

Fishery Management Report No. 14-12

Alaska Salmon Fisheries Enhancement Program 2013 Annual Report

by

Lorraine Vercessi



March 2014

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	AAC	<i>all standard mathematical signs, symbols and abbreviations</i>	
deciliter	dL	Code		alternate hypothesis	H _A
gram	g	all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.	base of natural logarithm	e
hectare	ha			catch per unit effort	CPUE
kilogram	kg			coefficient of variation	CV
kilometer	km	all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.	common test statistics	(F, t, χ^2 , etc.)
liter	L			confidence interval	CI
meter	m		@	correlation coefficient	R
milliliter	mL	at		(multiple)	
millimeter	mm	compass directions:		correlation coefficient	
		east	E	(simple)	r
		north	N	covariance	cov
		south	S	degree (angular)	°
		west	W	degrees of freedom	df
		copyright	©	expected value	E
		corporate suffixes:		greater than	>
		Company	Co.	greater than or equal to	≥
		Corporation	Corp.	harvest per unit effort	HPUE
		Incorporated	Inc.	less than	<
		Limited	Ltd.	less than or equal to	≤
		District of Columbia	D.C.	logarithm (natural)	ln
		et alii (and others)	et al.	logarithm (base 10)	log
		et cetera (and so forth)	etc.	logarithm (specify base)	log ₂ , etc.
		exempli gratia	e.g.	minute (angular)	'
		(for example)		not significant	NS
		Federal Information		null hypothesis	H ₀
		Code	FIC	percent	%
		id est (that is)	i.e.	probability	P
		latitude or longitude	lat. or long.	probability of a type I error	
		monetary symbols		(rejection of the null hypothesis when true)	α
		(U.S.)	\$, ¢	probability of a type II error	
		months (tables and figures): first three letters	Jan,...,Dec	(acceptance of the null hypothesis when false)	β
				second (angular)	"
		registered trademark	®	standard deviation	SD
		trademark	™	standard error	SE
		United States		variance	
		(adjective)	U.S.	population	Var
		United States of America (noun)	USA	sample	var
			United States Code		
		U.S.C.			
		U.S. state	use two-letter abbreviations (e.g., AK, WA)		
volts	V				
watts	W				

FISHERY MANAGEMENT REPORT 14-12

ALASKA SALMON FISHERIES ENHANCEMENT PROGRAM 2013 ANNUAL REPORT

by

Lorraine Vercessi

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

March 2014

Alaska Department of Fish and Game
Division of Sport Fish, Research and Technical Services
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The Fishery Management Reports series was established in 1989 by the Division of Sport Fish for the publication of an overview of management activities and goals in a specific geographic area, and became a joint divisional series in 2004 with the Division of Commercial Fisheries. Fishery Management Reports are intended for fishery and other technical professionals, as well as lay persons. Fishery Management Reports are available through the Alaska State Library and on the Internet: <http://www.adfg.alaska.gov/sf/publications/>. This publication has undergone regional peer review.

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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 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 2013, hatchery operators collected an estimated 2.0 billion eggs and released 1.5 billion juvenile fish. A record 111.5 million hatchery-propagated salmon returned with the majority (76 million) being pink salmon produced by hatcheries in Prince William Sound. The preliminary total statewide commercial salmon harvest was 283 million fish, with 273 million salmon harvested in the commercial common property fishery. An estimated 97 million fish, or 36% of the commercial common property harvest, were produced by the Alaska salmon hatcheries. Approximately 9 million salmon were harvested for hatchery cost recovery. The return of hatchery salmon provided an estimated \$182 million, or 25%, 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 low commercial salmon fishery harvests and the resulting economic loss, 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 the 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 aquaculture association (RAA) 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 plan (CSP) for their respective region (5 AAC 40.300). Each regional CSP 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 permit applications, and 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's robust hatchery program has produced 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:

- 15 PNP corporation-owned and operated hatcheries.
- 11 state-owned hatcheries operated under contract by PNP corporations.
- 3 federally regulated facilities.
- 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 cost-recovery harvest (CRH) by the hatchery to pay for operations. 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 low-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; however, hatcheries are normally able operate at planned capacities. The average number of eggs collected has been generally consistent for some time, with increases in some permitted capacities in recent years. The number of eggs collected in 2013 was the largest due to the high number of returning salmon available for use as broodstock (Figure 1). In 2013, the reported number of juvenile fish released was among the average for the last decade, although a decrease from the previous year's release as a result of recent years' decreased egg takes (Figure 2).

The 2013 return of hatchery-produced salmon was the highest on record (Figure 3). 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 (Figure 4). Prince William Sound had the majority of the record return of hatchery-produced pink salmon in 2013, while the chum salmon returns were largely to Southeast Alaska (Figure 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 wild salmon stocks (Figure 7). The overall exvessel value of the commercial salmon harvest continues to increase, although with the record commercial harvest in 2013 the estimated

exvessel value per fish decreased (Figure 8). With a record harvest of pink salmon in 2013, hatchery-produced pink salmon made up 34% of the total exvessel value of the commercial pink salmon harvest. Hatchery-produced chum salmon contributed 60% to the value of the commercial chum salmon harvest. The value of the economic contribution for each of the hatchery-produced salmon species harvested in commercial CPF in 2013 is illustrated in Figure 9. Hatchery-produced salmon contribute significantly to the commercial CPH in Alaska each year (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 2013, is provided in Tables 2–19. Data is arranged based on salmon fisheries enhancement planning and management regions and species. The 2013 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 2013 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 2013). 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.

2013 HIGHLIGHTS

- The Alaska salmon fisheries enhancement program return was estimated at 111.5 million fish in 2013, a new record.
- Hatchery-produced pink salmon returned in record numbers in 2013. The majority of the return, an estimated 76 million pink salmon, returned to Prince William Sound for a regionally high return. The next largest return was over 11 million chum salmon produced by hatcheries in Southeast Alaska.
- An estimated 760,839 hatchery-produced coho salmon returned to Southern Southeast Alaska in 2013, the highest return of coho salmon reported for the region.
- The preliminary total statewide commercial salmon harvest was 283 million fish, with an estimated exvessel value of \$722 million. Hatchery contribution of salmon to the commercial harvest was estimated at 107 million salmon.

- Including the 2013 estimated harvest, Alaska's fisheries enhancement program has accumulatively contributed over 1 billion salmon to the commercial CPH.
- The largest annual contribution to the commercial CPH occurred in 2013, with an estimated 97 million hatchery-produced salmon returning in 2013. They were harvested in the seine, gillnet, and troll fisheries with a preliminary exvessel value of \$182 million.
- Statewide, the fisheries enhancement program contributed 36% of the fish harvested in the commercial CPH; 63% of the chum, 38% of the pink, 23% of the Chinook, 22% of the coho, and 5% of the sockeye salmon.
- Statewide, approximately 25% of the total exvessel value of the commercial CPH of salmon is attributed to the fisheries enhancement program. By species, this accounts for 60% of the chum, 34% of the pink, 26% of the Chinook, 22% of the coho, and 7% of sockeye salmon exvessel value.
- An estimated 330,168 hatchery-produced salmon were harvested among personal use, sport, and subsistence fisheries. Sport anglers harvested an estimated 446,700 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 an estimated 170,000 harvested statewide in 2013. Fisheries enhancement projects also provided a significant contribution of coho salmon to the noncommercial CPF, with an estimated 112,000 fish harvested in 2013. Chinook, pink, and chum salmon were also harvested in noncommercial CPF.
- In 2014, over 51.8 million hatchery-produced fish are projected to return to Alaska.

REGIONAL CONTRIBUTION

The contribution of hatchery-produced salmon to Alaska fisheries in 2013 (Tables 5, 6, 12–16):

Southeast: Returning hatchery-produced salmon accounted for 10% of the salmon in the commercial CPH; 81% of the chum, 32% of the Chinook, 26% of the coho, 14% of the sockeye, and 2% of the pink salmon can be attributed to fisheries enhancement projects. The harvest of hatchery-produced salmon contributed an estimated \$52 million, or 21%, of the exvessel value of salmon in the commercial CPH. In Southeast, the majority of the noncommercial CPF contribution was coho salmon, with an estimated 36,000 fish harvested.

Prince William Sound: An estimated 75 million salmon returned from hatchery releases, accounting for an estimated 79% of the total number of salmon in the commercial CPH; 88% of the chum, 80% of the pink, 45% of the sockeye, and 39% of the coho salmon in the commercial CPH were hatchery-produced fish. In addition, hatchery-produced salmon contributed an estimated \$113 million, or 68%, of the exvessel value of salmon in the commercial CPH. Sockeye salmon were the bulk of the noncommercial CPF harvest, with an estimated 131,000 fish harvested in the Prince William Sound area.

Cook Inlet: The fisheries enhancement program accounted for approximately 1% of the sockeye salmon and 1% of the pinks salmon in the commercial CPH and contributed an estimated \$471,000, or 1%, of the exvessel value of salmon in the commercial CPH. Cook Inlet area noncommercial CPF harvest of 47,000 fish was dominated by sockeye salmon, with an estimate of 31,000 hatchery-produced fish harvested.

Kodiak: Hatcheries in the salmon fisheries enhancement program accounted for 35% of the total number of salmon in the commercial CPH; 12% of the chum, 20% of the coho, 15% of the sockeye, and 38% of the pink salmon in the commercial CPH were hatchery-produced fish. Additionally, the fisheries enhancement program contributed an estimated \$16 million, or 26%, of the exvessel value of salmon in the commercial CPH. Of the 14,000 hatchery-produced salmon harvested in the noncommercial CPF, an estimated 5,700 were coho salmon.

REFERENCES CITED

- Alaska Legislature. 1974. An act authorizing the operation of private nonprofit salmon hatcheries. Section 1, Chapter 111, SLA 1974, in the Temporary and Special Acts.
- Munro, A., and C. Tide. *In prep.* Run forecasts and harvest projections for 2014 Alaska salmon fisheries and review of the 2013 season. Alaska Department of Fish and Game, Special Publication, Anchorage.
- Vercessi, L. 2013. Alaska salmon enhancement program 2012 annual report. Alaska Department of Fish and Game, Fishery Management Report No. 13-05, Anchorage.

TABLES AND FIGURES

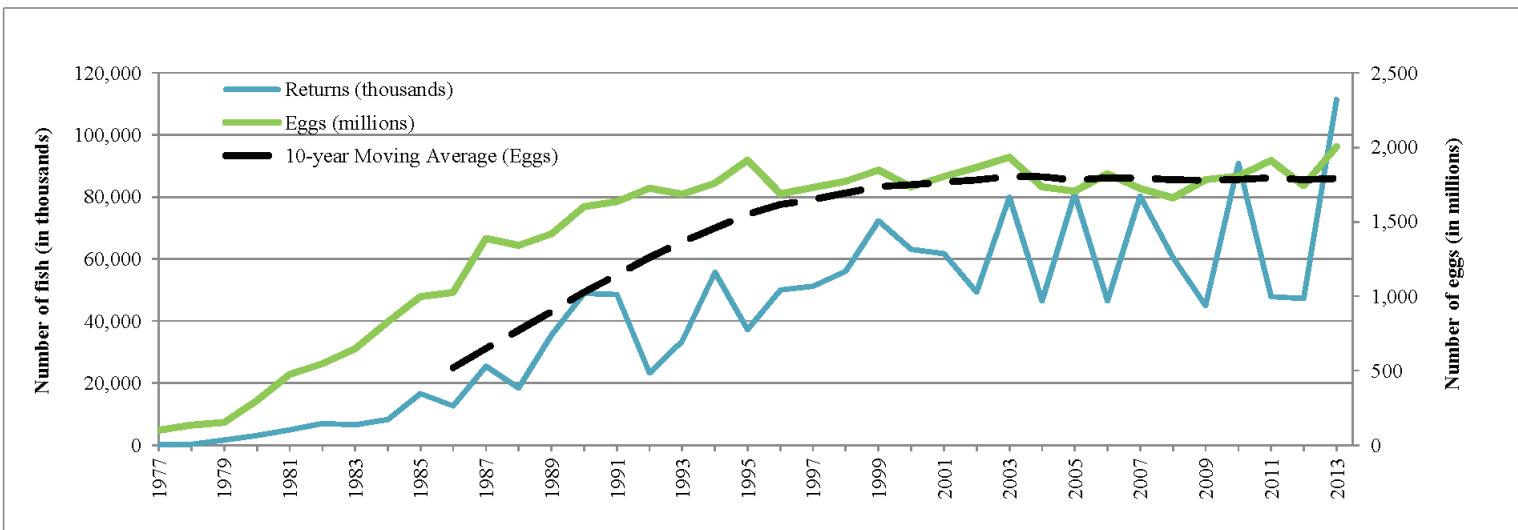


Figure 1.—Total salmon eggs collected and adult returns for Alaska salmon hatchery programs, 1977–2013.

