

# **Alaska Salmon Fisheries Enhancement Program 2012 Annual Report**

by

**Lorraine Vercessi**

March 2013

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



## Symbols and Abbreviations

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

***FISHERY MANAGEMENT REPORT NO. 13-05***

**ALASKA SALMON FISHERIES ENHANCEMENT PROGRAM  
2012 ANNUAL REPORT**

by

Lorraine Vercessi

Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau

March 2013

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

The state of Alaska initiated its salmon fisheries enhancement program in response to depressed commercial salmon fisheries. Regions are designated around the state for the purpose of fisheries planning. Enhancement efforts are guided by regional comprehensive salmon enhancement plans. 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, take or transfer eggs or fish, or release any fish into Alaska waters. Pathology, genetic, coded wire tag, and otolith processing laboratories are maintained to provide inseason information to Alaska Department of Fish and Game fishery managers and technical expertise to the private sector. All returning adult fish are available for harvest in Alaska's common property fisheries open to the public.

In 2012, hatchery operators collected an estimated 1.8 billion eggs and released nearly 1.7 billion juvenile fish. Over 47 million hatchery-propagated salmon returned with the majority (24 million) being pink salmon produced by hatcheries in Prince William Sound. The preliminary total statewide commercial salmon harvest was more than 127 million fish and an estimated 120 million salmon harvested in the commercial common property fishery. Approximately 37 million fish, or 31% of the commercial common property harvest, were produced by the Alaska salmon hatcheries. About 7 million salmon were harvested for hatchery cost recovery. The return of hatchery salmon provided an estimated \$149 million, or 28%, of the exvessel value of the statewide commercial common property harvest.

Key words: Alaska salmon fisheries enhancement, salmon hatchery, annual report, private nonprofit corporation, Southeast Alaska, Prince William Sound, Cook Inlet, Kodiak, egg take, cost recovery, Chinook, pink, chum, coho, sockeye

# **INTRODUCTION**

When state management of Alaska's salmon fisheries began in 1960, salmon abundance was historically low. In time, it was realized that effective fisheries management alone was not increasing abundance. In response to the historically low commercial salmon fishery harvests and the resulting economic loss from reduced commercial harvest, the State of Alaska initiated a salmon fisheries enhancement program. In 1971, the legislature created the Division of Fisheries Rehabilitation, Enhancement, and Development (FRED), within Alaska Department of Fish and Game (ADF&G), which was tasked with planning the rehabilitation, enhancement, and development of all aspects of the state's fisheries, to insure perpetual and increasing production and use, and encourage investment by private enterprise (AS 16.05.092). Along with the efforts of FRED Division, the state promoted resource conservation by limited entry fishing beginning in 1973, followed by the creation of the private nonprofit (PNP) hatchery program in 1974. The intent of the program was to meet the public need in fisheries by conserving wild stock salmon while contributing to the harvest by increasing salmon abundance through enhancement efforts (Alaska Legislature 1974).

In 1976, law was enacted that directed the commissioner of ADF&G to designate regions around the state for the purpose of fisheries enhancement planning (AS 16.10.375). Within each designated region, a regional planning team (RPT) assembled, consisting of ADF&G personnel and representatives of the qualified regional association comprised of commercial, sport, and subsistence fishermen, processors, and members of the local communities. The primary purpose of a RPT is to develop a regional comprehensive salmon enhancement plan (CSEP) for their respective region (5 AAC 40.300). Each regional CSEP is designed to guide the enhancement efforts regarding development and protection of salmon resources by providing production goals, objectives, and strategies. Plans are developed with consideration of the needs of fisheries user groups and communities of the region. The RPTs also review hatchery permits, ongoing and

proposed fisheries enhancement projects, and provide recommendations to the commissioner on such subjects. RPTs continue to be responsible for ensuring that the public has the opportunity to review and provide comment on fisheries enhancement projects.

In 1993, FRED Division merged with the ADF&G Division of Commercial Fisheries, which continues to oversee and regulate all state and private sector fisheries enhancement and rehabilitation projects. Alaska has benefited from its robust hatchery program along with sustainable, healthy, well-managed salmon stocks. The success of this program is attributable to the development of statutes, regulations, and policies that require hatcheries to be located away from important natural salmon stocks, the use of local broodstock sources, and priorities in fisheries management that provide protection for naturally occurring stocks. ADF&G maintains pathology, genetic, coded wire tag, and otolith processing laboratories that provide inseason information to ADF&G fishery managers and technical expertise to the private sector. Constant vigilance on the part of ADF&G and hatchery operators to improve the program through ongoing analysis of hatchery performance, along with the continued strength, support, and infrastructure of the RPTs, assures that Alaska fisheries continue to benefit the economy and well-being of the people of the state.

## **HATCHERIES**

Protection of Alaska's natural salmon stocks requires stringent permitting processes. Before permitting the construction or operation of a private nonprofit salmon hatchery in Alaska, an extensive review of the proposed hatchery, including the suitability of the proposed site, hatchery design, contribution to Alaska's common property fisheries (CPF), and the potential effects on natural salmon stocks, is conducted. The department provides fisheries management considerations, among other information, to accompany applications for RPTs to review. The RPT must determine if the proposed hatchery is compatible with the regional comprehensive salmon enhancement plan. A public hearing and comment period provides time for local community members and fisheries stakeholders to ask questions and provide comments on all aspects of the proposed facility. The ADF&G commissioner renders a final decision for the hatchery permit, based on the completed review, as described in regulations for PNP salmon hatchery permit application procedures (5 AAC 40.110–40.220).

Prior to a hatchery conducting fish culture operations, additional review and permitting is required for the take or transfer of eggs or fish, or release of any fish into Alaska waters, as required by regulation (5 AAC 41.001–41.100). Geneticists, pathologists, and biologists review all portions of each specific hatchery project prior to the issuance of a permit. Reviews are based on established department policies that provide guidelines and criteria for their respective areas of expertise for the purpose of developing a rigorous and healthy fisheries enhancement program while minimizing potentially negative effects on wild stocks.

Currently, Alaska salmon fisheries enhancement projects are implemented by the following active facilities:

- 18 PNP corporation-owned and operated hatcheries.
- 11 state-owned hatcheries operated under contract by PNP corporations.
- 3 federally regulated hatcheries.
- 3 state-owned and operated hatcheries.



All returning adult fish are available for harvest in Alaska's CPF open to the public (commercial, sport, personal use, and subsistence). PNP hatcheries produce fish primarily for commercial common property harvest (CPH), as well as for harvest by the hatchery to pay for operations, called cost-recovery harvest (CRH). The ADF&G Division of Sport Fish operates three hatcheries that produce juvenile fish, including salmon, trout, char, and grayling, intended for both salt and fresh water recreational fisheries at many locations along the coast and in numerous interior lakes. Two federal hatcheries that are lower-production facilities focus on research. One federally recognized tribe, the Metlakatla Indian Community, operates a hatchery within the federal Annette Island Reserve in southern Southeast Alaska.

Hatchery annual management plans are developed cooperatively by each hatchery permit holder and ADF&G fishery managers to guide the current year operations regarding egg take, stocking, production goals, and harvest management of hatchery returns, which includes fish harvested in CPF and by hatcheries for use as broodstock and cost recovery.

## **ANNUAL REPORT**

Hatchery permit holders are required to submit an annual report that includes details of egg takes, releases, and adult returns (AS 16.10.470). The annual report includes production information specific to the species and stock used, beginning with the number of spawners (broodstock) and eggs collected, including the survivals and releases of the previous years' progeny with an inventory of remaining juvenile fish on hand, and projected returns from previous releases.

The number of eggs collected each year for use at hatcheries is limited by the permitted capacity, but is also dependent on the number of adult fish returning to the hatchery that are available for use as broodstock. In years when the return is small, it is more difficult for hatcheries to achieve egg-take goals necessary for the expected fish production. In general, hatcheries operate at planned capacities and the average number of eggs collected has been generally consistent for some time. Although some permitted capacities have increased in recent years, egg takes in 2012 were average due to lower-than-average returns of adult salmon to many areas (Figure 1). For the most recent year, there was a slight increase in the reported number of juvenile fish released as a result of recent years' increased egg takes, although average annual releases have remained about the same for the last decade (Figure 2). The 2012 return was the fourth lowest of the last decade (Figure 3). However, recent increases in releases may increase returns over time.

Prince William Sound and Southeast Alaska have the greatest amount of salmon fisheries enhancement activity in the state, with pink and chum salmon the predominant species produced (Figures 4 and 5). The Cook Inlet and Kodiak areas also have significant fisheries enhancement programs. The Arctic-Yukon-Kuskokwim region has a specific program for sport fishery enhancement that is orchestrated by the ADF&G Division of Sport Fish. This program is centralized in the Fairbanks area and stocks fish into numerous lakes in the region.

The majority of hatchery production is harvested commercially, benefiting the economy of communities across much of the state (Figure 6). The contribution of hatchery-produced salmon to the commercial harvest enhances fisheries and can decrease fishing pressure on naturally spawned salmon stocks (Figure 7). Despite lower numbers of returning adult salmon in recent years, the exvessel value of the commercial salmon harvest continues to increase (Figure 8). Chum salmon made up over 50% of the exvessel value of hatchery returns, followed by pink salmon. The proportion of the economic contribution for each of the hatchery-produced salmon

species harvested in commercial CPF in 2012 is illustrated in Figure 9. Hatchery-produced salmon contribute significantly to the commercial salmon fisheries in Alaska (Figure 10). A map with the locations of hatcheries within Alaska is provided in Figure 11.

Hatchery industry acronyms used in this publication are listed in Table 1. The most recent Alaska hatcheries' production and fisheries enhancement data, for 2012, is provided in Tables 2–19. Data is arranged based on salmon enhancement planning and management regions and species. The 2012 summaries are provided in Tables 2–4. Commercial harvest (common property and cost-recovery harvests) and value data with details regarding the economic contribution of hatchery-produced fish are provided in Tables 5–7. Hatchery data for reported egg takes, releases, returns, and next year's projected returns have been arranged by region and species in Tables 8–11. Details of the estimated returns, by gear group and other user groups have been arranged for each species in Tables 12–17.

A summary of all fish resource permits that were issued in 2012 that allowed for the collection of broodstock and/or eggs is provided in Table 18. Multiple types of salmon fish resource permits are issued each year to accredited institutions of higher learning and for cooperative governmental projects for research, bioenhancement, educational, vocational, and scientific purposes. Eggs collected under scientific and educational permits are for classroom incubation projects and in many cases are provided by hatcheries and not released.

Each year, hatchery operators include in their annual report updates to the previous years' estimated adult salmon return numbers that were previously reported (Vercessi 2012). The updated numbers are highlighted in tables 19–24. Annual summaries are provided in Tables 25–31, including summaries of eggs collected, juvenile releases, adult returns by year, and commercial harvest summaries.

Additional information, such as Alaska hatchery operators contact information, active hatchery permits, permitted capacities by region and hatchery, and Alaska fisheries enhancement program timeline of events can be found in Tables 32–35.

## **HIGHLIGHTS IN 2012**

- The Alaska salmon fisheries enhancement program return was estimated at over 47 million fish in 2012. The majority of the return was an estimated 24 million hatchery-produced pink salmon in Prince William Sound. The next largest return was nearly 12 million chum salmon produced by hatcheries in Southeast Alaska.
- The preliminary total statewide commercial salmon harvest was 127 million fish, with an estimated exvessel value of \$526 million. An estimated 44 million hatchery-produced salmon were harvested commercially, with 37 million harvested in the commercial CPF with a preliminary exvessel value of \$149 million.
- Statewide, the fisheries enhancement program contributed nearly 67% of the chum, 36% of the pink, 19% of the coho, 17% of the Chinook, and 6% of the sockeye salmon to the commercial CPH.
- Statewide, approximately 28% of the total exvessel value of the commercial CPH of salmon is attributed to the fisheries enhancement program. By species, this accounts for 61% of the chum, 38% of the pink, 20% of the coho, 18% of the Chinook, and 9% of sockeye salmon exvessel value.

- Overall, the hatchery cost-recovery harvest decreased by nearly 5 million fish and the contribution to the common property harvest increased by more than 4 million fish. Compared to 2011, the contribution of hatchery-produced salmon to the commercial CPF increased by about 13%.
- An estimated 300,000 hatchery-produced salmon were harvested among personal use, sport, and subsistence fisheries. Sport anglers harvested an estimated 404,747 hatchery-produced fish represented by 8 species: Chinook, coho, pink, chum, and sockeye salmon; rainbow trout; arctic char; and arctic grayling.
- Hatchery-produced sockeye salmon are the greater part of the noncommercial CPF (sport, personal use, and subsistence), with over 152,000 harvested statewide. Fisheries enhancement projects also provided a significant contribution of coho salmon to the noncommercial CPF, with an estimated 107,000 fish harvested. Chinook, pink, and chum salmon were also harvested in noncommercial CPF.
- A new Division of Sport Fish Hatchery, the Ruth Burnett Sport Fish Hatchery, was brought into production in Fairbanks.
- In 2013, over 65 million hatchery-produced fish are projected to return to Alaska.

## REGIONAL CONTRIBUTION

The contribution of hatchery-produced salmon to Alaska fisheries in 2012 (Tables 5, 6, 12–16):

**Southeast:** Returning hatchery-produced salmon accounted for 27% of the salmon in the commercial CPF; 84% of the chum, 27% of the coho, 21% of the Chinook, 12% of the sockeye, and 1% of the pink salmon can be attributed to fisheries enhancement projects. The harvest of hatchery-produced salmon contributed an estimated \$72 million, or 42%, of the exvessel value of salmon in the commercial CPF. In Southeast, the majority of the noncommercial CPF contribution was coho salmon, with an estimated 49,000 fish harvested.

**Prince William Sound:** An estimated 25 million salmon returned from hatchery releases, accounting for an estimated 80% of the total number of salmon in the commercial CPH; 88% of the chum, 84% of the pink, 44% of the sockeye, and 5% of the coho salmon in the commercial CPH were hatchery-produced fish. In addition, hatchery-produced salmon contributed an estimated \$71 million, or 63%, of the exvessel value of salmon in the commercial CPH. Sockeye salmon were the bulk of the noncommercial CPF harvest, with an estimated 136,000 fish harvested in the Prince William Sound area.

**Cook Inlet:** The fisheries enhancement program accounted for approximately less than 1% of the sockeye salmon in the commercial CPH and contributed an estimated \$196,000, or 0.5%, of the exvessel value of salmon in the commercial CPH. Cook Inlet area noncommercial CPF harvest of 44,000 fish was dominated by coho salmon, with estimates of over 28,000 hatchery-produced fish harvested.

**Kodiak:** Hatcheries in the salmon fisheries enhancement program accounted for 12.5% of the total number of salmon in the commercial CPH; 25% of the chum, 22% of the coho, 14% of the sockeye, and 12% of the pink salmon in the commercial CPH were hatchery-produced fish. Additionally, the fisheries enhancement program contributed an estimated \$6 million, or 13%, of the exvessel value of salmon in the commercial CPH. An estimated 8,000 hatchery-produced coho salmon were harvested in the noncommercial CPF.

## **REFERENCES CITED**

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## **TABLES AND FIGURES**

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

Acronym	Organization
ADF&G	Alaska Department of Fish and Game
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
POWHA	Prince of Wales Hatchery Association
PWSAC	Prince William Sound Aquaculture Corporation
SSSC	Sitka Sound Science Center
SSRAA	Southern Southeast Regional Aquaculture Association
VFDA	Valdez Fisheries Development Association

Table 2.—Estimated egg takes for Alaska hatcheries, by region, in millions, 2012.

Area	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast	10.52	19.36	31.26	77.20	570.19	0.00	708.54
Prince William Sound	0.03	46.95	3.01	644.32	165.00	0.00	859.32
Cook Inlet	1.60	12.75	1.56	21.77	0.00	2.08	39.76
Kodiak	0.33	5.07	2.36	117.97	26.92	0.09	152.74
Arctic/Yukon/Kuskokwim	0.05	0.00	0.07	0.00	0.00	0.65	0.77
Totals <sup>a</sup>	12.52	84.13	38.27	861.27	762.12	2.81	1,761.13

<sup>a</sup> Some figures may not total exactly due to rounding.

Table 3.—Estimated juvenile releases from Alaska hatcheries, by region, in millions, 2012.

Area	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast	7.68	15.11	19.92	101.50	470.84	0.00	615.05
Prince William Sound	0.05	33.90	2.90	673.53	140.30	0.00	850.67
Cook Inlet	1.79	8.94	1.21	11.25	0.00	1.17	24.36
Kodiak	0.11	3.08	0.67	156.64	22.24	0.06	182.82
Arctic/Yukon/Kuskokwim	0.00	0.00	0.00	0.00	0.00	0.18	0.18
Totals <sup>a</sup>	9.63	61.04	24.69	942.92	633.39	1.41	1,673.08

<sup>a</sup> Some figures may not total exactly due to rounding.

Table 4.—Estimated total returns attributed to Alaska hatcheries (including common property harvest, cost recovery harvest, broodstock, and escapement), by region, 2012.

Area	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast	86,451	247,417	837,882	557,727	11,719,588	0	13,499,065
Prince William Sound	1,938	1,843,480	35,375	24,214,663	3,572,443	0	29,667,899
Cook Inlet	4,506	179,537	29,932	0	0	117,394	331,369
Kodiak	2,289	329,738	75,291	3,226,802	252,467	0	3,886,587
Arctic/Yukon/Kuskokwim	0	0	0	0	0	0	0
Totals <sup>a</sup>	95,184	2,600,172	978,480	27,999,192	15,544,498	117,394	47,334,920

<sup>a</sup> Some figures may not total exactly due to rounding.

