329,869	1,846	733,682	0	54,174,097
Cook Inlet ^d								
PGHC	Port Graham	595,820						595,820
CIAA	Trail Lakes			7,735		1,344,244		1,351,979
	Tutka	1,770,185						1,770,185
ADF&G	Ship Creek Complex			73,504	19,615		122,443	215,562
Cook Inlet Totals		2,366,005	0	81,239	19,615	1,344,244	122,443	3,933,546
Kodiak								
KRAA	Kitoy Bay	14,013,561	124,959	164,379		45,916		14,348,815
	Pillar Creek			1,600	380	171,531		173,511
Kodiak Totals		14,013,561	124,959	165,979	380	217,447	0	14,522,326
Statewide Totals		69,076,267	7,553,193	1,451,222	138,477	2,596,600	122,537	80,938,296

^a Sheep Creek returns are listed under Macaulay hatchery.

Table 11.—Projected adult returns, by species, to Alaska enhancement projects in 2006.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			25,000	25,000			50,000
	Nakat Inlet		160,000	30,000				190,000
	Anita Bay		300,000	25,000				325,000
	Kendrick Bay		280,000					280,000
	Long Lake				5,000			5,000
	Neets Bay		1,674,110	280,000	17,000			1,971,110
	Burnett Inlet			10,000		1,000		11,000
	Neck Lake			75,000		4,500		79,500
	Crystal Lake			3,500	7,600			11,100
NSRAA	Hidden Falls		1,522,000	176,000	22,400			1,720,400
	Medvejie Creek		1,592,000	82,100	21,000			1,695,100
	Haines projects		5,722			6,043		11,765
AKI	Port Armstrong	2,371,285	5,584	158,105	1,536			2,536,510
DIPAC	Macaulay (Gastineau)							
	Gastineau Channel		1,363,000	35,000	4,900			1,402,900
	Amalga Harbor		1,331,000					1,331,000
	Boat Harbor		192,000					192,000
	Limestone Inlet		125,000					125,000
	Pullen Creek				800			800
	Snettisham					265,000		265,000
	Sweetheart Lake					5,400		5,400
	Taku River					4,000		4,000
	Stikine River					22,000		22,000
KTHC	Deer Mountain			8,008	1,089		70	9,167
KNFC	Gunnuk Creek		75,152	250				75,402
	Southeast Cove		540,393					540,393
SJC	Indian River	41,460	5,259	6,733	22			53,474
Federal	Little Port Walter				2,300		300	2,600
MIC	Tamgas		102,000	100,000	8,000	3,000		213,000
POWHA	Klawock			67,400		20,406		87,806
Southeast Totals		2,412,745	9,273,220	1,082,096	116,647	331,349	370	13,216,427
Prince William Sound								
PWSAC	Armin F. Koernig	5,900,000						5,900,000
	Wally Noerenberg	4,000,000	2,950,000	78,000				7,028,000
	Cannery Creek	5,400,000						5,400,000
	Main Bay					573,400		573,400
	Gulkana					260,000		260,000
VFDA	Solomon Gulch	11,577,587		196,837				11,774,424
Prince William Sound Totals		26,877,587	2,950,000	274,837	0	833,400	0	30,935,824
Cook Inlet								
PGHC	Port Graham	690,768						690,768
CIAA	Trail Lakes							
	Hazel/Leisure					148,900		148,900
	Kirschner Lake					24,200		24,200
	Hidden Lake					61,000		61,000
	Bear Lake			37,000		87,000		124,000
	Tustumena Lake					1,730,000		1,730,000
ADF&G	Ship Creek Complex ^a			73,504	21,461		122,443	217,408
Cook Inlet Totals		690,768	0	110,504	21,461	2,051,100	122,443	2,996,276
Kodiak								
KRAA	Kitoy Bay	6,718,961	263,630	161,681		54,137		7,198,409
	Pillar Creek			1,600	500	171,867		173,967
Kodiak Totals		6,718,961	263,630	163,281	500	226,004	0	7,372,376
Statewide Totals		36,700,061	12,486,850	1,630,718	138,608	3,441,853	122,813	54,520,903

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

Table 12.—Cumulative state loans made to PNP salmon hatchery corporations and enhancement funds returned to associations.

Region/Corporation (number of permits)	State Loans					Enhancement Funds generated through assessments returned to associations via contract		2005 Operator Reported Revenues ^b
	For Capital Construction		For Operations		Cumulative Repayments ^a	FY 2006	Cumulative	
	FY 2005	Cumulative	FY 2005	Cumulative				
Southern Southeast								
SSRAA (Southern Southeast Regional Aquaculture Association)—(4) ^c		\$10,663,000	\$1,447,887	\$6,649,196	\$21,428,852	\$712,667	\$33,666,419	\$4,976,624
POWHA (Prince of Wales Hatchery Association)—(1)		\$496,000*		\$1,870,000*	\$0	\$0	\$0	\$345,678
KTHC (Ketchikan Tribal Hatchery Corporation)—(1)						\$0	\$0	\$203,133
Northern Southeast								
NSRAA (Northern Southeast Regional Aquaculture Association)—(3) ^c	\$63,500*	\$2,787,765	\$2,799,048	*	\$4,615,544	\$5,963,695	\$1,264,052	\$27,127,380*
AKI (Armstrong-Keta, Inc.)—(1)	\$737,000*	\$4,302,645	\$990,000	\$6,058,095	\$9,370,740	\$0	\$0	\$1,399,848
BCF (Burro Creek Farms, Inc.)—(1)		\$143,500		\$290,875	\$608,708	\$0	\$0	\$0
DIPAC (Douglas Island Pink and Chum, Inc.)—(3)		\$9,364,000		\$13,664,000	\$7,758,655	\$0	\$0	\$2,505,574
KNFC (Kake Nonprofit Fisheries Corporation)—(1)		\$2,858,724		\$6,128,883	\$656,105	\$0	\$0	\$735,988
SJC (Sheldon Jackson College)—(1)		\$423,624			\$694,210	\$0	\$0	\$75,000
Prince William Sound								
PWSAC (Prince William Sound Aquaculture Association)—(3) ^d		\$24,475,419	\$3,000,000	\$8,585,500	\$21,070,124	\$457,972	\$16,287,362	\$11,435,367
VFDA (Valdez Fisheries Development Association)—(1)	\$420,000	\$5,950,310		\$8,024,246	\$10,979,508	\$0	\$0	\$3,093,768
Cook Inlet								
PGHC (Port Graham Hatchery Corporation)—(1)		\$1,106,500		\$635,155	\$30,576	\$0	\$0	\$407,665
CIAA (Cook Inlet Aquaculture Association)—(3) ^d		\$1,576,381		\$2,983,369	\$2,352,838	\$405,258	\$20,952,957	\$2,181,361
Kodiak								
KRAA (Kodiak Regional Aquaculture Association)—(2) ^d	\$454,700	\$454,700			\$0	\$382,069	\$12,715,271	\$2,811,275
Chignik								
CRAA (Chignik Regional Aquaculture Association)—(0) ^d						\$80,135	\$3,253,017	\$0
Statewide Totals	\$1,675,200	\$64,602,568	\$8,236,935	\$59,504,863		\$3,302,153	\$114,002,406	\$32,986,151

Source: as reported in Department of Community and Economic Development, Division of Investments—Fisheries Enhancement Revolving Loan Fund Program Overview.