8

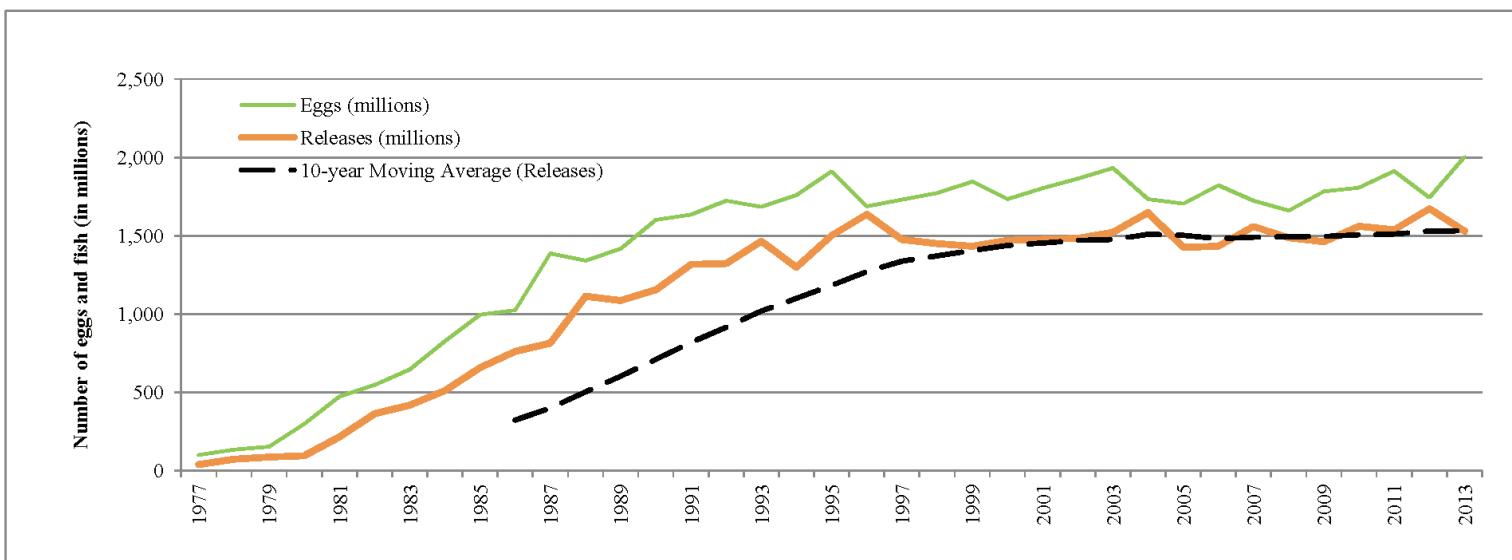


Figure 2.—Total salmon eggs collected and juveniles released for Alaska salmon hatchery programs, 1977–2013.

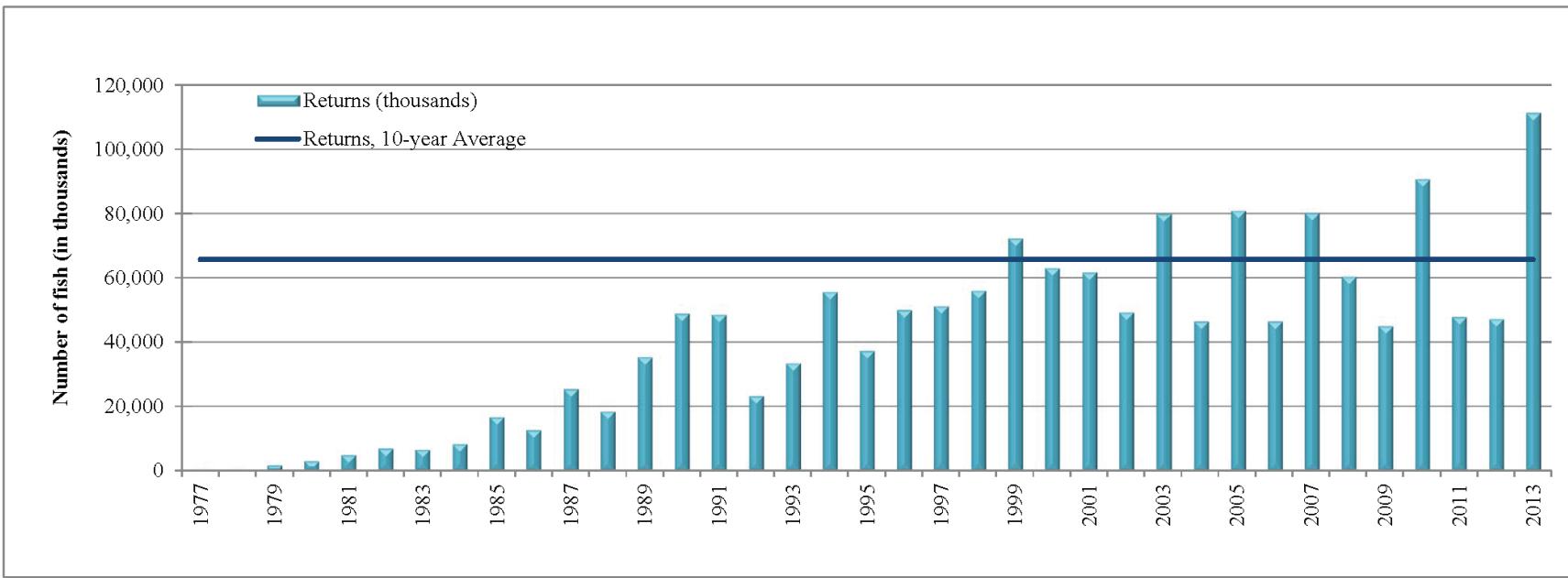


Figure 3.–Total adult salmon returns to the Alaska salmon hatchery program, 1977–2013, with the recent 10-year average.

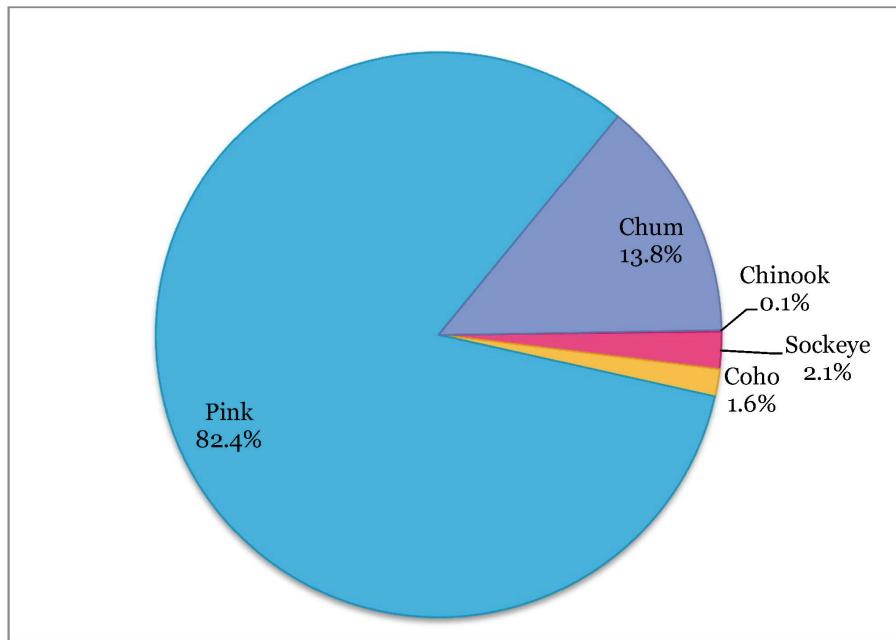


Figure 4.–Alaska salmon hatchery returns, by species, in 2013.

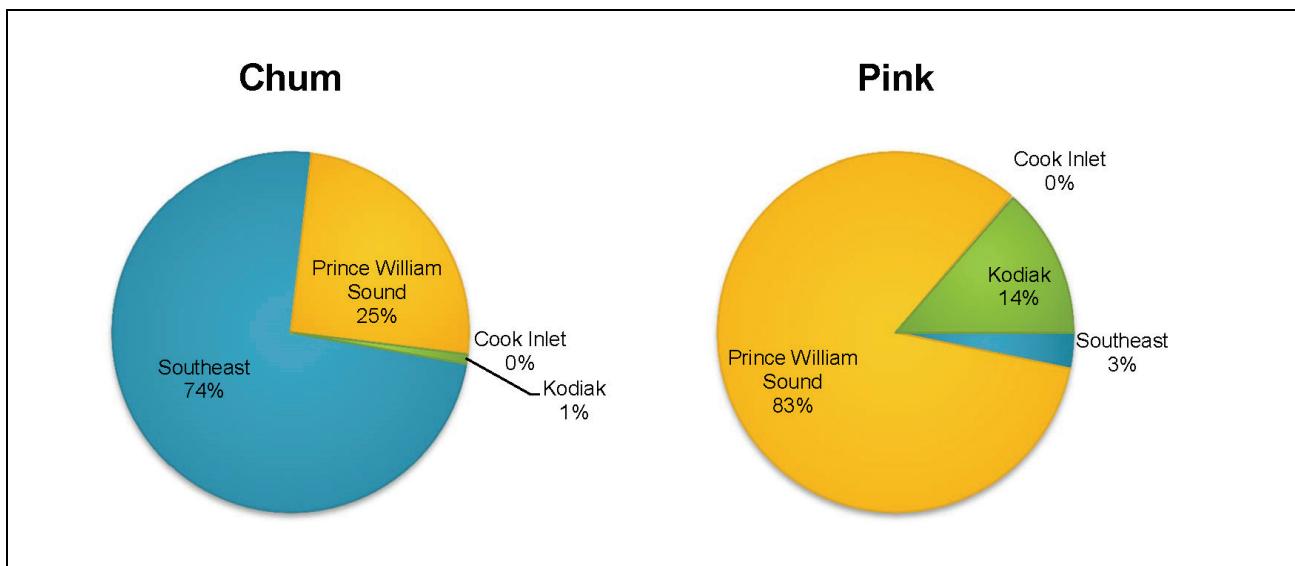


Figure 5.–Alaska salmon hatchery returns of chum and pink salmon, by region, in 2013.