Table 5.—Alaska (preliminary) commercial harvest of hatchery-produced fish, by region, in thousands of fish, 2012.

Area	Harvest	Chinook	Sockeye	Coho	Pink	Chum	Total <sup>c</sup>
Southeast	Total commercial harvest <sup>a</sup>	282	947	2,084	21,288	12,373	36,974
	Hatchery cost-recovery harvest	15	127	213	111	2,619	3,085
	CCPH <sup>b</sup>	267	828	1,871	21,177	9,754	33,889
	Hatchery-produced fish in CCPH	57	99	498	230	8,141	9,024
	% of hatchery-produced fish in CCPH	21.3%	12.0%	26.6%	1.1%	83.5%	26.6%
Prince William Sound	Total commercial harvest	12	3,690	209	27,234	3,818	34,963
	Hatchery cost-recovery harvest	0	0	0	2,676	270	2,946
	CCPH	12	3,690	209	24,558	3,548	32,017
	Hatchery-produced fish in CCPH	0	1,623	11	20,715	3,127	25,474
	% of hatchery-produced fish in CCPH	0.0%	44.0%	5.1%	84.3%	88.1%	79.6%
Cook Inlet	Total commercial harvest	3	3,321	108	724	325	4,481
	Hatchery cost-recovery harvest	0	115	0	0	0	115
	CCPH <sup>b</sup>	3	3,206	108	724	325	4,366
	Hatchery-produced fish in CCPH	0	19	0	0	0	19
	% of hatchery-produced fish in CCPH	0.0%	0.6%	0.0%	0.0%	0.0%	0.4%
Kodiak	Total commercial harvest	15	2,234	208	16,873	866	20,196
	Hatchery cost-recovery harvest	0	25	2	1,153	1	1,180
	CCPH	15	2,209	206	15,720	865	19,016
	Hatchery-produced fish in CCPH	0	299	46	1,815	218	2,378
	% of hatchery-produced fish in CCPH	0.0%	13.5%	22.4%	11.5%	25.2%	12.5%
Chignik/Aleutian Islands/Alaska Peninsula	Total commercial harvest	13	4,564	157	789	1,067	6,590
	Enhanced Fish in CCPH	0	0	0	0	0	0
	% of hatchery-produced fish in CCPH	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bristol Bay	Total commercial harvest	17	20,557	110	910	666	22,260
	Hatchery-produced fish in CCPH	0	0	0	0	0	0
	% of hatchery-produced fish in CCPH	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arctic-Yukon-Kuskokwim	Total commercial harvest	8	91	255	205	1,051	1,610
	Hatchery-produced fish in CCPH	0	0	0	0	0	0
	% of hatchery-produced fish in CCPH	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total <sup>c</sup>	Total commercial harvest	350	35,404	3,131	68,023	20,166	127,074
	Hatchery cost-recovery harvest	15	267	215	3,940	2,889	7,327
	CCPH	335	35,137	2,916	64,083	17,277	119,747
	Hatchery-produced fish in CCPH	57	2,039	554	22,760	11,486	36,896
	% of hatchery-produced fish in CCPH	17.0%	5.8%	19.0%	35.5%	66.5%	30.8%

Sources: Commercial harvest, data from Eggers et al. 2013.

<sup>a</sup> Total commercial harvest by all commercial gear types, including fish harvested for cost recovery.

<sup>b</sup> CCPH = commercial common property harvest.

<sup>c</sup> Some figures may not total exactly due to rounding.



Table 6.—Estimated exvessel value of the total Alaska commercial harvest (preliminary), by region, in thousands of dollars, 2012.

Area	Harvest <sup>a</sup>	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Value of total commercial harvest	\$16,513	\$9,333	\$18,254	\$30,832	\$96,337	\$171,270
	Value of hatchery-produced fish in CCPH <sup>b</sup>	\$3,323	\$971	\$4,361	\$333	\$63,389	\$72,376
	% value of hatchery-produced fish in CCPH	20.1%	10.4%	23.9%	1.1%	65.8%	42.3%
Prince William Sound	Value of total commercial harvest	\$1,340	\$42,053	\$1,805	\$49,415	\$17,658	\$112,271
	Value of hatchery-produced fish in CCPH	\$0	\$18,492	\$92	\$37,586	\$14,460	\$70,629
	% value of hatchery-produced fish in CCPH	0.0%	44.0%	5.1%	76.1%	81.9%	62.9%
Cook Inlet	Value of total commercial harvest	\$125	\$33,579	\$502	\$901	\$1,526	\$36,633
	Value of hatchery-produced fish in CCPH	\$0	\$196	\$0	\$0	\$0	\$196
	% value of hatchery-produced fish in CCPH	0.0%	0.6%	0.0%	0.0%	0.0%	0.5%
Kodiak	Value of total commercial harvest	\$108	\$17,514	\$839	\$24,162	\$3,958	\$46,581
	Value of hatchery-produced fish in CCPH	\$0	\$2,342	\$185	\$2,600	\$997	\$6,125
	% value of hatchery-produced fish in CCPH	0.0%	13.4%	22.1%	10.8%	25.2%	13.1%
Chignik/Aleutian Islands/ Alaska Peninsula	Value of total commercial harvest	\$183	\$26,986	\$452	\$778	\$3,593	\$31,991
	Value of hatchery-produced fish in CCPH	\$0	\$0	\$0	\$0	\$0	\$0
	% value of hatchery-produced fish in CCPH	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bristol Bay	Value of total commercial harvest	\$201	\$117,175	\$326	\$1,129	\$1,562	\$120,393
	Value of hatchery-produced fish in CCPH	\$0	\$0	\$0	\$0	\$0	\$0
	% value of hatchery-produced fish in CCPH	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arctic-Yukon-Kuskokwim	Value of total commercial harvest	\$105	\$508	\$1,567	\$175	\$4,252	\$6,607
	Value of hatchery-produced fish in CCPH	\$0	\$0	\$0	\$0	\$0	\$0
	% value of hatchery-produced fish in CCPH	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total <sup>c</sup>	Value of total commercial harvest	\$18,575	\$247,147	\$23,745	\$107,393	\$128,886	\$525,745
	Value of hatchery-produced fish in CCPH	\$3,323	\$22,001	\$4,638	\$40,518	\$78,846	\$149,327
	% value of hatchery-produced fish in CCPH	17.9%	8.9%	19.5%	37.7%	61.2%	28.4%

Sources: Commercial harvest, data from Eggers et al. 2013; estimated exvessel values, <http://www.adfg.alaska.gov/static/fishing/PDFs/commercial/12exvessel.pdf>, accessed February 6, 2013.

<sup>a</sup> Total commercial harvest by all commercial gear types, including fish harvested for cost recovery.

<sup>b</sup> CCPH = Commercial common property harvest.

<sup>c</sup> Some figures may not total exactly due to rounding.

Table 7.—Alaska commercial salmon fishery harvest average weights and prices (preliminary), 2012.

Area	Species	Harvest Average	
		Weight (lb)	Price/lb
Southeast	Chinook	13.02	\$4.50
	Sockeye	6.36	\$1.55
	Coho	6.35	\$1.38
	Pink	3.57	\$0.41
	Chum	9.28	\$0.84
Prince William Sound	Chinook	20.94	\$5.33
	Sockeye	6.72	\$1.70
	Coho	8.15	\$1.06
	Pink	3.77	\$0.48
	Chum	6.66	\$0.69
Cook Inlet	Chinook	14.53	\$2.85
	Sockeye	6.70	\$1.51
	Coho	6.20	\$0.75
	Pink	3.45	\$0.36
	Chum	8.17	\$0.57
Kodiak	Chinook	7.37	\$0.97
	Sockeye	5.56	\$1.41
	Coho	6.96	\$0.58
	Pink	3.58	\$0.40
	Chum	7.88	\$0.58
Chignik/Aleutian Islands/Alaska Peninsula	Chinook	14.70	\$0.97
	Sockeye	6.36	\$0.95
	Coho	6.54	\$0.44
	Pink	3.19	\$0.34
	Chum	8.14	\$0.42
Bristol Bay	Chinook	13.90	\$0.85
	Sockeye	6.70	\$1.00
	Coho	5.40	\$0.55
	Pink	3.10	\$0.40
	Chum	6.70	\$0.35
Arctic-Yukon-Kuskokwim	Chinook	15.30	\$0.85
	Sockeye	6.57	\$1.02
	Coho	6.29	\$1.13
	Pink	2.40	\$0.36
	Chum	6.83	\$0.60

Source: Alaska Department of Fish and Game website,  
<http://www.adfg.alaska.gov/static/fishing/PDFs/commercial/12exvesl.pdf>, Accessed February 6, 2013.

Table 8.—Eggs collected at Alaska hatcheries, in millions, 2012 (transferred eggs are listed with the receiving hatchery).

Region/Operator/Hatchery		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southern Southeast								
SSRAA	Burnett Inlet			2.50		22.37		24.87
	Crystal Lake	2.19		0.22				2.40
	Neets Bay			1.30		98.95		100.25
	Whitman Lake	1.17		5.28		43.51		49.96
KTHC	Deer Mountain	0.13		0.17				0.30
POWHA	Klawock River			5.00				5.00
	Port Saint Nicholas	0.33						0.33
MIC	Tamgas Creek	0.56		3.79		12.99		17.34
Southern Southeast Total		4.38	0.00	18.25	0.00	177.83	0.00	200.47
Northern Southeast								
NSRAA	Haines Projects					2.80		2.80
	Hidden Falls	0.90		7.73		106.67		115.29
	Medvejie Creek	3.74		0.47	0.38	64.48		69.06
AKI	Port Armstrong	0.38		2.87	53.60	29.62		86.47
DIPAC	Macaulay	0.82		1.42		123.42		125.67
	Snettisham		19.36					19.36
KNFC	Gunnuk Creek			0.51	19.99	55.15		75.65
SSSC	Sheldon Jackson			0.00	3.24	10.24		13.48
NMFS	Little Port Walter	0.29						0.29
Northern Southeast Total		6.13	19.36	13.01	77.20	392.37	0.00	508.07
Southeast Total		10.52	19.36	31.26	77.20	570.19	0.00	708.54
Prince William Sound								
PWSAC	AFK H				162.00	34.00		196.00
	Cannery Creek				102.00			102.00
	Gulkana I and II		34.85					34.85
	Main Bay		12.10					12.10
	Wally Noerenberg	0.03		0.98	148.00	131.00		280.01
VFDA	Solomon Gulch			2.03	232.32			234.36
Prince William Sound Total		0.03	46.95	3.01	644.32	165.00	0.00	859.32
Cook Inlet								
CIAA	Trail Lakes		12.75	0.63				13.38
	Tutka Bay Lagoon				21.77			21.77
ADF&G	Ship Creek Complex <sup>a</sup>	1.60		0.93			2.08	4.61
Cook Inlet Total		1.60	12.75	1.56	21.77	0.00	2.08	39.76
Southcentral Total		1.62	59.70	4.58	666.09	165.00	2.08	899.08
Kodiak								
KRAA	Kitot Bay		0.80	2.25	117.97	26.92		147.94
	Pillar Creek	0.33	4.27	0.11			0.09	4.80
Kodiak/Westward Total		0.33	5.07	2.36	117.97	26.92	0.09	152.74
Arctic-Yukon-Kuskokwim								
ADF&G	Ruth Burnett	0.05		0.07			0.65	0.77
Arctic-Yukon-Kuskokwim Total		0.05	0.00	0.07	0.00	0.00	0.65	0.77
Statewide Total		12.52	84.13	38.27	861.27	762.12	2.81	1,761.13

Note: Some figures may not total exactly due to rounding.

<sup>a</sup> Ship Creek Complex is the combination of William Jack Hernandez and Fort Richardson sport fish hatcheries.

Table 9.—Alaska hatcheries releases, in millions of fish, as reported by operators, 2012.

Region/Operator/Hatchery/Project		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southern Southeast								
SSRAA	Burnett Inlet			0.23				0.23
	Anita Bay					22.20		22.20
	Neck Lake			1.73				1.73
	Crystal Lake	0.63		0.23				0.86
	Anita Bay	0.44						0.44
	Neets Bay	0.48						0.48
	Neets Bay			2.25		78.70		80.94
	Nakat Inlet					5.90		5.90
	Whitman Lake	0.72		0.31				1.03
	Anita Bay			0.22				0.22
	Kendrick Bay					29.15		29.15
	Neets Bay	0.25		0.57				0.82
	Nakat Inlet			0.30		10.00		10.30
KTHC	Deer Mountain	0.04		0.12				0.17
POWHA	Klawock River			4.54				4.54
	Port Saint Nicholas	0.10						0.10
	Coffman Cove	0.05						0.05
MIC	Tamgas Creek	0.30		1.82		6.93		9.05
Southern Southeast Total		3.01	0.00	12.32	0.00	152.87	0.00	168.20
Northern Southeast								
NSRAA	Haines Projects					3.41		3.41
	Hidden Falls	0.48		2.57		38.33		41.38
	Deer Lake			2.07				2.07
	Takatz Bay					42.66		42.66
	Medvejie Creek	2.56		0.05	0.30	19.04		21.94
	Deep Inlet			0.12		40.51		40.62
	Halibut Point Marine	0.35						0.35
AKI	Port Armstrong	0.25		2.38	82.73	26.46		111.82
DIPAC	Macaulay	0.21		0.31		35.97		36.49
	Amalga Harbor					45.03		45.03
	Auke/Fish creeks	0.37						0.37
	Boat Harbor					18.36		18.36
	Dredge/Twin lakes	0.01						0.01
	Limestone Inlet					14.42		14.42
	Skagway Site	0.20						0.20
	Snettisham		9.00					9.00
	Sweetheart Lake		0.50					0.50
	Tahltan/Tuya lakes		3.72					3.72
	Tatsamenie Lake		1.89					1.89
KNFC	Gunnuk Creek			0.09	15.84	7.29		23.22
	Southeast Cove					18.45		18.45
SSSC	Sheldon Jackson	0.09		0.02	2.63	0.43		3.17
	Deep Inlet					7.63		7.63
NMFS	Little Port Walter	0.15						0.15
Northern Southeast Total		4.67	15.11	7.60	101.50	317.97	0.00	446.85
Southeast Total		7.68	15.11	19.92	101.50	470.84	0.00	615.05

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Region/Operator/Hatchery/Project		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Prince William Sound								
PWSAC	Armin F. Koernig				150.00	29.40		179.40
	Cannery Creek				172.00			172.00
	Gulkana I and II		7.34					7.34
	Crosswind Lake		9.57					9.57
	Summit Lake		5.95					5.95
	Main Bay		11.04					11.04
	Wally Noerenberg			0.87	137.00	74.10		211.97
	Chenega	0.05		0.03				0.07
	Fleming Spit			0.08				0.08
	Port Chalmers					36.80		36.80
	Whittier			0.05				0.05
VFDA	Solomon Gulch			1.88	214.53			216.41
Prince William Sound Total		0.05	33.90	2.90	673.53	140.30	0.00	850.67
Cook Inlet								
CIAA	Trail Lakes							
	Bear Lake		2.49	0.32				2.81
	English Bay Lake		0.21					0.21
	Hazel Lake		1.24					1.24
	Hidden Lake		0.95					0.95
	Kirshner Lake		0.30					0.30
	Leisure Lake		2.07					2.07
	Resurrection Bay		1.31					1.31
	Tutka Bay		0.37					0.37
	Tutka Bay Lagoon				8.10			8.10
	Halibut Cove				3.15			3.15
ADF&G	Ship Creek Complex <sup>a</sup>	1.79		0.89			1.17	3.85
Cook Inlet Total		1.79	8.94	1.21	11.25	0.00	1.17	24.36
Southcentral Total		1.84	42.84	4.11	684.77	140.30	1.17	875.03
Kodiak								
KRAA	Kitoi Bay							
	Big Kitoi Creek			0.08	156.64	22.24		178.97
	Crescent Lake			0.17				0.17
	Jennifer Lake			0.20				0.20
	Little Kitoi		0.56					0.56
	Ruth Lake			0.03				0.03
	Pillar Creek							
	Abercrombie Lake			0.00				0.00
	American R	0.04						0.04
	Barry Lake			0.03				0.03
	Crescent Lake		0.12					0.12
	Dark Lake			0.01				0.01
	Hidden Lake		0.28					0.28
	Island Lake			0.02				0.02
	Katmai Lake			0.04				0.04
	Kodiak Road System						0.06	0.06

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Table 9.—Page 3 of 3.

Region/Operator/Hatchery/Project		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Kodiak (cont.)								
KRAA	Pillar Creek (cont.)	0.03						0.03
	Mayflower Lake			0.01				0.01
	Mission Lake			0.01				0.01
	Monashka R	0.03		0.03				0.07
	Olds R	0.04						0.04
	Potato Lake			0.01				0.01
	Spiridon Lake		1.84					1.84
	Telrod Cove		0.29					0.29
Westward/Kodiak Total		0.11	3.08	0.67	156.64	22.24	0.06	182.82
Arctic-Yukon-Kuskokwim								
ADF&G	Ruth Burnett						0.18	0.18
Arctic-Yukon-Kuskokwim Total		0.00	0.00	0.00	0.00	0.00	0.18	0.18
Statewide Total		9.63	61.04	24.69	942.92	633.39	1.41	1,673.08

Note: Some figures may not total exactly due to rounding.