* Denotes a minor correction was made from previous reports.

^a Total repayments received and applied over the life of the loan relationship.

^b Data is preliminary and includes all reported revenue sources: cost recovery, loans, grants, interest, rentals, etc.

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

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

Table 13.—Summary of anadromous salmon production (all species) from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1966	NA	1	0	1986	1,031	745	12,582
1967	NA	1	0	1987	1,274	754	24,994
1968	NA	1	0	1988	889	826	15,330
1969	NA	1	0	1989	1,418	1,087	34,530
1970	NA	1	0	1990	1,603	1,154	47,422
1971	NA	1	0	1991	1,634	1,319	46,109
1972	NA	2	0	1992	1,725	1,323	23,187
1973	2	0	0	1993	1,685	1,475	32,609
1974	8	2	0	1994	1,758	1,302	55,172
1975	29	7	18	1995	1,913	1,503	38,062
1976	56	9	38	1996	1,687	1,638	49,229
1977	96	38	175	1997	1,734	1,363	50,839
1978	129	73	334	1998	1,776	1,453	56,468
1979	152	85	1,962	1999	1,791	1,435	71,276
1980	292	96	3,024	2000	1,762	1,476	62,960
1981	475	212	4,885	2001	1,792	1,481	61,729
1982	548	331	6,939	2002	1,862	1,484	49,345
1983	548	412	6,560	2003	1,927	1,495	80,050
1984	675	416	6,650	2004	1,741	1,651	46,448
1985	995	659	16,650	2005	1,707	1,428	80,816
				Total	36,715	28,737	986,389

Table 14.—Summary of pink salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1975	15	5	18	1991	998	862	38,132
1976	23	4	16	1992	1,077	797	14,879
1977	66	18	175	1993	1,031	919	20,693
1978	79	50	321	1994	1,076	790	41,489
1979	91	60	1,591	1995	1,162	921	25,415
1980	174	64	2,310	1996	929	999	29,298
1981	328	135	4,371	1997	1,064	772	33,956
1982	344	218	6,610	1998	1,121	873	38,651
1983	406	264	5,939	1999	1,092	878	51,973
1984	443	332	5,298	2000	1,074	880	40,395
1985	604	366	14,158	2001	1,097	942	47,247
1986	511	484	9,044	2002	1,168	938	30,835
1987	840	443	21,960	2003	1,105	962	59,774
1988	736	730	13,838	2004	960	965	30,564
1989	975	675	31,754	2005	950	808	69,076

Table 15.—Summary of chum salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1975	5	1		1991	480	365	2,181
1976	7	2		1992	510	428	3,089
1977	8	3	1	1993	496	469	6,709
1978	12	4	3	1994	529	407	8,996
1979	24	7	6	1995	596	473	9,808
1980	74	13	16	1996	590	535	16,353
1981	87	46	53	1997	524	485	12,595
1982	126	63	153	1998	517	479	13,468
1983	170	86	301	1999	571	461	15,072
1984	269	108	1,809	2000	576	508	18,698
1985	244	201	1,404	2001	564	468	9,167
1986	374	182	1,931	2002	549	451	12,565
1987	380	298	1,930	2003	681	436	13,711
1988	392	288	2,490	2004	669	578	10,932
1989	293	310	1,347	2005	626	549	7,553

Table 16.—Summary of coho salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1967	NA	1		1987	26	15	451
1968	NA	1		1988	28	19	251
1969	NA	1		1989	23	16	489
1970	NA	1		1990	22	18	940
1971	NA	0		1991	23	14	1,251
1972	NA	2		1992	21	14	1,378
1973	NA	2		1993	25	15	915
1974	NA	2		1994	28	18	1,306
1975	7	4	0	1995	27	21	1,312
1976	5	3	22	1996	30	21	1,087
1977	5	5		1997	36	23	1,456
1978	5	3		1998	30	21	1,365
1979	4	3	49	1999	26	22	1,553
1980	4	2	21	2000	28	19	1,631
1981	8	3	55	2001	29	21	1,799
1982	16	3	108	2002	36	20	2,120
1983	17	9	96	2003	35	23	1,563
1984	21	11	179	2004	34	27	1,203
1985	20	15	308	2005	34	22	1,451

Table 17.—Summary of Chinook salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1967	NA	1		1987	17	8	93
1968	NA	0		1988	18	9	75
1969	NA	0		1989	15	8	76
1970	NA	0		1990	17	10	116
1971	NA	0		1991	20	7	172
1972	NA	0		1992	13	10	131
1973	NA	0		1993	12	12	112
1974	0	1		1994	13	10	126
1975	1	0		1995	14	7	171
1976	1	0		1996	11	7	171
1977	3	1		1997	12	7	150
1978	2	1	0	1998	13	8	104
1979	2	1	3	1999	12	8	112
1980	3	1	7	2000	11	9	159
1981	1	1	5	2001	13	10	188
1982	3	1	12	2002	16	8	157
1983	7	2	13	2003	12	9	170
1984	10	4	21	2004	15	9	194
1985	19	4	26	2005	16	9	138

Table 18.—Summary of sockeye salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1973	2	0		1990	100	74	3,120
1974	2	1		1991	113	70	4,373
1975	8	1		1992	104	74	3,710
1976	24	2		1993	122	61	4,180
1977	19	14	0	1994	112	77	3,255
1978	35	16	13	1995	115	81	1,356
1979	30	17	318	1996	127	75	2,320
1980	38	15	670	1997	98	75	2,682
1981	51	28	401	1998	95	72	2,879
1982	59	45	56	1999	91	67	2,566
1983	68	53	210	2000	74	60	2,076
1984	86	52	382	2001	89	39	3,328
1985	108	73	754	2002	93	67	3,668
1986	101	77	1,146	2003	94	64	4,831
1987	107	60	920	2004	63	72	3,554
1988	107	69	1,166	2005	82	39	2,597

Table 19.—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 ^a
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	19,005	\$19,462,990
2003	1,914	1,490	79,897	22,937	\$19,999,879
2004	1,727	1,641	46,227	21,986	\$17,915,212
2005	1,688	1,417	80,580	21,245	\$16,223,805
Cumulative Hatchery Revenues from Special Harvests:					\$296,664,604

^a Inseason values. Revenue for 2005 derived from numbers provided by Eggers, D. 2006 Run Forecasts and Harvest Projections for 2006 Alaska Salmon Fisheries and Review of the 2005 Season and value data from the Alaska Department of Fish and Game website:
<http://www.state.ak.us/adfg/geninfo/salmon;salmhome.htm>. Accessed 2/06/2006.

