

Alaska Salmon Fisheries Enhancement Program 2010 Annual Report

by

Bruce White

February 2011

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the Système International d'Unités (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

Weights and measures (metric)		General		Mathematics, statistics		
centimeter	cm	Alaska Administrative Code	AAC	all standard mathematical signs, symbols and abbreviations		
deciliter	dL	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	alternate hypothesis	H _A	
gram	g	all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.	base of natural logarithm	e	
hectare	ha			catch per unit effort	CPUE	
kilogram	kg			coefficient of variation	CV	
kilometer	km	at	@	common test statistics	(F, t, χ^2 , etc.)	
liter	L			confidence interval	CI	
meter	m			correlation coefficient (multiple)	R	
milliliter	mL	compass directions:		correlation coefficient (simple)	r	
millimeter	mm	east	E	covariance	cov	
Weights and measures (English)		north	N	degree (angular)	°	
	cubic feet per second	ft ³ /s	south	S	degrees of freedom	df
	foot	ft	west	W	expected value	E
	gallon	gal	copyright	©	greater than	>
	inch	in	corporate suffixes:		greater than or equal to	≥
	mile	mi	Company	Co.	harvest per unit effort	HPUE
	nautical mile	nmi	Corporation	Corp.	less than	<
	ounce	oz	Incorporated	Inc.	less than or equal to	≤
	pound	lb	Limited	Ltd.	logarithm (natural)	ln
	quart	qt	District of Columbia	D.C.	logarithm (base 10)	log
yard	yd	et alii (and others)	et al.	logarithm (specify base)	log ₂ , etc.	
Time and temperature		et cetera (and so forth)	etc.	minute (angular)	'	
		exempli gratia		not significant	NS	
	day	d	(for example)	e.g.	null hypothesis	H ₀
	degrees Celsius	°C	Federal Information Code	FIC	percent	%
	degrees Fahrenheit	°F	id est (that is)	i.e.	probability	P
	degrees kelvin	K	latitude or longitude	lat. or long.	probability of a type I error (rejection of the null hypothesis when true)	α
	hour	h	monetary symbols		probability of a type II error (acceptance of the null hypothesis when false)	β
	minute	min	(U.S.)	\$, ¢	second (angular)	"
	second	s	months (tables and figures): first three letters	Jan.,...,Dec	standard deviation	SD
	Physics and chemistry		registered trademark	®	standard error	SE
all atomic symbols			trademark	™	variance	
alternating current		AC	United States		population	Var
ampere		A	(adjective)	U.S.	sample	var
calorie		cal	United States of America (noun)	USA		
direct current		DC	U.S.C.	United States Code		
hertz		Hz	U.S. state	use two-letter abbreviations (e.g., AK, WA)		
horsepower		hp				
hydrogen ion activity (negative log of)		pH				
parts per million		ppm				
parts per thousand	ppt, ‰					
volts	V					
watts	W					

FISHERY MANAGEMENT REPORT NO. 11-04

**ALASKA SALMON FISHERIES ENHANCEMENT PROGRAM
2010 ANNUAL REPORT**

by

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February 2011

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ABSTRACT

The Alaska Department of Fish and Game oversees and regulates all state and private sector salmon fisheries enhancement and rehabilitation 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 hatchery, transfer eggs or fish, or release any fish into Alaska waters. Pathology, genetic, coded wire tag, and otolith processing laboratories are maintained to provide information to both Alaska Department of Fish and Game fishery managers, and inseason and technical expertise to the private sector.

In 2010, hatchery operators collected over 1.8 billion eggs and released over 1.5 billion juvenile fish. A record 91 million enhanced salmon returned with the majority (69 million) being pink salmon produced by hatcheries in Prince William Sound. The preliminary total statewide commercial salmon harvest was 169 million fish and an estimated 158 million salmon were harvested in the common property commercial fishery. About 11 million salmon were harvested in hatchery cost recovery fisheries. Approximately 77 million fish, or 49% of the commercial harvest, were produced by the Alaska salmon enhancement program. Hatchery-produced salmon provided an estimated \$168 million, or 34%, of the exvessel value of the statewide common property commercial harvest. The ocean ranching program employs hundreds of Alaskans in seasonal and full-time jobs.

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 regions in the state with the greatest amount of salmon enhancement activity and pink and chum salmon are the predominant species produced. The Cook Inlet and Kodiak regions also have enhancement programs. Production levels, in terms of egg takes and releases, have remained stable (Figure 1). Enhancement programs have matured and are operating at or near planned capacities.

The Alaska salmon enhancement program includes the following:

- 20 private nonprofit corporation (PNP) owned and operated hatcheries.
- 11 state owned hatcheries contracted to PNP operators.
- 3 federal or Bureau of Indian Affairs hatcheries.
- 2 state owned and operated hatcheries.
- Streamside incubation projects.

The PNP hatchery corporations produce salmon primarily for commercial harvest and recoup operational costs from a special harvest of returning adult fish, called a cost recovery harvest. All returning adult fish are available for harvest in Alaska's common property fisheries open to the public (sport, personal use, commercial, and subsistence). The Alaska Department of Fish and Game (ADF&G) Division of Sport Fish operates 2 hatcheries that primarily produce salmonid species intended for both salt and freshwater recreational fisheries at many locations along the coast and in numerous interior lakes. Federal hatcheries, in general, are lower production facilities that focus on research. Streamside incubation projects enhance stocks of fish inexpensively. Alaska hatchery production data is provided in Tables 1–39.

HIGHLIGHTS IN 2010

- The Alaska salmon fisheries enhancement program produced a record return estimated at 91 million fish (Figure 2) in 2010. The majority of the return (69 million) resulted from a record

pink salmon return produced by hatcheries in Prince William Sound. The next largest return was 8 million chum salmon produced by hatcheries in Southeast Alaska. The total production capacity for PNP hatchery programs increased in 2010 by about 80 million and now totals 2.28 billion green salmon eggs.

- The preliminary total statewide commercial salmon harvest was 169 million fish, with an estimated exvessel value of \$534 million. An estimated 77 million enhanced salmon were harvested in the common property commercial fishery with a preliminary exvessel value of \$168 million. An additional 14 million enhanced salmon were either harvested by hatchery operators for cost recovery, harvested in the personal use/sport/subsistence fisheries, or used for broodstock. Compared to 2009, the exvessel prices increased for all salmon species.
- Statewide, hatchery-produced salmon accounted for approximately 34% of the total exvessel value of the common property commercial harvest. By species, enhanced salmon accounted for 67% of the pink, 67% of the chum, 22% of the coho, 18% of the Chinook, and 9% of sockeye exvessel value.
- Pink and chum salmon dominated the returns of the five species of salmon produced (Figure 3). The enhancement program accounted for 67% of the pink, 57% of the chum, 21% of the coho, 15% of the Chinook, and 5% of the sockeye salmon in the statewide common property commercial harvest.
- Statewide, sport anglers harvested an estimated 270,125 hatchery-produced fish representing eight species (Chinook, coho, pink, chum, and sockeye salmon; rainbow trout, arctic char, and arctic grayling).
- In 2011, over 60 million fish are projected to return from Alaska hatchery releases.

The following is a summary by region. Hatchery locations within each region are shown in Figure 4.

Prince William Sound: A record number of pink salmon (69 million) returned from hatchery releases in the Sound. Hatchery production accounted for an estimated 98% of the total number of salmon in the common property commercial harvest; 99% of the chum, 98% of the pink, 78% of the sockeye, and 5% of the coho salmon in the common property commercial harvest were hatchery-produced. In addition, enhanced salmon contributed an estimated \$123 million, or 92%, of the exvessel value of the common property commercial harvest.

Southeast: Hatcheries in the enhancement program produced 18% of the total number of salmon in the common property commercial harvest; 72% of the chum, 28% of the coho, 22% of the Chinook, 8% of the sockeye, and 2% of the pink salmon in the common property commercial harvest were hatchery-produced. Additionally, enhanced salmon contributed an estimated \$38 million, or 35%, of the exvessel value of salmon in the common property commercial harvest.

Kodiak: Hatcheries in the enhancement program accounted for 27% of the total number of salmon in the common property commercial harvest; 43% of the coho, 28% of the pink, 26% of the chum, and 21% of the sockeye salmon in the common property commercial harvest were hatchery produced. Additionally, enhanced salmon contributed an estimated \$7 million, or 25%, of the value of salmon in the common property commercial harvest.

Cook Inlet: The enhancement program accounted for approximately 3% of the sockeye salmon in the common property commercial harvest and contributed an estimated \$844,000, or 2%, of the value of salmon in the common property commercial harvest.

FIGURES AND TABLES

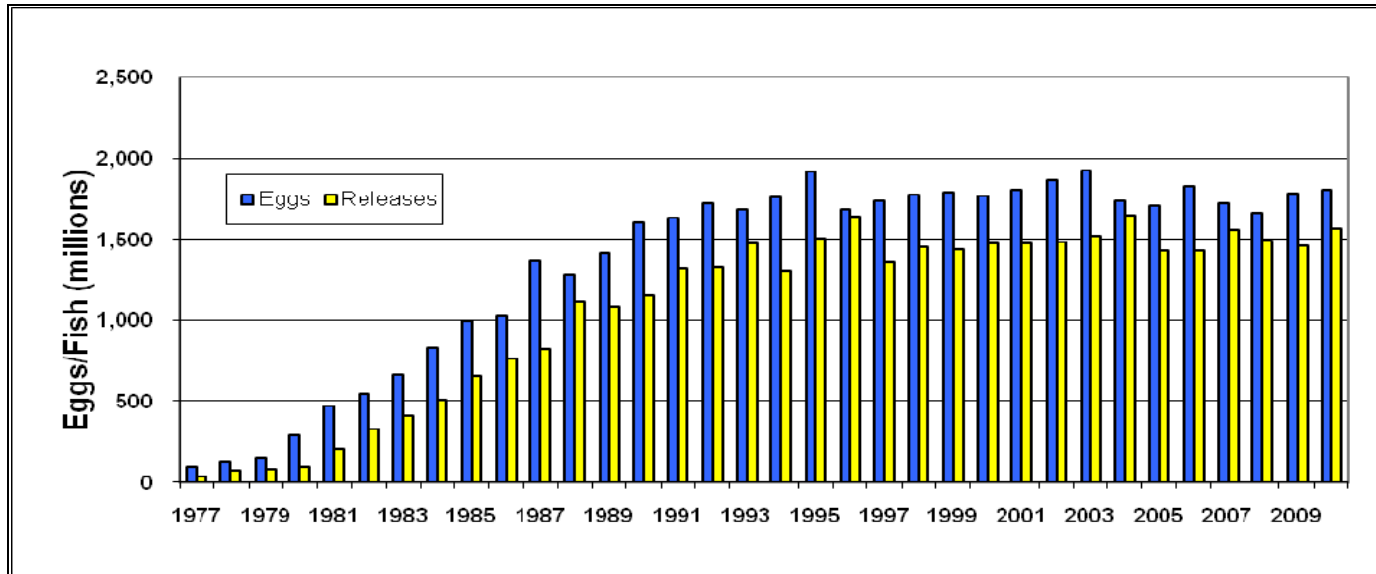


Figure 1.—Total egg takes and releases in the Alaska salmon hatchery program, 1977 to 2010.