<sup>a</sup>. Ship Creek Complex is the combination of William Jack Hernandez and Fort Richardson sport fish hatcheries.

Table 10.—Estimated returns to Alaska fisheries enhancement projects (including common property harvests), by species, 2012.

Region/Operator/Hatchery		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southern Southeast								
SSRAA	Burnett Inlet		15,685	151,521				167,206
	Crystal Lake	26,933		3,125				30,058
	Neets Bay			234,105		3,187,195		3,421,300
	Whitman Lake	14,652		97,844		2,001,927		2,114,423
KTHC	Deer Mountain	283		4,872				5,155
POWHA	Klawock River			82,315				82,315
	Port Saint Nicholas	616						616
MIC	Tamgas Creek	949		94,069		273,979		368,997
Southern Southeast Total		43,433	15,685	667,851	0	5,463,101	0	6,190,070
Northern Southeast								
NSRAA	Haines Projects					19,461		19,461
	Hidden Falls	9,472		80,768		1,240,087		1,330,327
	Medvejie Creek	26,082		10,784	12,457	565,113		614,436
AKI	Port Armstrong	2,218		58,332	292,032	172,454		525,036
DIPAC	Macauley	4,167		12,678		4,011,067		4,027,912
	Snettisham		231,732					231,732
KNFC	Gunnuk Creek			7,469	196,142	154,887		358,498
SSSC	Sheldon Jackson	310			57,096	93,418		150,824
NMFS	Little Port Walter	769						769
Northern Southeast Total		43,018	231,732	170,031	557,727	6,256,487	0	7,258,995
Southeast Total		86,451	247,417	837,882	557,727	11,719,588	0	13,449,065
Prince William Sound								
PWSAC	AFK H				3,755,920			3,755,920
	Cannery Creek				4,142,425			4,142,425
	Gulkana I and II		539,571					539,571
	Main Bay		1,303,909					1,303,909
	W Noerenberg			12,064	5,687,710	3,572,443		9,272,217
VFDA	Solomon Gulch			23,311	10,628,608			10,651,919
ADF&G	Ship Creek Complex <sup>a</sup>	1,938						1,938
Prince William Sound Total		1,938	1,843,480	35,375	24,214,663	3,572,443	0	29,667,899
Cook Inlet								
CIAA	Trail Lakes		178,299	726				179,025
PGHC	Port Graham		1,238					1,238
ADF&G	Ship Creek Complex	4,506		29,206			117,394	151,106
Cook Inlet Total		4,506	179,537	29,932	0	0	117,394	331,369
Southcentral Total		6,444	2,023,017	65,307	24,214,663	3,572,443	117,394	29,999,268
Kodiak								
KRAA	Kitoi Bay		118,034	67,416	3,226,802	252,467		3,664,719
	Pillar Creek	2,289	211,704	7,875				221,868
Westward/Kodiak Total		2,289	329,738	75,291	3,226,802	252,467	0	3,886,587
Statewide Total		95,184	2,600,172	978,480	27,999,192	15,544,498	117,394	47,334,920

Note: Some figures may not total exactly due to rounding.

<sup>a</sup> Ship Creek Complex is the combination of William Jack Hernandez and Fort Richardson sport fish hatcheries.

Table 11.—Projected adult returns, by species, to Alaska fisheries enhancement projects in 2013.

Region/Operator/Hatchery/Location		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southern Southeast								
SSRAA	Burnett Inlet		5,000	23,100				28,100
	Neck Lake			52,000				52,000
	Crystal Lake	1,700		4,700				6,400
	Neets Bay	22,000		224,000		1,808,000		2,054,000
	Anita Bay	10,000				830,000		840,000
	Whitman Lake	18,000		18,400				36,400
	Bakewell Lake			30,200				30,200
	Kendrick Bay					1,470,000		1,470,000
KTHC	Nakat Inlet			18,000		760,000		778,000
	Deer Mountain	632		6,616				7,248
POWHA	Klawock River			226,856				226,856
	Port Saint Nicholas	10,626						10,626
	Coffman Cove	9,027						9,027
MIC <sup>b</sup>	Tamgas Creek	3,000		135,000		259,000		397,000
Southern Southeast Total		74,985	5,000	738,872	0	5,127,000	0	5,945,857
Northern Southeast								
NSRAA	Haines Projects					24,500		24,500
	Hidden Falls	12,300		154,000		1,315,000		1,481,300
	Mist Cove			124,000				124,000
	Medvejie Creek	30,000		10,000		1,181,000		1,221,000
AKI	Port Armstrong	4,912		119,024	1,654,686	451,665		2,230,287
DIPAC	Macaulay	5,900		15,000		582,000		602,900
	Amalga Harbor					1,740,000		1,740,000
	Boat Harbor					391,000		391,000
	Limestone Inlet					105,000		105,000
	Pullen Cr/Lutak Inlet	1,000						1,000
	Snettisham		240,000					240,000
	Stikine River							0
	Sweetheart Lake		7,300					7,300
	Taku River							0
	Gunnuk Creek			11,639	538,447	112,955		663,041
KNFC	Southeast Cove					327,183		327,183
SSSC	Sheldon Jackson	400		1,600	60,400	204,500		266,900
NMFS <sup>b</sup>	Little Port Walter	600						600
Northern Southeast Total		55,112	247,300	435,263	2,253,533	6,434,803	0	9,426,011
Southeast Total		130,097	252,300	1,174,135	2,253,533	11,561,803	0	15,371,868
Prince William Sound								
PWSAC	Armin F. Koernig				6,700,000			6,700,000
	Cannery Creek				7,000,000			7,000,000
	Gulkana I&II		279,000					279,000
	Main Bay		1,107,000					1,107,000
	Wally Noerenberg			61,000	6,100,000	2,500,000		8,661,000
	Chenega			4,000				4,000
	Cordova			5,000				5,000
	Port Chalmers					425,000		425,000
	Whittier			2,000				2,000
	Solomon Gulch			127,260	13,804,795			13,932,055
Prince William Sound Totals		0	1,386,000	199,260	33,604,795	2,925,000	0	38,115,055

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Table 11.–Page 2 of 2.

		Chinook						Total
Region/Operator/Hatchery/Location		k	Sockeye	Coho	Pink	Chum	Other	
Cook Inlet								
CIAA	Trail Lakes	0	0	0	0	0	0	0
	Bear Lake	0	70,666	13,343	0	0	0	84,009
	English Bay Lakes	0	8,080	0	0	0	0	8,080
	Hazel/Leisure	0	43,352	0	0	0	0	43,352
	Hidden Lake	0	71,844	0	0	0	0	71,844
	Kirschner Lake	0	21,675	0	0	0	0	21,675
	Tutka Bay	0	17,821	0	0	0	0	17,821
	Tutka Bay Lagoon	0	0	0	339,033	0	0	339,033
ADF&G	Ship Creek Complex <sup>b</sup>	7,908	0	28,151	0	0	74,326	110,385
Cook Inlet Totals		7,908	233,438	41,494	339,033	0	74,326	696,199
Southcentral Total		7,908	1,619,438	240,754	33,943,828	2,925,000	74,326	38,811,254
Kodiak								
KRAA	Kitoi Bay	0	91,226	8,848	10,585,289	170,661	0	10,856,024
	Pillar Creek	1,800	370,700	5,600	0	0	0	378,100
Westward/Kodiak Total		1,800	461,926	14,448	10,585,289	170,661	0	11,234,124
Arctic-Yukon-Kuskokwim								
ADF&G	Ruth Burnett	0	0	0	0	0	60,954	60,954
Arctic-Yukon-Kuskokwim Total		0	0	0	0	0	60,954	60,954
Statewide Total		139,805	2,333,664	1,429,337	46,782,650	14,657,464	135,280	65,478,200

<sup>a</sup> Not available in time for publication.

<sup>b</sup> Ship Creek Complex is the combination of William Jack Hernandez Hatchery and Fort Richardson Hatchery.

Table 12.—Details of the estimated Chinook salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2012.

Region/Operator/Hatchery/Project		Common Property Harvest					Other	Brood	CRH	Escapement	Total Ret.
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.					
Southern Southeast											
SSRAA	Crystal Lake		210	495	20			818			1,543
	Anita Bay	5,565	7,795	1,600	180						15,140
	Neets Bay	3,815	2,130	2,480	260				1,565		10,250
	Whitman Lake	30	280	3,960	790			1,500	2,700		9,260
	Neets Bay	1,616	1,098	1,576	252				850		5,392
KTHC	Deer Mountain	29	9	93	25			92		35	283
POWHA	Port Saint Nicholas			127					309		436
	Coffman Cove		162	18							180
MIC	Tamgas Creek	221	57	356				195	120		949
Southern Southeast Total		11,276	11,741	10,705	1,527	0	0	2,605	5,544	35	43,433
Northern Southeast											
NSRAA	Hidden Falls	3,631	761	1,992	504	50	299	1,914	321		9,472
	Medvejie Creek	1,551	4,478	7,166	1,301	122	251	2,869	8,344		26,082
AKI	Port Armstrong	53	78	669	24	36	588	390	380		2,218
DIPAC	Macaulay	95	1,313	361	1,144			255	599		3,767
	Lutak Inlet		14								14
	Skagway site	320			10			18		38	386
SSSC	Sheldon Jackson		127	12	54		15		102		310
NMFS	Little Port Walter	60	22	318	31		76	262			769
Northern Southeast Total		5,710	6,793	10,518	3,068	208	1,229	5,708	9,746	38	43,018
Southeast Total		16,986	18,534	21,223	4,595	208	1,229	8,313	15,290	73	86,451
Prince William Sound											
ADF&G	Ship Creek Complex										
	Valdez				1,036						1,036
	Whittier				902						902
Prince William Sound Total		0	0	0	1,938	0	0	0	0	0	1,938
Cook Inlet											
ADF&G	Ship Creek Complex				1,605			690		260	2,555
	Crooked Creek						293	67		100	460
	Deception Creek						34	48		72	154
	Eklutna Tailrace				506						506
	Fleming Spit				107						107
	Kachemak Bay				670						670
	Ninilchik River							54			54
Cook Inlet Total		0	0	0	2,888	0	327	859	0	432	4,506
Southcentral											
Total		0	0	0	4,826	0	327	859	0	432	6,444
Kodiak											
KRAA	Pillar Creek				2,085			204			2,289
Kodiak/Westward Total		0			2,085			204			2,289
Statewide Total		16,986	18,534	21,223	11,506	208	1,556	9,376	15,290	505	95,184

Table 13.—Details of the estimated sockeye salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2012.

Region/Operator/Hatchery/Project	Common Property Harvest					Other	Brood	CRH	Escapement	Total Ret.
	Seine	Gillnet	Troll	Sport	Pers. Use/ Subs.					
Southern Southeast										
SSRAA Burnett Inlet	230	1,325								1,555
McDonald Lake	1,865	1,565							10,700	14,130
Southern Southeast Total	2,095	2,890	0	0	0	0	0	0	10,700	15,685
Northern Southeast										
DIPAC Snettisham	797	77,863				614	6,862	127,442		213,578
Stikine River (U.S. harvest)		10,113								10,113
Sweetheart Lake	28	895			3,134					4,057
Taku River (U.S. harvest)		3,857			127					3,984
Northern Southeast	825	92,728	0	0	3,261	614	6,862	127,442	0	231,732
Southeast Total	2,920	95,618	0	0	3,261	614	6,862	127,442	10,700	247,417
Prince William Sound										
PWSAC Gulkana I and II										
Crosswind Lake		201,562		80,126					34,373	316,061
Paxson Lake		112,047		44,542			18,268		11,779	186,636
Summit Lake		25,721		10,225					928	36,874
Main Bay	71,122	1,200,192		1,000		5,500	13,673			1,291,487
Marsha Lake	8,000									8,000
Solf Lake		3,922							500	4,422
Prince William Sound Total	79,122	1,543,444	0	135,893	0	5,500	31,941	0	47,580	1,843,480
Cook Inlet										
CIAA Trail Lakes										
Bear Lake							4,431	83,453	8,008	95,892
Hidden Lake		13,866		12,269		105	407		15,367	42,014
Kirschner Lake						1,000		1,260		2,260
Leisure/Hazel Lakes	5,559							16,817		22,376
Port Graham										0
Tutka Bay							2,590	13,167		15,757
PGH Port Graham					700		538			1,238
Cook Inlet Total	5,559	13,866	0	12,269	700	1,105	7,966	114,697	23,375	179,537
Southcentral Total	84,681	1,557,310	0	148,162	700	6,605	39,907	114,697	70,955	2,023,017
Kodiak										
KRAA Kitoi Bay	108,114				200		907	3,819	4,994	118,034
Pillar Creek										0
Foul Bay	24,591									24,591
Settler's Cove										0
Spiridon Lake	60,351	89,995						21,038		171,384
Waterfall Bay			15,729							15,729
Kodiak/Westward Total	193,056	89,995	15,729	0	200	0	907	24,857	4,994	329,738
Statewide Total	280,657	1,742,923	15,729	148,162	4,161	7,219	47,676	266,996	86,649	2,600,172

Table 14.—Details of the estimated coho salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2012.

Region/Operator/Hatchery/Project		Common Property Harvest					Other	Brood	CRH	Escapement	Total Ret.
		Seine	Gillnet	Troll	Sport	Pers. Use/ Subs.					
Southern Southeast											
SSRAA	Burnett Inlet	710	6,080	770	1,345		2,500	3,206	7,260		21,871
	Neck Lake	2,330	22,880	9,670	20,150		1,210		61,590		117,830
	Neets Bay	1,455	2,410	5,940	120		165		1,730		11,820
	Crystal Lake	20	670	1,225	45			1,165			3,125
	Neets Bay	31,635	35,615	98,545	3,805		6,085	1,450	56,970		234,105
	Whitman Lake	1,135	2,540	5,870	315			3,300	2,300		15,460
	Anita Bay	378	5,724	6,125	95						12,322
	Bakewell Lake	1,345	2,740	8,080	325					1,100	13,590
	Nakat Inlet	1,370	9,785	6,614	276						18,045
	Neets Bay	5,069	6,433	19,497	930				6,498		38,427
KTHC	Deer Mountain	936	186	326	152		394	208	2,380	290	4,872
POWHA	Klawock River	8,780	83	41,297	11,375	28	7,687	2,788	7,573	2,704	82,315
MIC	Tamgas Creek	8,987	32,691	32,447				1,944	18,000		94,069
Southern Southeast Total		64,150	127,837	236,406	38,933	28	18,041	14,061	164,301	4,094	667,851
Northern Southeast											
NSRAA	Hidden Falls			10,959	2,500	250	2,489	11,411	10,301	500	38,410
	Deer Lake	335		17,706	3,431		6,860		14,026		42,358
	Medvejie Creek	1,122	512	3,475	505		4,700	425	45		10,784
AKI	Port Armstrong	872		27,320	1,085	127	5,527	4,069	19,332		58,332
DIPAC	Macaulay	15	712	3,605	2,327		818	636	4,565		12,678
KNFC	Gunnuk Creek	48		2,801	70	87	2,258	464	41	1,700	7,469
Northern Southeast Total		2,392	1,224	65,866	9,918	464	22,652	17,005	48,310	2,200	170,031
Southeast Total		66,542	129,061	302,272	48,851	492	40,693	31,066	212,611	6,294	837,882
Prince William Sound											
PWSAC	Wally Noerenberg	2,791	7,440		400		42	516			11,189
	Chenega/Cordova/Whittier				875						875
VFDA	Solomon Gulch	389			20,000		10	2,033	454	425	23,311
Prince William Sound Total		3,180	7,440	0	21,275	0	52	2,549	454	425	35,375

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Table 14.—Page 2 of 2.

Region/Operator/Hatchery/Project	Common Property Harvest					Pers. Use/ Subs.	Other	Brood	CRH	Escapement	Total Ret.
	Seine	Gillnet	Troll	Sport							
Cook Inlet											
CIAA							30	387		309	726
ADF&G								987			4,397
Trail Lakes				3,410							2,382
Ship Creek Complex				2,382							3,380
Bird Creek				3,380							569
Eklutna Tailrace				569							18,410
Homer Spit				18,410				68			29,932
Resurrection Bay				28,151				1,442	0	309	65,307
Cook Inlet Total	0	0	0	49,426	0	30		3,991	454	734	
Southcentral Total	3,180	7,440	0		0	82					
Kodiak											
KRAA	45,974				200	10,000	8,863	2,379			67,416
Kitoi Bay				7,875							7,875
Pillar Creek											
Kodiak/Westward Total	45,974	0	0	7,875	200	10,000	8,863	2,379		0	75,291
								215,44			
Statewide Total	115,696	136,501	302,272	106,152	692	50,775	43,920	4		7,028	978,480

Table 15.—Details of the estimated pink salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2012.