Table 20.—Summary of pink 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)
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	59,773	15,376
2004	960	965	30,564	17,040
2005	950	808	69,076	18,099

Table 21.—Summary of chum 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)
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	13,695	6,514
2004	664	574	10,905	4,102
2005	615	544	7,524	2,428

Table 22.—Summary of coho salmon production from private nonprofit hatcheries in Alaska, as reported by operators.

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	1,433	395
2004	29	23	1,043	258
2005	30	19	1,281	289

Table 23.—Summary of Chinook salmon production from private nonprofit hatcheries in Alaska, as reported by operators.

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	138	48
2004	11	7	164	62
2005	12	7	103	26

Table 24.—Summary of sockeye 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)
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	4,832	604
2004	63	72	3,550	524
2005	82	39	2,597	404

Table 25.—Alaska commercial salmon fishery harvest average weights and prices.

Area/Species	Average Harvest ^a	
	Weight (lb)	Price/lb.
Cook Inlet		
Chinook	21.48	\$1.01
Sockeye	6.00	\$0.95
Coho	6.61	\$0.50
Pink	3.41	\$0.07
Chum	8.07	\$0.21
Kodiak		
Chinook	11.68	\$0.85
Sockeye	5.48	\$0.70
Coho	7.12	\$0.36
Pink	3.41	\$0.11
Chum	6.89	\$0.18
Prince William Sound		
Chinook	21.92	\$4.67
Sockeye	5.85	\$1.67
Coho	7.84	\$0.83
Pink	3.43	\$0.10
Chum	7.82	\$0.24
Southeast		
Chinook	14.23	\$2.00
Sockeye	5.64	\$0.88
Coho	6.06	\$0.80
Pink	3.50	\$0.11
Chum	8.89	\$0.22

^a Data from the Alaska Department of Fish and Game website:
<http://www.state.ak.us/adfg/geninfo/finfish/salmon;salmhome.htm>. Accessed: 2/06/2006.

Table 26.—Alaska state hatchery FY 2005 operating budgets, in thousands of dollars.

Hatchery	FY 2005 Authorized Total	FY 2005 Actual Total
Elmendorf Hatchery	\$612.80	\$804.97
Ft. Richardson Hatchery	\$1,279.10	\$1,339.95
Crystal Lake Hatchery ^a	\$562.60	\$546.80

^a Crystal Lake Hatchery was funded with \$169,900 from the Southeast Sustainable Salmon Fund, \$176,900 from the fish and game fund, and with \$200,000 from the Southern Southeast Regional Aquaculture Association.

Table 27.– Estimated pink salmon returns to Alaska hatcheries in 2005, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest						Brood	Cost Recovery Harvest	Escapement	Total
	Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other				
Southeast										
AKI	Port Armstrong	771,627					26,100	178,582	810,617	1,786,926
SJC	Sitka						333	1,123		1,456
Southeast Totals		771,627	0	0	0	0	26,433	179,705	810,617	1,788,382
Prince William Sound										
PWSAC	Armin F. Koernig	6,429,875						793,048	2,894,215	10,117,138
	Wally Noerenberg	4,455,887	59,592		100			1,043,736	3,604,839	9,164,154
	Cannery Creek	10,452,306						590,559	2,448,805	13,491,670
VFDA	Solomon Gulch	13,713,349			25,000		491,446	224,969	3,561,805	118,788
Prince William Sound Totals		35,051,417	59,592		25,100	0	491,446	2,652,312	12,509,664	118,788
Cook Inlet										
PGHC	Port Graham							84,088	506,732	5,000
CIAA	Tutka	4,779							1,631,806	133,600
Cook Inlet Totals		4,779						84,088	2,138,538	138,600
Kodiak										
KRAA	Kitoy Bay	10,963,488				4,350		400,469	2,640,254	5,000
Kodiak Totals		10,963,488	0		0	4,350	0	400,469	2,640,254	5,000
Statewide Totals		46,791,311	59,592	0	25,100	4,350	517,879	3,316,574	18,099,073	262,388

Table 28.—Estimated chum salmon returns to Alaska hatcheries in 2005, 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)	189,800	49,729							239,529	
	Anita Bay (summer)	90,735	139,359							230,094	
	Kendrick Bay (summer)	118,832	12,211	9,428						140,471	
	Neets Bay (summer)	62,400	58,400	6,700		16,365	90,518	604,838		839,221	
	Neets Bay (fall)	42,900	14,600	21			13,490	86,314		157,325	
	Nakat Inlet (fall)	6,800	41,500							48,300	
NSRAA	Medvejie	564,171	430,655	165,046		14,448	36,708	513,044	1,240	1,725,312	
	Hidden Falls	342,255		3		21,550	112,581	330,172		806,561	
	Haines projects		2,023				1,108		1,927	5,058	
DIPAC	Macaulay (was Gastineau)	9,924	72,458		1,800	102,642	88,818	32,966		308,608	
	Amalga	34,982	78,962					246,405		360,349	
	Limestone Inlet	1,827	25,045							26,872	
	Boat Harbor	2,547	125,279							127,826	
KNFC	Gunnuk Creek										
	Kake SHA	16,527		425		5,750	35,533		1,000	59,235	
	Southeast Cove	26,100		66		800	189	78,036		105,191	
SJC	Sitka	9,117				8,689	427			18,233	
MIC	Tamgas Creek	6,000	13,350			3,782	5,536	1,000		29,668	
Southeast Totals		1,524,917	1,063,571	181,689	1,800	0	174,026	384,908	1,892,775	4,167	5,227,853
Prince William Sound											
PWSAC	Wally Noerenberg										
	Lake Bay	272,309	873,845		500		280,811	535,783		1,963,248	
	Port Chalmers	235,162								235,162	
	Sawmill Bay	1,971								1,971	
Prince William Sound Totals		509,442	873,845		500	0	0	280,811	535,783	0	2,200,381
Kodiak											
KRAA	Kitoi Bay	91,814					33,145			124,959	
Kodiak Totals		91,814	0		0	0	0	33,145		124,959	
Statewide Totals		2,126,173	1,937,416	181,689	2,300	0	174,026	698,864	2,428,558	4,167	7,553,193

