

Alaska Salmon Enhancement Program 2008 Annual Report

by

Bruce White

March 2009

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

FISHERY MANAGEMENT REPORT NO. 09-08

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2008 ANNUAL REPORT**

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Alaska Department of Fish and Game, Commercial Fisheries, Juneau

March 2009

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Division of Sport Fish, Research and Technical Services
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This document should be cited as:

White, B. 2009. Alaska salmon enhancement program 2008 annual report. Alaska Department of Fish and Game, Fishery Management Report No. 09-08, Anchorage.

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ABSTRACT

The Alaska Department of Fish and Game oversees and regulates all state and private sector salmon 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 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 Alaska Department of Fish and Game fishery managers, and inseason and technical expertise to the private sector.

Hatchery operators collected over 1.6 billion salmon eggs and released over 1.4 billion juvenile fish. An estimated 60 million adult salmon of hatchery origin returned. The preliminary total statewide commercial salmon harvest was 146 million fish. There were approximately 133 million salmon harvested in the common property commercial fishery, and an estimated 45 million, or 34%, were produced by the Alaska salmon enhancement program. Enhanced salmon provided an estimated \$110 million or 29% of the exvessel value of the statewide common property commercial harvest. The ocean ranching program employs hundreds of Alaskans in 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 in the state with salmon enhancement programs and pink and chum salmon are the predominant species produced. Salmon enhancement also occurs in the Cook Inlet and Kodiak regions. 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 the following:

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

The Alaska Department of Fish and Game (ADF&G) Division of Sport Fish operates 2 state hatcheries, primarily to produce salmonid species intended for sport fisheries. The PNP corporations produce salmon mainly for commercial harvest. The PNPs 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 (sport, personal use, subsistence). Federal hatcheries are generally used for scientific research. Streamside incubation projects enhance stocks of fish inexpensively. Stream restoration projects involve restoring streams degraded by human activity. Tables 1 through 39 provide various data for Alaska hatcheries for the years 2007 and 2008.

HIGHLIGHTS IN 2008

- The preliminary statewide commercial salmon harvest was 146 million fish, with an ex-vessel value of over \$409 million. The Alaska salmon enhancement program produced an estimated 60 million adult salmon (Figure 2). An estimated 45 million enhanced salmon were harvested in the common property commercial fishery and had a preliminary value of \$110 million. The remaining 15 million hatchery produced salmon were harvested for cost recovery, used for broodstock, or harvested in the personal use/sport/subsistence fishery. Compared to 2007, the preliminary exvessel price paid for pink, chum, Chinook and coho salmon increased. The price for sockeye salmon remained about the same.
- Statewide, hatchery produced salmon accounted for approximately 29% of the total exvessel value of the common property commercial harvest. Enhanced salmon accounted for 75% of the chum, 49% of the pink, 26% of the Chinook, 25% of the coho, and 7% of sockeye exvessel value.
- Pink and chum salmon dominated the returns of the 5 species of salmon produced in the enhancement program (Figure 3). The enhancement program produced 64% of the chum, 44% of the pink, 21% of the coho, 20% of the Chinook, and 3% of the sockeye salmon in the statewide common property commercial harvest. +

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

Prince William Sound: Enhanced fish accounted for 91% of the salmon in the common property commercial harvest; 93% of the pink, 93% of the chum, 66% of the sockeye, and 52% of the coho salmon in the common property commercial harvest were hatchery produced. In addition, enhanced salmon contributed approximately \$67 million, or 83% of the value of the common property commercial harvest.

Southeast: Enhanced fish accounted for 24% of the salmon in the common property commercial harvest; 85% of the chum, 31% of the Chinook, 22% of the coho, 9% of the sockeye and 1% of the pink salmon in the common property commercial harvest were enhanced. Additionally, enhanced salmon contributed over \$38 million or 41% of the value of salmon in the common property commercial harvest.

Kodiak: Enhanced fish accounted for 9% of the salmon in the common property commercial harvest; 39% of the coho, 17% of the sockeye, 10% of the chum, and 6% of the pink salmon in the common property commercial harvest were enhanced. Additionally, enhanced salmon contributed approximately \$4 million, or 15% of the value of salmon in the common property commercial harvest.

Cook Inlet: Enhanced fish accounted for 4% of the salmon in the common property commercial harvest; 5% of the sockeye and 2% of the Chinook salmon in the common property commercial harvest were enhanced. Additionally, enhanced salmon contributed approximately \$1 million or 4% of the value of salmon in the common property commercial harvest.

- Statewide, sport anglers harvested an estimated 323,828 hatchery-produced fish representing 8 species (Chinook, coho, pink, chum, and sockeye salmon; rainbow trout, arctic char and arctic grayling).
- The Burro Creek hatchery (located in Skagway) closed after being inactive for several years.
- In 2009, over 60 million fish are projected to return from Alaska hatchery releases.

FIGURES AND TABLES

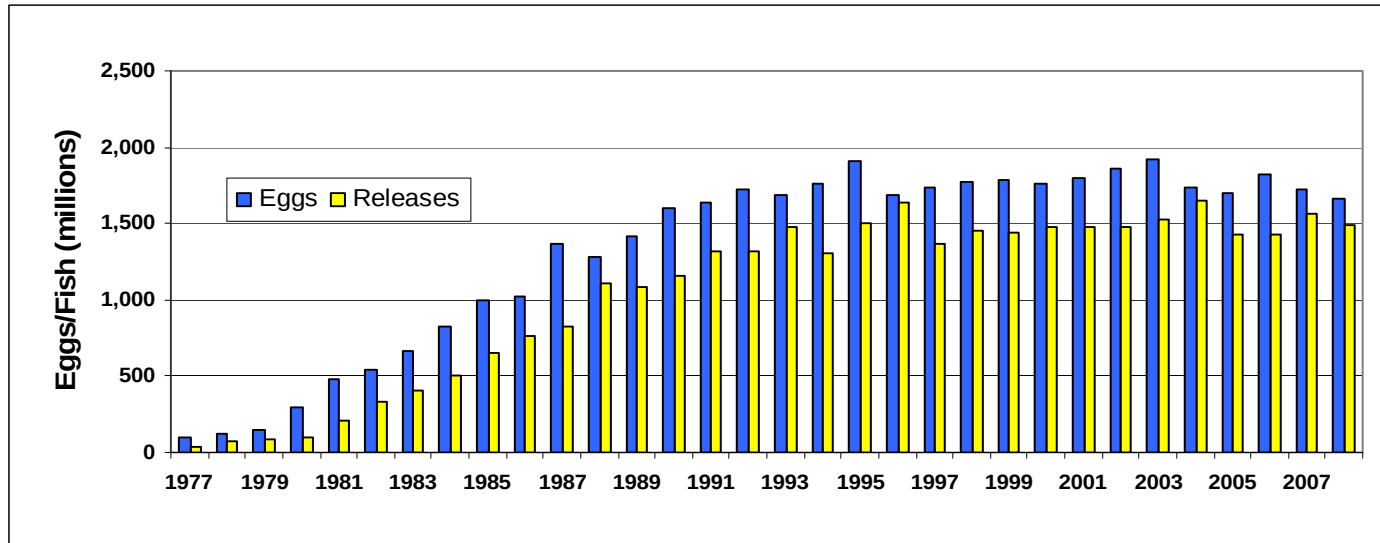


Figure 1.—Total egg-takes and releases in the Alaska salmon hatchery program, 1977 to 2008.

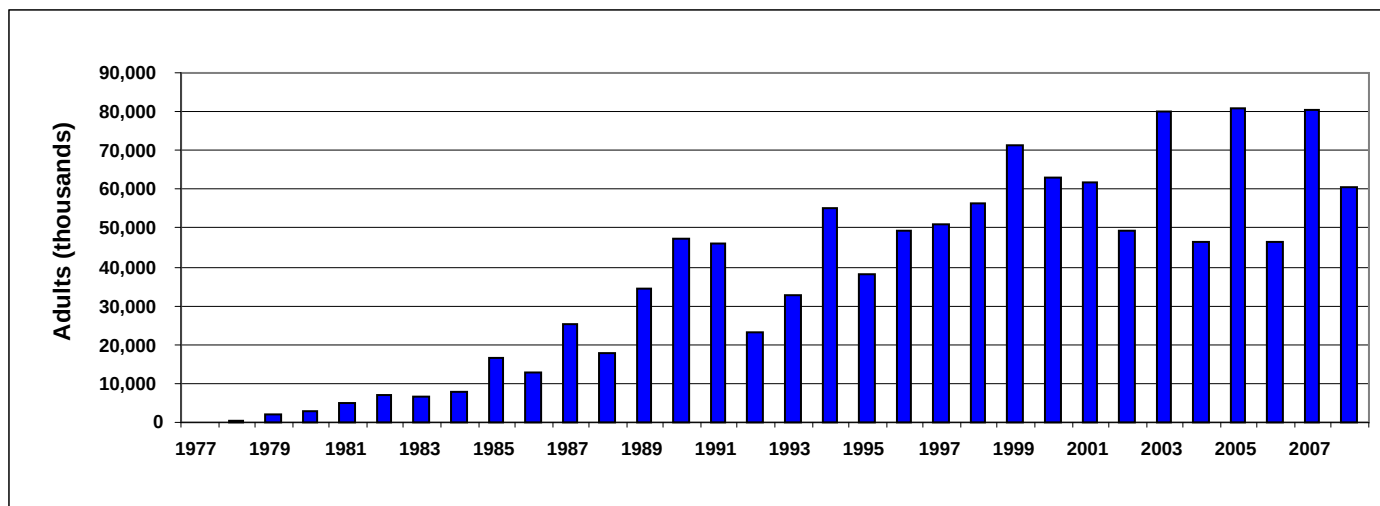


Figure 2.—Total returns in the Alaska salmon hatchery program, 1977 to 2008.