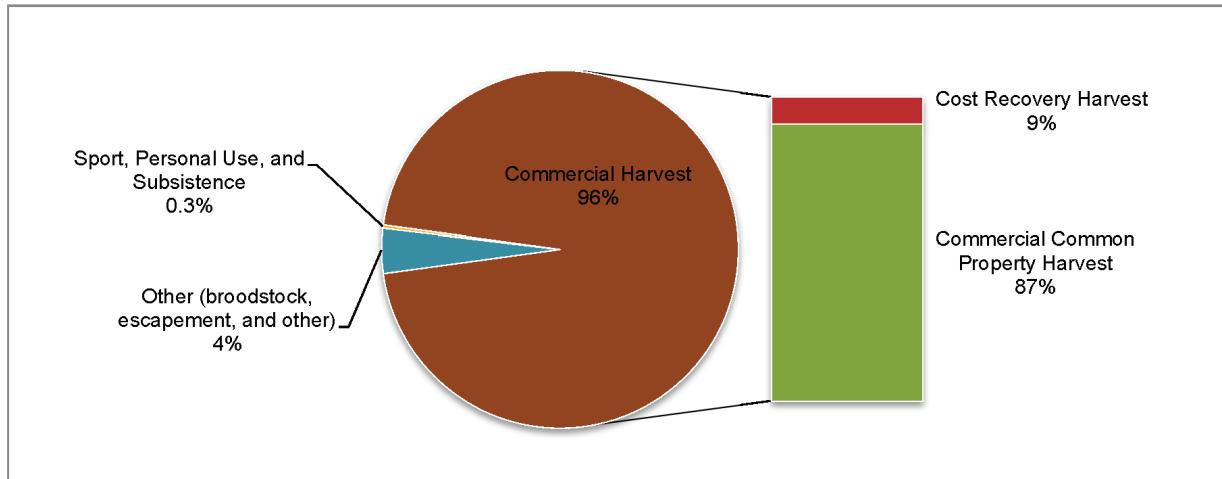


Figure 6.—Alaska salmon hatchery returns contributions, in 2013.

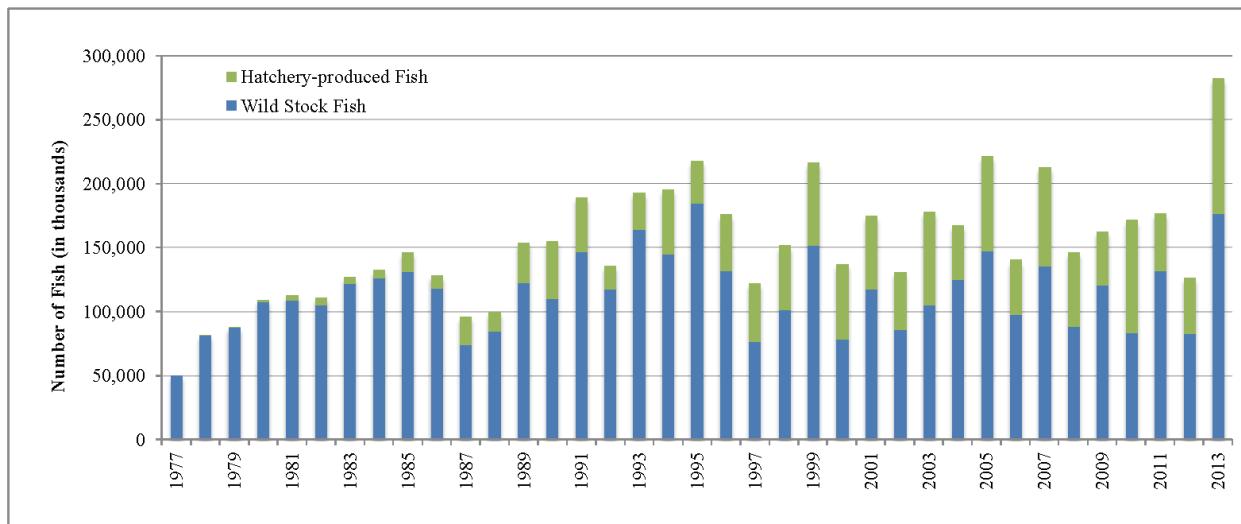


Figure 7.—Alaska commercial harvest of wild stock and hatchery returns of salmon, 1977–2013.

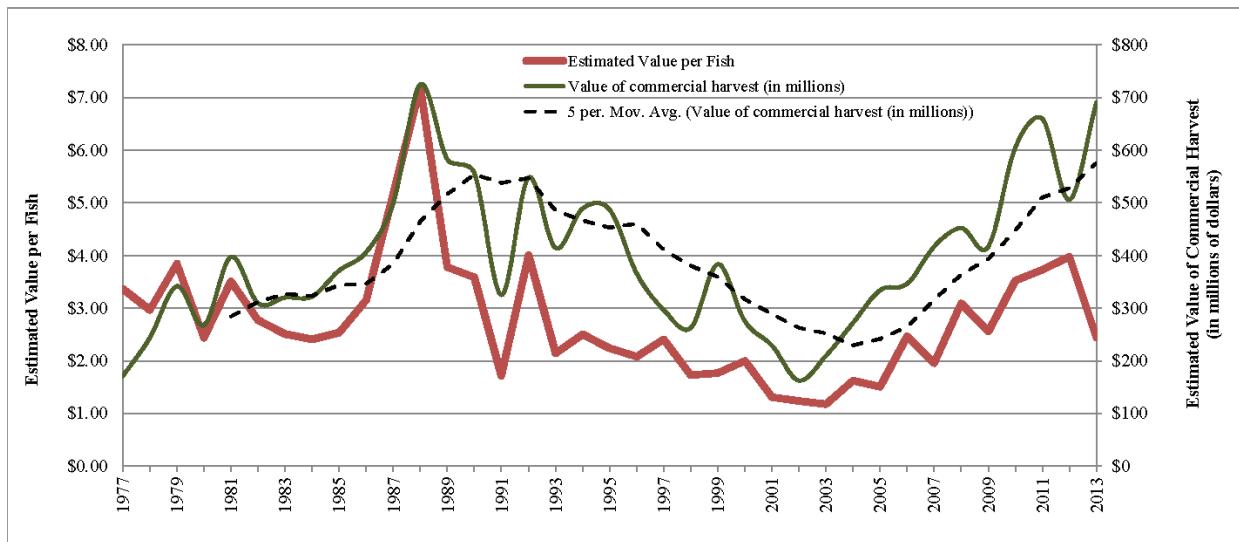


Figure 8.—Estimated exvessel value of Alaska commercial harvest of wild stock and hatchery-produced salmon in 2013, including estimated exvessel value per fish.

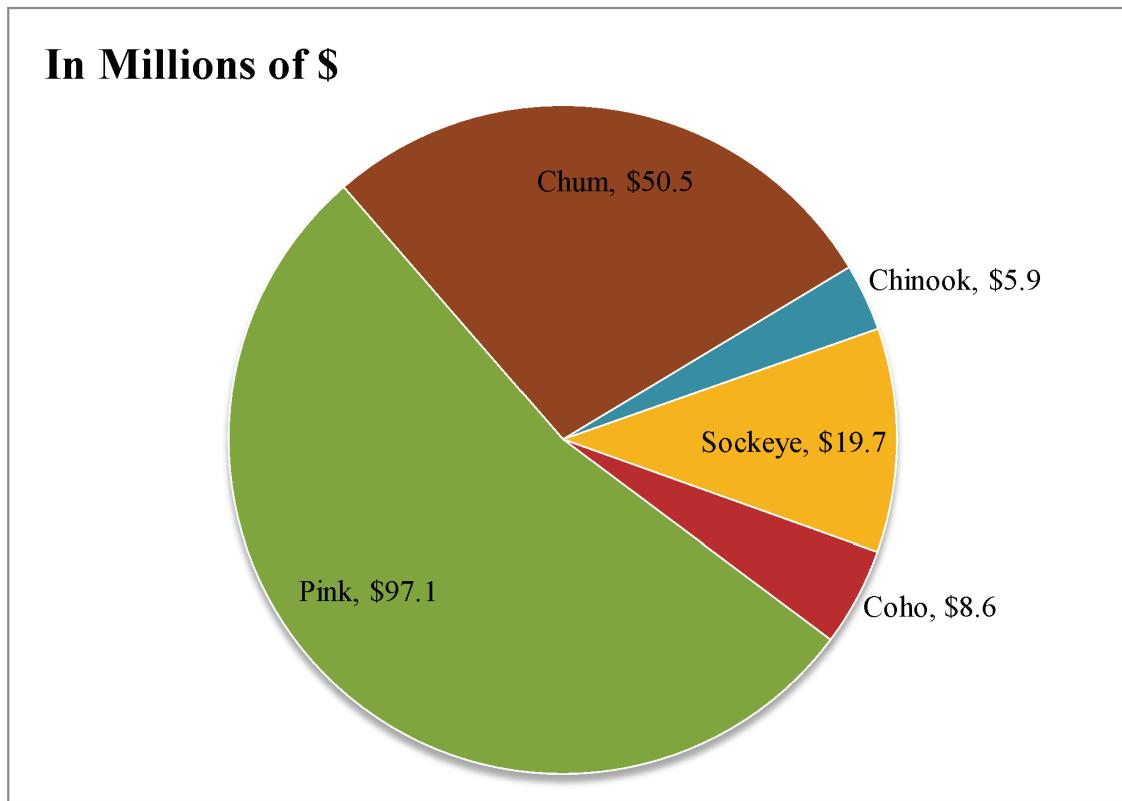


Figure 9.—Exvessel value of hatchery-produced salmon harvested in commercial common property fishery, by species, in millions of dollars, 2013.

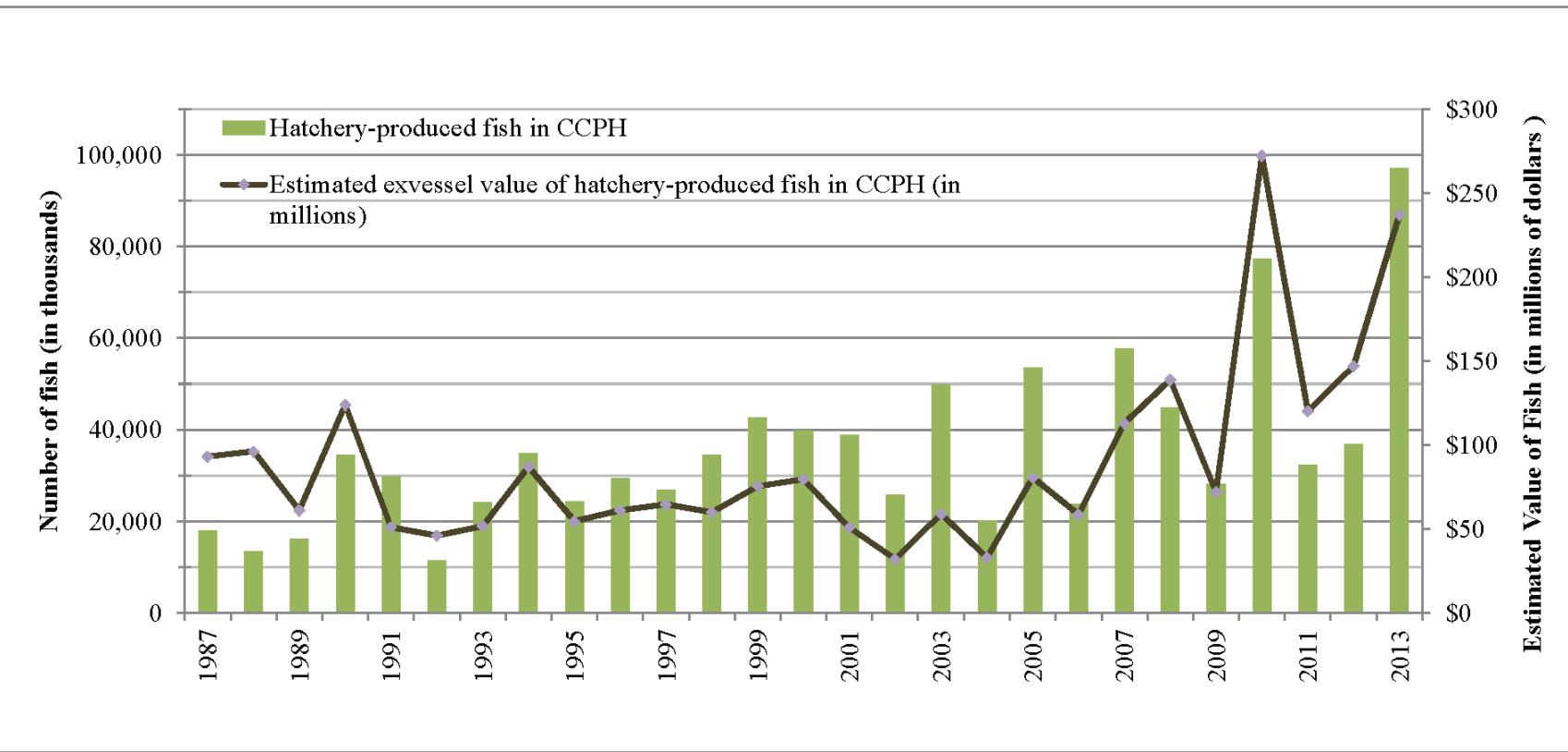


Figure 10.—Alaska fisheries enhancement program contribution to commercial common property harvest (CPH) salmon fisheries, 1977–2013.