Table 29.—Estimated coho salmon returns to Alaska hatcheries in 2005, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest					Personal Use/ Subsistence	Other	Brood	Cost Recovery	Harvest	Escapement	Total
	Seine	Gillnet	Troll	Sport								
Southeast												
SSRAA	Whitman Lake	377	1,019	5,349	840		557	1,858				10,000
	Anita Bay	350	8,067	6,402	311							15,130
	Nakat	617	5,631	6,748	856							13,852
	Neets Bay	9,400	30,000	64,200	12,800		3,020	980		4,200		124,600
	Burnett Inlet	100	1,100	200	300		1,123	1,377				4,200
	Neck Lake		9,500	400	3,000		1,099			26,181		40,180
	Crystal Lake Hatchery	300	900	3,000	300		2,720	180				7,400
NSRAA	Medvejie	36		725	461		250	149			20	1,641
	Deer Lake	3,428		56,283	2,078		2,028			69,618		133,435
	Shamrock Cove		81	13,845	5,502		500					19,928
	Hidden Falls	22,247	178	62,427	6,577		22,629	3,688		84,523	1,500	203,769
AKI	Port Armstrong			12,957			2,576	3,457		454		19,444
KNFC	Gunnuk Creek	35	126	62				30			170	423
DIPAC	Macaulay (Gastineau)	1,643	639	11,437	4,179		2,224	471		20,019		40,612
KTHC	Deer Mountain	1,187	1,205	518	1,148		814	320			1,262	6,454
SJC	Sitka			42			15	37				94
POWHA	Klawock Hatchery	20,567		47,562	12,323		4,876	4,422		37,657	8,867	136,274
MIC	Tamgas Creek	6,369	33,983	40,153	1,889	600		1,705		12,000		96,699
Southeast Totals		66,656	92,429	332,310	52,564	600	44,431	18,674		254,652	11,819	874,135
Prince William Sound												
PWSAC	Wally Noerenberg	1,537	51,720		1,500		5,000	6,450		19		66,226
	Cordova/Whittier/Chenega				21,173							21,173
VFDA	Solomon Gulch	129,966			66,000		277	1,048		44,402	777	242,470
Prince William Sound Totals		131,503	51,720		88,673	0	5,277	7,498		44,421	777	329,869
Cook Inlet												
CIAA	Trail Lakes				4,788		57	808		1,536	546	7,735
ADF&G	Ship Creek Complex				13,446			508			364	14,318
	Bird Creek				9,595			619				10,214
	Homer Spit				13,001							13,001
	Resurrection Bay				29,232			145				29,377
	Campbell Creek				816			25			922	1,763
	Eklutna tailrace				4,747			84				4,831
Cook Inlet Totals		0	0		75,625	0	57	2,189		1,536	1,832	81,239

-continued-

Table 29.—Page 2 of 2.

Area/Operator/Location	Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
	Seine	Gillnet	Troll	Sport						
Kodiak										
KRAA Kitoi Bay	151,729			50	758	5,000	6,842			164,379
Pillar Creek- road system				1,600						1,600
Kodiak Totals	151,729	0		1,650	758	5,000	6,842	0	0	165,979
Statewide Totals	349,888	144,149	332,310	218,512	1,358	54,765	35,203	300,609	14,428	1,451,222

Table 30.—Estimated Chinook salmon returns to Alaska hatcheries in 2005, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest							Escapement	Total		
	Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood				
Southeast											
SSRAA	Whitman Lake	513	352	6,195	3,750		2,228	971	4,306	150	18,465
	Long Lake	130		330	110				170		740
ADF&G	Crystal Lake Hatchery		650	1,870	4,170			1,887			8,577
	Anita Bay	50	1,430	1,410	50						2,940
	Neets Bay	3,240	210	3,990	1,390				5,230		14,060
NSRAA	Medvejie	1,499	1,018	10,465	2,003	772	1,155	2,128	9,478	250	28,768
	Hidden Falls	2,173	351	4,431	743		4,223	868	6,085	200	19,074
AKI	Port Armstrong			569			555	292	240		1,656
DIPAC	Macaulay (Gastineau)	20	1,047	994	2,456		961	374	383	129	6,364
KTHC	Deer Mountain Hatchery	32	43	433	574		138	92		150	1,462
SJC	Sitka			19			23				42
MIC	Tamgas Creek	97	809	2,352	1,545	350		175	4,835		10,163
NOAA	Little Port Walter	66	101	2,760	256		869	273			4,325
Southeast Totals		7,820	6,011	35,818	17,047	1,122	10,152	7,060	30,727	879	116,636
Prince William Sound											
ADF&G	Ship Creek Complex				1,846						1,846
Prince William Sound Totals		0	0		1,846	0	0	0	0	0	1,846
Cook Inlet											
ADF&G	Ship Creek Complex										
	Resurrection Bay				2,819						2,819
	Kachemak Bay				3,139						3,139
	Ship Creek				3,509			215		1,485	5,209
	Crooked Creek				1,728			110		1,024	2,862
	Ninilchik River				670			210		355	1,235
	Eklutna tailrace				750						750
	Deception Creek				1,659			100		1,842	3,601
Cook Inlet Totals		0	0		14,274	0	0	635	0	4,706	19,615
Kodiak											
KRAA	Pillar Creek				185			100		95	380
Kodiak Totals		0	0		185	0	0	100	0	95	380
Statewide Totals		7,820	6,011	35,818	33,352	1,122	10,152	7,795	30,727	5,680	138,477

Table 31.—Estimated sockeye salmon returns to Alaska hatcheries in 2005, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest							Cost Recovery Harvest	Escapement	Total
	Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood			
Southeast										
SSRAA	Burnett Inlet									
	Neck Lake	900	2,300		200		408	588	4	4,400
POWHA	Klawock Hatchery						2,394		12,509	14,903
DIPAC	Snettisham	31,160	42,874		1,145		13,363	4,728	140,029	233,299
	Sweetheart Lake	1,670	2,956			1,000				5,626
	Stikine River		36,346							36,346
	Taku River		530							530
NSRAA	Haines projects		2,417						3,626	6,043
MIC	Tamgas Creek	40	40							80
Southeast Totals		33,770	87,463	0	1,345	1,000	16,165	5,316	140,033	301,227
Prince William Sound										
PWSAC	Main Bay	34,125	198,964		750			44,366	188,904	467,109
	Gulkana I and II		40,277		916	35,491		14,431	2,090	93,205
	Crosswind Lake		52,743		1,677	38,538		5,429	69,253	167,640
	Summit Lake		2,877		57	1,542			1,252	5,728
Prince William Sound Totals		34,125	294,861		3,400	75,571	0	64,226	188,904	733,682
Cook Inlet										
PGHC	Port Graham									
CIAA	Trail Lakes–Bear Creek	19,018			500		10	3,122	37,654	70,589
	Hidden Lake							2,093	10,907	13,000
	Meadow Creek	8,208						2,164	12,221	22,593
	Leisure/Hazel Lakes	40,333			650	4,900	1		22,050	67,934
	Tustumena Lake		751,147			56,000			348,012	1,155,159
	Kirschner Lake							14,969		14,969
Cook Inlet Totals		67,559	751,147		1,150	60,900	11	7,379	74,673	1,344,244
Kodiak										
KRAA	Kitoy Bay	44,705			100	111			1,000	45,916
	Pillar Creek									
	Spiridon Lake	74,892	69,967							144,859
	Settler's Cove					1,000				1,000
	Foul Bay	7,402								7,402
	Waterfall Bay	18,270								18,270
Kodiak Totals		145,269	69,967		100	1,111	0	0	0	217,447
Statewide Totals		280,723	1,203,438	0	5,995	138,582	16,176	76,921	403,610	2,596,600

Table 32.—Estimated “other” enhanced returns to Alaska hatcheries in 2005, including common property harvests, as reported by operators.