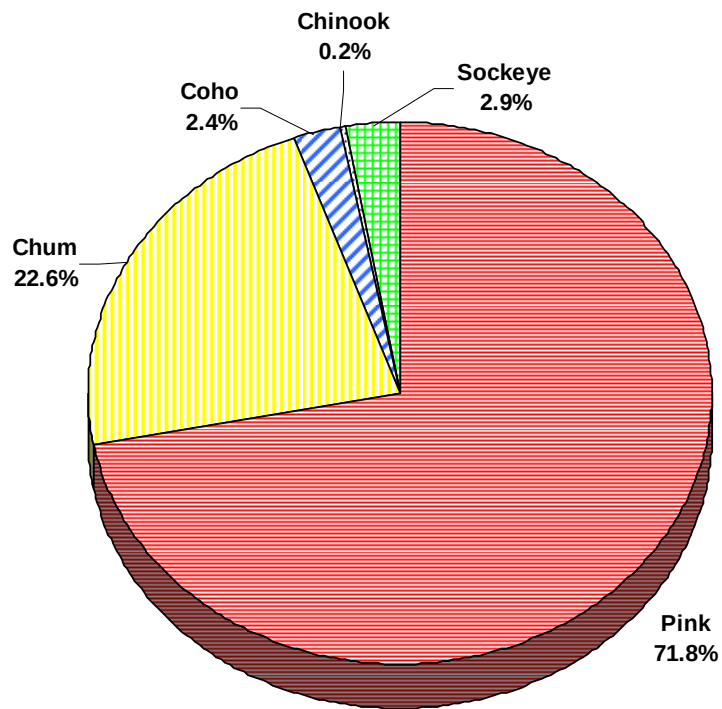


Figure 3.—Alaska salmon hatchery returns by species in 2008.

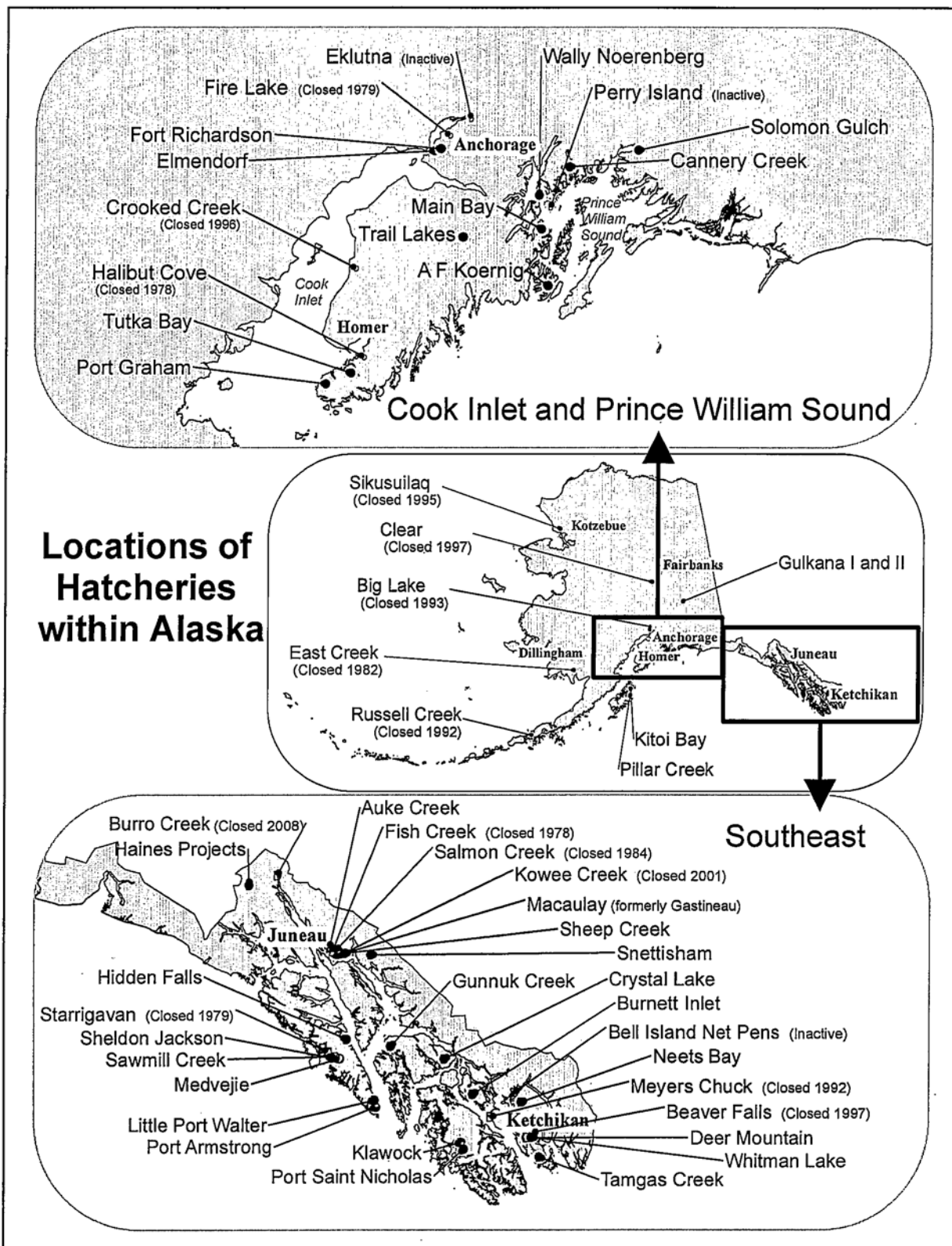


Figure 4.—Locations of hatcheries in Alaska.

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
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, 2008.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	26.44	436.30	30.01	15.13	20.50	0.12	528.50
Prince William Sound	691.17	148.00	6.30		44.15		889.62
Cook Inlet			2.30	2.77	10.14	3.12	18.33
Kodiak/Alaska Peninsula	190.49	27.08	2.51	0.27	3.33	0.09	223.76
Totals ^a	908.09	611.38	41.12	18.17	78.12	3.32	1,660.21

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

Table 3.—Estimated releases from Alaska hatcheries, in millions, 2008.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	67.28	414.02	18.23	9.70	13.64	0.00	522.88
Prince William Sound	610.64	131.50	3.76		31.25		777.14
Cook Inlet			1.67	1.31	13.20	1.63	17.82
Kodiak/Alaska Peninsula	144.92	21.69	1.49	0.15	2.58	0.06	170.89
Totals ^a	822.84	567.21	25.16	11.16	60.66	1.70	1,488.74

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

Table 4.—Total returns attributed to Alaska hatcheries and enhancement projects in 2008, including common property, cost recovery, broodstock, and escapement.

Area	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	226,618	8,632,774	875,735	127,852	102,225	5	9,965,209
Prince William Sound	40,696,813	4,893,155	408,388	2,596	1,038,800		47,039,752
Cook Inlet	5,000		62,216	14,717	281,766	57,623	421,322
Kodiak/Alaska Peninsula	2,482,678	129,035	130,998	300	320,230		3,063,241
Totals ^a	43,411,109	13,654,964	1,477,337	145,465	1,743,021	57,628	60,489,524

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

Table 5.—Alaska common property commercial harvest of enhanced fish, in thousands, 2008.