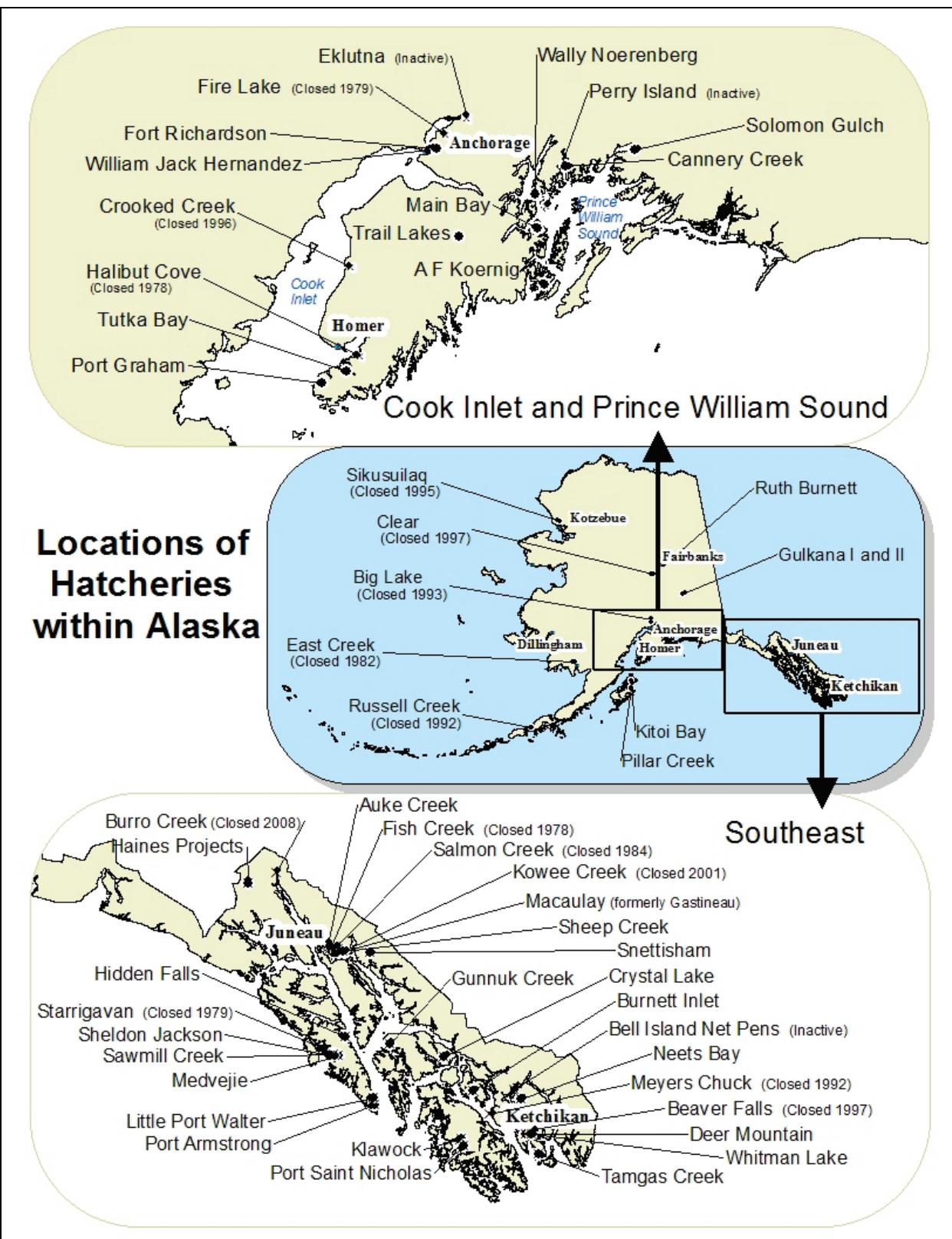


Figure 11.—Locations of hatcheries in Alaska.

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, 2013.

Area	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast	10.61	17.87	29.14	111.11	546.02	0.00	714.76
Prince William Sound	0.05	47.85	2.66	727.50	165.00	0.00	943.05
Cook Inlet	2.51	11.87	1.95	80.42	0.00	4.58	101.32
Arctic/Yukon/Kuskokwim	0.03	0.00	0.08	0.00	0.00	0.47	0.58
Kodiak	0.37	5.86	2.00	214.46	27.93	0.09	250.70
Total^a	13.56	83.46	35.83	1,133.48	738.95	5.14	2,010.42

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

Table 3.—Estimated juvenile releases from Alaska hatcheries, by region, in millions, 2013.

Area	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast	7.19	13.45	20.18	71.90	493.89	0.00	606.61
Prince William Sound	0.05	30.06	4.87	600.58	148.30	0.00	783.85
Cook Inlet	1.38	9.57	1.48	18.60	0.00	0.98	32.02
Arctic/Yukon/Kuskokwim	0.02	0.00	0.03	0.00	0.00	0.28	0.34
Kodiak	0.14	4.23	1.62	107.01	16.77	0.03	129.79
Total^a	8.78	57.32	28.19	798.09	658.96	1.29	1552.63

^a 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, 2013.

Area	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast	116,009	250,521	1,341,466	2,941,166	11,391,162	0	16,040,324
Prince William Sound	0	1,434,449	327,545	76,218,224	3,854,118	0	81,834,336
Cook Inlet	4,414	191,153	14,415	235,255	0	78,598	523,835
Arctic/Yukon/Kuskokwim	0	0	0	0	0	57,395	57,395
Kodiak	3,346	474,948	59,483	12,395,542	131,585	0	13,064,904
Total^a	123,769	2,351,071	1,742,909	91,790,187	15,376,865	135,993	111,520,794

^a 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, 2013.

Area	Harvest	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Total commercial harvest ^a	241	975	3,864	94,787	12,578	112,444
	Hatchery cost-recovery harvest	28	49	282	1,046	1,876	3,280
	CCPH ^b	213	926	3,582	93,741	10,702	109,165
	Hatchery-produced fish in CCPH	68	130	925	1,455	8,613	11,191
	% of hatchery-produced fish in CCPH	31.8%	14.1%	25.8%	1.6%	80.5%	10.3%
Prince William Sound	Total commercial harvest	11	2,339	609	92,463	4,070	99,492
	Hatchery cost-recovery harvest	0	0	38	3,731	581	4,350
	CCPH	11	2,339	571	88,732	3,489	95,142
	Hatchery-produced fish in CCPH	0	1,042	220	70,886	3,059	75,207
	% of hatchery-produced fish in CCPH	0.0%	44.5%	38.5%	79.9%	87.7%	79.0%
Cook Inlet	Total commercial harvest	5	2,853	267	2,147	193	5,465
	Hatchery cost-recovery harvest	0	74	0	46	0	120
	CCPH ^b	5	2,779	267	2,101	193	5,345
	Hatchery-produced fish in CCPH	0	32	0	20	0	52
	% of hatchery-produced fish in CCPH	0.0%	1.1%	0.0%	1.0%	0.0%	1.0%
Kodiak	Total commercial harvest	34	2,574	269	28,192	794	31,863
	Hatchery cost-recovery harvest	0	100	0	1,629	1	1,730
	CCPH	34	2,474	269	26,563	793	30,133
	Hatchery-produced fish in CCPH	0	362	53	10,130	97	10,642
	% of hatchery-produced fish in CCPH	0.0%	14.6%	19.6%	38.1%	12.2%	35.3%
Chignik/Aleutian Islands/Alaska Peninsula	Total commercial harvest	11	5,353	352	8,676	1,232	15,624
	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%
Bristol Bay	Total commercial harvest	19	15,376	135	1	872	16,402
	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	3	52	277	8	1,285	1,624
	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%
Statewide Total ^c	Total commercial harvest	324	29,522	5,773	226,274	21,024	282,917
	Hatchery cost-recovery harvest	28	222	320	6,451	2,458	9,480
	CCPH	296	29,300	5,453	219,823	18,566	273,437
	Hatchery-produced fish in CCPH	68	1,566	1,197	82,491	11,769	97,091
	% of hatchery-produced fish in CCPH	22.9%	5.3%	22.0%	37.5%	63.4%	35.5%

Source: Commercial harvest, data from Munro and Tide *In prep.*

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

^b CCPH = commercial common property harvest.

^c 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, 2013.

Area	Harvest ^a	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Value of total commercial harvest	\$20,987	\$10,863	\$25,797	\$132,669	\$53,694	\$244,009
	Value of hatchery-produced fish in CCPH ^b	\$5,891	\$1,454	\$6,175	\$2,037	\$36,767	\$52,324
	% value of hatchery-produced fish in CCPH	28.1%	13.4%	23.9%	1.5%	68.5%	21.4%
Prince William Sound	Value of total commercial harvest	\$1,009	\$32,479	\$6,350	\$107,723	\$17,754	\$165,314
	Value of hatchery-produced fish in CCPH	\$0	\$14,467	\$2,291	\$82,584	\$13,345	\$112,688
	% value of hatchery-produced fish in CCPH	0.0%	44.5%	36.1%	76.7%	75.2%	68.2%
Cook Inlet	Value of total commercial harvest	\$188	\$40,042	\$1,391	\$2,524	\$629	\$44,774
	Value of hatchery-produced fish in CCPH	\$0	\$447	\$0	\$24	\$0	\$471
	% value of hatchery-produced fish in CCPH	0.0%	1.1%	0.0%	0.9%	0.0%	1.1%
Kodiak	Value of total commercial harvest	\$202	\$23,565	\$806	\$34,606	\$2,791	\$61,971
	Value of hatchery-produced fish in CCPH	\$0	\$3,314	\$158	\$12,435	\$340	\$16,247
	% value of hatchery-produced fish in CCPH	0.0%	14.1%	19.6%	35.9%	12.2%	26.2%
Chignik/Aleutian Islands/ Alaska Peninsula	Value of total commercial harvest	\$126	\$43,705	\$1,192	\$9,202	\$2,945	\$57,170
	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	\$260	\$138,384	\$648	\$2	\$1,560	\$140,854
	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	\$51	\$357	\$2,394	\$5	\$5,209	\$8,015
	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 ^c	Value of total commercial harvest	\$22,823	\$289,396	\$38,576	\$286,730	\$84,582	\$722,107
	Value of hatchery-produced fish in CCPH	\$5,891	\$19,681	\$8,624	\$97,080	\$50,453	\$181,729
	% value of hatchery-produced fish in CCPH	25.8%	6.8%	22.4%	33.9%	59.6%	25.2%

Sources: Commercial harvest, data from Munro and Tide *In prep*, 2014; estimated exvessel values, <http://www.adfg.alaska.gov/static/fishing/PDFs/commercial/12exvesl.pdf> (Accessed February 12, 2014).

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

^b CCPH = Commercial common property harvest.

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

Table 7.—Alaska commercial salmon fishery harvest average weights and prices (preliminary), 2013.