Area/Operator/Location	Species	Commercial	Sport Catch	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast									
DMTH	Deer Mountain					9		85	94
Southeast Totals		0	0	0	0	9	0	85	94
Cook Inlet									
ADF&G	Ship Creek Hatchery Complex								
	Arctic char		6,634						6,634
	Arctic grayling		3,054			163			3,217
	Landlocked salmon		28,619						28,619
	Rainbow trout		81,435			2,538			83,973
Cook Inlet Totals		0	119,742	0	0	2,701	0	0	122,443
Statewide Totals		0	119,742	0	0	2,710	0	85	122,537

Table 33.—Summary of salmon production in 2005 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 and Ocean Sciences	PINK	150,000
Juneau Douglas High School	COHO	2 spawning pairs
Petersburg High School	PINK	50,000
Whitecliff School (Ketchikan)	COHO	150
Hyder School	CHUM or COHO	500
Yakutat School	COHO	500
Southcentral		
Abbott Loop Elementary (Anchorage)	COHO	500
Alpenglow Elementary (Eagle River)	COHO	500
Aquarian Charter (Anchorage)	COHO	500
Bartlett High School	COHO	500
Baxter Elementary School (Anchorage)	COHO	500
Bayshore Elementary (Anchorage)	COHO	500
Bear Valley Elementary	COHO	500
Big Lake Elementary (Big Lake)	COHO	500
Bowman Elementary	COHO	500
Campbell Elementary	COHO	500
Central Middle School	COHO	500
Chinook Elementary	COHO	500
Chugach Optional	COHO	500
Chugiak Elementary	COHO	500
Clark Middle School (Anchorage)	COHO	500
Chapman School (Anchor Point)	COHO	500
College Gate Elementary (Anchorage)	COHO	500
Colony Middle School (Palmer)	COHO	500
Cook Inlet Academy (Soldotna)	COHO	500
Cottonwood Creek Elementary	COHO	500
Creekside Park Elementary	COHO	500
Denali Elementary (Anchorage)	COHO	500
Eagle River Academy Charter School	COHO	500
Eagle River Elementary	COHO	500
Fairview Elementary (Anchorage)	COHO	500
Finger Lake Elementary (Palmer)	COHO	500
Girdwood Junior High	COHO	500
Gladys Wood Elementary (Anchorage)	COHO	500
Glenallen Elementary	COHO	500
Goldenview Middle School	COHO	500
Goose Bay Elementary (Palmer)	COHO	500
Grace Christian	COHO	500
Gruening Middle School	COHO	500
Hanshaw Middle School	COHO	500
Herman Hutchens Elementary (Valdez)	COHO	500
Homer Flex High School (Homer)	COHO	500
Homer High School	COHO	500

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Table 33–Page 2 of 4.

Area/Permittee	Species	Maximum number to be released
Homestead Elementary (Eagle River)	COHO	500
Houston High School	COHO	500
Huffman Elementary (Anchorage)	COHO	500
Inlet View Elementary (Anchorage)	COHO	500
Kalifornsky Beach Elementary (Soldotna)	COHO	500
Kasuun Elementary (Anchorage)	COHO	500
Kenny Lake School (Kenny Lake)	COHO	500
Kincaid Elementary	COHO	500
King Career Center (Anchorage)	COHO	500
Klatt Elementary (Anchorage)	COHO	500
Lake Hood Elementary (Anchorage)	COHO	500
Lake Otis Elementary	COHO	500
Southcentral		
Mears Middle School	COHO	500
Mid Valley High School	COHO	500
Midnight Sun School (Wasilla)	COHO	500
Mirror Lake Middle School (Chugiak)	COHO	500
Mt. Spurr Elementary	COHO	500
Mt. View Elementary (Kenai)	COHO	500
Muldoon Elementary	COHO	500
Nikiski Elementary	COHO	500
Ninilchik School	COHO	500
North Star RTC	COHO	500
North Star School	COHO	500
Northern Lights ABC (Anchorage)	COHO	500
Nunaka Valley Elementary (Anchorage)	COHO	500
Ocean View Elementary (Anchorage)	COHO	500
O'Malley School (Anchorage)	COHO	500
Pacific Northern Academy	COHO	500
Pioneer Peak Elementary School (Palmer)	COHO	500
Ptarmigan Elementary	COHO	500
Rabbit Creek Elementary (Anchorage)	COHO	500
Ravenwood Elementary	COHO	500
Redoubt Elementary (Soldotna)	COHO	500
Russian Jack Elementary (Anchorage)	COHO	500
Rogers Park Elementary (Anchorage)	COHO	500
Sand Lake Elementary	COHO	500
SAVE High School (Anchorage)	COHO	500
Scenic Park Elementary (Anchorage)	COHO	500
Sears Elementary (Kenai)	COHO	500
Service High School	COHO	500
Sherrod Elementary (Palmer)	COHO	500
Skyview Elementary	COHO	500
Snowshoe Elementary	COHO	500
Soldotna Elementary	COHO	500
South High School	COHO	500
Spring Hill Elementary	COHO	500

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Table 33.–Page 3 of 4.

Area/Permittee	Species	Maximum number to be released
Susitna Elementary (Anchorage)	COHO	500
Susan B. English (Seldovia)	COHO	500
Susitna Valley High School	COHO	500
Sutton Elementary (Sutton)	COHO	500
Swanson Elementary (Palmer)	COHO	500
Taku Elementary (Anchorage)	COHO	500
Talkeetna Elementary	COHO	500
Tanaina Elementary (Wasilla)	COHO	500
Tatilek School	COHO	500
Teeland Middle School	COHO	500
Trailside Elementary School (Eagle River)	COHO	500
Tudor Elementary (Anchorage)	COHO	500
Turnagin Elementary (Anchorage)	COHO	500
Tustumena Elementary (Kasilof)	COHO	500
Ursa Minor Elementary	COHO	500
Village Charter School	COHO	500
Voznesenka School (Fritz Cove)	COHO	500
Wasilla High School	COHO	500
West Homer Elementary	COHO	500
Williwaw Elementary	COHO	500
Willow Crest Elementary (Anchorage)	COHO	500
Interior		
Arctic Light Elementary (Ft. Wainright)	COHO	500
Badger Road Elementary (Fairbanks)	COHO	500
Ben Eielson Jr.Sr. High School (Eielson AFB)	COHO	500
Chinook Charter School	COHO	500
Delta Junction Elementary	COHO	500
Hunter Elementary	COHO	500
Joy Elementary (Fairbanks)	COHO	500
Ladd Elementary	COHO	500
Nordale Elementary (Fairbanks)	COHO	500
Pearl Creek Elementary (Fairbanks)	COHO	500
Salcha Elementary	COHO	500
Tok School	COHO	500
Tri-Valley School (Healy)	COHO	500
Weller Elementary (Fairbanks)	COHO	500
Whitestone Training Center (Delta Junction)	COHO	500
Woodriver Elementary (Fairbanks)	COHO	500
Western		
Akhiok School (on two permits)	COHO	1000
Danger Bay School (on two permits)	COHO	1000
East Elementary School (Kodiak)	COHO	500
Karluk School (on two permits)	COHO	1000
Kodiak Christian School	COHO	500
Kodiak High School	COHO	500
Kodiak Learning Center	COHO	500

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Table 33.–Page 4 of 4.