Area	Harvest ^a	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Total Commercial Harvest	241	422	2,356	15,951	9,022	27,992
	Total Cost Recovery Harvest	40	53	338	79	2,911	3,422
	Common Property Harvest	201	369	2,018	15,872	6,111	24,570
	Enhanced Fish Harvested	62	33	444	95	5,179	5,813
	% Enhanced in Total CP Harvest ^b	31.0%	8.9%	22.0%	0.6%	84.8%	23.7%
Prince William Sound	Total Commercial Harvest	12	1,303	548	42,413	5,089	49,365
	Total Cost Recovery Harvest			23	7,153	508	7,684
	Common Property Harvest	12	1,303	525	35,260	4,581	41,681
	Enhanced Fish Harvested		857	275	32,631	4,235	37,997
	% Enhanced in Total CP Harvest ^b		65.7%	52.4%	92.5%	92.5%	91.2%
Cook Inlet	Total Commercial Harvest	13	2,770	172	674	227	3,856
	Total Cost Recovery Harvest		89				89
	Common Property Harvest	13	2,681	172	674	227	3,767
	Enhanced Fish Harvested	0.2	134				134
	% Enhanced in Total CP Harvest ^b	1.5%	5.0%				3.6%
Kodiak	Total Commercial Harvest	17	1,819	301	8,724	908	11,769
	Total Cost Recovery Harvest		4	4	1,695	1	1,703
	Common Property Harvest	17	1,815	297	7,029	907	10,066
	Enhanced Fish Harvested		312	117	424	92	945
	% Enhanced in Total CP Harvest ^b		17.2%	39.2%	6.0%	10.2%	9.4%
Chignik/Aleutian Islands/Alaska Peninsula	Total Commercial Harvest	14	4,840	515	15,920	1,200	22,489
	Enhanced Fish Harvested						
	% Enhanced in Total CP Harvest ^b						
Bristol Bay	Total Commercial Harvest	25	27,756	90	278	1,202	29,351
	Enhanced Fish Harvested						
	% Enhanced in Total CP Harvest ^b						
Arctic-Yukon-Kuskokwim	Total Commercial Harvest	29	113	415	90	584	1,231
	Enhanced Fish Harvested						
	% Enhanced in Total CP Harvest ^b						
Total ^c	Total Commercial Harvest	351	39,023	4,397	84,050	18,232	146,053
	Total Cost Recovery Harvest	40	147	365	8,926	3,421	12,898
	Common Property Harvest	311	38,876	4,032	75,124	14,811	133,155
	Enhanced Fish Harvested	62	1,336	836	33,149	9,507	44,890
	% Enhanced in Total CP Harvest ^b	20.1%	3.4%	20.7%	44.1%	64.2%	33.7%

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

^b CP = common property.

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

Table 6.—Preliminary estimated value of the total Alaska common property commercial harvest, in thousands of dollars, 2008.

Area	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	\$19,401	\$3,665	\$29,482	\$16,123	\$48,137	\$116,808
Prince William Sound	\$1,512	\$13,353	\$6,037	\$47,838	\$21,590	\$90,330
Cook Inlet	\$523	\$18,142	\$480	\$476	\$866	\$20,486
Kodiak	\$137	\$11,771	\$2,698	\$9,675	\$3,590	\$27,871
Chignik/Aleutian Islands/Alaska Peninsula	\$122	\$20,430	\$1,740	\$11,982	\$2,178	\$36,453
Bristol Bay	\$443	\$111,356	\$318	\$100	\$1,136	\$113,353
Arctic-Yukon-Kuskokwim	\$550	\$437	\$1,666	\$49	\$1,323	\$4,024
Totals ^a	\$22,687	\$179,154	\$42,421	\$86,243	\$78,819	\$409,324

^a Data from the Alaska Department of Fish and Game website: <http://www.cf.adfg.state.ak.us/geninfo/finfish/salmon/catchval/blusheet/08exvesl.php> accessed 3/04/09. Preliminary figures may not total exactly due to rounding.

Table 7.—Salmon fishery 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 (FRED) Division created by Legislature			
1973	2 state hatcheries constructed (Crooked Creek and Gulkana) State enhancement projects at Starrigavan and Halibut Cove started	7		
1974	2 state hatcheries constructed (Beaver Falls and East Creek) Legislature authorizes permits for private nonprofit hatchery operators to salmon ranch	9		
1975	4 PNP permits issued [Perry Island (#1), Port San Juan (#2), Sheldon Jackson (#3), and Sandy Bay (#4)] 2 state hatcheries constructed (Big Lake and Tutka)	11	4	
1976	AS 16.10.375 passed, designating regions for regional planning teams and enhancing salmon 1 state hatchery constructed at Elmendorf 2 PNP permits issued [Burnett Inlet (#5) and Kowee Creek (#6)]	12	6	
1977	1 PNP permit issued to Gunnuk Creek (#7) 2 state hatcheries constructed (Klawock and Russell Creek) State enhancement project at Karluk Lake started	14	7	
1978	1 PNP permit issued to Whitman Lake (#8) 2 state hatcheries constructed (Cannery Creek and Hidden Falls)	16	8	
1979	3 PNP permits issued [Salmon Creek (#9), Meyers Chuck (#10), Sheep Creek (#11)] 1 state hatchery constructed (Snettisham) 1 state hatchery closed (Fire Lake)	17 16	11	
1980	1 PNP permit issued to Burro Creek (#12) 2 state hatcheries constructed (Clear and Main Bay) 1 hatchery at Tamgas Creek constructed (Metlakatla Indian Community/Bureau of Indian Affairs)	18	12	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 ADFG/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	
	4 PNP permits issued [Main Bay (#31), Tutka (#32), Pillar Creek (#38), 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	
	FRED Division merged with the Commercial Fisheries Division to form the Commercial Fisheries Management and Development (CFMD) Division			
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 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 voided Klawock (#36), re-issued under new management Klawock (#38)		35	
	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	No activity			
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)]	2	31 ^a	3

^aThere 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 in 2008, 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		37.68	6.15	1.36			45.19
	Neets Bay		98.57					98.57
	Burnett Inlet			2.28		0.25		2.53
	Crystal Lake			0.23	2.18			2.41
NSRAA	Hidden Falls		88.12	7.23	2.67			98.02
	Medvejie Creek	0.35	52.08	0.02	4.79			57.24
	Haines projects		2.57					2.57
AKI	Port Armstrong	23.20	13.10	3.84	0.94			41.09
DIPAC	Macaulay		121.94	0.30	0.95			123.20
	Snettisham					20.08		20.08
KTHC	Deer Mountain			0.16	0.13			0.28
KNFC	Gunnuk Creek	1.82	7.24	0.05				9.11
POWHA	Klawock			5.04				5.04
	Port Saint Nicholas				0.57			0.57
SJC	Sheldon Jackson	1.07	4.19	0.18	0.10			5.55
MIC	Tamgas Creek		10.81	4.52	0.45	0.18		15.96
NMFS	Little Port Walter				1.00		0.12	1.11
Southeast Totals ^a		26.44	436.30	30.01	15.13	20.50	0.12	528.50
Prince William Sound								
PWSAC	Armin F. Koernig	161.00	17.40					178.40
	Wally Noerenberg	148.00	130.60	4.00				282.60
	Cannery Creek	152.00						152.00
	Main Bay					10.50		10.50
	Gulkana					33.65		33.65
VFDA	Solomon Gulch	230.17		2.30				232.47
Prince William Sound Totals ^a		691.17	148.00	6.30		44.15		889.62
Cook Inlet								
CIAA	Trail Lakes			0.57		10.14		10.71
ADF&G	Ship Creek Complex			1.72	2.77		3.12	7.61
Cook Inlet Totals ^a				2.30	2.77	10.14	3.12	18.33
Kodiak								
KRAA	Kitot Bay	190.49	27.08	2.42		0.53		220.51
	Pillar Creek			0.09	0.27	2.80	0.09	3.25
Kodiak Totals ^a		190.49	27.08	2.51	0.27	3.33	0.09	223.76
Statewide Totals ^a		908.09	611.38	41.12	18.17	78.12	3.32	1,660.21

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

Table 9.—Alaskan hatchery releases in 2008, in millions of fish.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			0.31	0.73			1.03
	Kendrick Bay		20.00					20.00
	Nakat Inlet		7.70	0.30				8.00
	Anita Bay		4.80	0.22				5.02
	Neets Bay			0.59	0.25			0.84
	Bakewell Lake			0.51				0.51
	Neets Bay		61.25	2.19				63.44
	Nakat Inlet		8.40					8.40
	Anita Bay		14.60					14.60
	Burnett Inlet			0.17		0.11		0.28
	Neck Lake			1.74				1.74
	Crystal Lake			0.12	0.60			0.73
	Neets Bay				0.39			0.39
	Anita Bay				0.34			0.34
NSRAA	Hidden Falls		41.65	2.95	0.76			45.37
	Takatz Bay		42.83					42.83
	Lutak Inlet				0.16			0.16
	Medvejie							
AKI	Deep Inlet		43.46	0.19	0.92			44.57
	Bear Cove	0.33	9.17	0.02	2.98			12.50
DIPAC	Haines projects		1.62					1.62
	Port Armstrong	61.73	13.79	2.51	0.76			78.79
	Macaulay (Gastineau)		10.85	0.74	0.15			11.74
	Sheep Creek		24.39					24.39
	Amalga Harbor		45.33					45.33
	Boat Harbor		14.72					14.72
	Limestone Inlet		15.04					15.04
	Skagway				0.05			0.05
	Fish Cr/Auke Bay/Twin L				0.38			0.38
	Snettisham					7.12		7.12
	Sweetheart Lake					0.45		0.45
	Tahltan/Tuya Lakes					3.08		3.08
	Tatsamenie Lake					2.52		2.52
	Little Trapper					0.35		0.35
KTHC	Deer Mountain			0.13	0.06		0.004	0.19
KNFC	Gunnuk Creek	0.34	3.08	0.01				3.43
	SE Cove/Kake SHA	3.87	15.30					19.17
SJC	Sheldon Jackson	1.02	0.94	0.14	0.05			2.14
	Deep Inlet (NSRAA coop)		8.08					8.08
MIC	Tamgas Creek		7.02	1.83	0.46			9.31
POWHA	Klawock			3.58				3.58
	Port Saint Nicholas				0.44			0.44
NMFS	Little Port Walter				0.22			0.22
Southeast Totals ^a		67.28	414.02	18.23	9.70	13.64	0.004	522.88