Area	Species	Harvest Average	
		Weight (lb)	Price/lb
Southeast	Chinook	13.00	\$6.70
	Sockeye	6.03	\$1.85
	Coho	5.70	\$1.17
	Pink	3.52	\$0.40
	Chum	8.16	\$0.52
Prince William Sound	Chinook	16.79	\$5.46
	Sockeye	6.08	\$2.28
	Coho	7.81	\$1.33
	Pink	2.81	\$0.41
	Chum	7.32	\$0.60
Cook Inlet	Chinook	12.98	\$2.89
	Sockeye	6.25	\$2.25
	Coho	6.11	\$0.85
	Pink	3.10	\$0.38
	Chum	7.62	\$0.43
Kodiak	Chinook	7.50	\$0.79
	Sockeye	5.76	\$1.59
	Coho	6.62	\$0.45
	Pink	3.16	\$0.39
	Chum	7.83	\$0.45
Chignik/Aleutian Islands/Alaska Peninsula	Chinook	12.40	\$0.97
	Sockeye	6.51	\$1.26
	Coho	6.93	\$0.44
	Pink	3.05	\$0.34
	Chum	7.46	\$0.32
Bristol Bay	Chinook	18.00	\$0.77
	Sockeye	6.00	\$1.50
	Coho	6.00	\$0.80
	Pink	3.00	\$0.30
	Chum	6.00	\$0.30
Arctic-Yukon-Kuskokwim	Chinook	17.10	\$1.00
	Sockeye	6.85	\$1.25
	Coho	7.39	\$1.28
	Pink	2.90	\$0.22
	Chum	6.98	\$0.63

Source: Alaska Department of Fish and Game website,
<http://www.adfg.alaska.gov/>
http://www.adfg.alaska.gov/static/fishing/PDFs/commercial/table_2013_commercial_salmon_harvest_values.pdf (Accessed February 12, 2014).

Table 8.—Eggs collected at Alaska hatcheries, in millions, 2013 (transferred eggs are listed with the receiving hatchery).

Region/Operator/Hatchery		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast								
Southern Southeast								
SSRAA	Burnett Inlet			2.29		23.13		25.42
	Crystal Lake	2.48		0.21				2.69
	Neets Bay			1.52		92.13		93.65
	Whitman Lake	1.18		6.30		40.72		48.21
POWHA	Klawock River			5.00				5.00
	Port Saint Nicholas	0.32						0.32
	Southern Southeast Total	3.98		15.33		155.99		175.30
Northern Southeast								
NSRAA	Haines Projects				3.62			3.62
	Hidden Falls	0.92		7.70		110.68		119.30
	Medvejie Creek	3.70		0.10	0.30	67.44		71.54
	Sawmill Creek			1.49				1.49
AKI	Port Armstrong	0.33		2.34	87.84	30.17		120.68
DIPAC	Macaulay	1.15		1.55		126.21		128.91
	Snettisham		17.87					17.87
KNFC	Gunnuk Creek			0.53	19.54	39.34		59.40
NMFS	Little Port Walter	0.53						0.53
SSSC	Sheldon Jackson			0.11	3.43	12.58		16.12
	Northern Southeast Total	6.63	17.87	13.81	111.11	390.04		539.46
	Southeast Total	10.61	17.87	29.14	111.11	546.02		714.76
Southcentral								
Prince William Sound								
PWSAC	AFK H				162.00	34.00		196.00
	Cannery Creek				187.00			187.00
	Gulkana		37.20					37.20
	Main Bay		12.40					12.40
	W Noerenberg	0.05		0.65	147.00	131.00		278.70
VFDA	Solomon Gulch			2.01	231.50			233.50
	Prince William Sound Total	0.05	47.85	2.66	727.50	165.00		943.05
Cook Inlet								
CIAA	Trail Lakes		11.87	0.64				12.51
	Tutka Bay Lagoon				80.42			80.42
ADF&G	WJ Hernandez	2.51		1.32			4.58	8.40
	Cook Inlet Total	2.51	11.87	1.95	80.42		4.58	101.32
	Southcentral Total	2.56	59.72	4.61	807.91	165.00	4.58	1,044.38
Arctic-Yukon-Kuskokwim								
ADF&G	Ruth Burnett	0.03		0.08			0.47	0.58
	Arctic-Yukon-Kuskokwim Total	0.03		0.08			0.47	0.58
Kodiak/Westward								
Kodiak								
KRAA	Kitoi Bay		0.82	1.88	214.46	27.93		245.08
	Pillar Creek	0.37	5.04	0.12			0.09	5.62
	Kodiak/Westward Total	0.37	5.86	2.00	214.46	27.93	0.09	250.70
	Statewide Total	13.56	83.46	35.83	1,133.48	738.95	5.14	2,010.42

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

Table 9.—Alaska hatcheries releases, in millions of fish, as reported by operators, 2013.

Region/Operator/Hatchery	Site	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast								
Southern Southeast								
SSRAA	Burnett Inlet	Burnett Inlet		0.23				0.23
		Anita Bay				21.8		21.8
		Neck L		1.71				1.71
	Crystal Lake	Crystal Cr	0.81	0.22				1.03
		Anita Bay	0.48					0.48
	Neets Bay	Neets Bay	0.74	3.70		84.60		89.04
		Nakat Inlet				6.76		6.76
	Whitman Lake	Whitman L H	0.77	0.32				1.08
		Anita Bay		0.22				0.22
		McLean Arm				29.30		29.30
		Nakat Inlet		0.30		8.25		8.55
KTHC	Deer Mountain	Ketchikan	0.04	0.23				0.27
POWHA	Klawock River	Klawock River		3.89				3.89
	Port St Nicholas	Port St Nicholas	0.00					0.00
Southern Southeast Total			2.84	10.83		150.71		164.38
Northern Southeast								
NSRAA	Haines Projects	Haines Projects				2.55		2.55
	Hidden Falls	Takatz Bay				39.65		39.65
		Cliff L		0.05				0.05
		Kasnyku Bay	0.52	3.14		34.87		38.52
		Mist Cove		2.43				2.43
		Southeast Cove				8.71		8.71
	Medvejie Creek	Bear Cove	2.20	0.05	0.28	18.17		20.69
		Deep Inlet				42.71		42.71
		Halibut Point M	0.41					0.41
		Deep Inlet		0.16				0.16
AKI	Sawmill Creek	Port Armstrong	0.46	2.24	52.12	25.70		80.52
DIPAC	Port Armstrong	Macaulay	0.21	0.52		11.09		11.82
		Gastineau Chan				23.41		23.41
		Amalga Harbor				41.96		41.96
		Auke Bay Cr	0.09					0.09
		Boat Harbor				22.43		22.43
		Dredge/Twin Lks	0.01					0.01
		Fish Creek	0.28					0.28
		Limestone Inlet				14.74		14.74
		Skagway Site	0.05					0.05
	Snettisham	Snettisham		8.97				8.97
		Sweetheart L		0.54				0.54
		King Salmon Lk		0.20				0.20
		Tahitan/Tuya Lks		2.10				2.10
		Tatsamenie L		1.64				1.64
KNFC	Gunnuk Creek	Gunnuk Cr		0.52	16.90	9.93		27.35
		Southeast Cove				37.92		37.92
NMFS	Little Port Walter	L Port Walter	0.14					0.14
SSSC	Sheldon Jackson	Crescent Bay		0.25	2.60	0.81		3.66
		Deep Inlet				8.52		8.52
Northern Southeast Total			4.35	13.45	9.36	71.90	343.18	442.24
Southeast Total			7.19	13.45	20.18	71.90	493.89	606.61

-continued-

Table 9.–Page 2 of 2.

Region/Operator/Hatchery		Site	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southcentral									
Prince William Sound									
PWSAC	AFK H	Sawmill Bay			152.00	32.30			184.30
	Cannery Creek	Unakwik Inlet			94.30				94.30
	Gulkana I and II			18.56					18.56
	Main Bay	Main Bay		11.50					11.50
	W Noerenberg	Lake Bay			2.96	135.00	75.00		212.96
		Chenega Bay	0.05		0.05				0.10
		Cordova Sites			0.10				0.10
		Port Chalmers					41.00		41.00
		Whittier Sites			0.10				0.10
VFDA	Solomon Gulch	Solomon Gulch			1.64	219.28			220.91
		Boulder Bay			0.02				0.02
Prince William Sound Total			0.05	30.06	4.87	600.58	148.30		783.85
Cook Inlet									
CIAA	Trail Lakes	Bear L		2.55	0.41				2.95
		Hazel L		1.45					1.45
		Hidden L		0.86					0.86
		Leisure L		1.80					1.80
		Pt Graham		0.10					0.10
		Resurrection Bay		2.09					2.09
		Second L		0.21					0.21
		Tutka Lagoon		0.51					0.51
	Tutka Bay Lagoon	Tutka Bay				4.35			4.35
		Pt Graham				14.25			14.25
ADF&G	WJ Hernandez		1.38		1.08			0.98	3.44
Cook Inlet Total			1.38	9.57	1.48	18.60		0.98	32.02
Southcentral Total			1.43	39.63	6.35	619.18	148.30	0.98	815.87
Arctic-Yukon-Kuskokwim									
ADF&G	Ruth Burnett		0.02		0.03			0.28	0.34
Arctic-Yukon-Kuskokwim Total			0.02		0.03			0.28	0.34
Kodiak									
KRAA	Kitoi Bay			0.43	1.43	107.01	16.77		125.65
	Pillar Creek		0.14	3.80	0.19			0.03	4.15
Kodiak/Westward Total			0.14	4.23	1.62	107.01	16.77	0.03	129.79
Statewide Total			8.78	57.32	28.19	798.09	658.96	1.29	1552.62

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

Table 10.—Estimated returns to Alaska fisheries enhancement projects (including common property harvests), by species, 2013.

Region/Operator/Hatchery		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast								
Southern Southeast								
SSRAA	Burnett Inlet		2,454	63,476				65,930
	Crystal Lake	27,017		14,547				41,564
	Neets Bay	15,189		227,277		1,423,038		1,665,504
	Whitman Lake	11,305		125,737		837,629		974,671
KTHC	Deer Mountain	116		4,017				4,133
POWHA	Klawock River			325,785				325,785
	Port St Nicholas	1,929						1,929
	Southern Southeast Total	55,556	2,454	760,839	0	2,260,667	0	3,079,516
Northern Southeast								
NSRAA	Haines Projects				24,394			24,394
	Hidden Falls	7,360		377,999		1,386,651		1,772,010
	Medvejie Creek	42,230		18,433	20,647	1,931,058		2,012,368
	Sawmill Creek			200				200
AKI	Port Armstrong	2,962		136,657	2,204,708	170,314		2,514,641
DIPAC	Macaulay	5,919		36,088		4,849,355		4,891,362
	Snettisham		248,067					248,067
FED	Little Port Walter	1,659						1,659
KNFC	Gunnuk Creek			10,465	518,269	457,418		986,152
SSSC	Sheldon Jackson	323		785	197,542	311,305		509,955
	Northern Southeast Total	60,453	248,067	580,627	2,941,166	9,130,495	0	12,960,808
Southeast Total		116,009	250,521	1,341,466	2,941,166	11,391,162	0	16,040,324
Southcentral								
Prince William Sound								
PWSAC	AF Koernig				20,222,117	319,127		20,541,244
	Cannery Creek				16,034,517			16,034,517
	Gulkana I and II		520,778					520,778
	Main Bay	913,671						913,671
	W Noerenberg			78,115	17,479,441	3,534,991		21,092,547
VFDA	Solomon Gulch			249,430	22,482,149			22,731,579
	Prince William Sound Total	0	1,434,449	327,545	76,218,224	3,854,118	0	81,834,336
Cook Inlet								
CIAA	Trail Lakes		151,818	8,522				160,340
	Tutka Bay Lagoon		39,335		235,255			274,590
ADF&G	WJ Hernandez	4,414		5,893			78,598	88,905
	Cook Inlet Total	4,414	191,153	14,415	235,255	0	78,598	523,835
	Southcentral Total	4,414	1,625,602	341,960	76,453,479	3,854,118	78,598	82,358,171
Arctic/Yukon/Kuskokwim								
ADF&G	Ruth Burnett						57,395	57,395
	Arctic/Yukon/Kuskokwim Total						57,395	57,395
Kodiak/Westward								
Kodiak								
KRAA	Kitoi Bay		122,643	53,883	12,395,542	131,585		12,703,653
	Pillar Creek	3,346	352,305	5,600				361,251
	Kodiak/Westward Total	3,346	474,948	59,483	12,395,542	131,585	0	13,064,904
	Statewide Total	123,769	2,351,071	1,742,909	91,790,187	15,376,865	135,993	111,520,794

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

Table 11.—Projected adult returns, by species, to Alaska fisheries enhancement projects in 2014.