Region/Operator/Hatchery/Project		Common Property Harvest					Other	Brood	CRH	Escapement	Total Ret.
		Seine	Gillnet	Troll	Sport	Pers. Use/ Subs.					
Northern Southeast											
NSRAA	Medvejie Creek							8,409	3,248	800	12,457
AKI	Port Armstrong	128,494					31,000	84,583	47,955		292,032
KNFC	Gunnuk Creek	80,879		20,220	6	136	5,500	41,582	7,819	40,000	196,142
SSSC	Sheldon Jackson							4,928	52,168		57,096
Northern/Southeast Total		209,373	0	20,220	6	136	36,500	139,502	111,190	40,800	557,727
Prince William Sound											
PWSAC	Armin F. Koernig	3,163,432	5,515				7,500	184,531	394,942		3,755,920
	Cannery Creek	3,911,123	45,399				5,000	147,849	33,054		4,142,425
	Wally Noerenberg	3,473,063	825,431				5,000	159,156	1,225,060		5,687,710
VFDA	Solomon Gulch	9,290,697			21,272			255,761	1,022,677	38,201	10,628,608
Prince William Sound/Southcentral Total		19,838,315	876,345	0	21,272	0	17,500	747,297	2,675,733	38,201	24,214,663
Kodiak											
KRAA	Kitoi Bay	1,815,365					75,000	183,732	1,152,705		3,226,802
Kodiak/Westward Total		1,815,365	0	0		0	75,000	183,732	1,152,705	0	3,226,802
Statewide Total		21,863,053	876,345	20,220	21,278	136	129,000	1,070,531	3,939,628	79,001	27,999,192

Table 16.—Details of the estimated chum salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2012.

Region/Operator/Hatchery/Project		Common Property Harvest				Pers. Use/ Subs.	Other	Brood	CRH	Escapement	Total Ret.
		Seine	Gillnet	Troll	Sport						
Southern Southeast											
SSRAA	Neets Bay-summer	646,245	54,070	298,950			55,840	166,921	815,614		2,037,640
		Anita Bay-NB-summer	387,130	259,245	4,510			28,530			679,415
		Neets Bay-fall	84,700	17,635	85,750			11,115	49,330	182,000	430,530
		Nakat Inlet-fall	2,088	36,250				1,272			39,610
	Whitman Lake										0
		Anita Bay-summer	96,782	64,811	382			7,132			169,107
		Kendrick Bay	958,353	15,352	203			75,957			1,049,865
		Nakat Inlet-summer	74,114	619,509				89,332			782,955
MIC	Tamgas Creek	90,700	173,464				7,815	2,000		273,979	
Southeast Southern Total		2,340,112	1,240,336	389,795	0	0	269,178	224,066	999,614	0	5,463,101
Northern Southeast											
NSRAA	Haines Projects		7,786					2,166		9,509	19,461
	Hidden Falls	1,084,285		72				137,125	13,605	5,000	1,240,087
	Medvejie Creek	329,337	157,871	21,038			456	46,297	9,856	258	565,113
AKI	Port Armstrong	3,000		1,000			5,000	31,389	132,065		172,454
DIPAC	Macaulay	11,658	468,342	5,945	3,900		30,000	97,669	617,483		1,234,997
	Amalga Harbor	428,540	536,678	8,742					842,050		1,816,010
	Boat Harbor	7,449	777,855	3,798							789,102
	Limestone Inlet	1,614	168,521	823							170,958
KNFC	Gunnuk Creek	27,165		5,324	12	500	7,200	54,741	100	5,500	100,542
	Southeast Cove	27,535		4,810			20,700		1,300		54,345
SSSC	Sheldon Jackson	53,067	25,438	3,390			74	8,662	2,745	42	93,418
Northern Southeast Total		1,973,650	2,142,491	54,942	3,912	500	63,430	378,049	1,619,204	20,309	6,256,487
Southeast Total		4,313,762	3,382,827	444,737	3,912	500	332,608	602,115	2,618,818	20,309	11,719,588
Prince William Sound											
PWSAC	Wally Noerenberg										
	Lake Bay	179,591	2,271,105		1,000		3,000	171,847	269,982		2,896,525
	Port Chalmers	28,926	322,544								351,470
	Sawmill Bay-WN	74,404	250,044								324,448
Prince William Sound/Southcentral Total		282,921	2,843,693	0	1,000	0	3,000	171,847	269,982	0	3,572,443
Kodiak											
KRAA	Kitoi Bay	218,184						33,727	556		252,467
Kodiak/Westward Total		218,184	0	0	0	0	0	33,727	556	0	252,467
Statewide Total		4,814,867	6,226,520	444,737	4,912	500	335,608	807,689	2,889,356	20,309	15,544,498

Table 17.—Details of the estimated “other” hatchery-produced returns to Alaska fisheries enhancement projects, as reported by operators, 2012.

Region/Operator/Hatchery/Project	Species	Common Property Harvest		Broodstock	CRH	Escapement	Total Ret.
		Sport	Pers. Use/ Subs.				
Cook Inlet							
ADF&G	Ship Creek Complex						
	Landlocked Lakes	Landlocked Salmon	19,311				19,311
Cook Inlet/Southcentral Total			19,311	0	0	0	19,311
Arctic-Yukon-Kuskokwim							
ADF&G	Ship Creek Complex						
	Interior Lakes	Arctic Char	3,632		137		3,769
		Grayling	1,159		80		1,239
		Rainbow Trout	88,635		4,440		93,075
Arctic-Yukon-Kuskokwim Total			93,426	0	4,657	0	98,083
Statewide Total			112,737	0	4,657	0	117,394



Table 18.– Summary of salmon production of eggs collected in 2012 with Fish Resource Permits issued by the Alaska Department of Fish and Game.

Fish Resource Permit Type Region/Permittee	Stock/Species	Maximum number allowed to be collected
<b>Research and Bioenhancement Permits</b>		
Southeast		
NOAA Little Port Walter	Keta River Chinook	20 spawning pair
University of Alaska Fairbanks	Auke Creek sockeye	50,000 eggs
Arctic-Yukon-Kuskokwim		
Norton Sound Economic Development Corporation	Snake River chum	250 spawning pair
Norton Sound Economic Development Corporation	Snake River coho	63 spawning pair
Norton Sound Economic Development Corporation	Unalakleet/Old Woman River Chinook	20 spawning pair
Norton Sound Economic Development Corporation	Solomon River chum	60 spawning pair
<b>Educational and Vocational Permits</b>		
Southeast		
Juneau-Douglas High School	Coho	7,000 eggs
Petersburg High School	Pink	50,000 eggs
Westward		
Sand Point School	Coho	7,000 eggs
Unalaska City School	Coho	10,000 eggs
<b>Scientific and Educational Permits</b>		
Southeast		
Angoon High School	Coho	500
Fawn Mountain Elementary	Coho	200
Gastineau Community School	Coho	500
Haines School District	Chum	500
Keet Gooshi Heen Elementary	Pink	500
Point Higgins Elementary	Coho	50
Taiya Inlet Watershed Council	Coho	500
Tongass School of Arts and Sciences	Coho	500
Yakutat Schools	Coho	100
Southcentral		
Airport Heights Elementary	Coho	500
Alaska Native Cultural Charter School (ANCCS)	Coho	500
Aleknagik School	Coho	500
Alpenglow Elementary	Coho	500
American Charter	Coho	500
Anchor Lutheran School	Coho	500
Aquarian Elementary	Coho	500
ASD Education Center	Coho	500
Aurora Elementary	Coho	500
Aurora Borealis	Coho	500
AVAIL High School	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
Benny Benson	Coho	500
Big Lake Elementary	Coho	500
Birchtree School	Coho	500
Birchwood ABC School	Coho	500

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Table 18.–Page 2 of 5.

Fish Resource Permit Type Region/Permittee	Stock/Species	Maximum number allowed to be collected
Southcentral (cont.)		
Bowman Elementary	Coho	500
Butte Elementary	Coho	500
Campbell Elementary	Coho	500
Central Middle School	Coho	500
Chapman School	Coho	500
Chester Valley Elementary	Coho	500
Chickaloon Village	Coho	500
Chinook Elementary	Coho	500
Chugiah 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 School	Coho	500
Cordova School District	Coho	300
Cottonwood Creek Elementary	Coho	500
Creekside Park Elementary	Coho	500
Denali Montessori Elementary	Coho	500
Dillingham Elementary	Coho	500
Dillingham High School	Coho	500
Dillingham Middle School	Coho	500
Dimond High School	Coho	500
Eagle Academy Charter School	Coho	500
Eagle River Elementary	Coho	500
East Anchorage High School	Coho	500
Fairview Elementary	Coho	500
Faith Lutheran Elementary	Coho	500
Finger Lake Elementary	Coho	500
Fireweed School	Coho	500
Fronteras Charter School	Coho	500
Girdwood K-8 School	Coho	500
Gladys Wood Elementary	Coho	500
Glennallen Elementary	Coho	500
Golden View Middle School	Coho	500
Government Hill Elementary	Coho	500
Grace Lutheran Pre-8 School	Coho	500
Gruening Middle School	Coho	500
Hanshaw Middle School	Coho	500
Hermon Hutchins Elementary	Chum	500
Hermon Hutchins Elementary	Pink	500
Highland Tech High	Coho	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
Huffman Elementary	Coho	500
Iditarod Elementary	Coho	500

-continued-

Table 18.–Page 2 of 5.

Fish Resource Permit Type Region/Permittee	Stock/Species	Maximum number allowed to be collected
Southcentral (cont.)		
Igiugig School	Coho	500
Inlet View Elementary	Coho	500
Jesse Lee School	Coho	500
Kachemak Selo School	Coho	500
Kaleidoscope Elementary	Coho	500
Kalifornsky Beach Elementary	Coho	500
Kasuun Elementary	Coho	500
Kenai Alternative	Coho	500
Kenai Central High School	Coho	500
Kenai Middle School	Coho	500
Kenny Lake School	Coho	500
Kincaid Elementary	Coho	500
King Career Center (KCC)	Coho	500
Klatt Elementary	Coho	500
Knik Elementary	Coho	500
Koliganek School	Coho	500
Lake Hood Elementary	Coho	500
Lake Otis Elementary	Coho	500
Larson Elementary	Coho	500
Louise Farm School	Coho	500
Machetanz Elementary	Coho	500
Manotak School	Coho	500
McLaughlin School	Coho	500
McNeil Canyon Elementary	Coho	500
Meadow Lakes	Coho	500
Mears Middle School	Coho	500
Midnight Sun Elementary	Coho	500
Mirror Lake Middle School	Coho	500
Moose Pass Elementary	Coho	500
Mt. Illiamna	Coho	500
Mt. Spurr Elementary	Coho	500
Mt. View Elementary	Coho	500
Mt. View Elementary	Coho	500
Muldoon Elementary	Coho	500
Nanwalek School	Coho	500
Newhalen School	Coho	500
Nikiski / North Star Elem	Coho	500
Nikiski Middle High School	Coho	500
Nikolaevsk School	Coho	500
Ninilchik school	Coho	500
Northern Lights ABC	Coho	500
Northstar RTC	Coho	500
Northwood ABC	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
Paul Banks School	Coho	500

-continued-

Table 18.–Page 3 of 5.

Fish Resource Permit Type Region/Permittee	Stock/Species	Maximum number allowed to be collected
Southcentral (cont.)		
Pioneer Peak Elementary	Coho	500
Polaris School	Coho	500
Ptarmigan Elementary	Coho	500
Rabbit Creek Elementary	Coho	500
Ravenwood Elementary	Coho	500
Redoubt Elementary	Coho	500
Rilke Schule	Coho	500
Rogers Park Elementary	Coho	500
Romig Middle School	Coho	500
Russian Jack Elementary	Coho	500
Sand Lake Elementary	Coho	500
SAVE High School	Coho	500
Scenic Park	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 Tutoring Program	Coho	500
South High School	Coho	500
Southcentral Foundation	Coho	500
Spring Hill Elementary	Coho	500
Steller Secondary School	Coho	500
Sterling Elementary	Coho	500
Susan B. English	Coho	500
Susitna Elementary	Coho	500
Swanson Elementary	Coho	500
Taku Elementary	Coho	500
Talkeetna Elementary	Coho	500
Tanaina Elementary	Coho	500
Tatitlek School	Coho	500
Teeland Middle School	Coho	500
Togiak School	Coho	500
Togiak School	Coho	500
Trailside Elementary	Coho	500
Tudor Elementary	Coho	500
Turnagain Elementary	Coho	500
Tustumena Elementary	Coho	500
Twin Hills School	Coho	500
Tyson Elementary	Coho	500
Ursa Major Elementary	Coho	500
Ursa Minor Elementary	Coho	500
Voznesenka School	Coho	500
Wendler Middle School	Coho	500
West Homer Elementary	Coho	500

-continued-

Table 18.–Page 4 of 5.

Fish Resource Permit Type Region/Permittee	Stock/Species	Maximum number allowed to be collected
Arctic-Yukon-Kuskokwim		
West High School	Coho	500
Whaley School	Coho	500
Whitter School	Coho	500
Williwaw	Coho	500
Willow Crest	Coho	500
Willow Elementary	Coho	500
Winterberry	Coho	500
Wonder Park Elementary	Coho	500
AK Dept. Fish & Game Lobby	Coho	300
Akiuk Memorial School	Coho	500
Aniak Jr./Sr. School	Coho	500
Arctic Light Elementary	Coho	300
Auntie Marie Nicoli Elementary	Coho	500
Badger Road Elementary	Coho	300
Bethel Youth Center	Coho	500
Delta Elementary	Coho	500
Eek School	Coho	500
Emmonak School	Coho	500
Fort Greely Elementary (2 classes)	Coho	300
Fort Yukon School	Coho	500
Galena City School	Coho	500
Gladys Jung	Coho	500
Jack Egnaty Sr. School	Coho	1000
Jimmy Huntington School	Coho	500
John Fredson School	Coho	500
Johnnie John Sr. School	Coho	500
Joseph & Olinga Gregory Elementary	Coho	500
Joy Elementary	Coho	300
Kaltag School	Coho	500
Ket'acik and Aap'alluk Memorial School	Coho	500
Kotlik School	Coho	500
Ladd Elementary	Coho	300
Nome Elementary	Coho	500
Nordale Elementary	Coho	300
Pearl Creek Elementary	Coho	300
Russian Mission	Coho	500
Scammon Bay	Coho	500
St. Mary's School	Coho	500
Stebbins	Coho	500
Ticasuk Brown Elementary	Coho	300
Tok School	Coho	500
Two Rivers Elementary	Coho	300
Unalakleet	Coho	500
University Park Elementary	Coho	300
Watershed School	Coho	300
Weller Elementary	Coho	300
Woodriver Elementary	Coho	300
Zackar Levi Elementary	Coho	500

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Table 18.–Page 5 of 5.

Fish Resource Permit Type Region/Permittee		Maximum number allowed to be collected
Westward		
Akhiok School	Coho	500
Chignik Lagoon School	Coho	500
Chiniak School	Coho	500
East Elementary	Coho	500
Karluk School	Coho	500
Kodiak Christian School	Coho	500
Kodiak High School	Coho	500
Kodiak Island Correspondence	Coho	500
Kodiak Learning Center	Coho	500
Kodiak Middle School	Coho	500
Larsen Bay School	Coho	500
Westward (cont.)		
Main Elementary	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
Sand Point School	Coho	500
St. Mary's Catholic School	Coho	500

Table 19.— Updated Chinook salmon returns to Alaska hatcheries in 2011, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Other	Brood	CRH	Escapement	Total
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.					
Southeast											
SSRAA	Whitman Lake	21	222	5,502	1,259			1,514	8,802		17,320
	Neets Bay	3,593	1,499	1,405	304				3,784		10,585
	Crystal Lake Hatchery	25	156	733	44			876			1,834
	Anita Bay	3,251	7,899	1,248	133						12,531
	Neets Bay	5,297	1,986	2,234	377				4,382		14,276
NSRAA	Medvejie	3,637	7,821	9,794	1,738	185	1,439	2,405	13,487		40,506
	Hidden Falls	2,669	1,052	2,121	342	50	1,203	3,693	349		11,479
AKI	Port Armstrong	343	11	936	16		725	528	1,674		4,233
DIPAC	Macaulay	213	484	353	981			606	224		2,861
	Skagway Site	16	12		221			146		209	604
KTHC	Deer Mountain Hatchery		46	306	112		72	288		300	1,124
POWHA	Port Saint Nicholas		54	364	74				2,128		2,620
	Coffman Cove		65	8							73
SSSC	Sheldon Jackson		5	20					16		41
MIC	Tamgas Creek <sup>b</sup>						1,805	195			2,000
NMFS	Little Port Walter	191	94	382	23		179	382			1,251
Southeast Totals		19,256	21,406	25,406	5,624	235	5,423	10,633	34,846	509	123,338
Prince William Sound											
ADF&G	Ship Creek Complex										
	Valdez				514						514
	Whittier				324						324
Prince William Sound Totals		0	0	0	838	0	0	0	0	0	838
Cook Inlet											
ADF&G	Ship Creek Complex										
	Crooked Creek				0		161	140		128	429
	Eklutna tailrace				184						184
	Fleming Spit				0						0
	Kachemak Bay				418						418
	Ninilchik River				0			222		25	247
	Ship Creek				616			408		1,009	2,033
	Deception Creek						11	60		90	161
	Cook Inlet Totals		0	0	0	1,218	0	172	830	0	1,252
Kodiak											
KRAA	Pillar Creek				1,800			153			1,953
Kodiak Totals		0	0	0	1,800	0	0	153	0	0	1,953
Statewide Totals		19,256	21,406	25,406	9,480	235	5,595	11,616	34,846	1,761	129,601

Note: Highlighted fields are updates to the 2011 estimated return numbers using 2012 hatchery annual reports.