Area/Permittee	Species	Maximum number to be released
Larsen Bay School (on two permits)	COHO	1000
Main Elementary (Kodiak)	COHO	500
North Star Elementary (Kodiak)	COHO	500
Old Harbor School (on two permits)	COHO	1000
Ouzinkie School (on two permits)	COHO	1000
Perryville School	COHO	500
Peterson Elementary School (Kodiak)	COHO	500
Port Lions School (on two permits)	COHO	1,000
St. Mary's School	COHO	500
Togiak School	COHO	500
Unalaska City School District	COHO	9,000
Arctic-Yukon-Kuskokwim		
Aleknagik School	COHO	500
Crow Village Sam School (Chuathbaluk)	COHO	500
Deering School	COHO	500
Dillingham School	COHO	500
DRKM School (Kongiganak)	COHO	500
Elicarviouar Elementary (St. Mary's)	COHO	500
Igiugig School	COHO	500
Jimmy Huntington School	CHUM	250
Marrelaine A. Kangas School	COHO	500
Mikeluguut Elitnaurviat Elementary (Bethel)	COHO	500
Napaaqtuamiut School (Noatak)	COHO	500
Nondalton School	COHO	500
Noorvik Elementary	COHO	500
Yukon Delta National Wildlife Refuge (Bethel)	COHO	1,000
Yupit School District	COHO	500

Table 34.—Updated pink salmon returns to Alaska hatcheries in 2004, including common property harvest, as reported by operators.

Area/Operator/Location	Common Property Harvest						Other	Brood	Cost Recovery Harvest	Escapement	Total
	Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence						
Southeast											
AKI	Port Armstrong	507,438					100,000	133,854	915,173	35,000	1,691,465
SJC	Sitka	41,400						2,726		47,874	92,000
Southeast Totals		548,838	0	0	0	0	100,000	136,580	915,173	82,874	1,783,465
Prince William Sound											
PWSAC	Armin F. Koernig	1,172,589						451,000	3,606,549		5,230,138
	Wally Noerenberg	95,547						267,716	2,341,464		2,704,727
	Cannery Creek	135,122						360,581	2,265,538		2,761,241
VFDA	Solomon Gulch	7,262,378					55,605	232,310	3,542,184	47,455	11,139,932
Prince William Sound Totals		8,665,636	0	0	0	0	55,605	1,311,607	11,755,735	47,455	21,836,038
Cook Inlet											
PGHC	Port Graham					5,000		99,376	1,283,863	30,000	1,418,239
CIAA	Tutka	776	747		1,500			17,846	1,175,326		1,196,195
Cook Inlet Totals		776	747	0	1,500	5,000	0	117,222	2,459,189	30,000	2,614,434
Kodiak											
KRAA	Kitoy Bay	2,052,846						297,522	1,909,575	70,000	4,329,943
Kodiak Totals		2,052,846	0	0	0	0	0	297,522	1,909,575	70,000	4,329,943
Statewide Totals		11,268,096	747	0	1,500	5,000	155,605	1,862,931	17,039,672	230,329	30,563,880

Table 35.—Updated chum salmon returns to Alaska hatcheries in 2004, including common property harvests, as reported by operators.

Area/Operator/Location	Common Property Harvest						Cost Recovery		Escapement	Total
	Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Harvest		
Southeast										
SSRAA Whitman Lake										
Nakat Inlet (summer)	68,300	66,600								134,900
Anita Bay (summer)	29,900	71,300								101,200
Earl West Cove (summer)	400	18,800								19,200
Kendrick Bay (summer)	30,500	4,000								34,500
Neets Bay (summer)	115,100	13,900	5,600			11,146	86,885	560,300		792,931
Neets Bay (fall)	16,600	22,700	21				40,800	205,800		285,921
Nakat Inlet (fall)	51,500	61,000								112,500
NSRAAMedvejie	1,023,757	421,070	145,858			23,469	34,366	510,700	2,000	2,161,220
Hidden Falls	1,156,394		89			11,881	118,543	628,031		1,914,938
Haines projects		3,850					2,874		3,252	9,976
DIPAC Macaulay (Gastineau)	30,470	74,815		1,600		89,538	95,379			291,802
Amalga	92,458	300,305						1,060,801		1,453,564
Limestone Inlet	8,405	51,524								59,929
Boat Harbor	67,242	318,000								385,242
KNFC Gunnuk Creek	21,383		500			6,190	40,500		8,018	76,591
Southeast Cove	197,361		500			4,000	73	592,488		794,422
SJC Sitka	21,716						1,107		20,609	43,432
MIC Tamgas Creek	7,500	15,000					3,534	1,041		27,075
Southeast Totals	2,938,986	1,442,864	152,568	1,600	0	146,224	424,061	3,559,161	33,879	8,699,343
Prince William Sound										
Wally Noerenberg	351,134	508,363		500			208,795	542,801		1,611,593
PWSAC Pt. Chalmers	342,968									342,968
Prince William Sound Totals	694,102	508,363		500	0	0	208,795	542,801	0	1,954,561
Kodiak										
KRAA Kitoi Bay	238,389						34,968	1,221	4,000	278,578
Kodiak Totals	238,389	0		0	0	0	34,968	1,221	4,000	278,578
Statewide Totals	3,871,477	1,951,277	152,568	2,100	0	146,224	667,824	4,103,183	37,879	10,932,482