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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	144.00	15.70					159.70
	Wally Noerenberg	136.00	76.90	1.68				214.58
	Port Chalmers		38.90					38.90
	Whittier			0.10				0.10
	Cordova			0.10				0.10
	Chenega			0.05				0.05
	Gulkana I and II							
	Paxson Lake					6.00		6.00
	Crosswind Lake					9.98		9.98
	Summit Lake					6.00		6.00
	Cannery Creek	131.00						131.00
	Main Bay					9.27		9.27
VFDA	Solomon Gulch	199.64		1.83				201.47
Prince William Sound Totals ^a		610.64	131.50	3.76		31.25		777.14
Cook Inlet								
PGHC	Port Graham					0.25		0.25
CIAA	Trail Lakes							
	Bear Lake			0.50		4.00		4.50
	Hazel Lake					1.16		1.16
	Hidden Lake					0.92		0.92
	Kirshner Lake					0.30		0.30
	Leisure Lake					2.05		2.05
	Meadow Creek					4.04		4.04
	Homer Spit			0.10				0.10
	Seldovia			0.09				0.09
	Tutka Bay					0.48		0.48
ADF&G	Ship Creek Complex			0.99	1.31		1.63	3.93
Cook Inlet Totals ^a				1.67	1.31	13.20	1.63	17.82
Kodiak								
KRAA	Kitoi Bay	144.92	21.69	0.99				167.60
	Crescent Lake			0.17				0.17
	Jennifer Lake			0.20				0.20
	Katmai			0.03				0.03
	Little Kitoi					0.53		0.53
	Ruth Lake			0.03				0.03
	Pillar Creek							
	Abercrombie Lake			0.003				0.003
	American River				0.04			0.04
	Big Waterfall Lake					0.05		0.05
	Chiniak Lagoon			0.01				0.01
	Crescent Lake					0.35		0.35
	Dark Lake			0.01				0.01
	Hidden Lake					0.35		0.35
	Island Lake			0.02				0.02
	Kodiak Road System						0.06	0.06
	Little Waterfall Lake					0.25		0.25
	Mayflower Lake			0.01				0.01
	Mission Lake			0.01				0.01
	Monaska River				0.06			0.06
	Olds River				0.04			0.04
	Potato Lake			0.01				0.01
	Southern Lake			0.003				0.003
	Spiridon Lake					1.05		1.05
Kodiak Totals ^a		144.92	21.69	1.49	0.15	2.58	0.06	170.89
Statewide Totals ^a		822.84	567.21	25.16	11.16	60.66	1.70	1,488.74

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

Table 10.—Estimated returns by species to Alaska enhancement projects in 2008, including common property harvests, as reported by operators.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake		802,585	80,600	20,734			903,919
	Neets Bay		1,006,395	191,800	14,996			1,213,191
	Burnett Inlet			64,900		6,130		71,030
	Crystal Lake			2,657	5,893			8,550
	Anita Bay				10,070			10,070
NSRAA	Hidden Falls		2,251,557	262,964	12,277			2,526,798
	Medvejie	11,178	843,796	3,245	45,893			904,112
	Haines projects		21,446					21,446
AKI	Port Armstrong	93,803	18,193	61,610	1,557			175,163
DIPAC	Macaulay		3,459,302	44,279	6,303			3,509,884
	Snettisham					95,959		95,959
KNFC	Gunnuk Creek	9,426	14,836	201				24,463
SJC	Sheldon Jackson	112,211	100,948	5,460	179			218,798
POWHA	Klawock			71,587				71,587
MIC	Tamgas Creek		113,716	80,143	3,800	136		197,795
	Little Port Walter				5,688			5,688
KTHC	Deer Mountain			6,289	462		5	6,756
	Southeast Totals	226,618	8,632,774	875,735	127,852	102,225	5	9,965,209
Prince William Sound								
PWSAC	Armin F. Koernig	6,112,588						6,112,588
	Wally Noerenberg	8,737,521	4,893,155	140,049				13,770,725
	Cannery Creek	10,992,852						10,992,852
	Main Bay					851,600		851,600
	Gulkana					187,200		187,200
ADF&G	Ship Creek Complex				2,596			2,596
VFDA	Solomon Gulch	14,853,852		268,339				15,122,191
	Prince William Sound							
	Totals	40,696,813	4,893,155	408,388	2,596	1,038,800		47,039,752
Cook Inlet								
PGHC	Port Graham	5,000				29,853		34,853
CIAA	Trail Lakes			1,276		251,913		253,189
ADF&G	Ship Creek Complex			60,940	14,717		57,623	133,280
	Cook Inlet Totals	5,000		62,216	14,717	281,766	57,623	421,322
Kodiak								
KRAA	Kitoi Bay	2,482,678	129,035	129,398		70,118		2,811,229
	Pillar Creek			1,600	300	250,112		252,012
	Kodiak Totals	2,482,678	129,035	130,998	300	320,230		3,063,241
Statewide Totals		43,411,109	13,654,964	1,477,337	145,465	1,743,021	57,628	60,489,524

Table 11.—Projected adult returns, by species, to Alaska enhancement projects in 2009.

Area/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			59,000	17,200			76,200
	Nakat Inlet		325,000	24,000				349,000
	Anita Bay		425,000	17,500	21,700			464,200
	Kendrick Bay		544,000					544,000
	Neets Bay		1,884,000	183,000	15,000			2,082,000
	Burnett Inlet			16,500		500		17,000
	Neck Lake			52,000		800		52,800
NSRAA	Crystal Lake			2,400	7,500			9,900
	Hidden Falls		2,208,000	234,000	7,600			2,449,600
	Medvejie Creek		1,012,000	12,800	42,100			1,066,900
	Haines projects		22,600					22,600
AKI	Port Armstrong	1,234,684	63,377	193,203	2,510			1,493,774
DIPAC	Macaulay (Gastineau)							
	Gastineau Channel		816,000	44,000	4,300			864,300
	Amalga Harbor		1,003,000					1,003,000
	Boat Harbor		257,000					257,000
	Limestone Inlet		110,000					110,000
	Pullen Creek				1,200			1,200
	Snettisham					228,000		228,000
	Sweetheart Lake					36,000		36,000
	Taku River ^a							
	Stikine River ^a							
KTHC	Deer Mountain			5,274	410		20	5,704
KNFC	Gunnuk Creek	1,706	54,545	184				56,435
	Southeast Cove	77,328	57,087					134,415
SJC	Indian River/Deep Inlet	98,600	165,692	6,366	448			271,106
Federal	Little Port Walter				2,100		150	2,250
MIC	Tamgas		239,578	100,000	3,714	5,882		349,174
POWHA	Klawock			139,222				139,222
	Port Saint Nicholas				4,178			4,178
	Coffman Cove				970			970
Southeast Totals		1,412,318	9,186,879	1,089,449	125,782	271,182	170	12,085,780
Prince William Sound								
PWSAC	Armin F. Koernig	6,400,000						6,400,000
	Wally Noerenberg	6,200,000	3,060,000	154,000				9,414,000
	Cannery Creek	5,800,000						5,800,000
	Main Bay					911,000		911,000
	Gulkana					149,000		149,000
VFDA	Solomon Gulch	17,947,623		238,457				18,186,080
Prince William Sound Totals		36,347,623	3,060,000	392,457		1,060,000		40,860,080
Cook Inlet								
PGHC	Port Graham					39,220		39,220
CIAA	Trail Lakes							
	Homer Spit			3,300				3,300
	Seldovia			3,100				3,100
	Hazel/Leisure					25,900		25,900
	Kirschner Lake					2,500		2,500
	Hidden Lake					43,900		43,900
	Bear Lake			9,500		192,500		202,000
	Big Lake					57,800		57,800
	Tutka Bay Lagoon					16,100		16,100
ADF&G	Ship Creek Complex ^b			61,783	18,562		57,116	137,461
Cook Inlet Totals				77,683	18,562	377,920	57,116	531,281
Kodiak								
KRAA	Kitot Bay	10,321,711	148,000	162,332		69,689		10,701,732
	Pillar Creek			1,600	550	159,200		161,350
Kodiak Totals		10,321,711	148,000	163,932	550	228,889		10,863,082
Statewide Totals		48,081,652	12,394,879	1,723,521	144,894	1,937,991	57,286	64,340,223