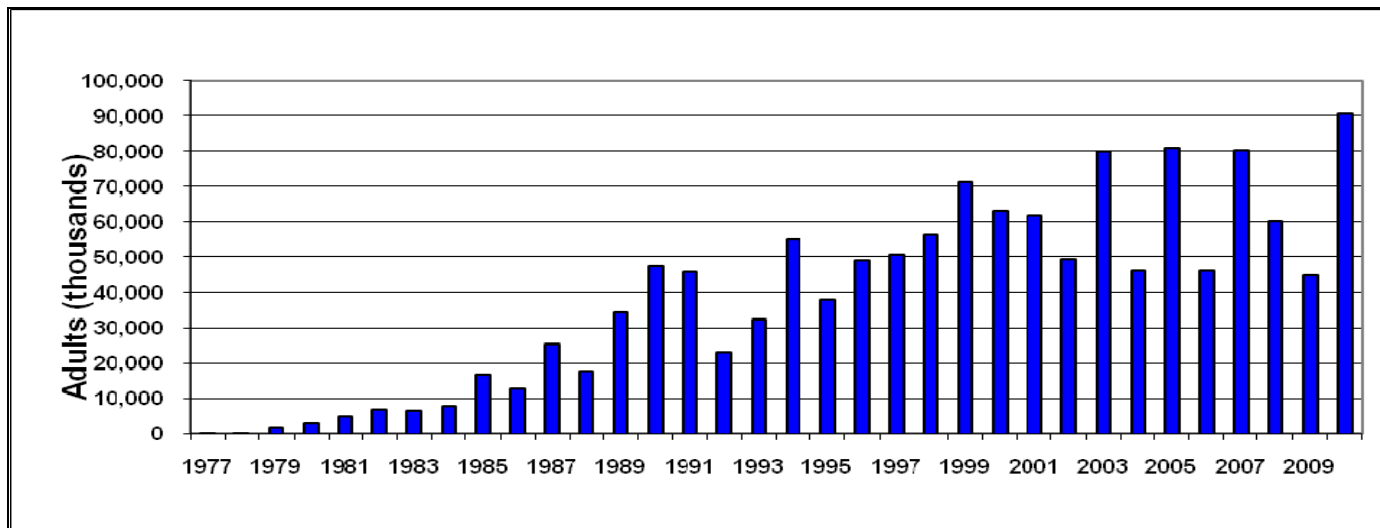


Figure 2.—Total returns in the Alaska salmon hatchery program, 1977 to 2010.

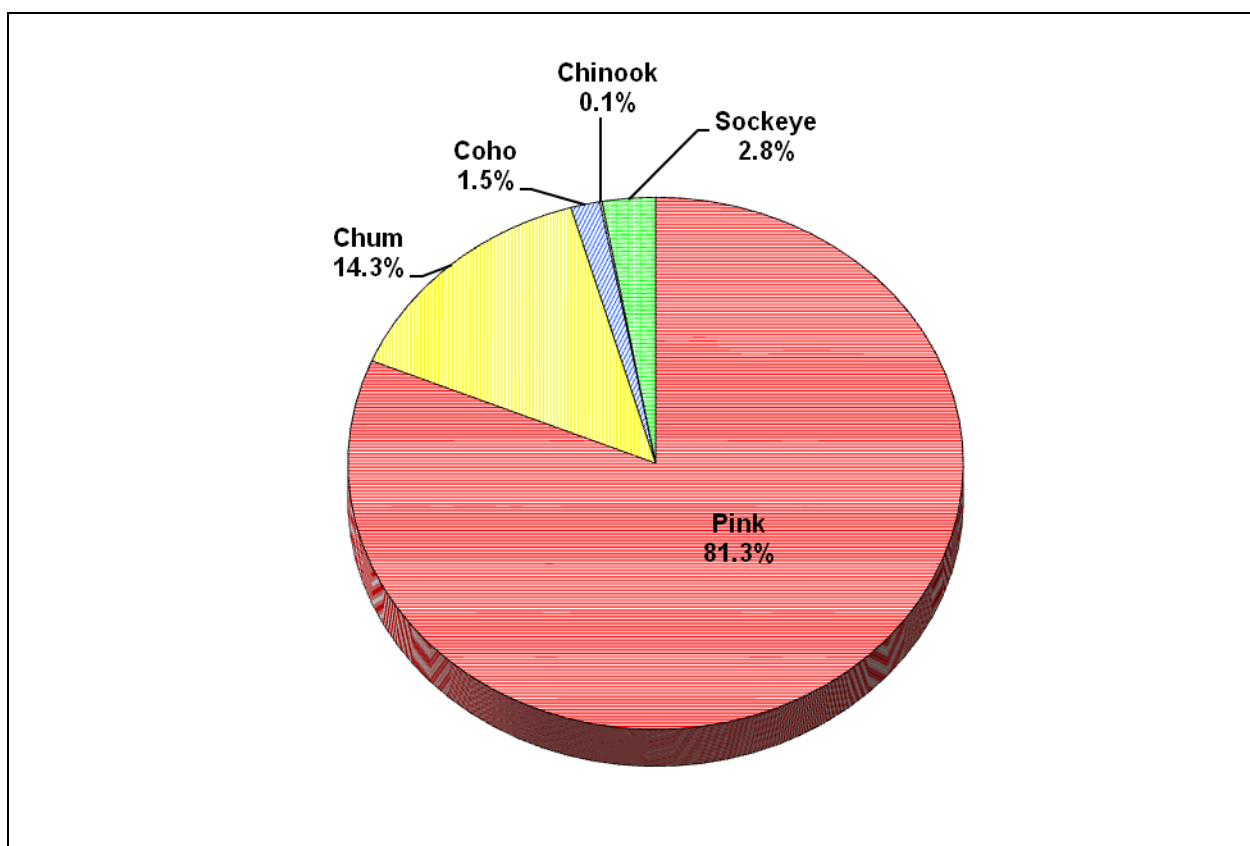


Figure 3.—Alaska salmon hatchery returns by species in 2010.

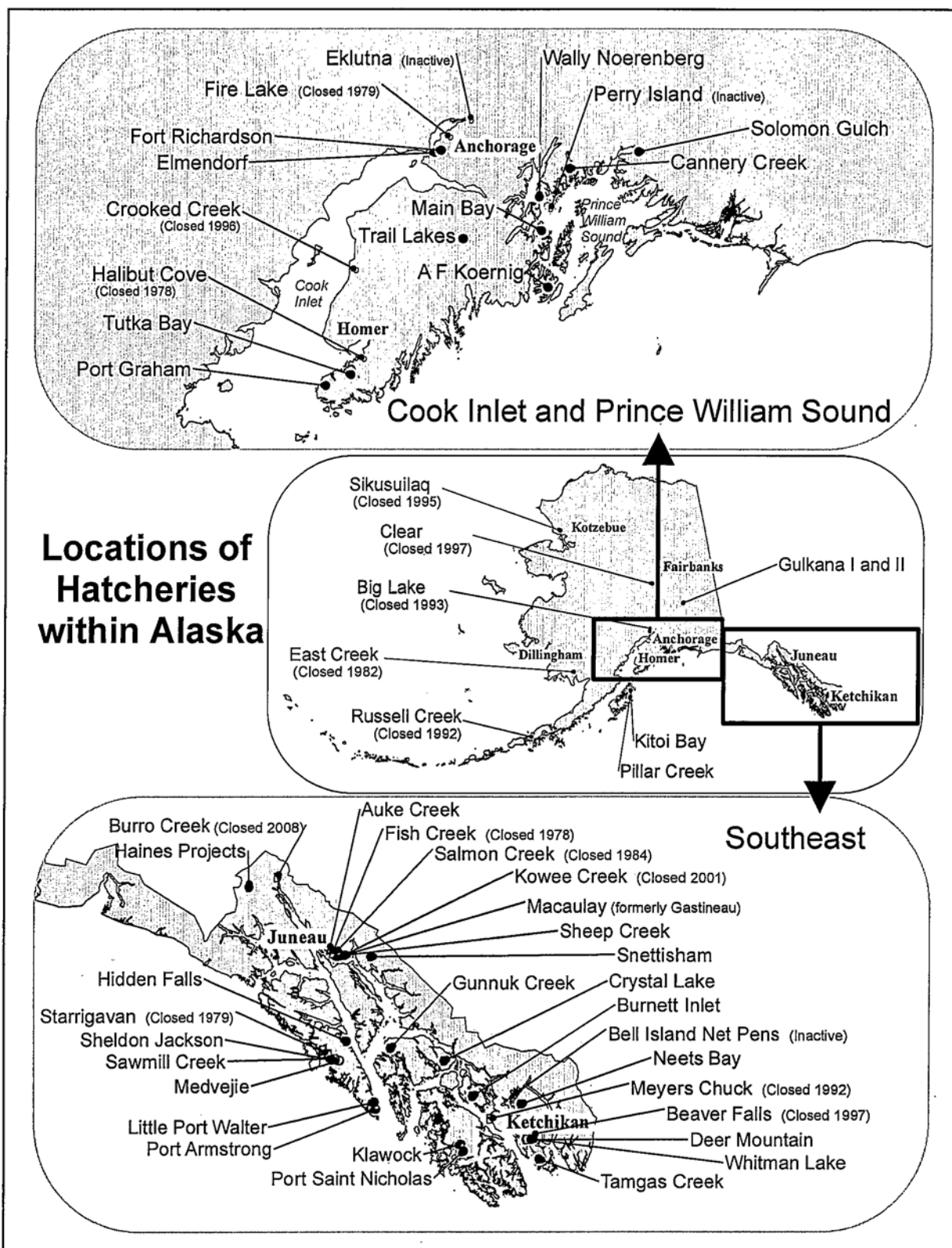


Figure 4.—Locations of hatcheries in Alaska.

Table 1.–List of hatchery acronyms used in this report.

Acronym	Organization
AKI	Armstrong-Keta, Inc.
CIAA	Cook Inlet Aquaculture Association
DIPAC	Douglas Island Pink and Chum, Inc.
KNFC	Kake Nonprofit Fisheries Corporation
KTHC	Ketchikan Tribal Hatchery Corporation
KRAA	Kodiak Regional Aquaculture Association
NMFS	National Marine Fisheries Service
MIC	Metlakatla Indian Community
NSRAA	Northern Southeast Regional Aquaculture Association
PGHC	Port Graham Hatchery Corporation
POWHA	Prince of Wales Hatchery Association
PWSAC	Prince William Sound Aquaculture Corporation
SSRAA	Southern Southeast Regional Aquaculture Association
VFDA	Valdez Fisheries Development Association

Table 2.—Estimated egg takes from Alaska hatcheries, by region, in millions, 2010.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	106.73	506.22	27.23	12.94	19.75	0.07	672.93
Prince William Sound	698.16	165.00	2.98	0.05	43.95		910.14
Cook Inlet			2.07	0.15	11.10	2.53	15.85
Kodiak/Alaska Peninsula	174.43	27.91	2.52	0.17	5.33	0.09	210.45
Totals ^a	979.32	699.13	34.81	13.31	80.13	2.68	1,809.37

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

Table 3.—Estimated releases from Alaska hatcheries, by region, in millions, 2010.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	63.93	458.42	19.88	8.93	13.20		564.37
Prince William Sound	647.08	130.20	5.41		30.17		812.86
Cook Inlet			1.77	2.01	8.62	1.65	14.04
Kodiak/Alaska Peninsula	144.43	20.77	1.58	0.24	4.08	0.06	171.16
Totals ^a	855.45	609.39	28.64	11.18	56.07	1.71	1,562.44

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

Table 4.—Total returns attributed to Alaska hatcheries and enhancement projects (including common property, cost recovery, broodstock, and escapement), by region, 2010.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	1,391,159	8,465,307	1,094,794	98,176	100,825		11,150,261
Prince William Sound	68,891,680	4,254,078	133,643	2,450	1,811,664		75,093,515
Cook Inlet			42,175	6,032	304,998	49,626	402,831
Kodiak/Alaska Peninsula	3,566,653	235,542	123,741	1,000	324,134		4,251,070
Totals ^a	73,849,492	12,954,927	1,394,353	107,658	2,541,621	49,626	90,897,677

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

Table 5.—Alaska common property commercial harvest of enhanced fish, by region, in thousands, 2010.