Table 20.— Updated sockeye salmon returns to Alaska hatcheries in 2011, including common property harvests, as reported by operators.

Area/Operator/Location			Common Property Harvest					Other	Brood	CRH	Escapement	Total
			Seine	Gillnet	Troll	Sport	Pers. Use/ Subs.					
Southeast												
	DIPAC	Snettisham	29,654	79,410			251	300	6,810	24,968		141,393
		Sweetheart Lake	1,624	619			1,449					3,692
		Stikine River (US harvest)		34,781								34,781
		Taku River (US harvest)		5,346								5,346
	MIC	Tamgas Creek						3,811	189			4,000
Southeast Totals			31,278	120,156	0	0	1,700	4,111	6,999	24,968	0	189,212
Prince William Sound												
	PWSAC	Main Bay	19,381	1,269,642		1,200	800	1,025	12,810			1,304,858
		Gulkana I and II										
		Paxson Lake		102,917		1,933	36,740	1	18,542		10,515	170,648
		Crosswind Lake		343,480		6,454	122,618				27,291	499,843
		Summit Lake		21,623		406	7,719				3,240	32,988
Prince William Sound Totals			19,381	1,737,662	0	9,993	167,877	1,026	31,352	0	41,046	2,008,337
Cook Inlet												
	PGHC	Port Graham	1,434				3,780		1,274	200	6,018	12,706
	CIAA	Trail Lakes										
		Bear Lake	56,111			20,000		300	3,831	150,853	9,389	240,484
		Hidden Lake		13,931		5,167			841	311	8,603	28,853
		Leisure/Hazel Lakes	9,945			400	4,773					15,118
		Tutka Bay				3,500			1,563	8,496	2,000	15,559
		Kirschner Lake	12,732					210				12,942
Cook Inlet Totals			80,222	13,931	0	29,067	8,553	510	7,509	159,860	26,010	325,662
Kodiak												
	KRAA	Kitoi Bay	227,050				200			11,812	7,086	246,148
		Pillar Creek										
		Spiridon Lake	116,175	30,877						20,241		167,293
		Foul Bay	44,142									44,142
		Waterfall Bay	37,063					500				37,563
		Settler's Cove	4,310				13,153					17,463
Kodiak Totals			428,740	30,877	0	0	200	500	0	32,053	7,086	512,609
Statewide Totals			559,621	1,902,626	0	39,060	178,330	6,147	45,860	216,881	74,142	3,035,820

Note: Highlighted fields are updates to the 2011 estimated return numbers using 2012 hatchery annual reports.



Table 21.—Updated coho salmon returns to Alaska hatcheries in 2011, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Other	Brood	CRH	Escapement	Total	
		Seine	Gillnet	Troll	Sport	Pers. Use/ Subs.						
Southeast												
SSRAA	Whitman Lake		575	1,220	7,240	610		1,647	4,847	1,453		17,592
		Anita Bay	100	868	767							1,735
		Bakewell Lake	622	979	6,841	285		894			660	10,281
		Nakat	249	2,971	3,438	320		230				7,208
		Neets Bay	2,804	3,755	12,238	617				231		19,645
	Neets Bay		7,008	8,588	29,341	2,070		2,890		1,350		51,247
	Burnett Inlet		771	9,915	1,978	696		1,500	2,597	5,242		22,699
	Neck Lake		1,405	51,675	7,015	20,000		720		50,060		130,875
	Crystal Lake Hatchery		940	865	3,015	130			2,492			7,442
	NSRAA	Hidden Falls		45,708	1,536	74,743	4,493	250	2,822	10,523	115,912	500
	Deer Lake		2,818		23,631	2,123		5,141		48,732		82,445
	Medvejje Creek							1,002				1,002
AKI	Port Armstrong		3,339	234	70,087	1,313		11,757	3,884	58,837		149,451
DIPAC	Macaulay		2,143	4,059	10,351	6,813		2	525	7,553		31,446
KTHC	Deer Mountain		494	460	164	405		42	400	2,620	1,565	6,150
KNFC	Gunnuk Creek		45	18	2,191	20		183	2,132	46	200	4,835
POWHA	Klawock Hatchery		29,939	329	63,441	43,705	45	3,791	1,882	859	3,343	147,334
SSSC	Sheldon Jackson				183	26		30	389			628
MIC <sup>a</sup>	Tamgas Creek <sup>b</sup>							73,465	1,535			75,000
Southeast Totals			98,960	87,472	316,664	83,626	295	106,116	31,206	292,895	6,268	1,023,502
Prince William Sound												
PWSAC	Wally Noerenberg		48,036	81,714		1,000		5,000	2,374	1,596		139,720
	Cordova/Whittier/Chenega					10,800						10,800
VFDA	Solomon Gulch		32,345			60,000		12	2,628	43,042	2,000	140,027
Prince William Sound Totals			80,381	81,714	0	71,800	0	5,012	5,002	44,638	2,000	290,547
Cook Inlet												
CIAA	Trail Lakes					1,506		195	339		352	2,392
ADF&G <sup>a</sup>	Ship Creek Complex					2,443			828		1,186	4,457
		Bird Creek				1,324					45	1,369
		Homer Spit				192						192
		Resurrection Bay				16,557			115			16,672
		Eklutna tailrace				1,350						1,350
Cook Inlet Totals			0	0	0	23,372	0	195	1,282	0	1,583	26,432
Kodiak												
KRAA	Kitoi Bay		62,847				200	600	6,624	7,488		77,759
	Pillar Creek- road system					1,600						1,600
Kodiak Totals			62,847	0	0	1,600	200	600	6,624	7,488	0	79,359
Statewide Totals			242,188	169,186	316,664	180,398	495	111,923	44,114	345,021	9,851	1,419,840

Note: Highlighted fields are updates to the 2011 estimated return numbers using 2012 hatchery annual reports.

Table 22.—Updated pink salmon returns to Alaska hatcheries in 2011, including common property harvest, as reported by operators.

Area/Operator/Location		Common Property Harvest					Pers. Use/Subs.	Other	Brood	CRH	Escapement	Total
		Seine	Gillnet	Troll	Sport							
Southeast												
NSRAA	Medvejie								6,995	1,657	800	9,452
AKI	Port Armstrong	517,713						30,000	110,166	518,472		1,176,351
KNFC	Gunnuk Creek	185,831		9,842				23,500	22,355	3,472		245,000
SSSC	Sheldon Jackson								5,838	103,000		108,838
Southeast Totals		703,544	0	9,842	0	0	0	53,500	145,354	626,601	800	1,539,641
Prince William Sound												
PWSAC	Armin F. Koernig	1,878,581	5,805					10,000	211,476	978,047		3,083,909
	Wally Noerenberg	3,746,971	563,449					10,000	242,308	2,084,743		6,647,471
	Cannery Creek	3,763,480	89,574					7,500	283,008	324,403		4,467,965
VFDA	Solomon Gulch	10,993,933			30,000			5,049	322,379	1,933,093	72,586	13,357,040
Prince William Sound Totals		20,382,965	658,828	0	30,000	0	0	32,549	1,059,171	5,320,286	72,586	27,556,385
Cook Inlet												
PGHC	Port Graham											
Cook Inlet Totals		0	0	0	0	0	0	0	0	0	0	0
Kodiak												
KRAA	Kitot Bay	532,698							337,433	1,642,173	15,000	2,527,304
Kodiak Totals		532,698	0	0	0	0	0	0	337,433	1,642,173	15,000	2,527,304
Statewide Totals		21,619,207	658,828	9,842	30,000	0	0	86,049	1,541,958	7,589,060	88,386	31,623,330

Table 23.—Updated chum salmon returns to Alaska hatcheries in 2011, including common property harvests, as reported by operators.

Area/Operator/Location		Common Property Harvest					Other	Brood	CRH	Escapement	Total
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.					
Southeast											
SSRAA	Whitman Lake										
	AnitaBay—summer	116,152	185,463	11,136			12,347				325,098
	NakatInlet—summer	17,953	337,279				32,487				387,719
	KendrickBay—summer	679,292	24,040	3,248			44,834				751,414
	Neets Bay – summer	167,486	58,934	320,189			71,538	169,706	840,350		1,628,203
	AnitaBay—summer	17,953	335,167				32,487				385,607
	Neets Bay – fall	99,282	68,307	87,537			24,534	73,865	492,000		845,525
	NakatInlet—fall	2,899	68,144	309			1,067				72,419
NSRAA	Medvejie	140,830	71,209	24,670			8,057	47,772	25,252	259	318,049
	Hidden Falls	132,033		195	50		3,009	139,235	96,538	281	371,341
	Haines projects		6,178					3,146		6,121	15,445
AKI	Port Armstrong	18,100		1,500			2,000	38,380	213,954		273,934
DIPAC	Macaulay	54,221	408,918	45,187	3,900		35,000	100,951	591,813		1,239,990
	Amalga	83,513	454,871	69,958					1,350,695		1,959,037
	LimestoneInlet	9,845	207,428	8,204							225,477
	BoatHarbor	26,526	512,939	22,106							561,571
KNFC	Gunnuk Creek										
	KakeSHA	58,240		3,083	15	125	2,800	15,783	209	200	80,455
	SoutheastCove	17,581		931			1,143	438	5,539		25,632
SSSC	Sheldon Jackson	22,421	11,337	3,928			1,282	8,202	4,746	41	51,957
MIC <sup>a</sup>	Tamgas Creek <sup>b</sup>						298,351	11,649			310,000
Southeast Totals		1,664,327	2,750,214	602,181	3,965	125	570,936	609,127	3,621,096	6,902	9,828,873
Prince William Sound											
PWSAC	Wally Noerenberg										
	LakeBay	13,324	918,580		1,000		7,000	159,741	318,462		1,418,107
	PortChalmers	20,956	258,890								279,846
	SawmillBay	16,990	103,216								120,206
Prince William Sound Totals		51,270	1,280,686	0	1,000	0	7,000	159,741	318,462	0	1,818,159
Kodiak											
KRAA	Kitot Bay	291,985					2,000	41,998	28,547	1,000	365,530
Kodiak Totals		291,985	0	0	0	0	2,000	41,998	28,547	1,000	365,530
Statewide Totals		2,007,582	4,030,900	602,181	4,965	125	579,936	810,866	3,968,105	7,902	12,012,562

Table 24.—Updated “other” hatchery-produced returns to Alaska hatcheries in 2011, as reported by operators.

Area/Operator/Location	Species	Commercial	Sport	Other	Pers. Use/ Subs.	Broodstock	Cost Recovery	Escapement	Total
Cook Inlet									
ADF&G	Ship Creek Hatchery Complex								
	Arctic char		2,393			126			2,519
	Arctic grayling		356			80			436
	Landlocked salmon		2,627						2,627
	Rainbow trout		21,631			1,800			23,431
Cook Inlet Totals			27,007			2,006			29,013
Statewide Totals		0	27,007	0	0	2,006	0	0	29,013

*Note:* Highlighted fields are updates to the 2011 estimated return numbers using 2012 hatchery annual reports.

Table 25.—Summary of anadromous salmon production (all species) from Alaska hatcheries and fisheries enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1966	0	1	0
1967	0	1	0
1968	0	1	0
1969	0	1	0
1970	0	1	0
1971	0	1	0
1972	2	2	0
1973	4	2	0
1974	9	3	0
1975	36	11	6
1976	61	13	8
1977	100	41	188
1978	134	74	341
1979	153	87	1,988
1980	292	96	3,053
1981	475	212	4,879
1982	548	331	6,915
1983	647	419	6,560
1984	829	512	7,689
1985	997	659	16,617
1986	1,027	763	12,305
1987	1,388	824	25,141
1988	1,342	1,115	17,737
1989	1,417	1,087	35,147
1990	1,602	1,154	48,188
1991	1,635	1,319	48,068
1992	1,725	1,324	23,010
1993	1,685	1,466	32,950
1994	1,758	1,298	55,410
1995	1,913	1,503	37,141
1996	1,688	1,638	49,185
1997	1,730	1,358	51,254
1998	1,773	1,451	56,043
1999	1,847	1,434	72,290
2000	1,734	1,470	63,107
2001	1,804	1,478	61,729
2002	1,863	1,484	49,325
2003	1,926	1,521	79,888
2004	1,734	1,648	46,450
2005	1,705	1,427	80,974
2006	1,822	1,433	46,501
2007	1,724	1,560	80,260
2008	1,661	1,487	60,436
2009	1,783	1,463	45,004
2010	1,808	1,561	90,816
2011	1,909	1,539	48,221
2012	1,735	1,672	47,218
Total	50,028	39,942	1,412,042

Table 26.—Summary of Chinook salmon production from Alaska hatcheries and fisheries enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1966	0	0	0
1967	0	1	0
1968	0	0	0
1969	0	0	0
1970	0	0	0
1971	0	0	0
1972	0	0	0
1973	0	0	0
1974	0	1	0
1975	1	0	0
1976	1	0	0
1977	3	1	0
1978	2	1	0
1979	2	1	3
1980	3	1	7
1981	1	1	5
1982	3	1	12
1983	7	2	13
1984	10	4	21
1985	19	4	26
1986	16	6	40
1987	17	8	94
1988	18	9	75
1989	15	8	78
1990	17	10	118
1991	20	7	174
1992	13	10	132
1993	12	12	112
1994	13	10	127
1995	14	7	169
1996	12	7	166
1997	12	7	150
1998	13	7	104
1999	12	8	114
2000	12	8	174
2001	14	9	188
2002	18	8	157
2003	14	10	159
2004	16	10	189
2005	15	10	136
2006	17	10	105
2007	17	11	134
2008	18	11	136
2009	17	12	115
2010	13	11	105
2011	13	8	130
2012	11	10	95
Total	451	260	3,564

Table 27.—Summary of sockeye salmon production from Alaska hatcheries and fisheries enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1972	0	0	0
1973	2	0	0
1974	2	1	0
1975	8	1	0
1976	24	2	0
1977	19	14	27
1978	35	16	13
1979	30	17	318
1980	38	15	700
1981	51	28	401
1982	59	45	56
1983	68	53	210
1984	86	52	382
1985	108	73	754
1986	101	77	1,288
1987	107	60	978
1988	107	69	1,624
1989	112	77	2,024
1990	99	74	4,147
1991	113	70	5,423
1992	104	74	4,171
1993	122	61	5,120
1994	112	77	4,057
1995	115	81	1,356
1996	127	75	2,472
1997	97	77	3,304
1998	95	71	2,488
1999	91	66	3,588
2000	73	60	2,076
2001	89	39	3,329
2002	92	67	3,645
2003	94	64	4,750
2004	60	71	3,554
2005	81	39	2,761
2006	92	53	2,619
2007	83	63	2,347
2008	79	61	1,781
2009	80	57	1,791
2010	81	56	2,548
2011	91	54	3,036
2012	84	61	2,600
Total	3,111	2,071	81,739

Table 28.—Summary of coho salmon production from Alaska hatcheries and fisheries enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1966	0	1	0
1967	0	1	0
1968	0	1	0
1969	0	1	0
1970	0	1	0
1971	0	0	0
1972	2	2	0
1973	2	2	0
1974	1	2	0
1975	7	4	0
1976	5	3	0
1977	5	5	13
1978	6	3	0
1979	4	3	71
1980	4	2	21
1981	8	3	55
1982	17	3	108
1983	17	10	96
1984	21	11	180
1985	21	15	309
1986	24	13	647
1987	26	15	440
1988	28	19	258
1989	23	16	490
1990	22	18	940
1991	24	14	1,251
1992	21	15	1,378
1993	25	15	916
1994	28	18	1,309
1995	27	21	1,313
1996	30	21	1,361
1997	34	23	1,082
1998	29	21	1,393
1999	23	22	1,542
2000	33	15	1,655
2001	32	20	1,799
2002	35	20	2,120
2003	35	19	1,495
2004	33	23	1,203
2005	33	22	1,444
2006	36	22	1,361
2007	34	26	1,133
2008	40	25	1,453
2009	39	24	1,152
2010	35	29	1,359
2011	38	30	1,420
2012	38	25	978
Total	945	621	33,746



Table 29.—Summary of pink salmon production from Alaska hatcheries and fisheries enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1973	1	0	0
1974	5	0	0
1975	15	5	6
1976	23	4	8
1977	66	18	148
1978	79	50	325
1979	91	60	1,591
1980	174	64	2,310
1981	328	135	4,364
1982	344	218	6,586
1983	406	261	5,939
1984	443	338	5,297
1985	604	366	14,124
1986	511	484	8,450
1987	859	443	21,742
1988	797	730	13,286
1989	975	675	31,209
1990	1,013	811	40,947
1991	998	862	39,038
1992	1,077	797	14,235
1993	1,031	919	20,094
1994	1,076	787	40,928
1995	1,162	921	24,770
1996	929	999	28,833
1997	1,064	773	33,957
1998	1,119	873	38,651
1999	1,085	878	51,973
2000	1,074	880	40,395
2001	1,101	942	47,247
2002	1,168	938	30,835
2003	1,108	962	59,773
2004	960	965	30,565
2005	949	808	69,076
2006	964	809	26,702
2007	952	851	64,308
2008	908	823	43,411
2009	943	818	29,276
2010	979	855	73,849
2011	1,023	883	31,623
2012	861	943	27,999
Total	29,265	23,949	1,023,872

Table 30.—Summary of chum salmon production from Alaska hatcheries and fisheries enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1974	1	0	0
1975	5	1	0
1976	7	2	0
1977	8	3	0
1978	12	4	3
1979	26	7	6
1980	74	13	16
1981	87	46	53
1982	125	63	153
1983	149	94	301
1984	269	108	1,809
1985	245	201	1,404
1986	374	182	1,879
1987	380	298	1,888
1988	392	289	2,493
1989	293	310	1,346
1990	450	241	2,037
1991	480	365	2,181
1992	510	428	3,094
1993	496	459	6,707
1994	529	407	8,989
1995	596	473	9,533
1996	590	535	16,353
1997	524	478	12,761
1998	517	479	13,407
1999	636	461	15,073
2000	541	508	18,806
2001	568	467	9,166
2002	549	451	12,568
2003	675	466	13,710
2004	665	578	10,939
2005	627	549	7,558
2006	714	539	15,714
2007	639	609	12,338
2008	615	567	13,655
2009	705	552	12,670
2010	700	609	12,955
2011	743	563	12,013
2012	740	633	15,544
Total	16,256	13,041	269,121

Table 31.–Summary of commercial harvest of salmon from Alaska fisheries enhancement projects, in thousands of fish.