^a Sockeye projection was 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	1988	1,280	1,114	18,527
1967	NA	1	0	1989	1,418	1,087	35,730
1968	NA	1	0	1990	1,603	1,154	48,485
1969	NA	1	0	1991	1,634	1,319	48,853
1970	NA	1	0	1992	1,725	1,323	23,536
1971	NA	0	0	1993	1,685	1,475	33,595
1972	2	2	0	1994	1,758	1,302	55,926
1973	4	2	0	1995	1,913	1,503	37,298
1974	9	3	0	1996	1,688	1,638	50,220
1975	36	11	18	1997	1,732	1,364	50,991
1976	61	13	29	1998	1,773	1,452	56,046
1977	100	41	176	1999	1,847	1,433	72,303
1978	133	74	341	2000	1,734	1,470	63,114
1979	152	87	1,988	2001	1,804	1,476	61,730
1980	292	96	3,053	2002	1,863	1,484	49,322
1981	475	212	4,886	2003	1,926	1,521	79,873
1982	548	331	6,939	2004	1,736	1,648	46,448
1983	668	412	6,560	2005	1,705	1,427	80,973
1984	829	506	7,690	2006	1,823	1,433	46,498
1985	995	659	16,650	2007	1,724	1,560	80,260
1986	1,026	762	12,979	2008	1,657	1,487	60,432
1987	1,369	824	25,505	Total	42,728	33,710	1,186,974

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

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		1992	510	428	3,089
1975	5	1		1993	496	469	6,709
1976	7	2		1994	529	407	8,997
1977	8	3	1	1995	596	473	9,540
1978	12	4	3	1996	590	535	16,353
1979	24	7	6	1997	524	485	12,768
1980	74	13	16	1998	517	479	13,409
1981	87	46	53	1999	636	461	15,080
1982	126	63	153	2000	541	508	18,818
1983	170	86	301	2001	568	467	9,167
1984	269	108	1,809	2002	549	451	12,565
1985	244	201	1,404	2003	675	466	13,695
1986	374	182	1,938	2004	665	578	10,932
1987	380	298	2,005	2005	627	549	7,553
1988	392	288	2,650	2006	714	539	15,715
1989	293	310	1,347	2007	639	609	12,338
1990	450	241	2,039	2008	611	567	13,655
1991	480	365	2,181				

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		1988	28	19	284
1967	NA	1		1989	23	16	505
1968	NA	1		1990	22	18	955
1969	NA	1		1991	23	14	1,289
1970	NA	1		1992	21	14	1,396
1971	NA	0		1993	25	15	1,022
1972	2	2		1994	28	18	1,320
1973	2	2		1995	27	21	1,312
1974	1	2		1996	30	21	1,368
1975	7	4	0	1997	36	23	1,081
1976	5	3	13	1998	29	21	1,393
1977	5	5		1999	23	20	1,542
1978	5	3	0	2000	33	15	1,655
1979	4	3	71	2001	32	19	1,799
1980	4	2	21	2002	35	20	2,120
1981	8	3	55	2003	35	19	1,495
1982	16	3	108	2004	33	23	1,203
1983	17	9	96	2005	33	22	1,444
1984	21	11	179	2006	36	22	1,355
1985	20	15	308	2007	33	26	1,130
1986	24	13	660	2008	41	25	1,477
1987	26	15	453				

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		1988	18	9	75
1967	NA	1		1989	15	8	78
1968	NA	0		1990	17	10	118
1969	NA	0		1991	20	7	174
1970	NA	0		1992	13	10	132
1971	NA	0		1993	12	12	112
1972	NA	0		1994	13	10	127
1973	NA	0		1995	14	7	169
1974	0	1		1996	12	7	165
1975	1	0		1997	12	7	150
1976	1	0		1998	13	7	104
1977	3	1		1999	12	8	114
1978	2	1	0	2000	12	8	174
1979	2	1	3	2001	14	9	188
1980	3	1	7	2002	18	8	157
1981	1	1	5	2003	14	10	159
1982	3	1	12	2004	16	10	194
1983	7	2	13	2005	15	10	139
1984	10	4	21	2006	17	10	108
1985	19	4	26	2007	17	11	137
1986	16	6	40	2008	18	11	145
1987	17	8	94				

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		1991	113	70	5,432
1973	2	0		1992	104	74	4,185
1974	2	1		1993	122	61	5,060
1975	14	5		1994	112	77	4,177
1976	24	2		1995	115	81	1,506
1977	19	14	0	1996	127	75	2,760
1978	35	16	13	1997	97	75	3,036
1979	30	17	318	1998	95	72	2,488
1980	38	15	700	1999	91	66	3,595
1981	51	28	401	2000	73	60	2,073
1982	59	45	56	2001	89	39	3,328
1983	68	53	210	2002	92	67	3,645
1984	86	52	382	2003	94	64	4,750
1985	108	73	754	2004	62	71	3,554
1986	101	77	1,296	2005	81	38	2,761
1987	107	60	992	2006	93	53	2,618
1988	107	69	1,651	2007	83	63	2,347
1989	112	77	2,037	2008	78	61	1,743
1990	100	74	4,165				

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	1,635	1,475	60,150	12,882

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

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	601	560	13,541	3,421

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	35	22	1,336	350

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	119	39

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	1,743	146

Table 24.—Alaska commercial salmon fishery harvest average weights and prices.

Area/Species	Average Harvest ^a	
	Weight (lb)	Price/lb.
Cook Inlet		
Chinook	22.47	\$1.77
Sockeye	5.75	\$1.14
Coho	6.89	\$0.40
Pink	3.61	\$0.20
Chum	8.04	\$0.47
Kodiak		
Chinook	8.04	\$0.99
Sockeye	5.53	\$1.17
Coho	8.08	\$1.11
Pink	3.70	\$0.30
Chum	8.41	\$0.47
Prince William Sound		
Chinook	21.87	\$5.87
Sockeye	6.15	\$1.67
Coho	9.49	\$1.16
Pink	3.39	\$0.33
Chum	7.75	\$0.55
Southeast		
Chinook	15.11	\$5.33
Sockeye	6.37	\$1.36
Coho	7.99	\$1.57
Pink	3.69	\$0.27
Chum	8.63	\$0.62

^a Data from the Alaska Department of Fish and Game website:

<http://www.cf.adfg.state.ak.us/geninfo/finfish/salmon/catchval/blusheet/08exvesl.php>>. Accessed 01/11/2009.

Table 25.— Estimated pink salmon returns to Alaska hatcheries in 2008, 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										
AKI	Port Armstrong	41,690					5,500	27,556	19,057	93,803
KNFC	Gunnuk Creek	2,693					500	3,233		9,426
SJC	Sitka	50,495						1,737	59,979	112,211
NSRAA	Medvejie						700	9,678	800	11,178
Southeast Totals		94,878					6,700	42,204	79,036	226,618
Prince William Sound										
PWSAC	Armin F. Koernig	5,194,542	15,211				7,000	186,982	708,853	6,112,588
	Wally Noerenberg	6,717,714	712,140				4,000	198,568	1,105,099	8,737,521
	Cannery Creek	9,682,510	67,482				10,000	196,926	1,035,934	10,992,852
VFDA	Solomon Gulch	10,241,172			30,000			238,594	4,302,725	14,853,852
Prince William Sound Totals		31,835,938	794,833		30,000		21,000	821,070	7,152,611	40,696,813
Cook Inlet										
PGHC	Port Graham						5,000			5,000
Cook Inlet Totals							5,000			5,000
Kodiak										
KRAA	Kitoi Bay	423,745					55,000	304,286	1,694,647	2,482,678
Kodiak Totals		423,745					55,000	304,286	1,694,647	2,482,678
Statewide Totals		32,354,561	794,833		30,000		87,700	1,167,560	8,926,294	43,411,109

Table 26.—Estimated chum salmon returns to Alaska hatcheries in 2008, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Cost				Total
		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Recovery Harvest	Escapement	
Southeast											
SSRAA	Whitman Lake										
	Nakat Inlet – summer	6,130	209,855								215,985
	Anita Bay – summer	70,000	89,800								159,800
	Kendrick Bay – summer	30,400	396,400								426,800
	Neets Bay – summer	53,449	50,254					132,757	585,000		821,460
	Neets Bay – fall	13,625	14,974					45,211	74,760		148,570
NSRAA	Nakat Inlet – fall	3,815	32,550								36,365
	Medvejie	329,037	190,177	49,617			1,900	31,883	240,882	300	843,796
	Hidden Falls	1,747,776		35			31,500	99,393	372,853		2,251,557
	Haines projects		8,579					2,052		10,815	21,446
	Macaulay (was Gastineau)	4,262	606,773		1,800		5,000	147,038	656,530		1,421,403
	Amalga Harbor	3,278	482,515						946,704		1,432,497
DIPAC	Limestone Inlet	1,600	136,764								138,364
	Boat Harbor	3,606	463,432								467,038
	KNFC										
	Gunnuk Creek										
	Kake SHA	2,441		15			2,100	6,942			11,498
	Southeast Cove	754		5					2,579		3,338
AKI	Port Armstrong	3,639					157	14,343	54		18,193
SJC	Sitka	42,680	19,550	5,101				1,553	32,064		100,948
MIC	Tamgas Creek	26,500	80,000				50	7,166			113,716
Southeast Totals		2,342,992	2,781,623	54,773	1,800		40,707	488,338	2,911,426	11,115	8,632,774
Prince William Sound											
PWSAC	Wally Noerenberg										
	Lake Bay	51,392	2,488,260		1,000		4,000	144,747	508,365		3,197,764
	Port Chalmers	1,184,688									1,184,688
	Sawmill Bay	510,703									510,703
Prince William Sound Totals		1,746,783	2,488,260		1,000		4,000	144,747	508,365		4,893,155
Kodiak											
KRAA	Kitoi Bay	92,308					6,000	28,010	717	2,000	129,035
Kodiak Totals		92,308					6,000	28,010	717	2,000	129,035
Statewide Totals		4,182,083	5,269,883	54,773	2,800		50,707	661,095	3,420,508	13,115	13,654,964