Area	Harvest ^a	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Total Commercial Harvest	249	717	2,507	24,195	9,443	37,111
	Total Cost Recovery Harvest	24	38	360	700	2,884	4,005
	Common Property Harvest	225	679	2,147	23,495	6,559	33,106
	Enhanced Fish Harvested	50	54	603	499	4,710	5,917
	% Enhanced in Total CP Harvest ^b	22.1%	8.0%	28.1%	2.1%	71.8%	17.9%
Prince William Sound	Total Commercial Harvest	10	1,930	333	69,083	4,087	75,443
	Total Cost Recovery Harvest			44	4,688	594	5,326
	Common Property Harvest	10	1,930	289	64,395	3,493	70,117
	Enhanced Fish Harvested		1,511	14	63,360	3,475	68,359
	% Enhanced in Total CP Harvest ^b		78.3%	4.8%	98.4%	99.5%	97.5%
Cook Inlet	Total Commercial Harvest	10	2,921	210	571	323	4,035
	Total Cost Recovery Harvest		70				70
	Common Property Harvest	10	2,851	210	571	323	3,965
	Enhanced Fish Harvested		79				79
	% Enhanced in Total CP Harvest ^b		2.8%				2.0%
Kodiak	Total Commercial Harvest	15	1,437	266	8,842	735	11,295
	Total Cost Recovery Harvest		15		1,066	2	1,083
	Common Property Harvest	15	1,422	266	7,776	733	10,212
	Enhanced Fish Harvested		296	113	2,173	189	2,771
	% Enhanced in Total CP Harvest ^b		20.8%	42.6%	27.9%	25.8%	27.1%
Chignik/Aleutian Islands/Alaska Peninsula	Total Commercial Harvest	21	4,877	386	1,357	1,635	8,276
	Enhanced Fish Harvested						
	% Enhanced in Total CP Harvest ^b						
Bristol Bay	Total Commercial Harvest	31	28,595	104	1,340	1,091	31,161
	Enhanced Fish Harvested						
	% Enhanced in Total CP Harvest ^b						
Arctic-Yukon-Kuskokwim	Total Commercial Harvest	29	202	143	32	850	1,256
	Enhanced Fish Harvested						
	% Enhanced in Total CP Harvest ^b						
Total ^c	Total Commercial Harvest	365	40,679	3,949	105,420	18,164	168,577
	Total Cost Recovery Harvest	24	122	404	6,453	3,480	10,483
	Common Property Harvest	341	40,557	3,545	98,967	14,684	158,094
	Enhanced Fish Harvested	50	1,939	731	66,032	8,374	77,126
	% Enhanced in Total CP Harvest ^b	14.6%	4.8%	20.6%	66.7%	57.0%	48.8%

^a Total commercial harvest by all commercial gear types, including fish harvested for cost recovery.

^b CP = common property.

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

Table 6.—Estimated value of the total Alaska common property commercial harvest (preliminary), by region, in thousands of dollars, 2010.

Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	\$14,608	\$6,912	\$22,246	\$31,059	\$56,415	\$131,240
Prince William Sound	\$1,025	\$23,652	\$3,447	\$92,097	\$22,862	\$143,082
Cook Inlet	\$361	\$31,365	\$1,109	\$643	\$1,475	\$34,953
Kodiak	\$119	\$10,617	\$1,357	\$13,032	\$2,782	\$27,908
Chignik/Aleutian Islands/Alaska Peninsula	\$313	\$29,516	\$1,324	\$1,291	\$4,606	\$37,049
Bristol Bay	\$449	\$148,703	\$497	\$1,578	\$1,888	\$153,115
Arctic-Yukon-Kuskokwim	\$1,034	\$1,551	\$1,261	\$28	\$2,649	\$6,525
Totals ^a	\$17,909	\$252,316	\$31,242	\$139,728	\$92,676	\$533,872

^a Data from the Alaska Department of Fish and Game website: <http://www.cf.adfg.state.ak.us/geninfo/finfish/salmon/catchval/blusheet/10exvesl.php>
Preliminary figures may not total exactly due to rounding.

Table 7.—Salmon enhancement program timeline of events.

Year	Event	No. of state operated hatcheries	No. private nonprofit (PNP) owned or operated 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 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 [Perry Island (#1), Port San Juan (#2), Sheldon Jackson (#3), 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 [Salmon Creek (#9), Meyers Chuck (#10), Sheep Creek (#11)]		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/Bureau of Indian Affairs)			3
1981	1 state hatchery closed (East Creek)	17		

-continued-

Table 7.–Page 2 of 3.

Year	Event	No. of state operated hatcheries	No. private nonprofit (PNP) owned or operated hatcheries	No. of federal hatcheries
	2 state hatcheries constructed (Sikusuilaq and Trail Lakes)	19		
	1 PNP hatchery closed & reopened under new management [Salmon Creek #9, now #14]		12	
	3 PNP permits issued [Port Armstrong (#13), Solomon Gulch (#15), Medvejie (#16)]		15	
1982	2 PNP permits issued [Eklutna (#17) and Favorite Bay (#18)]		17	
1983	3 PNP permits issued [Neets Bay (#19), Esther (#20), Crittenden Creek (#22)]		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) jointly operated ADF&G/SSRAA]	20	22	
1987	1 PNP permit issued to Gastineau [renamed Macaulay (#25)]		23	
1988	Aquatic Farm Act signed; statute passes allowing contracting of hatchery operations			
	4 state hatcheries contracted to private sector (Cannery Creek, Trail Lakes, Hidden Falls, Kitoi Bay)	16		
	4 PNP permits issued [Cannery Creek (#26), Trail Lakes (#27), Hidden Falls (#28), Kitoi Bay (#29)]		27	
	1 state hatchery constructed (Pillar Creek)	17		
	1 PNP permit rescinded [Sandy Bay PNP (#4)]		26	
	1 PNP permit given up [Salmon Creek (#14)]		25	
1990	CSHB432 becomes law prohibiting finfish farming in Alaska			
	1 PNP permit issued to Bell Island (#30)		26	
1991	5 state hatcheries contracted to private sector [Beaver Falls (#24), Main Bay, Tutka, Pillar Creek, Gulkana]	12	31	
	3 PNP permits issued [Main Bay (#31), Tutka (#32), Gulkana (#39)]			
	Portions of 6 state hatcheries paid for by private or federal funds			
1992	1 state hatchery closed (Russell Creek)	11		
	2 PNP permits issued [Port Graham (#33), Haines projects (#34)]		33	
	1 PNP permit voided [Meyers Chuck (#10)]		32	
	Fisheries Rehabilitation, Enhancement and Development Division merged with the Commercial Fisheries Division to form the Commercial Fisheries Management and Development Division			
1993	3 state hatcheries transferred from Commercial Fisheries Management and Development to Sport Fish Division (Broodstock Development Center, Elmendorf, and Ft. Richardson)			

-continued-

Table 7.—Page 3 of 3.

Year	Event	No. of state operated hatcheries	No. private nonprofit (PNP) owned or operated hatcheries	No. of federal hatcheries
	2 state hatcheries contracted to private sector (Crooked Creek and Klawock)	9	34	
	1 state hatchery closed (Big Lake)	8		
1994	1 state hatchery conveyed (Deer Mountain)	7	35	
	3 PNP permits issued [Crooked Creek (#35), Klawock (#36), Deer Mountain (#37)]			
	Ft. Richardson Hatchery merged with Broodstock Development Center	6		
1995	1 PNP hatchery permit voided Klawock (#36), re-issued under new management Klawock (#38)		35	
	1 state hatchery transferred from Commercial Fisheries Management and Development Division to Sport Fish Division (Crystal Lake)			
	1 state hatchery closed (Sikusuilaq)	5		
1996	1 state hatchery contracted [Snettisham (#39)]	4	36	
	1 state hatchery transferred from Commercial Fisheries Management and Development 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 permit issued [Pillar Creek (#41)]			
2000	1 state hatchery contracted to private sector [Crystal Lake Hatchery (PNP permit not issued)]	2	32	
	1 PNP hatchery permit given up [Port Camden (# 23)]		31	
2001	1 PNP hatchery permit given up [Kowee Creek (#6)]		30	
2002	No activity			
2003	No activity			
2004	1 PNP hatchery permit issued [Port St. Nicholas (#43)]		31	
2005	No activity			
2006	No activity			
2007	1 PNP hatchery permit issued [Sawmill Creek (#44)]		32	
2008	1 PNP hatchery permit given up [Burro Creek (#12)]		31	
2009	No activity		31	
2010	No activity	2	31 ^a	3

^a There are 11 state-owned hatcheries that are contracted to PNP operators. Perry Island and Bell Island are not active.

Table 8.—Eggs taken at Alaska hatcheries (transferred eggs are listed with the receiving hatchery), in millions, 2010.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake		35.52	6.36	1.16			43.04
	Neets Bay		134.66					134.66
	Burnett Inlet			2.39				2.39
	Crystal Lake			0.23	1.15			1.38
NSRAA	Hidden Falls		88.81	6.11	1.95			96.87
	Medvejie Creek	0.32	55.83	0.18	5.22			61.55
	Haines projects		3.68					3.68
AKI	Port Armstrong	85.09	30.48	2.42	0.83			118.82
DIPAC	Macaulay		120.74	0.34	0.87			121.95
	Snettisham					19.48		19.48
KTHC	Deer Mountain			0.19	0.13			0.33
KNFC	Gunnuk Creek	20.24	17.26	0.26				37.76
POWHA	Klawock			5.03				5.03
	Port Saint Nicholas				0.40			0.40
SJC	Sheldon Jackson	1.08	10.14	0.03	0.12			11.36
MIC	Tamgas Creek		9.09	3.71	0.60	0.27		13.67
NMFS	Little Port Walter				0.50		0.07	0.56
Southeast Totals ^a		106.73	506.22	27.23	12.94	19.75	0.07	672.93
Prince William Sound								
PWSAC	Armin F. Koernig	162.00	34.00					196.00
	Wally Noerenberg	148.00	131.00	0.95	0.05			280.00
	Cannery Creek	152.00						152.00
	Main Bay					12.10		12.10
	Gulkana					31.85		31.85
VFDA	Solomon Gulch	236.16		2.04				238.20
Prince William Sound Totals ^a		698.16	165.00	2.98	0.05	43.95		910.14
Cook Inlet								
CIAA	Trail Lakes			0.65		11.10		11.75
PGH	Port Graham							
ADF&G	Ship Creek Complex			1.42	0.15		2.53	4.10
Cook Inlet Totals ^a				2.07	0.15	11.10	2.53	15.85
Kodiak								
KRAA	Kitoi Bay	174.43	27.91	2.31		0.57		205.21
	Pillar Creek			0.22	0.17	4.76	0.09	5.24
Kodiak Totals ^a		174.43	27.91	2.52	0.17	5.33	0.09	210.45
Statewide Totals ^a		979.32	699.13	34.81	13.31	80.13	2.68	1,809.37

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

Table 9.—Alaskan hatchery releases, in millions, 2010.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			0.31	0.77			1.08
	Kendrick Bay		21.33					21.33
	Nakat Inlet		8.30	0.30				8.60
	Anita Bay		5.22	0.23				5.45
	Neets Bay			0.63	0.25			0.87
	Bakewell Lake			0.50				0.50
	Neets Bay		69.51	2.19				71.70
	Nakat Inlet		8.73					8.73
	Anita Bay		18.51					18.51
	Burnett Inlet			0.21		0.06		0.27
	McDonald Lake					0.16		0.16
	Neck Lake			1.80				1.80
	Neets Bay			0.20				0.20
	Whale Pass			0.06				0.06
	Crystal Lake			0.22	0.67			0.90
	Neets Bay				0.43			0.43
	Anita Bay				0.55			0.55
NSRAA	Hidden Falls		40.27	3.64	1.31			45.21
	Takatz Bay		39.04					39.04
	Lutak Inlet				0.08			0.08
	Medvejie							
AKI	Deep Inlet		42.58					42.58
	Bear Cove	0.27	9.85		2.64			12.76
DIPAC	Haines projects		2.66					2.66
	Port Armstrong	53.68	27.30	3.22	0.28			84.47
	Macaulay (Gastineau)		7.73	0.33	0.22			8.28
	Sheep Creek		15.63					15.63
	Amalga Harbor		44.10					44.10
	Boat Harbor		13.65					13.65
	Limestone Inlet		14.06					14.06
	Skagway				0.26			0.26
	Fish Cr/Auke Bay/Twin L				0.38			0.38
	Mendenhall Lakes				0.002			0.002
	Snettisham					8.94		8.94
	Sweetheart Lake					0.53		0.53
	Tahltan/Tuya Lakes					2.80		2.80
	Tatsamenie Lake					0.72		0.72
KTHC	Deer Mountain			0.07	0.09			0.16
KNFC	Gunnuk Creek			0.03				0.03
	SE Cove/Kake SHA	9.00	54.03					63.03
SJC	Sheldon Jackson	0.99	1.08	0.13	0.09			2.28
	Deep Inlet (NSRAA coop)		8.36					8.36
MIC	Tamgas Creek		6.48	1.89	0.26			8.63
POWHA	Klawock			3.94				3.94
	Port Saint Nicholas				0.42			0.42
NMFS	Little Port Walter				0.24			0.24
Southeast Totals ^a		63.93	458.42	19.88	8.93	13.20		564.37