Table 36.—Updated coho salmon returns to Alaska hatcheries in 2004, 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	100	1,400	8,400	500		378	1,922		12,700	
	Anita Bay		3,300	3,600	200					7,100	
	Nakat	700	2,600	8,200	600					12,100	
	Neets Bay	7,300	34,900	110,220	10,200	2,480	875	36,858		202,833	
	Burnett Inlet	1,300	1,600	300	100	635	3,381			7,316	
	Neck Lake	2,500	26,500	1,400	500		1,401	32,828		65,129	
	Crystal Lake Hatchery	300	500	2,100	200	1,620	180			4,900	
NSRAA	Medvejie	1		295	82	9	97		58	542	
	Deer Lake	1,292		16,334	500	1,061		15,759		34,946	
	Shamrock Cove			9,564	1,042	500				11,106	
	Hidden Falls	36,352	1,182	64,527	5,186	8,427	4,486	90,923	750	211,833	
AKI	Port Armstrong			15,106		1,642	1,003	16,473	500	34,724	
KNFC	Gunnuk Creek	12	133	65		210				420	
DIPAC	Macaulay (Gastineau)	2,638	3,473	18,130	6,785	6,722	831	32,374		70,953	
KTHC	Deer Mountain	1,901	2,339	740	656	620	874		400	7,530	
SJC	Sitka			450			15		535	1,000	
POWHA	Klawock Hatchery	8,252		12,021	2,691	11,200	1,065	11,007	4,040	50,276	
MIC	Tamgas Creek	1,905	25,000	33,874	766	500	1,352	23,800		87,197	
Southeast Totals		64,553	102,927	305,326	30,008	500	35,504	17,482	260,080	6,225	822,605
Prince William Sound											
PWSAC	Wally Noerenberg		9,333		500		150		637	10,620	
	Cordova/Whittier/Chenega				4,043					4,043	
VFDA	Solomon Gulch	24,485			105,000	2,872	1,939	9,897		144,193	
Prince William Sound Totals		24,485	9,333		109,543	0	3,022	1,939	10,534	158,856	
Cook Inlet											
CIAA	Trail Lakes				6,146			838	1,224	572	8,780
ADF&G	Ship Creek Complex		4,149		6,110			490		1,275	12,024
	Homer Spit				21,009						21,009
	Resurrection Bay				31,100			134			31,234
	Campbell Creek		1,132		861			24		581	2,598
	Eklutna tailrace		1,126		5,084			92			6,302
Cook Inlet Totals		0	6,407		70,310	0	0	1,578	1,224	2,428	81,947
Kodiak											
KRAA	Kitoi Bay	128,269			100				9,867		138,236
	Pillar Creek- road system				1,600						1,600
Kodiak Totals		128,269	0		1,700	0	0	0	9,867	0	139,836
Statewide Totals		217,307	118,667	305,326	211,561	500	38,526	20,999	281,705	8,653	1,203,244

Table 37.—Updated Chinook salmon returns to Alaska hatcheries in 2004, including common property harvests, as reported by operators.

Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/		Cost Recovery		Escapement	Total
						Subsistence	Other	Brood	Harvest		
Southeast											
SSRAA	Whitman Lake	300	520	6,630	2,260		10,556	862	3,212	170	24,510
	Long Lake	104	4	311					837		1,256
ADF&G	Crystal Lake Hatchery		210	1,470	5,110			1,890			8,680
	Anita Bay	240	2,650	1,030	570						4,490
	Neets Bay	1,630	540	3,120	670				7,740		13,700
NSRAA	Medvejie Creek	1,638	3,048	15,712	2,482		3,075	2,103	37,519		65,577
	Hidden Falls	6,150	500	5,114	971		2,424	854	12,986	200	29,199
DIPAC	Gastineau	350	549	1,080	4,792		2,249	2,088			11,108
	Skagway Site	19	14	29	329			58			449
KTHC	Deer Mountain Hatchery	22	33	258	518		64	42		135	1,072
SJC	Sitka			145						176	321
MIC	Tamgas Creek	2,072	695	1,797	513	100		176	3,504		8,857
NMFS	Little Port Walter	79	137	717	42		188	2,000			3,163
Southeast Totals		12,604	8,900	37,413	18,257	100	18,556	10,073	65,798	681	172,382
Prince William Sound											
ADF&G	Ship Creek Complex				1,798						1,798
Prince William Sound Totals		0	0		1,798	0	0	0	0	0	1,798
Cook Inlet											
ADF&G	Ship Creek Complex										
	Resurrection Bay				3,105						3,105
	Kachemak Bay		1,125		4,068						5,193
	Ship Creek				2,790			310		1,675	4,775
	Crooked Creek				1,532			152		2,160	3,844
	Ninilchik River				620			378		469	1,467
	Eklutna Tailrace				23						23
	Deception Creek				1,006			63		310	1,379
Cook Inlet Totals		0	1,125		13,144	0	0	903	0	4,614	19,786
Kodiak											
KRAA	Pillar Creek										
	Monashka Creek				19					194	213
Kodiak Totals		0	0		19	0	0	0	0	194	213
Statewide Totals		12,604	10,025	37,413	32,218	100	18,556	10,976	65,798	5,489	194,179

Table 38.—Updated Sockeye salmon returns to Alaska hatcheries in 2004, including common property harvests, as reported by operators.

Area/Operator/Location	Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast										
SSRAA Neck Lake	1,000	2,900	2,100	76			299			6,375
POWHA Klawock Hatchery						721	1,069		10,584	12,374
DIPAC Snettisham	96,861	190,792				6,600	6,338	215,188		515,779
Sweetheart Lake	5,929	5,445			3,200					14,574
Stikine River		42,941								42,941
Taku River		676								676
NSRAA Haines projects		8				10				18
MIC Tamgas Creek	250	500			1,714		363	835		3,662
Southeast Totals	104,040	243,262	2,100	76	4,914	7,331	8,069	216,023	10,584	596,399
Prince William Sound										
PWSAC Main Bay		355,821		1,200			17,578	279,139		653,738
Gulkana I and II										
Paxson Lake		38,581		433	16,305		4,467		425	60,211
Crosswind Lake		14,685		165	5,966		1,696			22,512
Summit Lake		6,275		71	2,541				30	8,917
Prince William Sound Totals	0	415,362		1,869	24,812	0	23,741	279,139	455	745,378
Cook Inlet										
PGHC Port Graham		2,569			4,000		1,390		15,352	23,311
CIAA Trail Lakes – Bear Creek	16,645						3,862		8,061	28,568
Hidden Lake		30,433		2,987	2,674		4,223	957	13,949	55,223
Meadow Creek	19,660			1,179	1,179		1,692		18,107	41,817
Leisure/Hazel Lakes	21,724			650	4,900	448		12,888		40,610
Tustumena Lake		1,021,228		11,000	70,000				574,831	1,677,059
Kirschner Lake						700		16,098		16,798
Cook Inlet Totals	58,029	1,054,230		15,816	82,753	1,148	11,167	29,943	630,300	1,883,386
Kodiak										
KRAA Kitoi Bay	38,151			50						38,201
Pillar Creek										
Settler's Cove					927					927
Malina Lake	2,391				369		2,450		17,550	22,760
Perenosa/Paul's Lakes	4,987				758		29,289			35,034
Spiridon Lake	132,770	53,247								186,017
Ruth Lake	1,181									1,181
Foul Bay	19,729									19,729
Waterfall Bay	24,875									24,875
Kodiak Totals	224,084	53,247		50	2,054	0	31,739	0	17,550	328,724
Statewide Totals	386,153	1,766,101	2,100	17,811	114,533	8,479	74,716	525,105	658,889	3,553,887

Table 39.—Updated “other” enhanced fish returns to Alaska hatcheries in 2004, as reported by operators.