Table 27.—Estimated coho salmon returns to Alaska hatcheries in 2008, 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	1,800	5,600	10,000	2,600					3,300	13,000		36,300
	Anita Bay	400	12,100	6,400	400								19,300
	Nakat	1,000	16,000	7,500	500								25,000
	Neets Bay	6,800	32,400	71,000	11,300						70,300		191,800
	Burnett Inlet	200	8,900	1,000	70		30	3,200	2,100		8,600		24,100
	Neck Lake	200	8,000	1,300	9,300			3,000			19,000		40,800
	Crystal Lake Hatchery		400	800				7	1,450				2,657
NSRAA	Medvejie	1,123	1,127	723	95			25			152		3,245
	Hidden Falls	2,200	103	100,472	4,209			3,188	8,029		126,265		244,466
	Deer Lake			7,370	1,000			2,080			8,048		18,498
AKI	Port Armstrong			22,793	663			3,566	3,166		31,422		61,610
KNFC	Gunnuk Creek			50	50			1	50			50	201
DIPAC	Macaulay (was Gastineau)		2,829	11,221	4,329			819	226		24,855		44,279
KTHC	Deer Mountain	305	1,789	554	1,155		22	1,806	300		8	350	6,289
SJC	Sitka			2,457				2,377	551		75		5,460
POWHA	Klawock Hatchery	8,829		26,628	2,039			3,597	3,444		20,840	6,210	71,587
MIC	Tamgas Creek	4,250	39,000	18,337	1,000			600	1,956		15,000		80,143
Southeast Totals		27,107	128,248	288,605	38,710		52	24,266	24,572		337,565	6,610	875,735
Prince William Sound													
PWSAC	Wally Noerenberg	36,721	80,469		1,250			200	2,409				121,049
	Cordova/Whittier/Chenega				19,000								19,000
VFDA	Solomon Gulch	157,883			84,528			418	1,683		22,827	1,000	268,339
Prince William Sound Totals		194,604	80,469		104,778			618	4,092		22,827	1,000	408,388
Cook Inlet													
CIAA	Trail Lakes							321	285		350	320	1,276
ADF&G	Ship Creek Complex				6,254				843			393	7,490
	Bird Creek				3,894								3,894
	Homer Spit				12,736								12,736
	Resurrection Bay				30,599				240				30,839
	Campbell Creek				1,146				10			322	1,478
	Eklutna tailrace				4,503								4,503
Cook Inlet Totals					59,132			321	1,378		350	1,035	62,216
Kodiak													
KRAA	Kitoy Bay	116,543			300			3,000	5,732		3,823		129,398
	Pillar Creek- road system				1,600								1,600
Kodiak Totals		116,543			1,900			3,000	5,732		3,823		130,998
Statewide Totals		338,254	208,717	288,605	204,520		52	28,205	35,774		364,565	8,645	1,477,337

Table 28.—Estimated Chinook salmon returns to Alaska hatcheries in 2008, including common property harvests, 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											
SSRAA	Whitman Lake		600	1,900	1,320			1,020	9,820		14,660
	Neets Bay	1,468	814	584	112				3,096		6,074
	Crystal Lake Hatchery		490	1,440	2,500		63	1,400			5,893
	Anita Bay	2,180	6,480	1,300	110						10,070
	Neets Bay	3,442	1,936	1,436	678				7,504		14,996
NSRAA	Medvejie	2,512	6,708	15,121	1,573	127	490	3,966	15,396		45,893
	Hidden Falls	4,584	222	2,472	328		43	2,530	2,098		12,277
AKI	Port Armstrong		9	64	6		1,147	238	93		1,557
DIPAC	Macaulay (was Gastineau)		758	956	2,093			641	765		5,213
	Skagway Site		39	84	41		747	179			1,090
KTHC	Deer Mountain Hatchery		43	64	169		14	104		68	462
SJC	Sitka			81			95	3			179
MIC	Tamgas Creek	200	300	947	600		150	153	1,450		3,800
NOAA	Little Port Walter	105	105	2,738	90		2,650				5,688
Southeast Totals		14,491	18,504	29,187	9,620	127	5,399	10,234	40,222	68	127,852
Prince William Sound											
ADF&G	Ship Creek Complex										
	Valdez/Whittier				2,596						2,596
Prince William Sound Totals					2,596						2,596
Cook Inlet											
ADF&G	Ship Creek Complex										
	Crooked Creek				1,830			199		305	2,334
	Deception Creek							113		204	317
	Eklutna tailrace				727						727
	Fleming Spit				174						174
	Kachemak Bay	40	150		3,017						3,207
	Ninilchik River							273		70	343
	Resurrection Bay				3,103						3,103
	Ship Creek				3,261			418		833	4,512
Cook Inlet Totals		40	150		12,112			1,003		1,412	14,717
Kodiak											
KRAA	Pillar Creek				120		41	139			300
Kodiak Totals					120		41	139			300
Statewide Totals		14,531	18,654	29,187	24,448	127	5,440	11,376	40,222	1,480	145,465

Table 29.—Estimated sockeye salmon returns to Alaska hatcheries in 2008, 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	Burnett Inlet		650					50			700
	Neck Lake		1,840		25	1		164			2,030
	Hugh Smith Lake									3,400	3,400
DIPAC	Snettisham	523	27,501		106		205	8,739	53,350		90,424
	Sweetheart Lake	67	2,062			3,406					5,535
	Stikine River ^a										
	Taku River ^a										
MIC	Tamgas Creek							86	50		136
Southeast Totals		590	32,053		131	3,407	205	9,039	53,400	3,400	102,225
Prince William Sound											
PWSAC	Main Bay	56,557	778,684		700		5,000	10,659			851,600
	Gulkana I and II										
	Paxson Lake		8,939				50,842	18,650		14,266	92,697
	Crosswind Lake		11,279				64,158			9,592	85,029
	Summit Lake		1,064				6,053			2,357	9,474
Prince William Sound Totals		56,557	799,966		700		126,053	29,309		26,215	1,038,800
Cook Inlet											
CIAA	Trail Lakes										
	Bear Lake	54,191			5,400		678	4,444	31,384	8,550	104,647
	Big Lake		5,000		17	17	145			12,900	18,079
	Hidden Lake		11,100		1,700	1,800		1,900		7,500	24,000
	Leisure/Hazel Lakes	62,761			650	4,900	103		1,907		70,321
	Tutka Bay						5,350	150	14,604		20,104
	Kirschner Lake	1,174					2,000		11,588		14,762
PGH	Port Graham					500			29,353		29,853
Cook Inlet Totals		118,126	16,100		7,767	7,217	8,276	6,494	88,836	28,950	281,766
Kodiak											
KRAA	Kitoi Bay	62,043			300				4,275	3,500	70,118
	Pillar Creek										
	Spiridon Lake	176,098	68,316								244,414
	Foul Bay	5,534									5,534
	Waterfall Bay	164									164
Kodiak Totals		243,839	68,316		300				4,275	3,500	320,230
Statewide Totals		419,112	916,435		8,898	10,624	134,534	44,842	146,511	62,065	1,743,021

^aData not available in time for publication.

Table 30.—Estimated “other” enhanced returns to Alaska hatcheries in 2008, 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										
KTHC	Deer Mountain	Steelhead					5			5
Southeast Totals							5			5
Cook Inlet										
ADF&G	Ship Creek Hatchery Complex	Arctic char		4,149			126			4,275
		Arctic grayling		1,311			143			1,454
		Landlocked salmon		8,488						8,488
		Rainbow trout		40,525			2,881			43,406
Cook Inlet Totals				54,473			3,150			57,623
Statewide Totals				54,473			3,155			57,628

Table 31.—Summary of salmon production in 2008 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	150
Kake Schools	Pink	500
Petersburg High School	Pink	
UAF School of Fisheries and Ocean Sciences	Pink	20,000 fry
UAF School of Fisheries and Ocean Sciences	Sockeye	
Southcentral		
Abbott Loop Elementary	Coho	500
ADF&G Aquatic Ed. Anchorage Lobby	Coho	500
Alpenglow Elementary	Coho	500
Anchorage Lutheran	Coho	500
Aquarian Charter	Coho	500
Alaska Sealife Center	BY06 Chinook	
Alaska Sealife Center	BY07 Chinook	145,000 fry
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
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
Creekside Park Elementary	Coho	500
Denali Elementary	Coho	1000
Eagle Academy	Coho	500
Eagle River Elementary	Coho	500
East High School	Coho	500
Fairview Elementary	Coho	500
Finger Lake Elementary	Coho	500
Fireweed Secondary	Coho	500
Girdwood Jr. High	Coho	500

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Table 31.–Page 2 of 4.