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Table 9.—Page 2 of 2.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Prince William Sound								
PWSAC	Armin F. Koernig	149.00	12.90					161.90
	Wally Noerenberg	136.00	76.50	3.24				215.74
	Port Chalmers		40.80					40.80
	Whittier			0.10				0.10
	Cordova			0.10				0.10
	Chenega			0.05				0.05
	Gulkana I and II							
	Paxson Lake					6.01		6.01
	Crosswind Lake					10.0		10.0
	Summit Lake					6.00		6.00
	Cannery Creek	139.00						139.00
	Main Bay					8.16		8.16
VFDA	Solomon Gulch	223.08		1.92				225.00
Prince William Sound Totals ^a		647.08	130.20	5.41		30.17		812.86
Cook Inlet								
PGHC	Port Graham					0.20		0.20
CIAA	Trail Lakes							
	Bear Lake			0.44		2.20		2.64
	Hazel Lake					1.22		1.22
	Hidden Lake					0.88		0.88
	Kirshner Lake					0.26		0.26
	Leisure Lake					1.93		1.93
	Resurrection Bay					1.65		1.65
	Tutka Bay					0.28		0.28
ADF&G	Ship Creek Complex			1.34	2.01		1.65	4.99
Cook Inlet Totals ^a				1.77	2.01	8.62	1.65	14.04
Kodiak								
KRAA	Kitoy Bay	144.43	20.77	1.05				166.25
	Crescent Lake			0.17				0.17
	Jennifer Lake			0.20				0.20
	Little Kitoy					0.53		0.53
	Ruth Lake			0.03				0.03
	Pillar Creek							
	Abercrombie Lake			0.004				0.004
	American River				0.08			0.08
	Big Lake			0.01				0.01
	Big Waterfall Lake					0.05		0.05
	Chiniak Lagoon			0.02				0.02
	Crescent Lake					0.12		0.12
	Dark Lake			0.01				0.01
	Hidden Lake					0.34		0.34
	Island Lake			0.02				0.02
	Katmai Lake			0.03				0.03
	Kodiak Road System						0.06	0.06
	Mayflower Lake			0.01				0.01
	Mission Lake			0.01				0.01
	Monaska River				0.08			0.08
	Olds River				0.08			0.08
	Potato Lake			0.01				0.01
	Ruth Lake					0.04		0.04
	Southern Lake			0.004				0.004
	Spiridon Lake					3.01		3.01
Kodiak Totals ^a		144.43	20.77	1.58	0.24	4.08	0.06	171.16
Statewide Totals ^a		855.45	609.39	28.64	11.18	56.07	1.71	1,562.44

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

Table 10.—Estimated returns to Alaska salmon enhancement projects (including common property harvests), by species, as reported by operators, 2010.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake		827,527	119,174	32,615			979,316
	Neets Bay		2,084,486	176,032	10,570			2,271,088
	Burnett Inlet			145,571		11,997		157,568
	Crystal Lake			4,747	1,332			6,079
	Anita Bay				9,805			9,805
NSRAA	Hidden Falls		993,556	250,847	8,640			1,253,043
	Medvejie	5,081	1,348,562	1,057	22,298			1,376,998
	Haines projects		16,365					16,365
AKI	Port Armstrong	1,240,699	73,382	124,583	5,225			1,443,889
DIPAC	Macaulay		2,650,800	43,873	4,301			2,698,974
	Snettisham					88,828		88,828
KNFC	Gunnuk Creek	115,656	50,018	3,587				169,261
SJC	Sheldon Jackson	29,723	216,611	548	288			247,170
POWHA	Klawock			22,809				22,809
MIC	Tamgas Creek		204,000	198,159	722			402,881
NMFS	Little Port Walter				990			990
KTHC	Deer Mountain			3,807	523			4,330
POWHA	Port Saint Nicholas				867			867
Southeast Totals		1,391,159	8,465,307	1,094,794	98,176	100,825		11,150,261
Prince William Sound								
PWSAC	Armin F. Koernig	13,779,804						13,779,804
	Wally Noerenberg	17,243,401	4,254,078	22,099				21,519,578
	Cannery Creek	19,491,437						19,491,437
	Main Bay					1,323,815		1,323,815
	Gulkana					487,849		487,849
ADF&G	Ship Creek Complex				2,450			2,450
VFDA	Solomon Gulch	18,377,038		111,544				18,488,582
Prince William Sound Totals		68,891,680	4,254,078	133,643	2,450	1,811,664		75,093,515
Cook Inlet								
CIAA	Trail Lakes			1,073		304,998		306,071
ADF&G	Ship Creek Complex			41,102	6,032		49,626	96,760
Cook Inlet Totals				42,175	6,032	304,998	49,626	402,831
Kodiak								
KRAA	Kitoi Bay	3,566,653	235,542	122,141		98,760		4,023,096
	Pillar Creek			1,600	1,000	225,374		227,974
Kodiak Totals		3,566,653	235,542	123,741	1,000	324,134		4,251,070
Statewide Totals		73,849,492	12,954,927	1,394,353	107,658	2,541,621	49,626	90,897,677

Table 11.—Projected adult returns, by species, to Alaska enhancement projects in 2011.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			28,100	17,000			45,100
	Nakat Inlet		250,000	20,700				270,700
	Anita Bay		185,000	20,200	10,000			215,200
	Kendrick Bay		509,000					509,000
	Bakewell Lake			20,300				20,300
	Neets Bay		1,523,000	209,500	22,500			1,755,000
	Burnett Inlet			21,000				21,000
	Neck Lake			108,000				108,000
	Whale Pass			4,000				4,000
	McDonald Lake					4,800		4,800
NSRAA	Crystal Lake			2,250	1,700			3,950
	Hidden Falls		1,195,000	290,900	7,200			1,493,100
	Medvejie Creek		915,000		34,550			949,550
	Haines projects		15,445					15,445
AKI	Port Armstrong	1,073,542	295,244	248,238	5,491			1,622,515
DIPAC	Macaulay							
	Gastineau Channel		1,046,000	33,000	3,100			1,082,100
	Amalga Harbor		1,452,000					1,452,000
	Boat Harbor		358,000					358,000
	Limestone Inlet		190,000					190,000
	Pullen Creek				1,100			1,100
	Snettisham					203,000		203,000
	Sweetheart Lake					3,800		3,800
	Taku River					— ^a		— ^a
	Stikine River					— ^a		— ^a
KTHC	Deer Mountain			6,800	527			7,327
KNFC	Gunnuk Creek	374,850	86,002	3,396				464,248
	Southeast Cove		111,732					111,732
SJC	Indian River/Deep Inlet	40,022	166,600	2,534	909			210,065
Federal	Little Port Walter				750			750
MIC	Tamgas		285,000	160,000	2,000	500		447,500
POWHA	Klawock			137,725				137,725
	Port Saint Nicholas				22,314			22,314
	Coffman Cove				27,423			27,423
Southeast Totals		1,488,414	8,583,023	1,316,643	156,564	212,100		11,756,744
Prince William Sound								
PWSAC	Armin F. Koernig	6,500,000						6,500,000
	Wally Noerenberg	6,100,000	3,550,000	353,000				10,003,000
	Cannery Creek	6,300,000						6,300,000
	Main Bay					853,000		853,000
	Gulkana					197,000		197,000
VFDA	Solomon Gulch	15,504,321		191,122				15,695,443
Prince William Sound Totals		34,404,321	3,550,000	544,122		1,050,000		39,548,443
Cook Inlet								
CIAA	Trail Lakes							
	Hazel/Leisure					7,900		7,900
	Kirschner Lake					11,800		11,800
	Hidden Lake					42,600		42,600
	Bear Lake			3,000		141,600		144,600
	Big Lake					38,400		38,400
	Tutka Bay Lagoon					33,000		33,000
PGH	Port Graham					4,100		4,100
	English Bay Lakes					9,700		9,700
ADF&G	Ship Creek Complex ^b			41,102	8,766		47,166	97,034
Cook Inlet Totals				44,102	8,766	289,100	47,166	389,134
Kodiak								
KRAA	Kitoy Bay	7,700,000	411,000	163,300		67,000		8,341,300
	Pillar Creek			1,600	1,700	170,000		173,300
Kodiak Totals		7,700,000	411,000	164,900	1,700	237,000		8,514,600
Statewide Totals		43,592,735	12,544,023	2,069,767	167,030	1,788,200	47,166	60,208,921

^a Not available in time for publication.^b Ship Creek Complex is the combination of Elmendorf Hatchery and Fort Richardson Hatchery.

Table 12.—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	1989	1,418	1,087	35,730
1967	NA	1	0	1990	1,603	1,154	48,485
1968	NA	1	0	1991	1,634	1,319	48,853
1969	NA	1	0	1992	1,725	1,323	23,536
1970	NA	1	0	1993	1,685	1,475	33,595
1971	NA	0	0	1994	1,758	1,302	55,926
1972	2	2	0	1995	1,913	1,503	37,298
1973	4	2	0	1996	1,688	1,638	50,220
1974	9	3	0	1997	1,732	1,364	50,991
1975	36	11	18	1998	1,773	1,452	56,046
1976	61	13	29	1999	1,847	1,433	72,303
1977	100	41	176	2000	1,734	1,470	63,114
1978	133	74	341	2001	1,804	1,476	61,730
1979	152	87	1,988	2002	1,863	1,484	49,322
1980	292	96	3,053	2003	1,926	1,521	79,873
1981	475	212	4,886	2004	1,736	1,648	46,448
1982	548	331	6,939	2005	1,705	1,427	80,973
1983	668	412	6,560	2006	1,823	1,433	46,498
1984	829	506	7,690	2007	1,724	1,560	80,260
1985	995	659	16,650	2008	1,661	1,487	60,437
1986	1,026	762	12,979	2009	1,783	1,463	45,002
1987	1,369	824	25,505	2010	1,807	1,561	90,848
1988	1,280	1,114	18,527	Total	46,322	36,733	1,322,829

Table 13.—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)
1974	5	0		1993	1,031	919	20,692
1975	9	1	18	1994	1,076	790	41,305
1976	23	4	16	1995	1,162	921	24,770
1977	66	18	175	1996	929	999	29,575
1978	79	50	325	1997	1,064	773	33,957
1979	91	60	1,591	1998	1,119	873	38,651
1980	174	64	2,310	1999	1,085	878	51,973
1981	328	135	4,371	2000	1,074	880	40,395
1982	344	218	6,610	2001	1,101	942	47,247
1983	406	264	5,939	2002	1,168	938	30,835
1984	442	332	5,298	2003	1,108	962	59,773
1985	604	366	14,158	2004	960	965	30,564
1986	511	484	9,044	2005	949	808	69,076
1987	840	443	21,961	2006	964	809	26,702
1988	736	730	13,868	2007	952	851	64,308
1989	975	675	31,764	2008	908	823	43,411
1990	1,014	811	41,208	2009	943	818	29,276
1991	998	862	39,777	2010	979	855	73,849
1992	1,077	797	14,734				