Year	Total commercial harvest <sup>a</sup>	Total cost recovery harvest	CCPH <sup>b</sup>	Hatchery-produced fish in CCPH	% of hatchery-produced fish in CCPH
1977	50,812	109	50,703	15	0%
1978	82,289	215	82,074	3	0%
1979	88,762	253	88,509	949	1%
1980	110,012	347	109,666	1,711	2%
1981	113,333	856	112,477	3,476	3%
1982	111,580	1,364	110,216	4,903	4%
1983	127,706	856	126,850	4,874	4%
1984	133,644	1,043	132,600	5,161	4%
1985	146,388	1,854	144,534	12,835	9%
1986	128,948	1,212	127,737	9,147	7%
1987	96,618	4,181	92,437	17,925	19%
1988	100,565	2,499	98,066	12,808	13%
1989	154,129	15,013	139,116	16,057	12%
1990	155,058	10,388	144,670	33,876	23%
1991	189,531	13,169	176,362	29,400	17%
1992	136,726	7,255	129,471	11,358	9%
1993	193,116	4,847	188,268	23,823	13%
1994	195,537	15,906	179,631	34,688	19%
1995	217,851	9,285	208,566	24,265	12%
1996	176,094	14,657	161,437	28,851	18%
1997	123,130	19,410	103,719	26,780	26%
1998	151,830	15,649	136,181	34,554	25%
1999	216,824	22,608	194,217	42,675	22%
2000	137,574	18,991	118,583	39,789	34%
2001	175,172	18,444	156,728	38,509	25%
2002	131,356	19,068	112,288	25,744	23%
2003	177,978	22,937	155,041	49,882	32%
2004	167,581	22,015	145,565	20,104	14%
2005	221,909	21,263	200,646	53,566	27%
2006	140,641	18,942	121,699	23,723	19%
2007	213,011	19,601	193,410	57,682	30%
2008	146,323	12,898	133,425	44,921	34%
2009	163,013	13,789	149,224	28,139	19%
2010	171,754	10,464	161,291	77,295	48%
2011	176,804	12,153	164,651	32,787	20%
2012	127,074	7,327	119,747	37,178	31%

Source: Commercial harvest, ADF&G fish ticket database.

<sup>a</sup> Total commercial harvest by all commercial gear types, including fish harvested for cost recovery.

<sup>b</sup> CCPH = commercial common property harvest.

Table 32.—Actively operated Alaska hatcheries.

Area	Type Code/Agency	Mailing Address	City, State, Zip	Office phone	Hatchery	Hatchery Manager	Director	Email
Southern Southeast								
R	SSRAA	14 Borch Street	Ketchikan, AK 99901	(907) 225-9605 (907) 254-1242 (907) 772-4772 (907) 247-8790 (907) 225-2635	Burnett Inlet Crystal Lake <sup>a</sup> Neets Bay Whitman Lake	Ron Parsley Loren Thompson Matt Allen Jay Creasy	John Burke	<a href="mailto:johnb@ssraa.org">johnb@ssraa.org</a> <a href="mailto:burnettinlet@starband.net">burnettinlet@starband.net</a> <a href="mailto:crystal.lake@starband.net">crystal.lake@starband.net</a> <a href="mailto:neetsbay@starband.net">neetsbay@starband.net</a> <a href="mailto:whitman@kpunet.net">whitman@kpunet.net</a>
N	KTHC	1158 Salmon Rd	Ketchikan, AK 99901	(907) 228-5531	Deer Mountain	Jerry Guthrie		<a href="mailto:jguthrie@kictribe.org">jguthrie@kictribe.org</a>
N	POWHA	PO Box 554	Craig, AK 99921	(907) 755-2231 (907) 826-2551	Klawock River <sup>a</sup> Port Saint Nicholas	Dan Goodness Dan Goodness	Dan Goodness	<a href="mailto:dgoodness@hotmail.com">dgoodness@hotmail.com</a> <a href="mailto:powha@hughes.net">powha@hughes.net</a>
F	MIC	PO Box 8	Metlakatla, AK 99929	(907) 886-3150	Tamgas Creek	Steve Leask		<a href="mailto:tchsteve@hughes.net">tchsteve@hughes.net</a>
Northern Southeast								
R	NSRAA	1308 Sawmill Cr. Rd	Sitka, AK 99835	(907) 747-6850 (907) 766-3110 (907) 725-0995 (907) 747-5863 (907) 738-1438	Haines Projects Hidden Falls <sup>a</sup> Medvejie Creek Sawmill Creek	Benji Burbank Adam Olson Bill Coltharp Bill Coltharp	Steve Reifensstuhl	<a href="mailto:steve_reifensstuhl@nsraa.org">steve_reifensstuhl@nsraa.org</a> <a href="mailto:benji_burbank@nsraa.org">benji_burbank@nsraa.org</a> <a href="mailto:adam_olson@nsraa.org">adam_olson@nsraa.org</a> <a href="mailto:bill_coltharp@nsraa.org">bill_coltharp@nsraa.org</a> <a href="mailto:bill_coltharp@nsraa.org">bill_coltharp@nsraa.org</a>
N	AKI	PO Box 21990	Juneau, AK 99802	(907) 568-3443 (907) 568-2228	Port Armstrong	Ben Contag	Bart Watson	<a href="mailto:aki@ak.net">aki@ak.net</a> <a href="mailto:portarmstrong@starband.net">portarmstrong@starband.net</a>
N	DIPAC	2697 Channel Dr.	Juneau, AK 99801	(907) 463-5114 (907) 463-5114 (907) 463-5115	Macaulay Snettisham <sup>a</sup>	Andrew Ollenburg Kevin Steck	Eric Prestegard	<a href="mailto:eric_prestegard@dipac.net">eric_prestegard@dipac.net</a> <a href="mailto:andrew_ollenburg@dipac.net">andrew_ollenburg@dipac.net</a> <a href="mailto:kevin_steck@dipac.net">kevin_steck@dipac.net</a>
N	KNFC	PO Box 523	Kake, AK 99830	(907) 785-6460	Gunnuk Creek	John Oliva	John Oliva	<a href="mailto:gunnukcreek@hughes.net">gunnukcreek@hughes.net</a>
N	SSSC	PO Box 1373	Sitka, AK 99835	(907) 747-8878 (907) 747-8878	Sheldon Jackson	Lon Garrison	Lisa Busch	<a href="mailto:lisajeانبusch@gmail.com">lisajeانبusch@gmail.com</a> <a href="mailto:lon.garrison@gmail.com">lon.garrison@gmail.com</a>
F	NMFS	17109 Lena Pt Loop Rd	Juneau, AK 99801	(907) 789-6055 (907) 789-6618	Little Port Walter Auke Creek	Andrew Gray John Joyce		<a href="mailto:andrew.gray@noaa.gov">andrew.gray@noaa.gov</a> <a href="mailto:john.joyce@noaa.gov">john.joyce@noaa.gov</a>
Prince William Sound								
R	PWSAC	PO Box 1110	Cordova, AK 99574	(907) 424-7511	AF Koernig Cannery Creek <sup>a</sup> Gulkana <sup>a</sup> Main Bay <sup>a</sup> W Noerenberg	Adam Miller Lance Uselman Gary Martinek Jason Myhrer Rob Unger	Dave Reggiani	<a href="mailto:dave.pwsac@ak.net">dave.pwsac@ak.net</a> <a href="mailto:afk.pwsac@ak.net">afk.pwsac@ak.net</a> <a href="mailto:cch.pwsac@ak.net">cch.pwsac@ak.net</a> <a href="mailto:gkh.cvinternat@ak.net">gkh.cvinternat@ak.net</a> <a href="mailto:mbh.pwsac@ak.net">mbh.pwsac@ak.net</a> <a href="mailto:wnh.pwsac@ak.net">wnh.pwsac@ak.net</a>
N	VFDA	PO Box 125	Valdez, AK 99686	(907) 835-4874 (907) 835-1329	Solomon Gulch	Mike Anderson	Mike Wells	<a href="mailto:vfdamike@valdezfisheries.com">vfdamike@valdezfisheries.com</a> <a href="mailto:vfda@cvinternat.net">vfda@cvinternat.net</a>
Cook Inlet								
R	CIAA	40610 Kalifornsky Beach Rd	Kenai, AK 99611	(907) 283-5761 (907) 288-3688	Trail Lakes <sup>a</sup> Tutka Bay Lagoon <sup>a</sup>	Tom Prochazka Mark Thomas	Gary Fandrei	<a href="mailto:gfandrei@ciaanet.org">gfandrei@ciaanet.org</a> <a href="mailto:tprochazka_tlh@ciaanet.org">tprochazka_tlh@ciaanet.org</a> <a href="mailto:mthomas_tlh@ciaanet.org">mthomas_tlh@ciaanet.org</a>
N	PGHC	PO Box 5543	Port Graham, AK 99603	(907) 284-2233	Port Graham		Patrick Norman	<a href="mailto:pnormanvc@hotmail.com">pnormanvc@hotmail.com</a>
S	ADF&G	333 Raspberry Rd 941 N. Reeve Blvd	Anchorage, AK 99518 Anchorage, AK 99501	(907) 267-2523 (907) 269-2000	Ship Creek Complex <sup>b</sup>	Andrea Tesch	Jeff Milton	<a href="mailto:jeffrey.milton@alaska.gov">jeffrey.milton@alaska.gov</a> <a href="mailto:andrea_tesch@alaska.gov">andrea_tesch@alaska.gov</a>

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Area							
Type Code/Agency	Mailing Address	City, State, Zip	Office phone	Hatchery	Hatchery Manager	Director	Email
Kodiak							
R	KRAA	104 Center Street Suite 205	Kodiak, AK 99615	(907) 486-6555 (907) 486-4730 (907) 743-0617	Pillar Creek <sup>a</sup> Kitoi Bay <sup>a</sup>	Alan Seale Andrew Aro	Kevin Brennan <a href="mailto:kraa@gci.net">kraa@gci.net</a> <a href="mailto:pch@gci.net">pch@gci.net</a> <a href="mailto:kitoi@gci.net">kitoi@gci.net</a>
Arctic-Yukon-Kuskokwim							
S	ADF&G	1150 Wilbur Street	Fairbanks, AK 99701	(907) 451-2661	Ruth Burnett	Gary George	Jeff Milton <a href="mailto:gary.george@alaska.gov">gary.george@alaska.gov</a>

*Note:* R=Regional Aquaculture Association PNP hatchery, N=Non-Regional Association PNP hatchery, F=Federal/Bureau of Indian Affairs hatchery, S=State hatchery

<sup>a</sup> State-owned hatchery contracted to private sector.

<sup>b</sup> Ship Creek Complex is the combination of William Jack Hernandez and Fort Richardson Sport Fish hatcheries.

Table 33.—Active Alaska hatcheries and hatchery permits.

Area	Type Code	Agency	Corporate name	Hatchery	PNP Permit #	PNP permit issued	Species permitted	Web Site
Southern Southeast								
R	SSRAA	Southern Southeast Regional Aquaculture Assoc.	Burnett Inlet	40	9/30/1997	sockeye, coho, chum	<a href="http://www.ssraa.org">www.ssraa.org</a>	
			Crystal Lake <sup>a</sup>	NA		Chinook, coho		
			Neets Bay	19	6/17/1983	chum, coho, Chinook		
			Whitman Lake	8	3/9/1978	chum, coho, Chinook		
N	KTHC	Ketchikan Tribal Hatchery Corporation	Deer Mountain	37	6/22/1994	Chinook, coho, steelhead, rainbow	<a href="http://www.dmthec.org">www.dmthec.org</a>	
N	POWHA	Prince of Wales Hatchery Association	Klawock River <sup>a</sup>	38	2/19/1996	coho, sockeye, steelhead	<a href="http://www.powha.org">www.powha.org</a>	
			Port Saint Nicholas	43	6/25/2004	Chinook		
F	MIC	Tamgas Creek Hatchery	Tamgas Creek			chum, coho, Chinook, sockeye		
Northern Southeast								
R	NSRAA	Northern Southeast Regional Aquaculture Assoc.	Haines Projects	34	4/29/1992	chum, sockeye	<a href="http://www.nsraa.org">www.nsraa.org</a>	
			Hidden Falls <sup>a</sup>	28	6/22/1988	chum, Chinook, coho		
			Medvejie Creek	16	8/17/1981	chum, coho, Chinook, pink		
			Sawmill Creek	44	3/11/2007	coho		
N	AKI	Armstrong-Keta, Inc.	Port Armstrong	13	2/23/1981	pink, chum, Chinook, coho	<a href="http://www.armstrongketa.org">www.armstrongketa.org</a>	
N	DIPAC	Douglas Island Pink and Chum, Inc	Macaulay	25	6/3/1987	chum, pink, coho, Chinook	<a href="http://www.dipac.net">www.dipac.net</a>	
			Sheep Creek	11	9/19/1979	chum, pink, coho		
			Snettisham <sup>a</sup>	39	7/15/1996	sockeye		
N	KNFC	Kake Nonprofit Fisheries Corporation	Gunnuk Creek	7	4/1/1977	pink, chum, coho	<a href="http://www.gunnukcreekhatchery.org">www.gunnukcreekhatchery.org</a>	
N	SSSC	Sitka Sound Science Center	Sheldon Jackson	45	4/13/2011	pink, chum, coho	<a href="http://www.sitkasoundsciencecenter.org">www.sitkasoundsciencecenter.org</a>	
F	NMFS	National Marine Fisheries Service	Little Port Walter	NA		Chinook, pink, steelhead	<a href="http://www.afsc.noaa.gov/ABL">www.afsc.noaa.gov/ABL</a>	
			Auke Creek	NA		pink, chum, sockeye, coho	<a href="http://www.afsc.noaa.gov/ABL">www.afsc.noaa.gov/ABL</a>	
Prince William Sound								
R	PWSAC	Prince William Sound Aquaculture Association	AF Koernig	2	9/29/1975	pink, chum	<a href="mailto:www.pwsac@ak.net">www.pwsac@ak.net</a>	
			Cannery Creek <sup>a</sup>	26	6/22/1988	pink		
			Gulkana <sup>a</sup>	42	7/5/2000	sockeye		
			Main Bay <sup>a</sup>	31	4/17/2001	sockeye		
			W Noerenberg	20	6/17/1983	pink, chum, Chinook, coho		
N	VFDA	Valdez Fisheries Development Association	Solomon Gulch	15	6/26/1981	pink, coho, Chinook		

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Area	Type Code	Agency	Corporate name	Hatchery	PNP Permit #	PNP permit issued	Species permitted	Web Site
Cook Inlet								
N	PGHC		Port Graham Hatchery Corporation	Port Graham	33	8/3/1992	pink, sockeye	
R	CIAA		Cook Inlet Aquaculture Association	Eklutna	17	2/5/1982	sockeye, coho	<a href="http://www.ciaanet.org">www.ciaanet.org</a>
				Trail Lakes <sup>a</sup>	27	6/22/1988	sockeye, coho, Chinook	
				Tutka Bay Lagoon <sup>a</sup>	32	1/3/1994	pink, sockeye	
S	ADF&G	Alaska Department of Fish and Game		Ship Creek Complex <sup>b</sup>	NA		char, grayling, rainbow trout, Chinook, coho	<a href="http://www.adfg.alaska.gov">www.adfg.alaska.gov</a>
Kodiak								
R	KRAA		Kodiak Regional Aquaculture Association	Pillar Creek <sup>a</sup>	41	5/1/1998	sockeye, coho, Chinook, rainbow trout	<a href="http://www.kraakodiak.org">www.kraakodiak.org</a>
				Kitoi Bay <sup>a</sup>	29	7/5/1988	pink, chum, coho, sockeye	—
Arctic-Yukon-Kuskokwim								—
S	ADF&G	Alaska Department of Fish and Game		Ruth Burnett	NA		char, grayling, rainbow trout, Chinook, coho	<a href="http://www.adfg.alaska.gov">www.adfg.alaska.gov</a>

Codes: R=Regional Aquaculture Association PNP hatchery, N=Non-Regional Association PNP hatchery, F=Federal/Bureau of Indian Affairs hatchery, S=State hatchery

<sup>a</sup> State-owned hatchery contracted to private sector.

<sup>b</sup> Ship Creek Complex is the combination of William Jack Hernandez and Fort Richardson Sport Fish hatcheries.

Table 34.—Permitted capacity of Alaska private nonprofit hatcheries, in millions of eggs, 2012.