Area/Permittee	Species	Maximum number to be released
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
Hermon Hutchens Elementary	Coho	500
Homer Flex High School	Coho	500
Homer High School	Coho	600
Homestead Elementary	Coho	500
Houston High School	Coho	500
Houston Middle School	Coho	500
Huffman Elementary	Coho	500
Iditarod Elementary	Coho	500
Inlet View Elementary	Coho	1000
Jesse Lee Home	Coho	500
Kaleidoschope 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
Kincaid Elementary	Coho	500
King Career Center	Coho	500
Klatt Elementary	Coho	500
Lake Hood Elementary	Coho	1000
Lake Otis Elementary	Coho	500
McNeill Canyon 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	1000
Muldoon Elementary	Coho	500
Nanwalek School	Coho	500
Nikisky/North Stary Elementary	Coho	500
Ninilchik School	Coho	500
North Star RTC	Coho	500
Northern Lights ABC	Coho	500
Northern Pacific Academy	Coho	500

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Table 31.–Page 3 of 4.

Area/Permittee	Species	Maximum number to be released
Northwood Elementary	Coho	500
Nunaka Valley Elementary	Coho	500
Ocean View Elementary	Coho	500
O'Malley Elementary	Coho	500
Orion Elementary	Coho	500
Pioneer Peak Elementary	Coho	500
Polaris K12	Coho	500
Rabbit Creek Elementary	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
Soldotna Middle 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	500
Susitna Elementary	Coho	500
Susitna Valley High School	Coho	500
Swanson Elementary	Coho	1000
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
Wasilla High School	Coho	500
Wasilla Middle School	Coho	500
West Homer Elementary	Coho	500
Williwaw Elementary	Coho	500
Winterberry Charter	Coho	500

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Table 31.–Page 4 of 4.

Area/Permittee	Species	Maximum number to be released
Interior		
Arctic Light Elementary	Coho	500
Badger Road Elementary	Coho	500
Ben Eielson Jr/Sr High School	Coho	500
Delta Junction Elementary	Coho	1000
Joy Elementary	Coho	500
Ladd Elementary	Coho	500
Nenana City School	Coho	500
Nordale Elementary	Coho	500
Pearl Creek Elementary	Coho	500
Salcha Elementary	Coho	500
Tok School	Coho	500
Two Rivers Elementary	Coho	500
University Park Elementary	Coho	500
Weller Elementary	Coho	500
Wood River Elementary	Coho	500
Western		
Akhiok 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
Ouzinkie School	Coho	500
Peterson Elementary	Coho	500
Port Lions School	Coho	500
St. Mary's School	Coho	500
Arctic-Yukon-Kuskokwim		
Aleknagik School	Coho	1000
Dillingham Elementary	Coho	1500
Dillingham High School	Coho	500
Dillingham Middle & High School	Coho	500
Dillingham Middle School	Coho	500
Dillingham Office for Public Education	Coho	500
Nome Elementary School	Coho	250

Table 32.—Updated pink salmon returns to Alaska hatcheries in 2007, including common property harvest, as reported by operators.

		Common Property Harvest				Personal Use/ Subsistence	Cost Recovery				Total
		Seine	Gillnet	Troll	Sport		Other	Brood	Harvest	Escapement	
Area/Operator/Location											
Southeast											
AKI	Port Armstrong	537,766				22,100	66,315	583,792		1,209,973	
NSRAA	Medvejie					700	1,226		800	2,726	
SJC	Sitka	46,000					5,621	51,294		102,915	
Southeast Totals		583,766				22,800	73,162	635,086	800	1,315,614	
Prince William Sound											
PWSAC	Armin F. Koernig	12,449,638				64,500	200,716	3,040,328		15,755,182	
	Wally Noerenberg	3,774,922	56,406			5,000	231,438	3,472,456		7,540,222	
	Cannery Creek	5,638,233				70,000	278,619	1,443,191		7,430,043	
VFDA	Solomon Gulch	19,580,594			27,537	80,000	212,044	4,005,621	2,010	23,907,806	
Prince William Sound Totals		41,443,387	56,406		27,537	219,500	922,817	11,961,596	2,010	54,633,253	
Cook Inlet											
PGHC	Port Graham					8,000		112,801	15,000	135,801	
Cook Inlet Totals						8,000		112,801	15,000	135,801	
Kodiak											
KRAA	Kitoi Bay	6,211,529				772	44,250	283,337	1,673,338	8,223,226	
Kodiak Totals		6,211,529				772	44,250	283,337	1,673,338	8,223,226	
Statewide Totals		48,238,682	56,406		27,537	8,772	286,550	14,382,821	27,810	64,307,894	

Table 33.—Updated chum salmon returns to Alaska hatcheries in 2007, including common property harvests, as reported by operators.

		Common Property Harvest									
Area/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Whitman Lake										
	Nakat Inlet (summer)	19,000	214,600								233,600
	Anita Bay (summer)	96,100	278,800								374,900
	Kendrick Bay (summer)	674,500	57,400								731,900
	Neets Bay (summer)	337,300	155,900	3,900			33,854	72,746	723,247		1,326,947
	Neets Bay (fall)	23,300	35,900	1,000			10,800	37,800	126,215		235,015
	Nakat Inlet (fall)	18,800	83,100								101,900
NSRAA	Medvejie	104,985	105,209	166,602			15,384	55,007	304,495	300	751,982
	Hidden Falls	500,924		7				125,754	600,409		1,227,094
	Haines projects		2,272					1,413		2,037	5,722
DIPAC	Macaulay (Gastineau)	22,562	513,347		1,900		10,000	128,681	717,916		1,394,406
	Amalga	14,660	250,941						874,598		1,140,199
	Limestone Inlet	5,406	107,212								112,618
	Boat Harbor	8,893	409,066								417,959
KNFC	Gunnuk Creek	13,099		62			3,675	27,189		500	44,525
	Southeast Cove	10,718		51			205	574	24,744		36,292
AKI	Port Armstrong	7,552					40	10,269	19,897		37,758
SJC	Sitka	13,245	7,882	12,482			558	2,360	25,220		61,747
MIC	Tamgas Creek	25,000	80,000				50	6,300	4,842		116,192
Southeast Totals		1,896,044	2,301,629	184,104	1,900		74,566	468,093	3,421,583	2,837	8,350,756
Prince William Sound											
PWSAC	Wally Noerenberg	471,298	1,205,926		1,000		3,000	167,562	926,847		2,775,633
	Pt. Chalmers	739,173									739,173
	Sawmill Bay	42,445							173,869		216,314
Prince William Sound Totals		1,252,916	1,205,926		1,000		3,000	167,562	1,100,716		3,731,120
Kodiak											
KRAA	Kitoi Bay	209,446					8,674	24,739	11,280	2,000	256,139
Kodiak Totals		209,446					8,674	24,739	11,280	2,000	256,139
Statewide Totals		3,358,406	3,507,555	184,104	2,900		86,240	660,394	4,533,579	4,837	12,338,015

Table 34.—Updated coho salmon returns to Alaska hatcheries in 2007, 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	500	14,300	3,000			60	3,750	2,600		24,210
	Anita Bay		8,100	9,400	600						18,100
	Nakat	1,600	6,500	16,900							25,000
	Neets Bay	3,000	16,300	79,400			500		33,100		132,300
	Burnett Inlet	1,800	5,200	800	500			7,620			15,920
	Neck Lake	1,100	12,800	1,500	4,200		2,800		21,400		43,800
	Crystal Lake Hatchery		100	800	100			1,305			2,305
NSRAA	Medvejie	954	1,115	1,464	624		102	375	806		5,440
	Hidden Falls	6,476		20,005	1,983		2,659	10,167	15,072		56,362
	Deer Lake	972		13,771	1,098		3,080		16,211		35,132
AKI	Port Armstrong	5,585	87	80,377	4,345		2,805	3,627	49,318		146,144
KNFC	Gunnuk Creek			19	6		2	22		40	89
DIPAC	Macaulay (Gastineau)	397	724	7,463	2,030		2,684	463	11,534		25,295
KTHC	Deer Mountain	675	1,121	518	505	19	698	320		452	4,308
SJC	Sitka			3,131			3,576	250			6,957
POWHA	Klawock Hatchery	5,587		23,944	1,188		5,862	3,141	9,592	8,208	57,522
MIC	Tamgas Creek	4,000	22,500	39,912	2,100		600	1,400	14,500		85,012
Southeast Totals		32,646	88,847	302,404	19,279	19	25,428	32,440	174,133	8,700	683,896
Prince William Sound											
PWSAC	Wally Noerenberg	24,602	60,982		2,500		2,000		11,975		102,059
	Cordova/Whittier/Chenega				21,850			129			21,979
VFDA	Solomon Gulch	50,800			70,917		200	3,364	17,748		143,029
Prince William Sound Totals		75,402	60,982		95,267		2,200	3,493	29,723		267,067
Cook Inlet											
CIAA	Trail Lakes		48				150	417		400	1,015
ADF&G	Ship Creek Complex				4,155			535		254	4,944
	Bird Creek				3,287						3,287
	Homer Spit				4,617						4,617
	Resurrection Bay				28,177			191			28,368
	Campbell Creek				618			4			622
	Eklutna tailrace				3,298						3,298
Cook Inlet Totals			48		44,152		150	1,147		654	46,151
Kodiak											
KRAA	Kitoi Bay	125,781			50	474	474	4,736			131,515
	Pillar Creek- road system				1,600						1,600
Kodiak Totals		125,781			1,650	474	474	4,736			133,115
Statewide Totals		233,829	149,877	302,404	160,348	493	28,252	41,816	203,856	9,354	1,130,229