Table 14.—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)	Releases (millions)	Total returns (thousands)
1974	1	0		1993	496	469	6,709
1975	5	1		1994	529	407	8,997
1976	7	2		1995	596	473	9,540
1977	8	3	1	1996	590	535	16,353
1978	12	4	3	1997	524	485	12,768
1979	24	7	6	1998	517	479	13,409
1980	74	13	16	1999	636	461	15,080
1981	87	46	53	2000	541	508	18,818
1982	126	63	153	2001	568	467	9,167
1983	170	86	301	2002	549	451	12,565
1984	269	108	1,809	2003	675	466	13,695
1985	244	201	1,404	2004	665	578	10,932
1986	374	182	1,938	2005	627	549	7,553
1987	380	298	2,005	2006	714	539	15,715
1988	392	288	2,650	2007	639	609	12,338
1989	293	310	1,347	2008	615	567	13,655
1990	450	241	2,039	2009	705	552	12,670
1991	480	365	2,181	2010	699	609	12,955
1992	510	428	3,089				

Table 15.—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)
1966	NA	1		1989	23	16	505
1967	NA	1		1990	22	18	955
1968	NA	1		1991	23	14	1,289
1969	NA	1		1992	21	14	1,396
1970	NA	1		1993	25	15	1,022
1971	NA	0		1994	28	18	1,320
1972	2	2		1995	27	21	1,312
1973	2	2		1996	30	21	1,368
1974	1	2		1997	36	23	1,081
1975	7	4	0	1998	29	21	1,393
1976	5	3	13	1999	23	20	1,542
1977	5	5		2000	33	15	1,655
1978	5	3	0	2001	32	19	1,799
1979	4	3	71	2002	35	20	2,120
1980	4	2	21	2003	35	19	1,495
1981	8	3	55	2004	33	23	1,203
1982	16	3	108	2005	33	22	1,444
1983	17	9	96	2006	36	22	1,355
1984	21	11	179	2007	33	26	1,130
1985	20	15	308	2008	40	25	1,449
1986	24	13	660	2009	39	24	1,148
1987	26	15	453	2010	35	29	1,394
1988	28	19	284				

Table 16.—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)
1966	NA	0		1989	15	8	78
1967	NA	1		1990	17	10	118
1968	NA	0		1991	20	7	174
1969	NA	0		1992	13	10	132
1970	NA	0		1993	12	12	112
1971	NA	0		1994	13	10	127
1972	NA	0		1995	14	7	169
1973	NA	0		1996	12	7	165
1974	0	1		1997	12	7	150
1975	1	0		1998	13	7	104
1976	1	0		1999	12	8	114
1977	3	1		2000	12	8	174
1978	2	1	0	2001	14	9	188
1979	2	1	3	2002	18	8	157
1980	3	1	7	2003	14	10	159
1981	1	1	5	2004	16	10	194
1982	3	1	12	2005	15	10	139
1983	7	2	13	2006	17	10	108
1984	10	4	21	2007	17	11	137
1985	19	4	26	2008	18	11	140
1986	16	6	40	2009	17	12	116
1987	17	8	94	2010	13	11	108
1988	18	9	75				

Table 17.—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)
1972	NA	0		1992	104	74	4,185
1973	2	0		1993	122	61	5,060
1974	2	1		1994	112	77	4,177
1975	14	5		1995	115	81	1,506
1976	24	2		1996	127	75	2,760
1977	19	14	0	1997	97	75	3,036
1978	35	16	13	1998	95	72	2,488
1979	30	17	318	1999	91	66	3,595
1980	38	15	700	2000	73	60	2,073
1981	51	28	401	2001	89	39	3,328
1982	59	45	56	2002	92	67	3,645
1983	68	53	210	2003	94	64	4,750
1984	86	52	382	2004	62	71	3,554
1985	108	73	754	2005	81	38	2,761
1986	101	77	1,296	2006	93	53	2,618
1987	107	60	992	2007	83	63	2,347
1988	107	69	1,651	2008	79	61	1,781
1989	112	77	2,037	2009	80	57	1,791
1990	100	74	4,165	2010	80	56	2,542
1991	113	70	5,432				

Table 18.—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)
1975	8			
1976	17	4		
1977	37	12	160	109
1978	37	27	161	215
1979	54	29	357	253
1980	126	36	1,506	346
1981	224	102	2,564	856
1982	234	127	5,341	1,364
1983	261	170	4,286	886
1984	373	218	4,764	1,043
1985	470	302	8,106	1,854
1986	522	381	7,904	1,212
1987	868	461	19,097	4,184
1988	1,046	820	14,344	2,498
1989	1,109	860	24,045	15,012
1990	1,249	925	42,405	10,388
1991	1,326	1,087	40,265	13,170
1992	1,428	1,075	18,175	7,255
1993	1,613	1,426	27,781	4,848
1994	1,726	1,268	52,023	15,906
1995	1,877	1,174	37,593	9,554
1996	1,735	1,632	48,946	14,657
1997	1,713	1,349	50,629	19,352
1998	1,759	1,444	56,154	15,651
1999	1,778	1,428	71,140	22,608
2000	1,750	1,469	62,743	19,007
2001	1,779	1,473	59,885	18,398
2002	1,849	1,478	49,061	19,005
2003	1,919	1,490	79,897	22,937
2004	1,727	1,574	46,226	21,986
2005	1,688	1,417	80,741	21,246
2006	1,805	1,421	46,275	18,922
2007	1,707	1,549	79,985	19,580
2008	1,639	1,475	60,186	12,882
2009	1,766	1,448	44,706	13,756
2010	1,791	1,549	90,395	10,425

Table 19.—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	1,108	962	59,773	15,376
2004	960	965	30,564	17,040
2005	949	808	69,076	18,099
2006	964	809	26,702	12,620
2007	952	851	64,308	14,383
2008	908	823	43,411	8,926
2009	943	818	29,276	9,687
2010	979	855	73,849	6,453

Table 20.—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	660	574	10,905	4,102
2005	617	544	7,524	2,428
2006	704	532	15,621	5,454
2007	630	603	12,222	4,529
2008	605	560	13,541	3,421
2009	697	542	12,541	3,313
2010	690	603	12,751	3,480

Table 21.—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	32	22	1,433	395
2004	29	23	1,043	258
2005	29	19	1,274	289
2006	32	19	1,260	276
2007	29	22	1,000	189
2008	34	22	1,336	350
2009	33	21	994	317
2010	30	25	1,155	346

Table 22.—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	106	26
2006	13	8	76	15
2007	13	9	108	28
2008	14	9	117	39
2009	13	10	103	31
2010	12	9	97	24

Table 23.—Summary of sockeye 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)
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	61	72	3,550	524
2005	81	39	2,761	404
2006	92	53	2,616	557
2007	83	63	2,347	451
2008	78	61	1,781	146
2009	80	57	1,791	407
2010	80	56	2,542	122

Table 24.—Alaska commercial salmon fishery harvest average weights and prices (preliminary), 2010.

Area/Species	Harvest Average ^a	
	Weight (lb)	Price/lb.
Cook Inlet		
Chinook	20.70	\$1.75
Sockeye	6.12	\$1.75
Coho	6.59	\$0.80
Pink	3.95	\$0.29
Chum	7.24	\$0.63
Kodiak		
Chinook	7.97	\$1.03
Sockeye	5.35	\$1.38
Coho	7.54	\$0.68
Pink	3.63	\$0.41
Chum	7.67	\$0.49
Prince William Sound		
Chinook	19.62	\$5.37
Sockeye	6.15	\$1.99
Coho	8.76	\$1.18
Pink	3.66	\$0.36
Chum	6.98	\$0.80
Southeast		
Chinook	14.47	\$4.05
Sockeye	5.89	\$1.64
Coho	7.45	\$1.19
Pink	4.25	\$0.30
Chum	8.34	\$0.72

^a Data from the Alaska Department of Fish and Game website:
<http://www.cf.adfg.state.ak.us/geninfo/finfish/salmon/catchval/blusheet/10exvesl.php>

Table 25.—Estimated pink salmon returns to Alaska hatcheries in 2010, 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	
Southeast										
AKI	Port Armstrong	481,211					30,000	96,347	633,141	1,240,699
KNFC	Gunnuk Creek	16,799		998			16,000	23,790	38,069	20,000
SJC	Sitka						254	970	28,499	
NSRAA	Medvejie							4,281		800
Southeast Totals		498,010		998			46,254	125,388	699,709	20,800
Prince William Sound										
PWSAC	Armin F. Koernig	12,836,585	70,151				7,700	161,013	704,355	
	Wally Noerenberg	13,025,712	2,439,958				5,000	199,202	1,573,529	
	Cannery Creek	18,393,624	538,906				5,000	179,115	374,792	
VFDA	Solomon Gulch	16,054,782			30,000		15,000	227,388	2,035,063	14,805
Prince William Sound Totals		60,310,703	3,049,015		30,000		32,700	766,718	4,687,739	14,805
Kodiak										
KRAA	Kitoi Bay	2,172,794						297,975	1,065,884	30,000
Kodiak Totals		2,172,794						297,975	1,065,884	30,000
Statewide Totals		62,981,507	3,049,015	998	30,000		78,954	1,190,081	6,453,332	65,605

Table 26.—Estimated chum salmon returns to Alaska hatcheries in 2010, 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											
	Anita Bay, summer	38,518	20,045	428			2,106					61,097
	Nakat Inlet, summer	7,360	231,670				2,980					242,010
	Kendrick Bay, summer	436,660	44,490				43,270					524,420
	Neets Bay, summer	122,081	92,964	188,110			99,840	123,535	964,165			1,590,695
	Anita Bay, summer	136,563	71,069	1,519			7,467					216,618
	Neets Bay, fall	45,358	17,591	13,070			11,440	39,919	128,441			255,819
	Nakat Inlet, fall	2,092	18,390				872					21,354
NSRAA	Medvejie	823,250	254,992	101,692			5,319	35,846	127,204	259		1,348,562
	Hidden Falls	647,131	4,335	7,971			150	114,291	219,678			993,556
	Haines projects		6,546					3,234		6,585		16,365
DIPAC	Macaulay (was Gastineau)	998	312,486	11,488	3,000		5,000	93,552	404,871			831,395
	Amalga Harbor	1,594	361,736	18,342					1,004,023			1,385,695
	Limestone Inlet	187	154,846	2,153								157,186
	Boat Harbor	385	271,710	4,429								276,524
KNFC	Gunnuk Creek											
	Kake SHA	18,505		974			6,400	1,939				27,818
	Southeast Cove	20,900		1,100			200					22,200
AKI	Port Armstrong			7,272			3,500	49,390	13,220			73,382
SJC	Sitka	130,712	40,486	16,146			844	6,482	21,900	41		216,611
MIC	Tamgas Creek ^a						197,814	6,186				204,000
Southeast Totals		2,432,294	1,903,356	374,694	3,000		387,202	474,374	2,883,502	6,885		8,465,307
Prince William Sound												
PWSAC	Wally Noerenberg											
	Lake Bay	2,609	2,734,660		1,000		7,000	176,926	594,045			3,516,240
	Port Chalmers		480,018									480,018
	Sawmill Bay	161,541	96,279									257,820
Prince William Sound Totals		164,150	3,310,957		1,000		7,000	176,926	594,045			4,254,078
Kodiak												
KRAA	Kitoi Bay	188,870						41,258	2,414	3,000		235,542
Kodiak Totals		188,870						41,258	2,414	3,000		235,542
Statewide Totals		2,785,314	5,214,313	374,694	4,000		394,202	692,558	3,479,961	9,885		12,954,927

^a Hatchery operator reported total return but did not report contributions to common property fisheries.