Region	Corp.	Hatchery	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southern Southeast									
	SSRAA	Burnett Inlet		2.70	4.50		25.00		32.20
		Crystal Lake <sup>a</sup>							0.00
		Neets Bay	2.00		5.00		102.70		109.70
		Whitman Lake	1.50		7.00		44.30		52.80
	KTHC	Deer Mountain	0.13		0.38			0.05	0.56
	POWHA	Klawock River		5.00	5.00			0.05	10.05
		Port Saint Nicholas	0.77						0.77
	Southern Southeast Total		4.40	7.70	21.88	0.00	172.00	0.10	206.08
Northern Southeast									
	NSRAA	Haines Projects		2.00			4.80		6.80
		Hidden Falls	3.80		7.70		101.00		112.50
		Medvejie Creek	5.20		0.41	0.30	77.00		82.91
		Sawmill Creek			4.33				4.33
	AKI	Port Armstrong <sup>b</sup>	2.00		5.00	85.00	30.00		122.00
	DIPAC	Macaulay	1.25		1.50	50.00	125.00		177.75
		Sheep Creek			0.15				0.15
		Snettisham		33.50					33.50
	KNFC	Gunnuk Creek			0.50	20.00	65.00		85.50
	SSSC	Sheldon Jackson			0.25	3.00	10.00		13.25
	Northern Southeast Total		12.25	35.50	19.84	158.30	412.80	0.00	638.69
Southeast Totals			16.65	43.20	41.72	158.30	584.80	0.10	844.78
Prince William Sound									
	PWSAC	Armin F. Koernig				162.00	34.00		196.00
		Cannery Creek				187.00			187.00
		Gulkana		36.75					36.75
		Main Bay		12.40					12.40
		Wally Noerenberg	4.00		4.00	148.00	131.00		287.00
	VFDA	Solomon Gulch	0.30		2.00	230.00			232.30
	Prince William Sound Totals		4.30	49.15	6.00	727.00	165.00	0.00	951.45
Cook Inlet									
	CIAA	Eklutna		18.00	0.16				18.16
		Trail Lakes	4.00	30.00	6.00				40.00
		Tutka Bay		0.66		125.00			125.66
	PGHC	Port Graham		1.35		110.00			111.35
	Cook Inlet Totals		4.00	50.01	6.16	235.00	0.00	0.00	295.17
Southcentral Totals			8.30	99.16	12.16	962.00	165.00	0.00	1,246.62
Kodiak									
	KRAA	Kitoi Bay		0.60	2.30	215.00	28.00		245.90
		Pillar Creek	0.45	20.00	0.50			0.09	21.04
Kodiak Totals			0.45	20.60	2.80	215.00	28.00	0.09	266.94
Statewide Total			25.40	162.96	56.68	1,335.30	777.80	0.19	2,358.34

Note: Some figures may not total exactly due to rounding.

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

<sup>b</sup> Port Armstrong can take up to 5.0 million Chinook and coho salmon eggs in combination, not to exceed 2.0 million Chinook.



Table 35.—Alaska salmon fisheries enhancement program timeline of events.

Year	Event	No. of state operated hatcheries	No. of 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 Fort Richardson	3		
1959	Statehood. Alaska becomes the 49th US state.			
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) State enhancement projects at Starrigavan and Halibut Cove started Limited Entry law enacted, creating fishery limitations for the purpose of conservation.	7		
1974	2 state hatcheries constructed (Beaver Falls and East Creek) Legislature authorizes permits for PNP 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)]		4	
	2 state hatcheries constructed (Big Lake and Tutka Bay Lagoon)	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) 2 state hatcheries constructed (Klawock River 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)	17	11	
	1 state hatchery closed (Fire Lake)	16		

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Table 35.—Page 2 of 4.

Year	Event	No. of state operated hatcheries	No. of PNP owned or operated hatcheries	No. of federal hatcheries
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		
	2 state hatcheries constructed (Sikusuilaq and Trail Lakes)	19		
	1 PNP hatchery permit rescinded & new permit issued to new operator at Salmon Creek [#9, new #14]		12	
	3 PNP permits issued [Port Armstrong (#13), Solomon Gulch (#15), Medvejie Creek (#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 Salmon Hatchery in 2000 (#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 rescinded [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			

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Table 35.—Page 3 of 4.

Year	Event	No. of state operated hatcheries	No. of PNP owned or operated hatcheries	No. of federal hatcheries
1992	1 state hatchery closed (Russell Creek)	11		
	2 PNP permits issued [Port Graham (#33), Haines projects (#34)]		33	
	1 PNP permit revoked [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)			
	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 River (#36), Deer Mountain (#37)]			
	Ft. Richardson Hatchery merged with Broodstock Development Center	6		
1995	1 PNP hatchery permit rescinded and new permit issued to new operator at Klawock River (#36, new #38)		35	
	1 state hatchery transferred from Division of Commercial Fisheries Management & Development to Division of Sport Fish (Crystal Lake)			
	1 state hatchery closed (Sikusuilag)	5		
1996	1 state hatchery contracted to private sector [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 rescinded & new permit issued to new operator at Burnett Inlet (#5, new #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 rescinded [Port Camden (# 23)]		31	

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Table 35.—Page 4 of 4.

Year	Event	No. of state operated hatcheries	No. of PNP owned or operated hatcheries	No. of federal hatcheries
2001	1 PNP hatchery permit rescinded [Kowee Creek (#6)]		30	
2004	1 PNP hatchery permit issued [Port Saint Nicholas (#43)]		31	
2007	1 PNP hatchery permit issued [Sawmill Creek (#44)]		32	
2008	1 PNP hatchery permit rescinded [Burro Creek (#12)]		31	
2011	1 PNP hatchery permit rescinded & new permit issued to new operator at Sheldon Jackson (#3, new #45)	2	31	3
	1 state hatchery closed (Elmendorf), 1 state hatchery opened (William Jack Hernandez)	2	31	3
2012	1 state hatchery opened (Ruth Burnett)	3	31 <sup>a</sup>	3

*Note:* PNP hatcheries Perry Island and Bell Island are inactive.

<sup>a</sup> There are 11 state-owned hatcheries that are contracted to PNP operators.

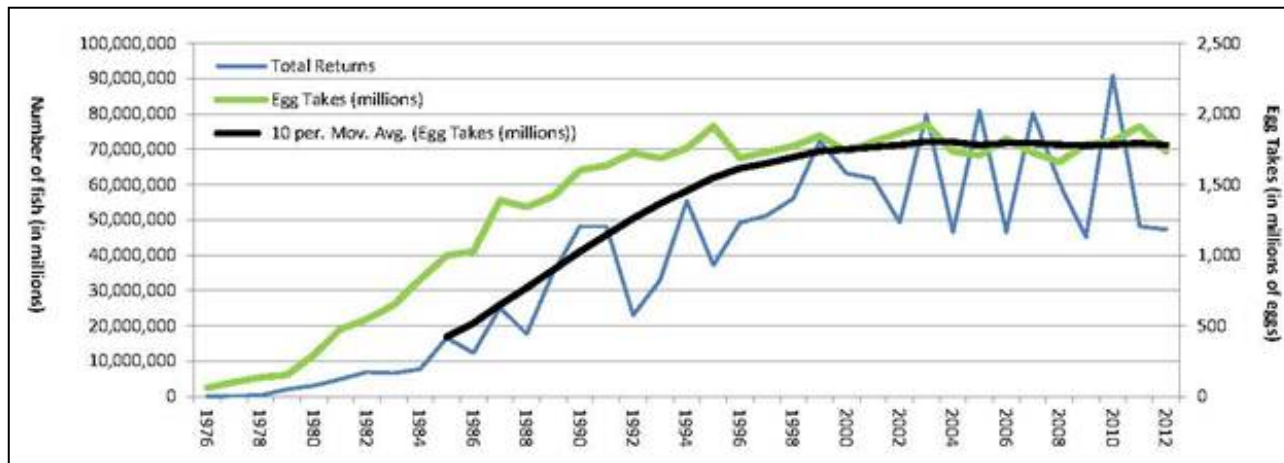


Figure 1.—Total egg takes and returns, in millions of fish, for Alaska salmon hatchery programs, 1976 to 2012.

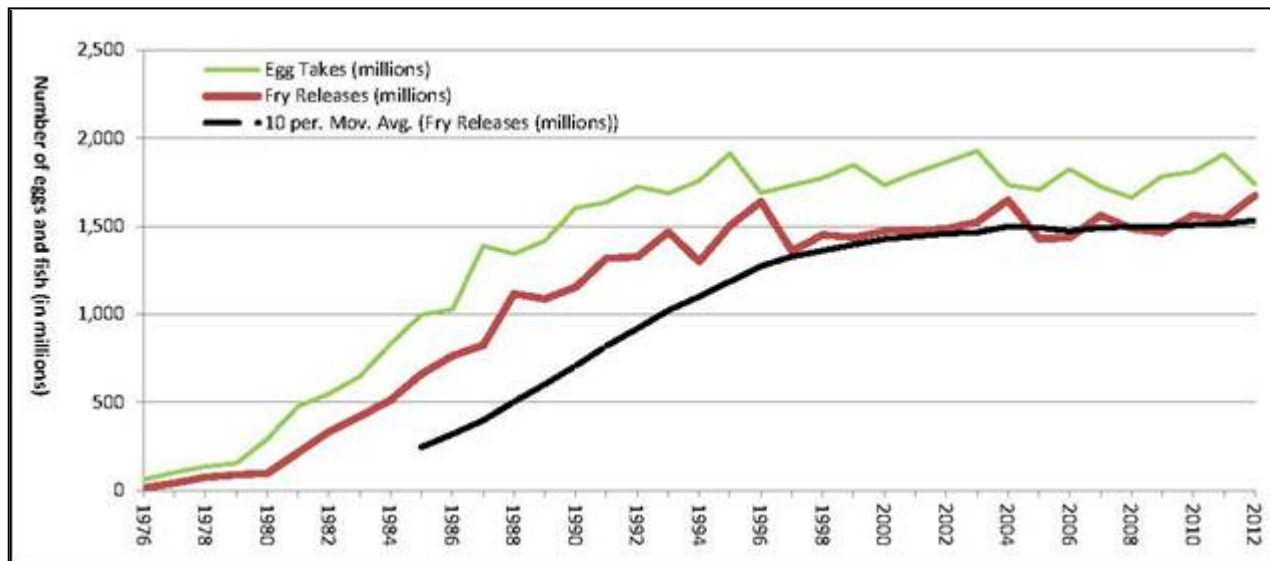


Figure 2.— Total egg takes and juvenile releases, in millions of fish, for Alaska salmon hatchery programs, 1976 to 2012.

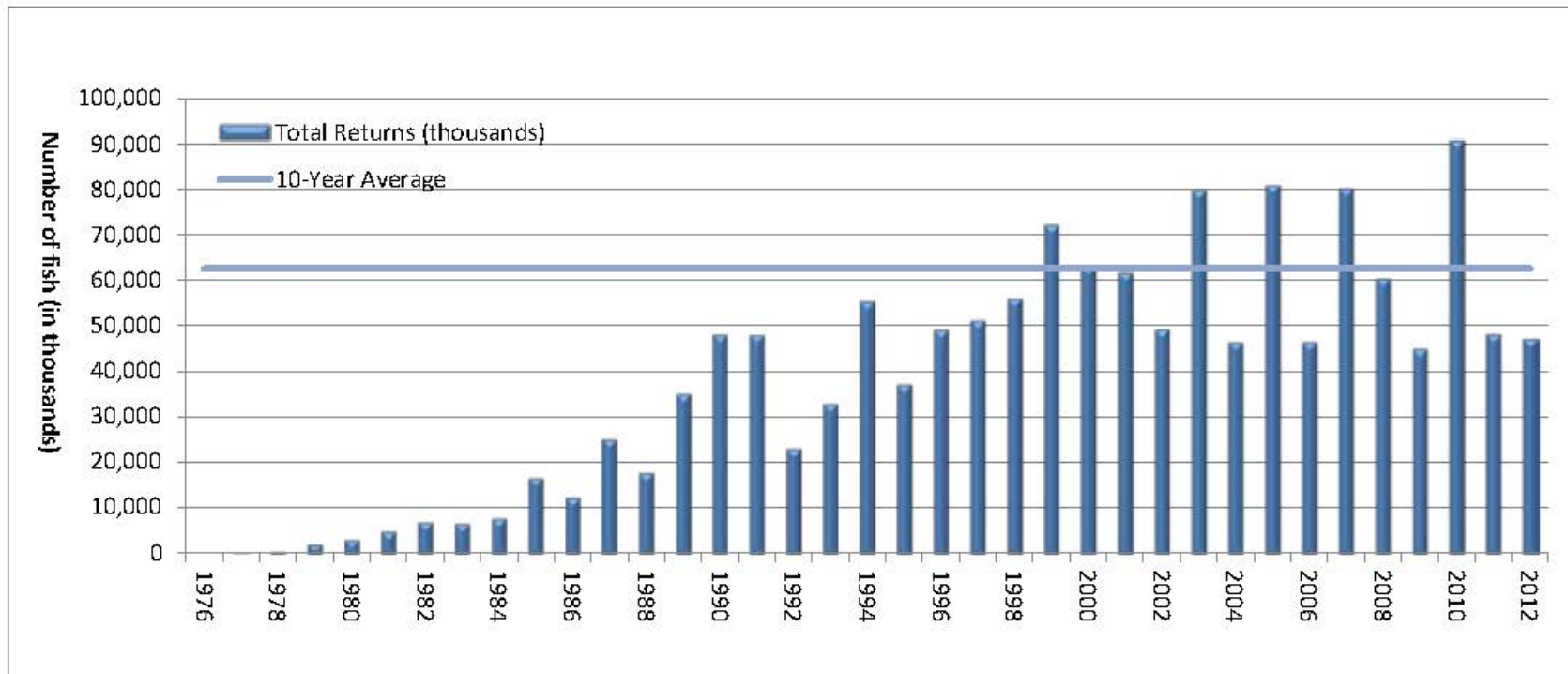


Figure 3.— Total returns in the Alaska salmon hatchery program, 1976 to 2012, with the recent 10-year average.

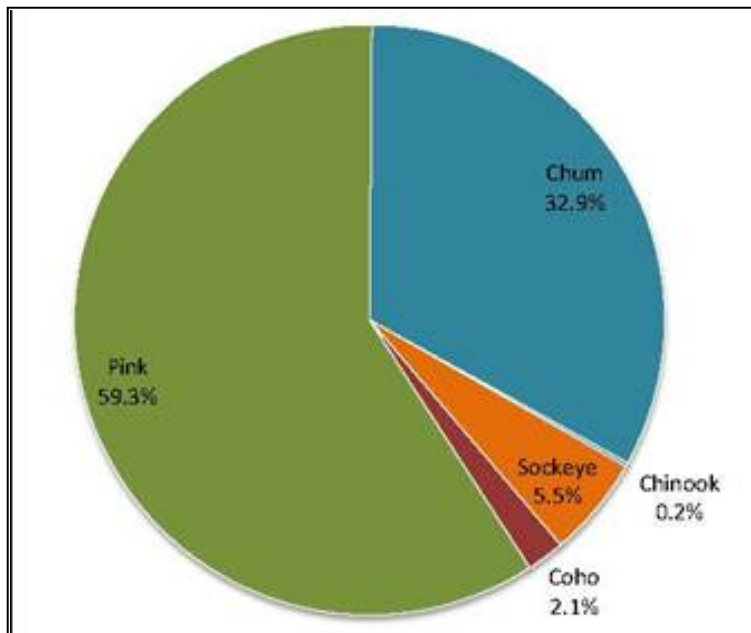


Figure 4.—Alaska salmon hatchery returns by species in 2012.

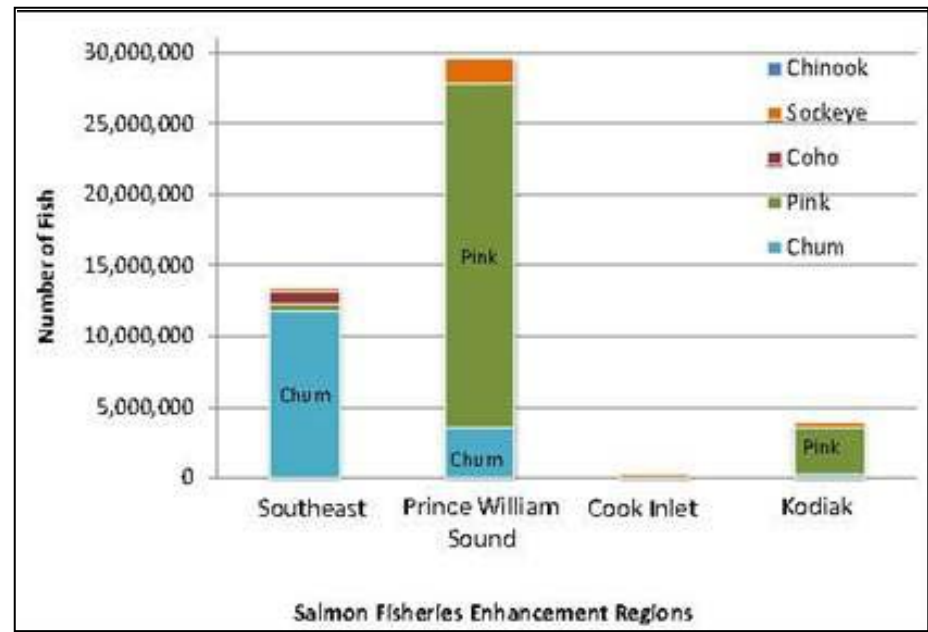


Figure 5.—Alaska salmon hatchery returns by species and region in 2012.