Table 35.—Updated Chinook salmon returns to Alaska hatcheries in 2007, 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	270	330	3,020	1,560		1,700	1,050	6,000		13,930
	Long Lake			150							150
	Neets Bay		45	445	110				970		1,570
	Crystal Lake Hatchery		795	2,660	4,690		110	1,815			10,070
	Anita Bay	4,030	9,350	4,670	340						18,390
	Neets Bay	530	1,090	3,080	1,450				9,330		15,480
NSRAA	Medvejie Creek	1,513	2,307	9,833	2,302	38	1,256	4,589	9,522		31,360
	Hidden Falls	4,704	73	2,074	502		117	2,390	1,014		10,874
AKI	Port Armstrong			153	21		153	526	287		1,140
DIPAC	Gastineau	57	304	338	1,750			213	874		3,536
	Skagway Site		153	81	42		449	227			952
KTHC	Deer Mountain Hatchery		25	72	237			78		80	492
SJC	Sitka			39			43	5			87
MIC	Tamgas Creek	200	300	947	600		150	165	1,450		3,812
NMFS	Little Port Walter	137	25	3,077	143		200	2,632			6,214
Southeast Totals		11,441	14,797	30,639	13,747	38	4,178	13,690	29,447	80	118,057
Prince William Sound											
ADF&G	Ship Creek Complex				2,565						2,565
Prince William Sound Totals					2,565						2,565
Cook Inlet											
ADF&G	Ship Creek Complex										
	Resurrection Bay				3,522						3,522
	Kachemak Bay	28	439		2,057						2,524
	Ship Creek				2,788			371		1,475	4,634
	Fleming Spit				67						67
	Crooked Creek				2,497		178	56		483	3,214
	Ninilchik River							183		83	266
	Eklutna Tailrace				1,084						1,084
	Deception Creek							110		420	530
Cook Inlet Totals		28	439		12,015		178	720		2,461	15,841
Kodiak											
KRAA	Pillar Creek				20		77	83			180
Kodiak Totals					20		77	83			180
Statewide Totals		11,469	15,236	30,639	28,347	38	4,433	14,493	29,447	2,541	136,643

Table 36.—Updated Sockeye salmon returns to Alaska hatcheries in 2007, 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	Burnett Inlet	54	534				14				602
	Neck Lake	70	60				35				165
	Hugh Smith Lake	2,125	5,596							20,364	28,085
DIPAC	Snettisham	19,498	30,073			203		7,071	72,569		129,414
	Sweetheart Lake	2,024	1,994			4,515					8,533
	Stikine River		61,507								61,507
	Taku River		3,933								3,933
MIC	Tamgas Creek							137	50		187
Southeast Totals		23,771	103,697			4,718	49	7,208	72,619	20,364	232,426
Prince William Sound											
PWSAC	Main Bay	25,551	793,693		500		12,000	8,285	321,095		1,161,124
	Gulkana I and II										
	Paxson Lake		35,808				15,268	20,640		2,000	73,716
	Crosswind Lake		52,770				16,996			5,506	75,272
	Summit Lake		5,654				1,909			502	8,065
Prince William Sound Totals		25,551	887,925		500		46,173	28,925	321,095	8,008	1,318,177
Cook Inlet											
CIAA	Trail Lakes – Bear Lake	12,000			3,300			3,520	7,000	7,000	32,820
	Big Lake		14,000		100	400		2,514		19,000	36,014
	Hidden Lake		15,500		2,500	2,000		2,720		10,000	32,720
	Leisure/Hazel Lakes	83,802			650	4,900	501		22,586		112,439
	Tustumena Lake		212,000		4,200	17,000				101,000	334,200
	Kirschner Lake	7,725					2,000		27,719		37,444
Cook Inlet Totals		103,527	241,500		10,750	24,300	2,501	8,754	57,305	137,000	585,637
Kodiak											
KRAA	Kitoy Bay	33,088			115	162			455	1,870	35,690
	Pillar Creek										
	Ruth Lake	2,337					130				2,467
	Settler's Cove					150					150
	Spiridon Lake	99,769	71,572				300				171,641
	Foul Bay	703									703
	Waterfall Bay						300				300
Kodiak Totals		135,897	71,572		115	312	730		455	1,870	210,951
Statewide Totals		288,746	1,304,694		11,365	29,330	49,453	44,887	451,474	167,242	2,347,191

Table 37.—Updated “other” enhanced fish returns to Alaska hatcheries in 2007, 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		3,558			154			3,712
		Statewide lakes		1,036			129			1,165
				33,880			4,543			38,423
				8,649						8,649
Cook Inlet Totals				47,123			4,826			51,949
Statewide Totals				47,123			4,826			51,949

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 Parsely 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	Lon Garrison Scott Wagner Todd Buxton	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) 463-5114	(907) 463-3213 (907) 463-3213	Macaulay Snettisham ^a Sheep Creek	Andrew Ollenberg Kevin Steck	Eric Prestegard	Eric_prestegard@dipac.net andrew_ollenberg@dipac.net kevin_steck@dipac.net
P POWHA	PO Box 554	Craig, AK 99921	(907) 755-2231	(907) 755-2440	Prince of Wales ^a	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		daniel.goodness@gmail.com
P KNFC	P.O. Box 523	Kake, AK 99830	(907) 785-6460	(907) 785-6475	Gunnuk Creek	John Oliva		gunnukcreek@hughes.net
P AKI	P.O. Box 21990	Juneau, AK 99802	(907) 586-3443 (907) 586-2228	(907) 586-2236 (907) 586-2228	Port Armstrong	Ben Contag	Sam Rabung	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	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) 424-7511	(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.pwsac@ak.net cch.pwsac@ak.net
P VFDA	PO Box 125	Valdez, AK 99686	(907) 835-4874 (907) 835-1329	(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) 288-3688	(907) 283-9433 (907) 288-3663	Trail Lakes ^a Tutka ^a	Tom Prochazka	Gary Fandrei	gfandrei@ciaanet.org tprochazka_thl@ciaanet.org
P PGH	PO Box 5543	Port Graham, AK 99603	(907) 284-2233	(907) 284-2238	Port Graham		Patrick Norman	pnormanvc@hotmail.com
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@alaska.gov andrea.tesch@alaska.gov
Kodiak								
R KRAA	PO 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	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 ^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
		Gastineau	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, Chinook, 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	
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		sockeye	
		Gulkana ^a	42		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.ciaa.net
		Tutka ^a	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 ^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	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) hatcheries, P=Nonassociation 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 2008, in millions of eggs.

Region/Operator/Location		Pink	Chum	Combined Pink & Chum	Coho	Chinook	Sockeye	Other	Total
Southeast									
SSRAA	Whitman Lake		44.30		3.40	1.50			49.20
	Neets Bay		84.00		5.00	2.00			91.00
	Burnett Inlet				2.50		2.70		5.20
	Crystal Lake ^a								
NSRAA	Hidden Falls		91.00		6.10	3.80			100.90
	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	121.00		1.50	0.95			173.45
	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			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 ^c		136.30	445.10	65.00	34.17	16.45	43.20	0.12	740.35
Prince William Sound									
PWSAC	Armin F. Koernig	162.00	17.00						179.00
	Wally Noerenberg	148.00	131.00		4.00	4.00			287.00
	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 ^c		692.00	148.00		6.00	4.30	47.75		898.05
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		235.00			6.16	4.00	50.01		295.17
Kodiak									
KRAA	Kitoi Bay	215.00	25.00		2.30		0.60		242.90
	Pillar Creek				0.50	0.30	20.00	.09	20.89
Kodiak Totals ^c		215.00	25.00		2.80	0.30	20.60	.09	263.79
Statewide Totals ^c		1,278.30	618.10	65.00	49.13	25.05	161.56	0.21	2,197.36

^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, not to exceed 2.0 million Chinook.

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