Region/Operator/Hatchery/Location		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southern Southeast								
SSRAA	Burnett Inlet			23,000				23,000
	Neck Lake			9,000				9,000
	Crystal Lake	3,300		8,900				12,200
	Anita Bay	15,400						15,400
	Neets Bay	18,100		296,000		1,940,000		2,254,100
	Anita Bay				344,800			344,800
	Nakat Inlet				10,000			10,000
	Whitman Lake	12,300		23,600				35,900
	Anita Bay			15,500		86,200		101,700
	Kendrick Bay					700,000		700,000
	Nakat Inlet			24,000		280,000		304,000
KTHC	Deer Mountain	358		6,493				6,851
POWHA	Klawock River			272,622				272,622
	Port Saint Nicholas	5,363						5,363
	Coffman Cove	6,654						6,654
MIC ^a	Tamgas Creek	a	a		a			-
Southern Southeast Total		61,475	0	679,115	0	3,361,000	0	4,101,590
Northern Southeast								
NSRAA	Haines Projects				31,000			31,000
	Hidden Falls	6,100		188,000		1,072,000		1,266,100
	Mist Cove			146,000				146,000
	Medvejie Creek	36,179		3,000		1,011,000		1,050,179
	Sawmill Creek			10,000				10,000
AKI	Port Armstrong	3,408		97,290	608,654	348,363		1,057,715
DIPAC	Macaulay	5,640		42,000		767,000		814,640
	Amalga Harbor					1,932,000		1,932,000
	Boat Harbor					537,000		537,000
	Limestone Inlet					102,000		102,000
	Pullen Cr/Lutak	940						940
	Snettisham		144,000					144,000
	Stikine River		a					-
	Sweetheart Lake		5,600					5,600
	Taku River		a					-
KNFC	Gunnuk Creek			33,492	309,430	109,973		452,895
	Southeast Cove					240,281		240,281
SSSC	Sheldon Jackson	201		20,223	65,002	159,000		244,426
NMFS ^b	Little Port Walter	100						100
Northern Southeast Total		52,568	149,600	540,005	983,086	6,309,617	0	8,034,876
Southeast Total		114,043	149,600	1,219,120	983,086	9,670,617	0	12,136,466
Prince William Sound								
PWSAC	Armin F. Koernig				6,900,000	476,000		7,376,000
	Cannery Creek				4,200,000			4,200,000
	Gulkana I&II	509,200						509,200
	Main Bay	1,200,000						1,200,000
	Wally Noerenberg			207,000	6,100,000	1,642,000		7,949,000
	Chenega			4,000				4,000
	Cordova			7,000				7,000
	Port Chalmers					546,000		546,000
	Whittier			7,000				7,000
VFDA	Solomon Gulch			111,219	12,975,701			13,086,920
Prince William Sound Totals		0	1,709,200	336,219	30,175,701	2,664,000	0	34,885,120

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Table 11.–Page 2 of 2.

Region/Operator/Hatchery/Location		Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Cook Inlet								
CIAA	Trail Lakes							0
	Bear Lake	66,000		3,300				69,300
	English Bay Lks	10,100						10,100
	Hazel/Leisure	15,600						15,600
	Hidden Lake	40,700						40,700
	Kirschner Lake	8,200						8,200
	Tutka Bay	22,100						22,100
	Tutka Bay Lagoon		131,000					131,000
	Port Graham Bay		427,500					427,500
ADF&G	WJ Hernandez	16,562		94,769			79,125	190,456
	Cook Inlet Totals	16,562	162,700	98,069	558,500	0	79,125	914,956
Southcentral Total		16,562	1,871,900	434,288	30,734,201	2,664,000	79,125	35,800,076
Arctic-Yukon-Kuskokwim								
ADF&G ^b	Ruth Burnett						57,395	57,395
Arctic-Yukon-Kuskokwim Total		0	0	0	0	0	57,395	57,395
Kodiak								
KRAA	Kitoi Bay		95,516	122,621	2,969,666	165,977		3,353,780
	Pillar Creek	3,000		5,600				8,600
	Crescent Lake	6,700						6,700
	Hidden Lake	20,800						20,800
	Waterfall Lake	1,340						1,340
	Spiridon Lake	446,000						446,000
Westward/Kodiak Total		3,000	570,356	128,221	2,969,666	165,977	0	3,837,220
Statewide Total		133,605	2,591,856	1,781,629	34,686,953	12,500,594	136,520	51,831,157

^a Not available in time for publication.

Table 12.—Details of the estimated Chinook salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2013.

Region/Operator/Hatchery	Project	Common Property Harvest						Brood	CRH	Escape.	Other	Total Return
		Seine	Gillnet	Troll	Sport	Pers. Use/Sub.						
Southeast												
Southern Southeast												
SSRAA	Crystal Lake	Crystal Lake	330	467	10		1,466				1,680	3,953
		Anita Bay	4,740	16,010	2,139	175						23,064
	Neets Bay	Neets Bay	5,260	3,440	2,490	225			3,774			15,189
KTHC	Whitman Lake	Whitman Lake	211	500	2,515	835		1,679	4,840		725	11,305
POWHA	Deer Mountain	Deer Mountain		25	58	33						116
	Port St Nicholas	Port St Nicholas		302	456	6			314			1,078
		Coffman Cove	21	629	186	15						851
Southern Southeast Total			10,232	21,236	8,311	1,299	0	3,145	8,928	0	2,405	55,556
Northern Southeast												
NSRAA	Hidden Falls	Hidden Falls	2,921	52	1,443	258		2,204	236		240	7,354
		Lutak Inlet				6						6
	Medvejie Creek	Medvejie Creek	3,620	6,315	9,737	1,620		2,170	17,956		812	42,230
AKI	Port Armstrong	Port Armstrong	28	48	731	36		365	817		937	2,962
DIPAC	Macaulay	Macaulay =	267	808	518	2,383		776	7		95	4,854
		Skagway site		59	201	327		152			326	1,065
SSSC	Sheldon Jackson	Sheldon Jackson	43	44	159						77	323
FED	Little Port Walter	L Port Walter	123	49	706	29		588			164	1,659
Northern Southeast Total			7,002	7,375	13,495	4,659	0	6,255	19,016	0	2,651	60,453
Southeast Total			17,234	28,611	21,806	5,958	0	9,400	27,944	0	5,056	116,009
Southcentral												
Cook Inlet												
ADF&G	WJ Hernandez	Crooked Cr					90				1,479	1,569
		Deception Cr					44				62	106
		Eklutna Tailrace				304						304
		Ninilchik R					203				111	314
		Ship Creek				1,070		1,051				2,121
Cook Inlet Total			0	0	0	1,374	0	1,388	0	0	1,652	4,414
Southcentral Total			0	0	0	1,374	0	1,388	0	0	1,652	4,414
Kodiak/Westward												
Kodiak												
KRAA	Pillar Creek	Kodiak Rd Lks				3,158		188				3,346
Kodiak Total						3,158		188				3,346
Kodiak/Westward Total			0	0	0	3,158	0	188	0	0	0	3,346
Statewide Total			17,234	28,611	21,806	10,490	0	10,976	27,944	0	6,708	123,769

Table 13.—Details of the estimated sockeye salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2013.

		Common Property Harvest								Total Return
	Project	Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood	CRH	Escape.	Other
Southeast										
Southern Southeast										
SSRAA	Burnett Inlet	Burnett Inlet	60	1,030						1,090
		McDonald Lake	430	115						1,364
	Southern Southeast Total		490	1,145	0	0	0	0	0	819
										2,454
Northern Southeast										
DIPAC	Snettisham	Snettisham	9,705	86,340			6,811	48,719		4,274
		Sweetheart L	1,125	1,815		3,400				155,849
		Stikine R		17,233						6,340
		Taku R		12,609						47,146
	Northern Southeast Total		10,830	117,997	0	0	3,400	6,811	48,719	0
										248,067
	Southeast Total		11,320	119,142	0	0	3,400	6,811	48,719	0
Southcentral										
Prince William Sound										
PWSAC	Gulkana I and II			318,212	130,197		19,099		53,270	520,778
	Main Bay	Main Bay	46,808	667,801	1,000		9,833			904,668
		Marsha L	6,400							6,400
		Solf L		2,603						2,603
	Prince William Sound Total		53,208	988,616	0	131,197	0	28,932	0	53,270
										179,226
										1,434,449
Cook Inlet										
CIAA	Trail Lakes	Bear L			20,000		3,606	43,369	8,999	1,255
		English Bay Lk				3,823	1,753		10,991	253
		Hidden L					1,525		21,056	591
		Kirschner L						8,288		23,172
		Leisure/Hazel L	15,554		2,000			8,755		8,288
		Tutka Bay Lagoon	16,285		5,000		2,556	13,137	100	2,257
	Cook Inlet Total		31,839	0	0	27,000	3,823	9,440	73,549	41,146
										4,356
										191,153
	Southcentral Total		85,047	988,616	0	158,197	3,823	38,372	73,549	94,416
Kodiak										
KRAA	Kitoi Bay	Kitoi Bay	110,351		100		640	4,441	7,111	122,643
	Pillar Creek	Foul Bay	9,201							9,201
		Settler's Cove				5,000				5,000
		Spiridon L	33,299	201,807				95,725		330,831
		Waterfall Bay	7,273							7,273
	Kodiak Total		160,124	201,807	0	100	5,000	640	100,166	7,111
	Kodiak/Westward Total		160,124	201,807	0	100	5,000	640	100,166	7,111
	Statewide Total		256,491	1,309,565	0	158,297	12,223	45,823	222,434	101,527
										244,711
										2,351,071

Table 14.—Details of the estimated coho salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2013.

Region/Operator/Hatchery	Project	Common Property Harvest						Total Return				
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood	CRH				
Southeast												
Southern Southeast												
SSRAA	Burnett Inlet	Burnett Inlet	652	5,090	1,857	1,000	3,351	17,000	1,000	29,950		
		Neck L	967	12,575	2,098	1,000		14,225	2,661	33,526		
	Crystal Lake	Crystal Lake	581	3,009	5,403	155	5,399			14,547		
	Neets Bay	Neets Bay	15,350	43,432	122,965	3,420	1,467	25,380	15,263	227,277		
	Whitman Lake	Whitman Lake	2,138	4,441	14,487	480	4,484	4,535	1,264	31,829		
		Anita Bay	754	7,384	6,840	125			1,164	16,267		
		Bakewell L	2,900	7,566	23,670	590			2,755	37,481		
		Nakat	2,610	20,648	16,105	450			347	40,160		
KTHC	Deer Mountain	Deer Mountain	1,270	795	1,141	811				4,017		
POWHA	Klawock River	Klawock Lake	34,859	185	196,683	9,194	4,051	67,506	8,240	5,067	325,785	
Southern Southeast Total			62,081	105,125	391,249	17,225	0	18,752	128,646	29,521	760,839	
Northern Southeast												
NSRAA	Hidden Falls	Hidden Falls	14,371	1,226	53,378	2,706	8,433	43,208	4,482	127,804		
		Deer Lake		42,534	134,039	6,460		58,432	8,730	250,195		
	Medvejie Creek	Medvejie Creek	3,168	1,644	8,910	2,185	1,544	100	882	18,433		
	Sawmill Creek								200	200		
AKI	Port Armstrong	Port Armstrong	2,866		76,654	2,457	3,508	42,117	9,055	136,657		
DIPAC	Macaulay	Macaulay	2,018	8,402	11,973	3,275	1,100	8,965	355	36,088		
KNFC	Gunnuk Creek	Gunnuk Creek	944		3,778	944	918	517	156	350	2,858	10,465
SSSC	Sheldon Jackson	Sheldon Jackson	72	15	496	42		148		12	785	
Northern Southeast Total			23,439	53,821	289,228	18,069	918	15,250	152,978	350	26,574	580,627
Southeast Total			85,520	158,946	680,477	35,294	918	34,002	281,624	8,590	56,095	1,341,466
Southcentral												
Prince William Sound												
PWSAC	W Noerenberg	Lake Bay	16,005	48,017		400		1,413		880	66,715	
		Chenega				1,900					1,900	
		Cordova				5,700					5,700	
		Whittier				3,800					3,800	
VFDA	Solomon Gulch	Solomon Gulch	155,736		48,000	277	2,059	38,346		5,012	249,430	
Prince William Sound Total			171,741	48,017	0	59,800	277	3,472	38,346	0	5,892	327,545

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Region/Operator/Hatchery	Project	Common Property Harvest								Total Return	
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood	CRH	Escape.		
Cook Inlet											
CIAA	Trail Lakes	Bear L			5,400		498		300	2,324	8,522
ADF&G	WJ Hernandez	Bird Cr			1,869						1,869
		Eklutna Tailrace			2,799						2,799
		Ship Creek					792			433	1,225
Cook Inlet Total		0	0	0	10,068	0	1,290	0	300	2,757	14,415
Southcentral Total		171,741	48,017	0	69,868	277	4,762	38,346	300	8,649	341,960
Kodiak/Westward											
Kodiak											
KRAA	Kitoi Bay	Kitoi Bay	52,732		100		1,051				53,883
	Pillar Creek	Kodiak Road Sys Lakes			5,600						5,600
Kodiak/Westward Total		52,732	0	0	5,700	0	1,051	0	0	0	59,483
Statewide Total		309,993	206,963	680,477	110,862	1,195	39,815	319,970	8,890	64,744	1,742,909

Table 15.—Details of the estimated pink salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2013.