Table 27.—Estimated coho salmon returns to Alaska hatcheries in 2010, 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				
Southeast										
SSRAA	Whitman Lake	780	4,280	11,200	330		4,290	2,300		23,180
	Anita Bay	720	13,805	6,700	120					21,345
	Bakewell Lake	1,015	5,280	12,420	670		900			20,285
	Nakat	500	13,220	8,100	240					22,060
	Neets Bay	2,796	9,955	14,364	734		1,610	2,845		32,304
	Neets Bay	16,326	54,960	70,511	3,675		11,045	19,515		176,032
	Burnett Inlet	75	11,760	1,325	975		7,000	2,250		23,385
	Neck Lake	1,080	41,095	4,820	20,250		891	54,050		122,186
	Crystal Lake Hatchery	168	688	1,518	39		2,334			4,747
NSRAA	Medvejie	443	369	192	40			13		1,057
	Hidden Falls	3,200	1,297	64,815	4,193		11,952	9,495		207,866
	Deer Lake	642		17,102	1,972		4,500	18,765		42,981
AKI	Port Armstrong			48,171	1,986		6,676	3,957		124,583
KNFC	Gunnuk Creek	1,755		90	59	55	836	192	600	3,587
DIPAC	Macaulay	110	6,752	7,369	4,131		2,524	22,987		43,873
KTHC	Deer Mountain	218	962	277	468	2	103	320	875	582
SJC	Sitka			425	27			94	2	548
POWHA	Klawock Hatchery	670		2,361	33	116	2,993	3,071	3,858	9,707
MIC	Tamgas Creek	5,047	87,364	44,245	579	1,100		1,824	58,000	198,159
Southeast Totals		35,545	251,787	316,005	40,521	1,273	51,030	27,827	359,917	1,094,794
Prince William Sound										
PWSAC	Wally Noerenberg	3,500	5,500		500		1,028	371		10,899
	Cordova/Whittier/Chenega				11,200					11,200
VFDA	Solomon Gulch	4,975			60,000			847	43,722	2,000
Prince William Sound Totals		8,475	5,500		71,700		1,028	1,218	43,722	2,000
Cook Inlet										
CIAA	Trail Lakes						405	240		428
ADF&G	Ship Creek Complex				5,755			467		181
	Bird Creek				3,761					19
	Homer Spit				509					509
	Resurrection Bay				25,534			212		25,746
	Eklutna tailrace				4,664					4,664
Cook Inlet Totals					40,223		405	919		628
Kodiak										
KRAA	Kitoi Bay	113,272					3,000	5,466	403	122,141
	Pillar Creek- road system				1,600					1,600
Kodiak Totals		113,272			1,600		3,000	5,466	403	123,741
Statewide Totals		157,292	257,287	316,005	154,044	1,273	55,463	35,430	404,042	13,517
										1,394,353

Table 28.—Estimated Chinook salmon returns to Alaska hatcheries in 2010, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Personal Use/ Subsistence					Cost Recovery		Escapement	Total
		Seine	Gillnet	Troll	Sport	Other	Brood	Harvest							
Southeast															
SSRAA	Whitman Lake		590	4,620	4,750			1,130	10,820				21,910		
	Neets Bay	2,825	1,045	2,235	510		150		3,940			10,705			
	Crystal Lake Hatchery		265	405	35			627				1,332			
	Anita Bay	2,926	4,863	1,808	208							9,805			
	Neets Bay	2,945	1,385	1,650	340				4,250			10,570			
NSRAA	Medvejie	3,569	4,587	5,825	1,251	33	509	4,394	2,130			22,298			
	Hidden Falls	2,343	201	1,879	340		1,761	1,866	250			8,640			
AKI	Port Armstrong			1,019	21		1,111	1,072	2,002			5,225			
DIPAC	Macaulay		484	446	1,839			878	468			4,115			
	Skagway Site		9	46	42			84			5	186			
KTHC	Deer Mountain Hatchery		29	257	79		2	86			70	523			
SJC	Sheldon Jackson	46	49	72	33		22	61	5			288			
MIC	Tamgas Creek		82	218	184			188	50			722			
NOAA	Little Port Walter	21	2	415	32		148	372				990			
POWHA	Port Saint Nicholas		11	467		389						867			
Southeast Totals		14,675	13,602	21,362	9,664	422	3,703	10,758	23,915		75	98,176			
Prince William Sound															
ADF&G	Ship Creek Complex														
	Valdez				1,356							1,356			
	Whittier				1,094							1,094			
Prince William Sound Totals					2,450							2,450			
Cook Inlet															
ADF&G	Ship Creek Complex														
	Crooked Creek				1,060						260	1,320			
	Eklutna tailrace				720							720			
	Fleming Spit				141							141			
	Kachemak Bay				710							710			
	Ninilchik River										34	34			
	Ship Creek				2,691			30			386	3,107			
Cook Inlet Totals					5,322			30		680	6,032				
Kodiak															
KRAA	Pillar Creek				900			100				1,000			
Kodiak Totals					900			100				1,000			
Statewide Totals		14,675	13,602	21,362	18,336	422	3,703	10,888	23,915		755	107,658			

Table 29.—Estimated sockeye salmon returns to Alaska hatcheries in 2010, 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				
Southeast										
SSRAA	Burnett Inlet		11,660		65		250			11,975
	Neck Lake		22							22
DIPAC	Snettisham		21,453				6,811	37,619		65,883
	Sweetheart Lake		440			1,857				2,297
	Stikine River		19,718							19,718
	Taku River		930							930
Southeast Totals			54,223		65	1,857	250	6,811	37,619	100,825
Prince William Sound										
PWSAC	Main Bay	57,391	1,245,203		1,200	800	5,009	14,212		1,323,815
	Gulkana I and II									
	Paxson Lake		48,546				28,480	18,811	4,024	99,861
	Crosswind Lake		147,926				193,968		25,000	366,894
	Summit Lake		11,435				6,708		2,951	21,094
Prince William Sound Totals		57,391	1,453,110		1,200	800	234,165	33,023	31,975	1,811,664
Cook Inlet										
CIAA	Trail Lakes									
	Bear Lake				8,200		400	4,320	21,881	43,365
	Big Lake		43,776		310	6,303	311		78,326	129,026
	Hidden Lake		34,869		6,154	9,625	25	1,000	21,493	73,166
	Leisure/Hazel Lakes				650	4,900	45		1,007	6,602
	Tutka Bay							4,894	38,087	43,981
	Kirschner Lake								8,858	8,858
Cook Inlet Totals			78,645		15,314	20,828	781	10,214	69,833	304,998
Kodiak										
KRAA	Kitoi Bay	87,653							3,562	98,760
	Pillar Creek									
	Spiridon Lake	119,365	44,148						10,960	174,473
	Foul Bay	31,126								31,126
	Waterfall Bay	13,775					6,000			19,775
Kodiak Totals		251,919	44,148				6,000		14,522	324,134
Statewide Totals		309,310	1,630,126		16,579	23,485	241,196	50,048	121,974	2,541,621

Table 30.—Estimated “other” enhanced returns to Alaska hatcheries in 2010, including common property harvests, as reported by operators.

				Personal Use/			Cost Recovery			
Area/Operator/Location		Species	Commercial	Sport Catch	Subsistence	Other	Brood	Harvest	Escapement	Total
Cook Inlet										
ADF&G	Ship Creek Hatchery Complex	Arctic char		4,232			126			4,358
		Statewide lakes		1,488			96			1,584
		Landlocked salmon		8,241						8,241
		Rainbow trout		33,205			2,238			35,443
Cook Inlet Totals				47,166			2,460			49,626
Statewide Totals				47,166			2,460			49,626

Table 31.—Summary of salmon production in 2010 from Fish Resource Permits issued by the Alaska Department of Fish and Game.

Area/Permittee	Species	Maximum number to be released
Southeast		
Fawn Mountain Elementary	Coho	100
Juneau-Douglas High School	Coho	300
Petersburg High School	Pink	50,000
Point Higgins Elementary	Coho	240
Thorne Bay	Coho	400
UAF School of Fisheries and Ocean Sciences	Pink	50,000 eggs
Yakutat	Coho	150
Southcentral		
Abbott Loop Elementary	Coho	500
ADF&G Aquatic Ed. Anchorage Lobby	Coho	500
Alaska Native Cultural Charter School	Coho	500
Alpenglow Elementary	Coho	500
Anchorage Lutheran	Coho	500
Aquarian Charter	Coho	500
Bartlett High School	Coho	500
Baxter Elementary	Coho	500
Bayshore Elementary	Coho	500
Bear Valley Elementary	Coho	500
Begich Middle School	Coho	500
Beryozova School	Coho	500
Big Lake Elementary	Coho	500
Bowman Elementary	Coho	500
Butte Elementary	Coho	500
Campbell Elementary	Coho	500
Central Middle School	Coho	500
Chapman School	Coho	500
Chickaloon School	Coho	500
Chinook Elementary	Coho	500
Chugach Optional	Coho	500
Chugiak Elementary	Coho	500
Clark Middle School	Coho	500
College Gate Elementary	Coho	500
Colony High School	Coho	500
Cook Inlet Academy	Coho	500
Cooper Landing	Coho	500
Copper Center	Coho	500
Cottonwood Creek Elementary	Coho	500
Creskide Park Elementary	Coho	500
Denali Elementary	Coho	1,000
Eagle Academy	Coho	500
Eagle River Elementary	Coho	500
East High School	Coho	500
Fairview Elementary	Coho	500

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Table 31.–Page 2 of 4.

Area/Permittee	Species	Maximum number to be released
Finger Lake Elementary	Coho	500
Fireweed Secondary	Coho	500
Girdwood Jr. High	Coho	500
Glacier View School	Coho	500
Gladys-Wood Elementary	Coho	500
Glenallen Elementary	Coho	500
Goldenview Middle	Coho	500
Goose Bay Elementary	Coho	500
Gruening Middle School	Coho	500
Hanshew Middle School	Coho	500
Hermon Hutchens Elementary	Chum	500
Homer Flex High School	Coho	500
Homer High School	Coho	500
Homestead Elementary	Coho	500
Hope School	Coho	500
Houston High School	Coho	500
Houston Middle School	Coho	500
Huffman Elementary	Coho	500
Iditarod Elementary	Coho	500
Inlet View Elementary	Coho	1,000
Jesse Lee Home	Coho	500
Kaleidoscope Elementary	Coho	500
Kalifornsky Beach Elementary	Coho	500
Kasuun Elementary	Coho	500
Kenai Alternative	Coho	500
Kenai High School	Coho	500
Kenai Middle School	Coho	500
Kenny Lake School	Coho	500
Kenny Lake School	Chum	500
Kincaid Elementary	Coho	500
King Career Center	Coho	500
Klatt Elementary	Coho	500
Knik Elementary	Coho	500
Lake Hood Elementary	Coho	1,000
Lake Otis Elementary	Coho	500
Larson Elementary	Coho	500
Machetanz Elementary	Coho	500
Matanuska Christian School	Coho	500
McNeil Canyon Elementary	Coho	500
Meadow Lakes Elementary	Coho	500
Mears Middle School	Coho	500
Midnight Sun School	Coho	500
Mirror Lake Middle School	Coho	500
MS Correspondence	Coho	500
Mt. Iliamna	Coho	500
Mt. Spurr Elementary	Coho	500
Mt. View Elementary	Coho	1,000
Muldoon Elementary	Coho	500

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Table 31.–Page 3 of 4.

Area/Permittee	Species	Maximum number to be released
Nanwalek School	Coho	500
Nikiski/North Star Elementary	Coho	500
Ninilchik School	Coho	500
North Star RTC	Coho	500
Northern Lights ABC	Coho	500
Northern Pacific Academy	Coho	500
Northwood Elementary	Coho	500
Nunaka Valley Elementary	Coho	500
Ocean View Elementary	Coho	500
O'Malley Elementary	Coho	500
Orion Elementary	Coho	500
Palmer High School	Coho	500
Palmer Middle School	Coho	500
Pioneer Peak Elementary	Coho	500
Polaris K12	Coho	500
Ravenwood Elementary	Coho	500
Redoubt Elementary	Coho	500
Rogers Park Elementary	Coho	500
SAVE High School	Coho	500
Scenic Park Elementary	Coho	500
Service High School	Coho	500
Seward Elementary	Coho	500
Seward Middle School	Coho	500
Shaw Elementary	Coho	500
Sherrod Elementary	Coho	500
Skyview High School	Coho	500
Snowshoe Elementary	Coho	500
Soldotna Elementary	Coho	500
Soldotna High School	Coho	500
South High School	Coho	500
Spring Hill Elementary	Coho	500
St. John's School	Coho	500
Sterling Elementary	Coho	500
Susan B. English	Coho	1,000
Susitna Elementary	Coho	500
Susitna Valley High School	Coho	500
Swanson Elementary	Coho	1,000
Taku Elementary	Coho	500
Talkeetna Elementary	Coho	500
Tanaina Elementary	Coho	500
Teeland Middle School	Coho	500
Trailside Elementary	Coho	500
Trapper Creek Elementary	Coho	500
Tudor Elementary	Coho	500
Tustumena Elementary	Coho	500
Ursa Minor Elementary	Coho	500
Valley Christian School	Coho	500
Voznesenka School	Coho	500

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Table 31.–Page 4 of 4.