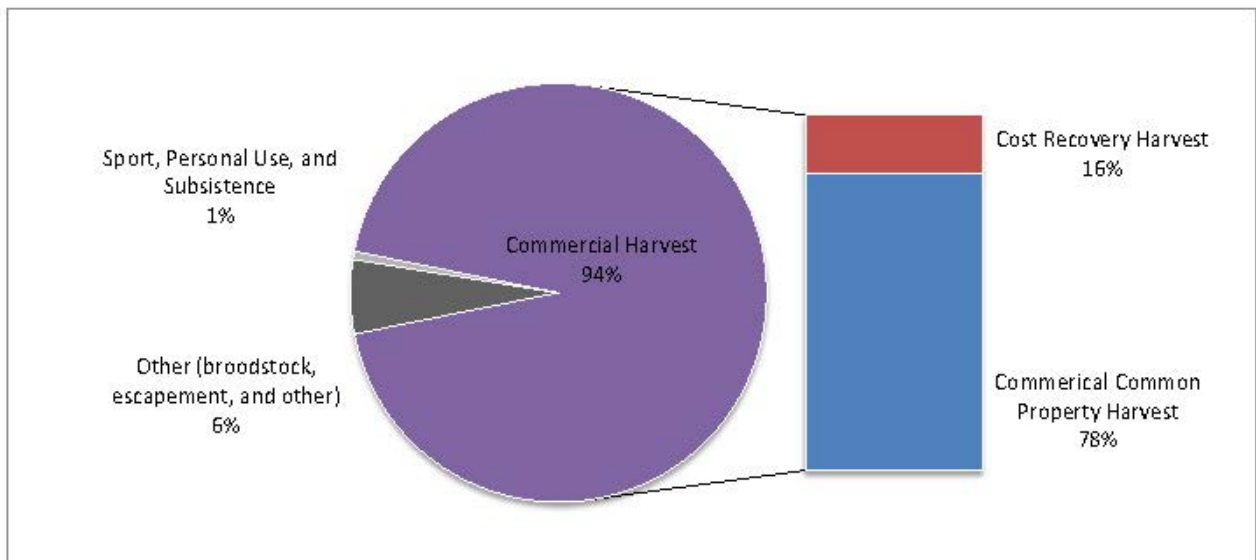


Figure 6.—Alaska salmon hatchery returns contributions, in 2012.

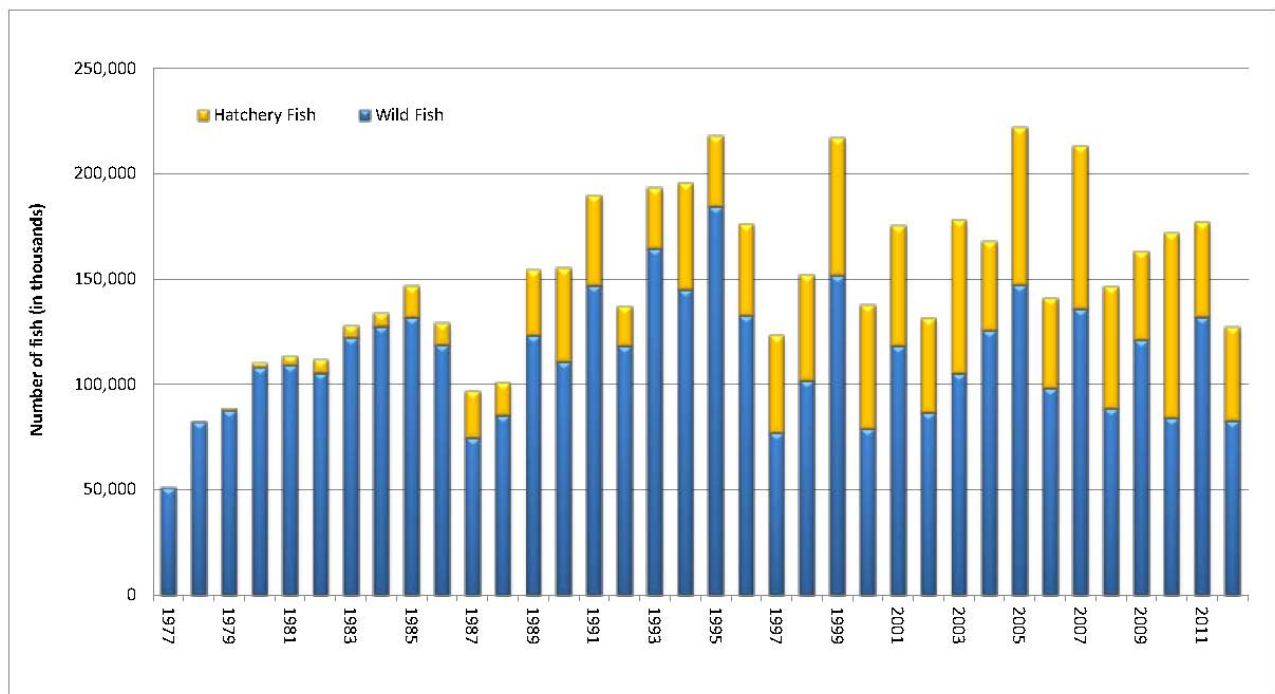


Figure 7.—Alaska commercial harvest of wild and hatchery returns of salmon in 2012.



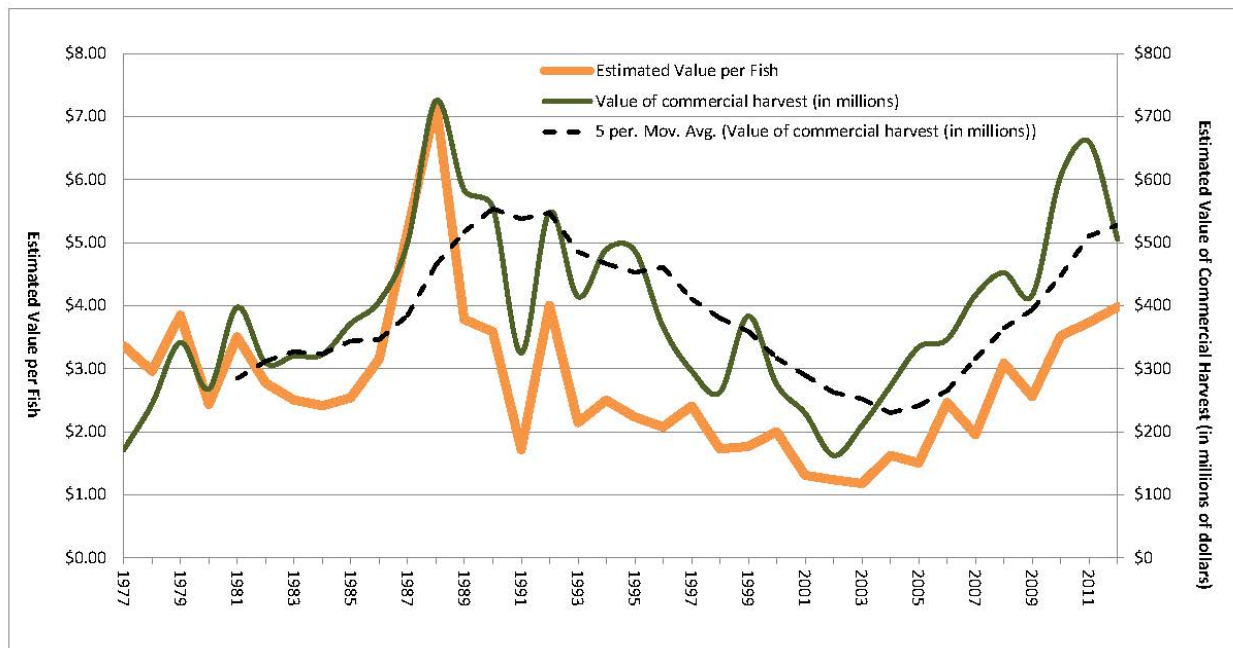


Figure 8.—Estimated exvessel value of Alaska commercial harvest of wild and hatchery returns of salmon in 2012, including estimated exvessel value per fish.

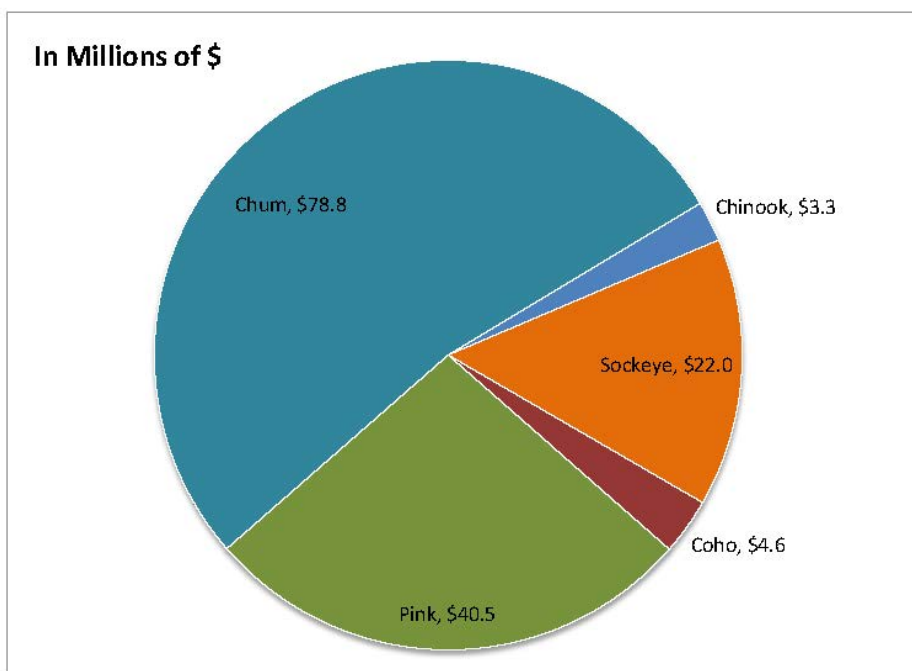


Figure 9.—Exvessel value of hatchery-produced salmon harvested in commercial common property fishery, by species, in millions of dollars, 2012.

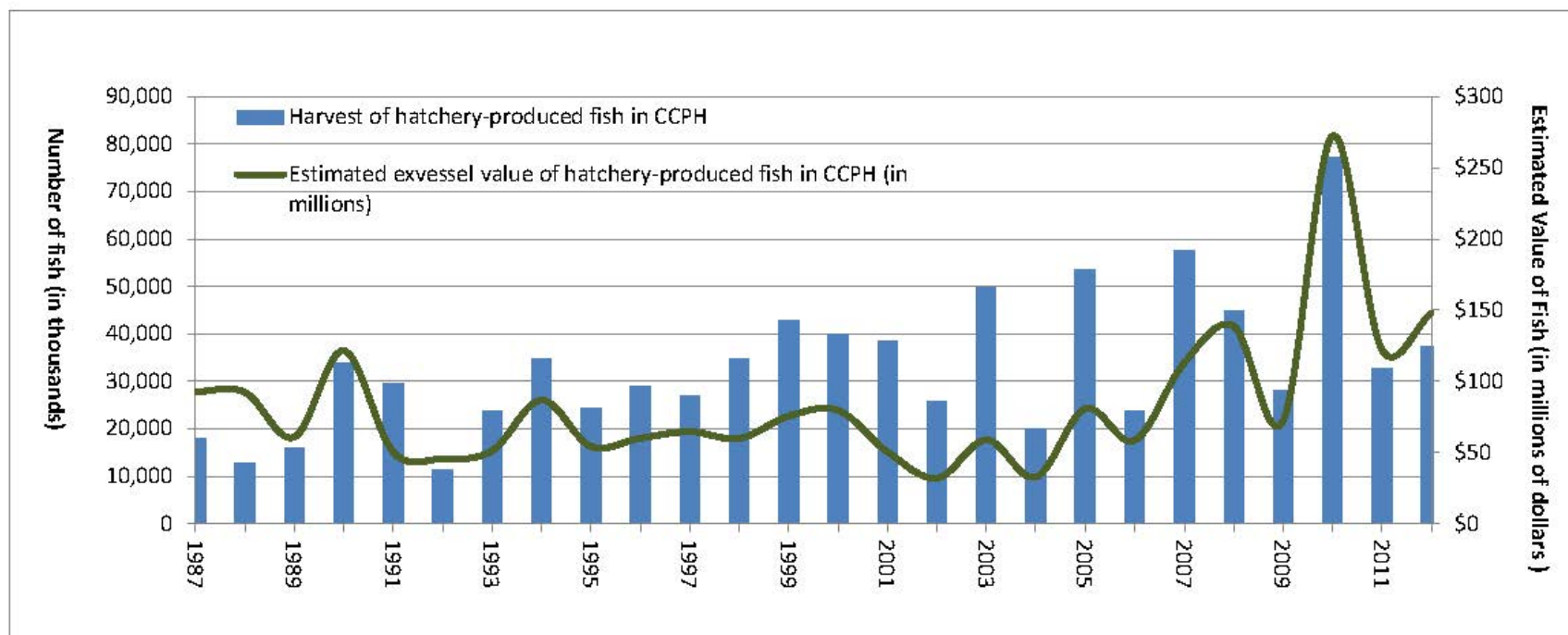


Figure 10.—Alaska fisheries enhancement program contribution to commercial common property harvest (CPH) salmon fisheries.

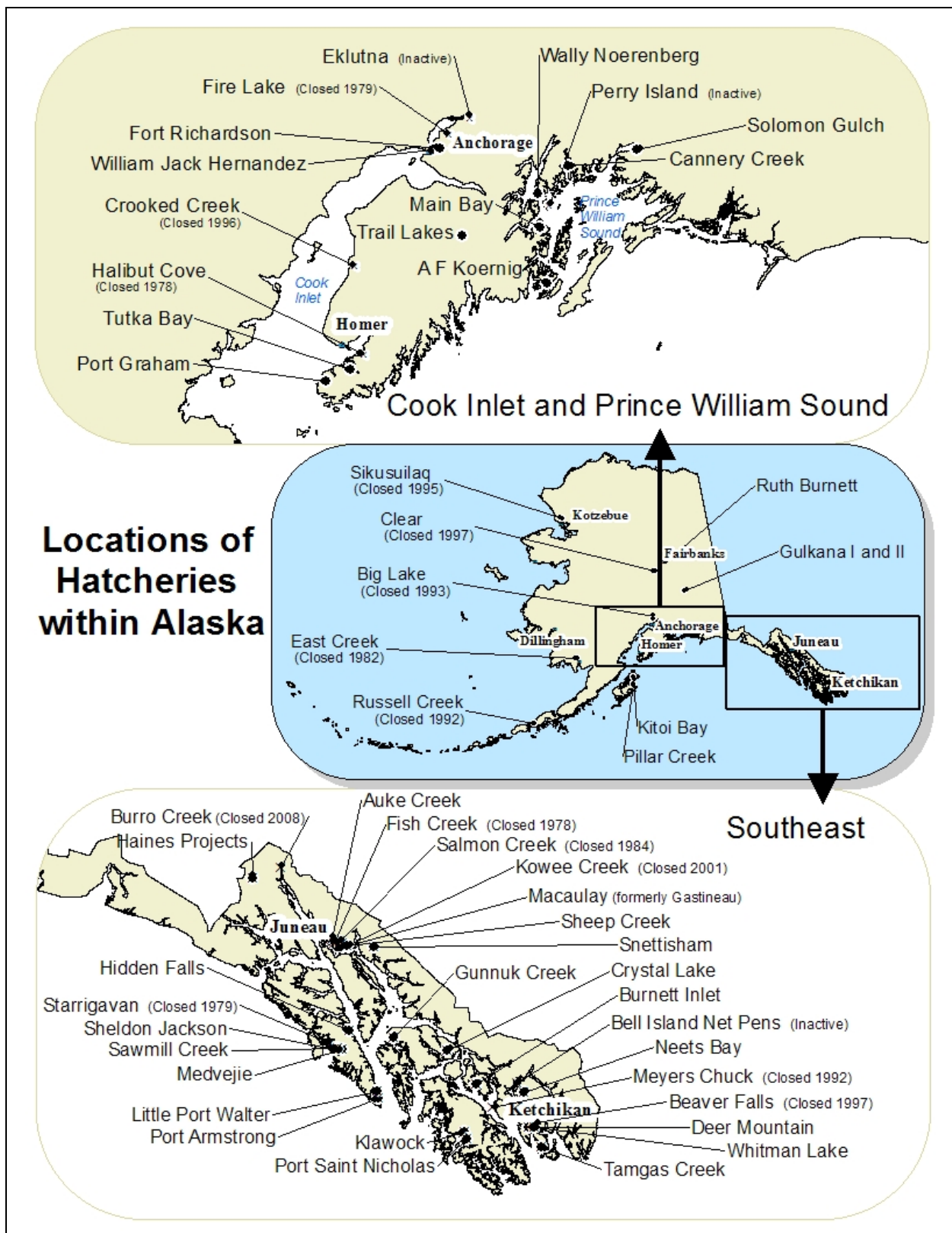


Figure 11.—Locations of hatcheries in Alaska.