Region/Operator/Hatchery/Project	Common Property Harvest						CRH	Escape.	Other	Total Return				
	Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood								
Southeast														
Northern Southeast														
NSRAA	Medvejie Creek					7,049	12,798	800		20,647				
AKI	Port Armstrong	1,111,871		6,802		162,157	843,878		80,000	2,204,708				
KNFC	Gunnuk Creek	266,250		70,168	218	52,307	627		128,699	518,269				
SSSC	Sheldon Jackson					9,027	188,515			197,542				
Northern Southeast Total		1,378,121	0	76,970	218	0	230,540	1,045,818	800	208,699				
Southeast Total		1,378,121	0	76,970	218	0	230,540	1,045,818	800	208,699				
Southcentral														
Prince William Sound														
PWSAC	AF Koernig	19,381,097	6,740			221,408	512,872		100,000	20,222,117				
	Cannery Creek	15,526,146	46,130			368,264	18,977		75,000	16,034,517				
	W Noerenberg	14,969,890	825,180			265,188	1,239,183		180,000	17,479,441				
VFDA	Solomon Gulch	20,130,567		25,000		320,184	1,959,489		46,909	22,482,149				
Prince William Sound Total		70,007,700	878,050	0	25,000	0	1,175,044	3,730,521	0	401,909				
Cook Inlet														
CIAA	Tutka Bay Lagoon		718		5,000		143,884	46,238	20,000	215,840				
	Halibut Cove	19,415								19,415				
Cook Inlet Total		19,415	718	0	5,000	0	143,884	46,238	20,000	0				
Southcentral Total		70,027,115	878,768	0	30,000	0	1,318,928	3,776,759	20,000	401,909				
Kodiak/Westward														
Kodiak														
KRAA	Kitoi Bay	10,130,197				636,524	1,628,821			12,395,542				
Kodiak Total		10,130,197	0	0	0	0	636,524	1,628,821	0	12,395,542				
Statewide Total		81,535,433	878,768	76,970	30,218	0	2,185,992	6,451,398	20,800	610,608				

Table 16.—Details of the estimated chum salmon returns to Alaska fisheries enhancement projects, as reported by operators, 2013.

Region/Operator/Hatchery	Project	Common Property Harvest						CRH	Escape.	Other	Total Return		
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood						
Southeast													
Southern Southeast													
SSRAA	Neets Bay	Anita Bay	196,888	143,944	9,166			6,210		5,507	361,715		
		Nakat Inlet	1,130	19,125							20,255		
	Whitman Lake	Neets Bay	163,230	39,045	167,056			141,634	445,965	84,138	1,041,068		
		Anita Bay	49,222	35,986	3,556				1,550	1,377	91,691		
		Kendrick Bay	433,755	16,455	520					37,001	487,731		
		Nakat Inlet	19,065	208,055	110					30,977	258,207		
	Southern Southeast Total		863,290	462,610	180,408	0	0	141,634	453,725	0	159,000	2,260,667	
Northern Southeast													
NSRAA	Haines Projects			9,758				2,979		11,657	24,394		
	Hidden Falls	Hidden Falls	1,239,811		103			138,192	7,295	1,250	1,386,651		
	Medvejie Creek	Medvejie Creek	954,125	517,387	392,716			51,575	14,134	259	862	1,931,058	
AKI	Port Armstrong	Port Armstrong	10,000	500	5,000			31,100	122,214		1,500	170,314	
DIPAC	Macaulay	Gastineau Ch	8,656	571,759	50,967	4,000		145,983	207,382		25,000	1,013,747	
		Amalga Harbor	1,106,006	523,785	141,859				1,049,962			2,821,612	
		Boat Harbor	6,675	735,704	39,300							781,679	
		Limestone Inlet	1,984	218,653	11,680							232,317	
KNFC	Gunnuk Creek	Gunnuk Creek	57,690		8,804	112	1,730	30,670		67,134	166,140		
		Southeast Cove	153,391		42,341		41		17,101	78,404	291,278		
SSSC	Sheldon Jackson	Sheldon Jackson						480	2,169		2,649		
		Deep Inlet	152,505	82,698	62,771			8,244	2,259	41	138	308,656	
	Northern Southeast Total		3,690,843	2,660,244	755,541	4,112	1,771	409,223	1,422,516	300	185,945	9,130,495	
	Southeast Total		4,554,133	3,122,854	935,949	4,112	1,771	550,857	1,876,241	300	344,945	11,391,162	
Southcentral													
Prince William Sound													
PWSAC	AF Koernig	Armin F Koernig	308,339	10,788							319,127		
	W Noerenberg	Lake Bay	21,717	2,218,963		1,000		187,281	581,442		25,000	3,035,403	
		Port Chalmers	38,704	460,884							499,588		
	Prince William Sound Total		368,760	2,690,635	0	1,000	0	187,281	581,442	0	25,000	3,854,118	
	Southcentral Total		368,760	2,690,635	0	1,000	0	187,281	581,442	0	25,000	3,854,118	
Kodiak/Westward													
Kodiak													
KRAA	Kitoi Bay	Kitoi Bay	96,799					34,205	581		131,585		
	Kodiak/Westward Total		96,799	0	0	0	0	34,205	581	0	0	131,585	
	Statewide Total		5,019,692	5,813,489	935,949	5,112	1,771	772,343	2,458,264	300	369,945	15,376,865	

Table 17.—Details of the estimated “other” hatchery-produced returns to Alaska fisheries enhancement projects, as reported by operators, 2013.

Region	Area	Agency	Hatchery	Project	Species	Common Property Harvest		Total Return						
						Sport	Pers. Use/Subs.							
Southcentral														
Cook Inlet														
		ADF&G	WJ Hernandez	WJH Region II Lakes	Arctic Char	2,324		68 2,392						
					Grayling	1,355		1,355						
					Landlocked Salmon	19,311		19,311						
					Rainbow	51,336		4,204 55,540						
	Cook Inlet Total					74,326	0	4,272 78,598						
	Southcentral Total					74,326	0	4,272 78,598						
Arctic/Yukon/Kuskokwim														
		ADF&G	Ruth Burnett	Ruth Burnett	Arctic Char	4,494		4,494						
					Grayling	1,674		1,674						
					Landlocked Salmon	12,212		12,212						
					Rainbow	39,015		39,015						
	Arctic/Yukon/Kuskokwim Total					57,395	0	0 57,395						
	Statewide Total					131,721	0	4,272 135,993						

Table 18.– Summary of salmon eggs collected in 2013 per fish resource permits issued by ADF&G. The egg number is the maximum number allowed to be collected, not necessarily the number hatched and released as juveniles, as per the permit for the particular project.

Bioenhancement Research Permits	Stock/Species	Maximum number allowed to be collected
Eggs collected under this type of propagation permit are for bioenhancement research by accredited institutions of higher learning and cooperative governmental projects.		
Area/Permittee		
Southeast		
City of Pelican	Gastineau chum	500,000 eggs
NOAA Little Port Walter	Keta River king	20 spawning pair
NOAA Little Port Walter	Unuk River king	400,000 eggs
University of Alaska Fairbanks	Auke Creek sockeye	50,000 eggs
Southcentral		
Chickaloon Village Traditional Council	Moose Creek king	100,000 eggs
Arctic-Yukon-Kuskokwim		
Native Village of Elim	Kwiniuk River coho	100,000 eggs
Native Village of White Mountain	Boston Creek king	80,000 eggs
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 king	20 spawning pair
Norton Sound Economic Development Corporation	Solomon River chum	60 spawning pair
Sitnasuak Native Corporation	Nome River pink	500,000 eggs
Westward		
Sun'aq Tribe of Kodiak	Buskin River coho	100,000 eggs

Educational and Vocational Permits

Eggs collected under this type of propagation permit are for educational and vocational purposes.

Area/Permittee	Stock/Species	Maximum number allowed to be collected
Southeast		
Juneau-Douglas High School	Dredge Lake coho	5,000 eggs
Juneau-Douglas High School	Macaulay coho	5,000 eggs
Petersburg High School	Blind Slough coho	50,000 eggs
Petersburg High School	5 Mile Creek pink	50,000 eggs
Westward		
Sand Point School	Humboldt Creek coho	50,000 eggs
Unalaska City School	Iliuliuk River coho	3 spawning pair

-continued-

Table 18.—Page 2 of 6.

Scientific and Educational Permits		
Eggs collected under this type of propagation permit are for Classroom Incubation Projects and in most cases are provided by hatcheries and not released.		
Area/Permittee	Species	Maximum number allowed to be collected
Southeast		
Angoon Schools	Coho	500
Fawn Mountain Elementary	Coho	150
Holy Name School	Coho	100
Hoonah High School	Coho	250
Juneau Community Charter School	Coho	230
Montessori Borealis	Coho	500
Naukaki School	Coho	300
Point Higgins Elementary	Coho	50
Taiya Inlet Watershed Council	King	200
Tongass School of Arts and Sciences	Coho	150
Yakutat Schools	Coho	100
Southcentral		
ADF&G Anchorage Lobby	Coho	500
Airport Heights Elementary	Coho	500
Alaska Native Cultural Charter School	Coho	500
Aleknagik School	Coho	500
Alpenglow Elementary	Coho	500
American Charter	Coho	500
Anchor Lutheran School	Coho	500
Aquarian Elementary	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
Birchwood ABC School	Coho	500
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

-continued-

Table 18.–Page 2 of 6.

Area/Permittee	Species	Maximum number allowed to be collected
Southcentral (cont.)		
Chickaloon Village	Coho	500
Chief Ivan Blunka School	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
Copper River Watershed Project	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
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
Hanshew 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

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Table 18.–Page 3 of 6.

Area/Permittee	Species	Maximum number allowed to be collected
Southcentral (cont.)		
Hope School	Coho	500
Houston High School	Coho	500
Huffman Elementary	Coho	500
Iditarod Elementary	Coho	500
Igiugig School	Chum	200
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
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
Manokotak	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
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 classroom 1	Coho	500
Nanwalek School classroom 2	Coho	200
New Stuyahok	Coho	500

-continued-

Table 18.—Page 4 of 6.

Area/Permittee	Species	Maximum number allowed to be collected
Southcentral (cont.)		
North Star Elementary 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
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
South High School	Coho	500
Southcentral Foundation	Coho	500
Spring Hill Elementary	Coho	500
Steller Secondary School	Coho	500
Sterling Elementary	Coho	500

-continued-

Table 18.—Page 5 of 6.