Area/Permittee	Species	Maximum number to be released
Wasilla High School	Coho	500
West Homer Elementary	Coho	500
Williwaw Elementary	Coho	500
Winterberry Charter	Coho	500
Central		
Dillingham Elementary	Coho	1,500
Dillingham High School	Coho	500
Dillingham Middle School	Coho	500
Interior		
Arctic Light Elementary	Coho	500
Badger Road Elementary	Coho	500
Ben Eielson Jr/Sr High School	Coho	500
Delta Junction Elementary	Coho	500
Joy Elementary	Coho	500
Ladd Elementary	Coho	500
Nordale Elementary	Coho	500
Pearl Creek Elementary	Coho	500
Salcha Elementary	Coho	500
Ticasuk Brown Elementary	Coho	500
Two Rivers Elementary	Coho	500
University Park Elementary	Coho	500
Watershed School	Coho	500
Weller Elementary	Coho	500
Wood River Elementary	Coho	500
Western		
Akhiok School	Coho	500
Chiniak School	Coho	500
Danger Bay School	Coho	500
East Elementary (Kodiak)	Coho	500
Karluk School	Coho	500
Kodiak Christian School	Coho	500
Kodiak High School	Coho	500
Kodiak Learning Center	Coho	500
Kodiak Middle School	Coho	500
Larsen Bay School	Coho	500
Main Elementary (Kodiak)	Coho	500
North Star Elementary	Coho	500
Old Harbor School	Coho	500
Ouizinkie School	Coho	500
Peterson Elementary	Coho	500
Port Lions School	Coho	1,000
St. Mary's School	Coho	500
Unalaska High School	Coho	10,000
Arctic-Yukon-Kuskokwim		
Quinhagak Elementary School	Coho	300

Table 32.—Updated pink salmon returns to Alaska hatcheries in 2009, including common property harvest, as reported by operators.

Area/Operator/Location		Common Property Harvest					Cost Recovery			Total	
		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Harvest		Escapement
Southeast											
AKI	Port Armstrong	612,828					45,000	79,359	655,604		1,392,791
KNFC	Gunnuk Creek	17,991					6,613	20,491	625		45,720
NSRAA	Medvejie							760		800	1,560
SJC	Sitka	14,560						1,096	16,700		32,356
Southeast Totals		645,379					51,613	101,706	672,929	800	1,472,427
Prince William Sound											
PWSAC	Armin F. Koernig	6,272,211	10,926				19,500	232,620	4,161,281		10,696,538
	Wally Noerenberg	1,481,061	259,502				53,000	189,345	1,254,456		3,237,364
	Cannery Creek	2,356,512					95,000	245,864	612,463		3,309,839
VFDA	Solomon Gulch	58,739			30,000			416,158	758,661	28,747	1,292,305
Prince William Sound Totals		10,168,523	270,428		30,000		167,500	1,083,987	6,786,861	28,747	18,536,046
Kodiak											
KRAA	Kitoi Bay	6,712,309				371	40,894	258,943	2,227,256	28,000	9,267,773
Kodiak Totals		6,712,309				371	40,894	258,943	2,227,256	28,000	9,267,773
Statewide Totals		17,526,211	270,428		30,000	371	260,007	1,444,636	9,687,046	57,547	29,276,246

Table 33.—Updated chum salmon returns to Alaska hatcheries in 2009, including common property harvests, as reported by operators.

		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
		Seine	Gillnet	Troll	Sport						
Southeast											
SSRAA	Whitman Lake										
	Nakat Inlet (summer)	18,100	219,000								237,100
	Anita Bay (summer)	136,500	167,500	5,580							309,580
	Kendrick Bay (summer)	355,700	32,800								388,500
	Neets Bay (summer)	195,870	100,350	206,100				144,200	639,900		1,286,420
	Neets Bay (fall)	21,100	40,500	340				44,370	121,130		227,440
	Nakat Inlet (fall)	600	6,550								7,150
NSRAA	Medvejie	315,404	108,360	98,574			1,899	44,754	143,025	271	712,287
	Hidden Falls	1,851,721	39,515	62			1,500	110,109	303,385		2,306,292
	Haines projects		8,956					2,435		10,999	22,390
DIPAC	Macaulay	23,626	770,429		1,800		25,000	93,759	521,096		1,435,710
	Amalga	17,207	389,849						1,066,597		1,473,653
	Limestone Inlet	4,638	183,786								188,424
	Boat Harbor	18,993	409,704								428,697
KNFC	Gunnuk Creek	3,216		169	5		3,661	4,801			11,852
	Southeast Cove	795		42			2,000	92			2,929
AKI	Port Armstrong	26,213					4,103	62,999	37,750		131,065
SJC	Sitka	37,227	11,492	10,454			201	6,538	17,153	29	83,094
MIC	Tamgas Creek	27,500	94,000					7,256			128,756
Southeast Totals		3,054,410	2,582,791	321,321	1,805		38,364	521,313	2,850,036	11,299	9,381,339
Prince William Sound											
PWSAC	Wally Noerenberg	26,544	1,593,855		1,000		5,000	151,835	461,511		2,239,745
	Pt. Chalmers		666,047								666,047
	Sawmill Bay	229,833									229,833
Prince William Sound Totals		256,377	2,259,902		1,000		5,000	151,835	461,511		3,135,625
Kodiak											
KRAA	Kitoi Bay	99,220					4,385	43,852	1,779	4,000	153,236
Kodiak Totals		99,220					4,385	43,852	1,779	4,000	153,236
Statewide Totals		3,410,007	4,842,693	321,321	2,805		47,749	717,000	3,313,326	15,299	12,670,200

Table 34.—Updated coho salmon returns to Alaska hatcheries in 2009, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest				Personal Use/ Subsistence	Other	Brood	Cost Recovery		Total
		Seine	Gillnet	Troll	Sport				Harvest	Escapement	
Southeast											
SSRAA	Whitman Lake	2,060	3,600	14,690	1,170			5,000	14,985		41,505
	Anita Bay	450	15,010	9,530	400						25,390
	Bakewell Lake	1,040	1,100	6,960	645		1,420				11,165
	Nakat	830	9,000	10,900	370						21,100
	Neets Bay	3,470	19,880	54,310	6,000		3,450	550	25,000		112,660
	Burnett Inlet	1,380	10,650	4,100	210		4,500	2,205	12,000		35,045
	Neck Lake	2,230	45,700	11,100	10,100		1,200		41,500		111,830
	Crystal Lake Hatchery	30	240	650	5		1,002	253			2,180
NSRAA	Medvejie	336	327	122	29		20		6		840
	Hidden Falls	3,438	552	35,982	2,777		4,243	7,415	56,003		110,410
	Deer Lake	171		20,350	1,105		2,670		26,587		50,883
AKI	Port Armstrong	259	93	37,668	342	32	5,317	5,681	64,180		113,572
KNFC	Gunnuk Creek			112	100	26	60	90		100	488
DIPAC	Macaulay	491	230	5,607	4,052		1,228		22,271		33,879
KTHC	Deer Mountain	2,002	669	910	827	2	1,246	300	250	700	6,906
SJC	Sitka			361	100		42	188	111		802
POWHA	Klawock Hatchery	2,645	56	5,979	1,965		6,269	3,970	9,407	4,612	34,903
MIC	Tamgas Creek	9,500	39,000	38,250	650		600	1,946	31,364		121,310
Southeast Totals		30,332	146,107	257,581	30,847	60	33,267	27,598	303,664	5,412	834,868
Prince William Sound											
PWSAC	Wally Noerenberg	1,698	18,511		1,200			2,064			23,473
	Cordova/Whittier/Chenega				3,500						3,500
VFDA	Solomon Gulch	1,221			60,000		50	3,079	17,830	500	82,680
Prince William Sound Totals		2,919	18,511		64,700		50	5,143	17,830	500	109,653
Cook Inlet											
CIAA	Trail Lakes						420	257		465	1,142
ADF&G	Ship Creek Complex				2,974			648		1,271	4,893
	Bird Creek				3,296					278	3,574
	Homer Spit				509						509
	Resurrection Bay				17,462			226			17,688
	Eklutna tailrace				6,767						6,767
Cook Inlet Totals					31,008		420	1,131		2,014	34,573
Kodiak											
KRAA	Kitoi Bay	127,486			85	2,681	7,004	3,354	27,076		167,686
	Pillar Creek road system				1,600						1,600
Kodiak Totals		127,486			1,685	2,681	7,004	3,354	27,076		169,286
Statewide Totals		160,737	164,618	257,581	128,240	2,741	40,741	37,226	348,570	7,926	1,148,380

Table 35.—Updated Chinook salmon returns to Alaska hatcheries in 2009, including common property harvests, as reported by operators.

Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Whitman Lake	130	350	4,340	1,430			1,500	12,940		20,690
	Neets Bay	4,086	2,250	1,625	250				4,910		13,121
	Crystal Lake Hatchery		190	760	110		30	700			1,790
	Anita Bay	3,155	4,640	1,235	120						9,150
	Neets Bay	3,982	2,241	2,764	405				6,200		15,592
NSRAA	Medvejie Creek	1,941	3,607	6,321	1,040	76	4,350	2,463	5,106		24,904
	Hidden Falls	3,082	114	1,243	463		547	1,291	163		6,903
AKI	Port Armstrong		10	619	17		835	388	622		2,491
DIPAC	Gastineau	20	888	659	2,404			1,112	1,346		6,429
	Skagway Site		14	38	201		26	297			576
KTHC	Deer Mountain Hatchery	3	4	170	170		4	94		100	545
SJC	Sitka			201			234	12			447
POWHA	Port Saint Nicholas			423	50		170				643
MIC	Tamgas Creek	200	300	947	600		125	146	1,450		3,768
NMFS	Little Port Walter	20	13	711	55		154	850			1,803
Southeast Totals		16,619	14,621	22,056	7,315	76	6,475	8,853	32,737	100	108,852
Prince William Sound											
ADF&G	Ship Creek Complex				2,039						2,039
Prince William Sound Totals					2,039						2,039
Cook Inlet											
ADF&G	Ship Creek Complex										
	Kachemak Bay		30		865						895
	Ship Creek				953			366		550	1,869
	Fleming Spit				346						346
	Crooked Creek				956			146		116	1,218
	Ninilchik River							96		74	170
	Eklutna Tailrace				499						499
	Deception Creek						50	118			168
Cook Inlet Totals			30		3,619		50	726		740	5,165
Kodiak											
KRAA	Pillar Creek				35		5	104			144
Kodiak Totals					35		5	104			144
Statewide Totals		16,619	14,651	22,056	13,008	76	6,530	9,683	32,737	840	116,200

Table 36.—Updated Sockeye salmon returns to Alaska hatcheries in 2009, including common property harvests, as reported by operators.