		Species	Commercial	Sport Catch	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast										
DMTH	Deer Mountain	Steelhead					9		53	62
Southeast Totals			0	0	0	0	9	0	53	62
Cook Inlet										
ADF&G	Ship Creek Complex	Arctic char		9,047			112			9,159
	Statewide lakes	Arctic grayling		516			150			666
		Lake trout		816						816
		Rainbow trout		70,183			1,993			72,176
		Landlocked Salmon		24,788						24,788
Cook Inlet Totals			0	105,350	0	0	2,255	0	0	107,605
Statewide Totals			0	105,350	0	0	2,264	0	53	107,667

Table 40.—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) 225-2635 (907) 247-8790 (907) 874-2525 (907) 772-4772	(907) 225-1348	Whitman Lake Neets Bay Burnett Inlet Crystal Lake*	Jay Creasy Mike Anderson Ron Parsely Loren Thompson	John Burke	whitman@kpnet.net neetsbay@starband.net burnettinlet@starband.net crystal.lake@starband.net
R NSRAA	1308 Sawmill Cr. Rd	Sitka, AK 99835	(907) 747-6850	(907) 747-1470	Medvejie Creek Hidden Falls* Haines Projects	Lon Garrison Scott Wagner Todd Buxton	Pete Esquiro Pete Esquiro	pete_esquiro@nsraa.org lon_garrison@nsraa.org scott_wagner@nsraa.org todd_buxton@nsraa.org
P DIPAC	2697 Channel Dr.	Juneau, AK 99801	(907) 463-5114 (907) 463-5114 (907) 463-5115	(907) 463-3213 (907) 463-3213	Macaulay Snettisham*	Steve Schick Kevin Steck	Eric Prestegard	Eric_prestegard@dipac.net steve_schick@dipac.net kevin_steck@dipac.net
P POWHA	PO Box 554	Craig, AK 99921	(907) 755-2231	(907) 755-2440	Prince of Wales*	John Bruns	John Bruns	powha@aptalaska.net
P SJC	801 Lincoln St	Sitka, AK 99835	(907) 747-5254	(907) 747-2987	Sheldon Jackson	Dan Goodness		dgoodness@sj-alaska.edu
P KNFC	P.O. Box 523	Take, AK 99830	(907) 785-6460	(907) 785-6475	Gunnuk Creek	John Oliva		gunnukcreek@starband.net
P BCF	P.O. Box 455	Skagway, AK 99840	(907) 983-2355		Burro Creek	Eugene Richards	Gene Richards	burrocreek@aptalaska.net
P AKI	P.O. Box 21990	Juneau, AK 99802	(907) 586-3443 (907) 586-2228 (907) 586-2228	(907) 586-2236 (907) 586-2228	Port Armstrong Deer Mountain	Ben Contag Jerry Guthrie	Sam Rabung	aki@ak.net portarmstrong@starband.net jguthrie@kictribe.com
F NMFS	P.O. Box 21990	Juneau, AK 99802	(907)789-6055	(907)789-6094	Little Port Walter	Frank Thrower		Frank.Thrower@noaa.gov
F MIC	PO Box 8	Metlakatla, AK 99929	(907)886-3150	(907)886-3152	Tamgas Creek	Steve Leask		stevel@aptalaska.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*	Craig Perry Bill Lyden Rob Unger Gary Martinek Neil Wright	Dave Reggiani	dave.pwsac@ak.net afk.pwsac@ak.net wnh.pwsac@ak.net mbh.pwsac@ak.net gkh.pwsac@ak.net cch.pwsac@ak.net
P VFDA	PO Box 125	Valdez, AK 99686	(907) 835-4874	(907) 835-5951	Solomon Gulch	Ken Morgan	Jason Wells	vfda@cvinternet.net vfda@cvinternet.net
Cook Inlet								
R CIAA	40610 Kalifornsky Beach Rd	Kenai, AK 99611	(907) 283-5761	(907) 283-9433	Trail Lakes* Tutka*	Robert Blankenship	Gary Fandrei	ciaa@ptialaska.net rblankenship_tlh@ciaanet.org
P PGH	PO Box 5543	Port Graham, AK 99603	(907)284-2233	(907)284-2238	Port Graham	Ephim Ananonak		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		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) 486-4730 (907) 486-6559	(907) 486-4105	Pillar Creek* Kitoi Bay*	Gary Bryne Andrew Aro	Kevin Brennan	kraa@gci.net pch@gci.net kitoi@starband.net

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Initials	Corporate name	Hatchery	Permit #	PNP permit issued	Species reared	Web Site
Southeast						
SSRAA	Southern Southeast Regional Aquaculture Assoc.	Whitman Lake	8	3/9/78	chum, coho, Chinook	www.ssraa.org
		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 Assoc.	Medvejie Creek	16	8/17/81	chum, coho, Chinook, pink	www.nsraa.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.pwsac@ak.net
		W Noerenberg	20	6/17/83	pink, chum, Chinook, coho	
		Main Bay*			sockeye	
		Gulkana*			sockeye	
		Cannery Creek*	26	6/22/88	pink	
VFDA	Valdez Fisheries Development Association	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
		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 ^a			Chinook, coho, char, grayling, lake & rainbow trout	www.state.ak.us/adfg/adfghome.htm
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: 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 sector.

^a Elmendorf and Fort Richardson hatcheries.

Table 41.—Permitted capacity of Alaskan private nonprofit hatcheries in 2005, in millions of eggs.

Region/Operator/Location		Combined Pink						Total	
		Pink	Chum	& Chum	Coho	Chinook	Sockeye		Other
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	3.50		111.60	
	Medvejie Creek	0.30	55.00		3.30	5.20		63.80	
	Haines projects		2.60				2.00	4.60	
AKI	Port Armstrong	85.00	30.00		3.00	2.00		120.00	
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	
POWHA	Klawock				5.00	0.25	5.00	10.30	
SJC	Sheldon Jackson	1.00	10.00		0.15	0.10	0.02	11.27	
Southeast Totals^b		146.30	447.90	68.00	31.85	17.80	43.20	0.13	755.17
Prince William Sound									
PWSAC	Armin F. Koernig	190.00						190.00	
	Wally Noerenberg	93.00	165.00		4.00	4.00		266.00	
	Cannery Creek	152.00						152.00	
	Main Bay						11.00	11.00	
	Gulkana						36.75	36.75	
VFDA	Solomon Gulch	230.00			2.00	0.30		232.30	
Prince William Sound Totals^b		665.00	165.00	0	6.00	4.30	47.75	0	888.05
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	0	6.16	4.00	51.81	0	296.97
Kodiak									
KRAA	Kitoi Bay	215.00	25.00		2.30		0.60	242.90	
	Pillar Creek				0.50	0.30	20.00	20.80	
Kodiak Totals^b		215.00	25.00	0	2.80	0.30	20.60	0	263.70
Statewide Totals^b		1,261.30	637.90	68.00	46.81	26.40	163.36	0.13	2,203.89

^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.