Area/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Cost Recovery		Escapement	Total
								Brood	Harvest		
Southeast											
SSRAA	Burnett Inlet		2,720				200				2,920
	Neck Lake		1,730			630					2,360
DIPAC	Snettisham	5,643	17,181		194		979	6,217	83,420		113,634
	Sweetheart Lake	292	1,112			2,766					4,170
	Stikine River		27,888								27,888
	Taku River		401								401
MIC	Tamgas Creek							23	50		73
Southeast Totals		5,935	51,032		194	3,396	1,179	6,240	83,470		151,446
Prince William Sound											
PWSAC	Main Bay	63,802	692,180		700		2,000	8,815	133,560		901,057
	Gulkana I and II										
	Paxson Lake		20,517				27,504	4,134		500	52,655
	Crosswind Lake		38,619				51,770	14,655		24,015	129,059
	Summit Lake		803				1,077			105	1,985
Prince William Sound Totals		63,802	752,119		700		82,351	27,604	133,560	24,620	1,084,756
Cook Inlet											
CIAA	Trail Lakes – Bear Lake				10,248		923	3,341	136,128	9,478	160,118
	Big Lake		9,900			3,200	77			30,100	43,277
	Hidden Lake		7,350		2,010	1,530		2,953		4,860	18,703
	Leisure/Hazel Lakes				650	4,900	80		205		5,835
	Tutka Bay						503	3,067	11,584		15,154
	Kirschner Lake						350		18,771		19,121
PGH	Port Graham		9,548			700		240	8,292	17,680	36,460
Cook Inlet Totals			26,798		12,908	10,330	1,933	9,601	174,980	62,118	298,668
Kodiak											
KRAA	Kitoy Bay	67,105			250	6			15,195	8,962	91,518
	Pillar Creek										
	Settler's Cove					995					995
	Spiridon Lake	104,233	50,792								155,025
	Foul Bay	6,508									6,508
	Waterfall Bay	2,234									2,234
Kodiak Totals		180,080	50,792		250	1,001			15,195	8,962	256,280
Statewide Totals		249,817	880,741		14,052	14,727	85,463	43,445	407,205	95,700	1,791,150

Table 37.—Updated “other” enhanced fish returns to Alaska hatcheries in 2009, as reported by operators.

				Sport	Personal Use/	Cost Recovery				
Region/Operator/Location		Species	Commercial	Catch	Subsistence	Other	Brood	Harvest	Escapement	Total
Cook Inlet										
ADF&G	Ship Creek Complex	Arctic char		4,289			166			4,455
		Statewide lakes		1,948			115			2,063
		Rainbow trout		24,639			3,099			27,738
		Landlocked Salmon		6,033						6,033
Cook Inlet Totals				36,909			3,380			40,289
Statewide Totals				36,909			3,380			40,289

Table 38.—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 ^a	Jay Creasy Bill Lyden Ron Parsley Loren Thompson	John Burke	johnb@ssraa.org whitman@kpunet.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 ^a Haines Projects	Bill Coltharp Scott Wagner Benji Burbank	Steve Reifensstuhl	steve_reifensstuhl@nsraa.org bill_coltharp@nsraa.org scott_wagner@nsraa.org benji_burbank@nsraa.org
P DIPAC	2697 Channel Dr.	Juneau, AK 99801	(907) 463-5114 (907) 463-5114 (907) 463-5115 (907) 463-5114	(907) 463-3213 (907) 463-3213	Macaulay Snettisham ^a Sheep Creek	Andrew Ollenburg Kevin Steck	Eric Prestegard	Eric_prestegard@dipac.net andrew_ollenburg@dipac.net kevin_steck@dipac.net
P POWHA	PO Box 554	Craig, AK 99921	(907) 755-2231	(907) 755-2440	Klawock River ^a Port Saint Nicholas	Dan Goodness Dan Goodness	Dan Goodness	powha@aptalaska.net powha@aptalaska.net
P SJC	801 Lincoln St	Sitka, AK 99835	(907) 747-8878	(907) 747-2987	Sheldon Jackson	Jim Seeland		jseeland@gci.net
P KNFC	P.O. Box 523	Kake, AK 99830	(907) 785-6460	(907) 785-6475	Gunnuk Creek	John Oliva	John Oliva	gunnukcreek@hughes.net
P AKI	P.O. Box 21990	Juneau, AK 99802	(907) 586-3443 (907) 586-2228	(907) 586-2236	Port Armstrong	Ben Contag	Bart Watson	aki@ak.net portarmstrong@starband.net
P KTHC	1158 Salmon Rd	Ketchikan, AK 99901	(907) 228-5531	(907) 228-5548	Deer Mountain	Jerry Guthrie		jguthrie@kictribe.org
F NMFS	17109 Lena Point Loop Rd.	Juneau, AK 99801	(907) 789-6055 (907) 789-6618	(907) 789-6094	Little Port Walter Auke Creek	Frank Thrower John Joyce		frank.thrower@noaa.gov john.joyce@noaa.gov
F MIC	P.O. Box 8	Metlakatla, AK 99929	(907) 886-3150	(907) 886-3152	Tamgas Creek	Steve Leask		stevel@aptalaska.net
Prince William Sound								
R PWSAC	P.O. Box 1110	Cordova, AK 99574	(907) 424-7511	(907) 424-7514	AF Koernig W Noerenberg Main Bay ^a Gulkana ^a Cannery Creek ^a	Craig Perry Rob Unger Dave Robertson Gary Martinek Neil Wright	Dave Reggiani	dave.pwsac@ak.net afk.pwsac@ak.net wnh.pwsac@ak.net mbh.pwsac@ak.net gkh@cvinternet.net cch.pwsac@ak.net
P VFDA	P.O. Box 125	Valdez, AK 99686	(907) 835-4874 (907) 835-1329	(907) 835-5951	Solomon Gulch	Mike Anderson	Jason Wells	vfda@cvinternet.net vfda@cvinternet.net
Cook Inlet								
R CIAA	40610 Kalifornsky Beach Rd	Kenai, AK 99611	(907) 283-5761 (907) 288-3688	(907) 283-9433 (907) 288-3663	Trail Lakes ^a Tutka ^a Eklutna	Tom Prochazka	Gary Fandrei	gfandrei@ciaa.net tprochazka_tlh@ciaa.net
P PGH	P.O. Box 5543	Port Graham, AK 99603	(907) 284-2233	(907) 284-2238	Port Graham		Patrick Norman	pnormanvc@hotmail.com
S ADF&G	941 N. Reeve Blvd. P.O. Box 5267	Anchorage, AK 99501 Anchorage, AK 99505	(907) 274-0065 (907) 428-1348		Elmendorf Ft Richardson	Robert McFadden Andrea Tesch		robert.mcfadden@alaska.gov andrea.tesch@alaska.gov
Kodiak								
R KRAA	P.O. Box 3407	Kodiak, AK 99615	(907) 486-6555 (907) 486-4730 (907) 743-0617	(907) 486-4105	Pillar Creek ^a Kitoi Bay ^a	Gary Byrne Andrew Aro	Kevin Brennan	kraa@gci.net pch@gci.net kitoi@gci.net

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Table 38.—Page 2 of 2.

Initials	Corporate name	Hatchery	PNP Permit #	PNP permit issued	Species permitted	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, chum	
		Crystal Lake ^a			Chinook, coho	
NSRAA	Northern Southeast Regional Aquaculture Assoc.	Medvejie Creek	16	8/17/81	chum, coho, Chinook, pink	www.nsraa.org
		Hidden Falls ^a	28	6/22/88	chum, Chinook, coho	
		Haines Projects	34	4/29/92	chum, sockeye	
		Sawmill Creek	44	3/11/07	coho	
DIPAC	Douglas Island Pink and Chum, Inc	Sheep Creek	11	9/19/79	chum, pink, coho	www.dipac.net
		Macaulay	25	6/3/87	chum, pink, coho, Chinook	
		Snettisham ^a	39	7/15/96	sockeye	
POWHA	Prince of Wales Hatchery Association	Klawock River	38	2/19/96	coho, sockeye, steelhead	
		Port Saint Nicholas	43	6/25/04	Chinook	
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	http://gunnukcreekhatchery.org/
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	
		Auke Creek			pink, chum, sockeye, coho	www.afsc.noaa.gov/ABL/MSI/msi_acs.htm
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, chum	www.pwsac@ak.net
		W Noerenberg	20	6/17/83	pink, chum, Chinook, coho	
		Main Bay ^a	31	4/17/01	sockeye	
		Gulkana ^a	42	7/5/00	sockeye	
		Cannery Creek ^a	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 ^a	27	6/22/88	sockeye, coho, Chinook	www.ciaanet.org
		Tutka ^a	32	1/3/94	pink, sockeye	
		Eklutna	17	2/5/82	sockeye, coho	
PGH	Port Graham Hatchery Corporation	Port Graham	33	8/3/92	pink, sockeye	
ADF&G	Alaska Department of Fish and Game	Ship Creek Complex ^b			Chinook, coho, char, grayling, lake & rainbow trout	www.state.ak.us/adfg/adfghome.htm
Kodiak						
KRAA	Kodiak Regional Aquaculture Association	Pillar Creek ^a	41	5/1/98	sockeye, coho, Chinook, rainbow trout	www.ptialaska.net/~kraa07/index.html
		Kitoi Bay ^a	29	7/5/88	pink, chum, coho, sockeye	

Codes: R=Regional Aquaculture Association Private Nonprofit (PNP) hatchery, P=Non Association PNP hatchery, F=Federal/Bureau of Indian Affairs hatchery, S=State hatchery

^a State-owned hatchery contracted to private sector.

^b Elmendorf and Fort Richardson hatcheries.

Table 39.—Permitted capacity of Alaskan private nonprofit hatcheries, in millions of eggs, 2010.

Region/Operator/Location		Pink	Chum	Combined Pink & Chum	Coho	Chinook	Sockeye	Other	Total
Southeast									
SSRAA	Whitman Lake		44.30		7.00	1.50			52.80
	Neets Bay		102.70		5.00	2.00			109.70
	Burnett Inlet		25.00		2.50		2.70		30.20
	Crystal Lake ^a								
NSRAA	Hidden Falls		101.00		6.90	3.80			111.70
	Medvejie Creek	0.30	60.00		0.41	5.20			65.91
	Haines projects		4.80				2.00		6.80
	Sawmill Creek				4.33				4.33
AKI	Port Armstrong ^b	85.00	30.00		5.00	2.00			122.00
DIPAC	Macaulay	50.00	125.00		1.50	1.25			177.75
	Sheep Creek				0.15				0.15
	Snettisham						33.50		33.50
KTHC	Deer Mountain				0.38	0.13		0.05	0.56
KNFC	Gunnuk Creek ^c			65.00	0.25				65.25
POWHA	Klawock				5.00		5.00	0.05	10.05
	Port St Nicholas					0.77			0.77
SJC	Sheldon Jackson	1.00	10.00		0.15	0.10		0.02	11.27
Southeast Totals ^d		136.30	502.80	65.00	38.57	16.75	43.20	0.12	802.75
Prince William Sound									
PWSAC	Armin F. Koernig	162.00	34.00						196.00
	Wally Noerenberg	148.00	131.00		4.00	4.00			287.00
	Cannery Creek	152.00							152.00
	Main Bay						12.40		12.40
	Gulkana						36.75		36.75
VFDA	Solomon Gulch	230.00			2.00	0.30			232.30
Prince William Sound Totals ^d		692.00	165.00		6.00	4.30	49.15		916.45
Cook Inlet									
PGHC	Port Graham	110.00					1.35		111.35
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 ^d		235.00			6.16	4.00	50.01		295.17
Kodiak									
KRAA	Kitoi Bay	215.00	28.00		2.30		0.60		245.90
	Pillar Creek				0.50	0.45	20.00	.09	21.04
Kodiak Totals ^d		215.00	28.00		2.80	0.45	20.60	.09	266.94
Statewide Totals ^d		1,278.30	695.80	65.00	53.53	25.50	162.96	0.21	2,281.31

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

^b Port Armstrong is permitted for a total of 5.0 million Chinook and coho salmon eggs in combination, not to exceed 2.0 million Chinook salmon eggs.

^c Gunnuk Creek hatchery is permitted for a combined 65.0 million pink and chum salmon eggs in combination, not to exceed 20.0 million pink salmon.

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