Area/Permittee	Species	Maximum number allowed to be collected
Southcentral (cont.)		
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
Teeland Middle School	Coho	500
The Soldotna Tutoring Program	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
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
Arctic-Yukon-Kuskokwim		
ADF&G Fairbanks lobby	Coho	300
Aniguuin School	Coho	500
Delta Elementary	Coho	500
Eek School	Coho	500
Emmonak School	Coho	500
Fort Greeley Elementary	Coho	300
Fort Yukon School	Coho	500
Gladys Jung School	Coho	500
John Fredson School	Coho	500
Joseph and Olinga Gregory Elementary School	Coho	500

-continued-

Table 18.–Page 6 of 6.

Area/Permittee	Species	Maximum number allowed to be collected
Arctic-Yukon-Kuskokwim (cont.)		
Kenny Lake School	Chum	500
Ladd Elementary	Coho	300
Mikelnguut Elitnaurviat School	Coho	500
Nome Belitz High School	Coho	500
Nome Elementary School	Coho	500
Nordale Elementary	Coho	300
Pearl Creek Elementary	Coho	300
Stebbins School	Coho	500
Ticasuk Brown Elementary	Coho	300
Tok School	Coho	500
Two Rivers Elementary	Coho	300
Unalakleet School	Coho	500
University Park Elementary	Coho	300
Watershed School	Coho	300
Weller Elementary	Coho	300
Woodriver Elementary	Coho	300
Zackar Levi Elementary School	Coho	500
Westward		
Akhiok 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
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 AEBSD	Coho	500
St. Mary's Catholic School	Coho	500

Table 19.—Updated Chinook salmon returns to Alaska hatcheries in 2012, including common property harvests, as reported by operators.

Region/Operator/Hatchery	Project	Common Property Harvest						CRH	Escapement	Other	Total Return	
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Broodstock					
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	
		1,616	1,098	1,576	252			850			5,392	
KTHC	Whitman Lake	30	280	3,960	790		1,500	2,700			9,260	
KTHC	Deer Mountain	29	9	93	25		92		35		283	
POWHA	Port Saint Nicholas			127				309			436	
	Coffman Cove Bay		162	18							180	
MIC	Tamgas Crk	221	57	356			195	120			949	
Southern Southeast Total		11,276	11,741	10,705	1,527	0	2,605	5,544	35	0	43,433	
Northern Southeast												
NSRAA	Hidden Falls	3,676	789	2,056	525		1,942	321		314	9,623	
	Lutak Inlet		88	7	6						101	
	Medvejie Creek	1,586	4,478	7,505	1,404			2,869	8,344	426	26,612	
AKI	Port Armstrong	53	78	669	24	36	390	380		588	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			102		15	310	
FED	Little Port Walter	60	22	318	31		262			76	769	
Northern Southeast Total		5,790	6,909	10,928	3,198	36	5,736	9,746	38	1,419	43,800	
Southeast Total		17,066	18,650	21,633	4,725	36	8,341	15,290	73	1,419	87,233	
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				113		690	260		1,063		
	Crooked Cr						67	100	293		460	
	Deception Cr						48	72	34		154	
	Ekultra tailrace				76						76	
	Fleming Spit				107						107	
	Kachemak Bay				14						14	
	Ninilchik R						54				54	
Cook Inlet Total		0	0	0	310	0	859	0	432	327	1,928	
Southcentral Total		0	0	0	2,248	0	859	0	432	327	3,866	
KRAA	Pillar Creek	Kodiak Road System			2,085		204				2,289	
Kodiak/Westward Total			0	0	0	2,085	0	204	0	0	2,289	
Statewide Total			17,066	18,650	21,633	9,058	36	9,404	15,290	505	1,746	93,388

Note: Highlighted fields are updates to the 2012 estimated return numbers using 2013 hatchery annual reports.

Table 20.—Updated sockeye salmon returns to Alaska hatcheries in 2012, including common property harvests, as reported by operators.

Region/Operator/Hatchery	Project	Common Property Harvest								Total Return
		Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood	CRH	Escapement	
Southern Southeast										
SSRAA	Burnett Inlet	230	1,325							1,555
	Mcdonald L	1,865	1,565							14,130
Southern Southeast Total		2,095	2,890	0	0	0	0	0	10,700	0
Northern Southeast										
DIPAC	Snettisham	797	77,863				6,862	127,442		213,578
	Stikine R (U.S. Harvest)		10,113							10,113
	Sweetheart L	1,624	619			4,637				6,880
	Taku R (U.S. Harvest)		3,857			127				3,984
Northern Southeast Total		2,421	92,452	0	0	4,764	6,862	127,442	0	614
Southeast Total		4,516	95,342	0	0	4,764	6,862	127,442	10,700	614
Prince William Sound										
PWSAC	Gulkana I and II	Paxson L	112,047		44,542		18,268		11,779	186,636
		Summit L	25,721		10,225				928	36,874
		Crosswind L	201,562		80,126				34,373	316,061
	Main Bay	Main Bay	71,122	1,200,192	1,000		13,673			5,500
		Marsha L	8,000							1,291,487
		Solf L		3,922					500	8,000
Prince William Sound Total		79,122	1,543,444	0	135,893	0	31,941	0	47,580	5,500
Cook Inlet										
CIAA	Trail Lakes	Bear L			19,576		4,431	83,453	8,008	115,468
		Hidden L		13,866	12,269		407		15,367	105
		Kirschner L								42,014
		Leisure/Hazel L	5,559		640	4,773		1,260		1,300
		Port Graham						16,817		2,560
		Tutka Bay	4,839		2,150		2,590	13,167		45
PGH	Port Graham	Port Graham			700	538				22,746
Cook Inlet Total		10,398	13,866	0	34,635	5,473	7,966	114,697	23,375	1,450
Southcentral Total		89,520	1,557,310	0	170,528	5,473	39,907	114,697	70,955	6,950
Kodiak										
KRAA	Kitoi Bay	Kitoi Bay	108,114			200	907	3,819	4,994	118,034
	Pillar Creek	Foul Bay	24,591							24,591
		Settler's Cove			6,222					6,222
		Spiridon L	60,351	89,995					21,038	
		Waterfall Bay		15,729						171,384
Kodiak/Westward Total		193,056	89,995	15,729	0	6,422	907	24,857	4,994	0
Statewide Total		287,092	1,742,647	15,729	170,528	16,659	47,676	266,996	86,649	7,564
										335,960
										2,641,540

Note: Highlighted fields are updates to the 2012 estimated return numbers using 2013 hatchery annual reports.

Table 21.—Updated coho salmon returns to Alaska hatcheries in 2012, including common property harvests, as reported by operators.

Region/Operator/Hatchery		Project	Common Property Harvest						Other	Total Return				
			Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood	CRH					
Southeast														
Southern Southeast														
SSRAA	Burnett Inlet	Burnett Inlet	710	6,080	770	1,345		3,206	7,260	2,500	21,871			
		Neck L	2,330	22,880	9,670	20,150			61,590	1,210	117,830			
		Crystal Lake	20	670	1,225	45		1,165			3,125			
		Neets Bay	38,159	44,458	123,982	4,855		1,450	65,198	6,250	284,352			
		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			
	KTHC	Bakewell L	1,345	2,740	8,080	325				1,100	13,590			
		Nakat Inlet	1,370	9,785	6,614	276					18,045			
	KTHC	Deer Mountain	936	186	326	152		208	2,380	290	394	4,872		
	POWHA	Klawock River	8,780	83	41,297	11,375	28	2,788	7,573	2,704	7,687	82,315		
MIC	Tamgas Crk		8,987	32,691	32,447			1,944	18,000			94,069		
	Southern Southeast Total		64,150	127,837	236,406	38,933	28	14,061	164,301	4,094	18,041	667,851		
Northern Southeast														
NSRAA	Hidden Falls	Hidden Falls			10,964	2,500		11,411	10,301	500	2,739	38,415		
		Deer Lake	391		17,829	3,461					6,860	42,567		
		Medvejie Creek	1,123	512	3,478	505		425	45	4,700		10,788		
		Medvejie Creek												
	AKI	Port Armstrong	872		27,320	1,085	127	4,069	19,332		5,527	58,332		
	DIPAC	Macaulay	15	712	3,605	2,327		636	4,565		818	12,678		
	KNFC	Gunnuk Creek	48		2,801	70	87	464	41	1,700	2,258	7,469		
	Northern Southeast Total		2,449	1,224	65,997	9,948	214	17,005	48,310	2,200	22,902	170,249		
Southeast Total			66,599	129,061	302,403	48,881	242	31,066	212,611	6,294	40,943	838,100		
Southcentral														
Prince William Sound														
PWSAC	W Noerenberg	Lake Bay	2,791	7,440		400		516		42	11,189			
		Whittier				350					350			
		Chenega				175					175			
		Cordova				350					350			
	VFDA	Solomon Gulch	389			20,000		2,033	454	425	10	23,311		
Prince William Sound Total			3,180	7,440	0	21,275	0	2,549	454	425	52	35,375		

-continued-

Table 21.--Page 2 of 2.

Region/Operator/Hatchery		Project	Common Property Harvest						Total Return	
			Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood	CRH	
Cook Inlet										
CIAA	Trail Lakes	Bear L				1,234		387		309
ADF&G	Ship Creek Complex	Ship Cr				1,312		987		30
		Eklutna tailrace				394				2,299
		Resurrection Bay				18,410		68		394
		Homer Spit				58				18,478
		Bird Creek				722				58
Cook Inlet Total			0	0	0	22,130	0	1,442	0	309
Southcentral Total			3,180	7,440	0	43,405	0	3,991	454	734
Kodiak/Westward										
Kodiak										
KRAA	Kitoi Bay	Kitoi Bay	45,974				200	8,863	2,379	
	Pillar Creek	Kodiak Road Sys Lakes				7,875				10,000
Kodiak/Westward Total			45,974	0	0	7,875	200	8,863	2,379	0
Statewide Total			115,753	136,501	302,403	100,161	442	43,920	215,444	7,028
										51,025
										972,677

Note: Highlighted fields are updates to the 2012 estimated return numbers using 2013 hatchery annual reports.



Table 22.—Updated pink salmon returns to Alaska hatcheries in 2012, including common property harvest, as reported by operators.

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

Table 23.—Updated chum salmon returns to Alaska hatcheries in 2012, including common property harvests, as reported by operators.

		Common Property Harvest											
		Project	Seine	Gillnet	Troll	Sport	Pers. Use/Subs.	Brood	CRH	Escapement	Other	Total Return	
Southeast													
Southern Southeast													
SSRAA		Neets Bay	Anita Bay	387,130	259,245	4,510					28,530	679,415	
			Neets Bay	730,945	71,705	384,700		216,251	997,614		66,955	2,468,170	
		Whitman Lake	Anita Bay	96,782	64,811	382					7,132	169,107	
			Kendrick Bay	958,353	15,352	203					75,957	1,049,865	
			Nakat	2,088	36,250						1,272	39,610	
				74,114	619,509						89,332	782,955	
MIC	Tamgas Crk			90,700	173,464			7,815	2,000			273,979	
Southern Southeast Total				2,340,112	1,240,336	389,795	0	0	224,066	999,614	0	269,178	5,463,101
Northern Southeast													
NSRAA		Haines Projects			7,786			2,166		9,509		19,461	
		Hidden Falls	Hidden Falls	1,084,285		72		137,125	13,605	5,000		1,240,087	
		Medvejie Creek	Medvejie Creek	329,337	157,871	21,038		46,297	9,856	258	456	565,113	
AKI		Port Armstrong	Port Armstrong	3,000		1,000		31,389	132,065		5,000	172,454	
DIPAC		Macaulay	Gastineau	11,658	468,342	5,945	3,900	97,669	617,483		30,000	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	Gunnuk Creek	27,165		5,324	12	500	54,741	100	5,500	7,200	
			Southeast Cove	27,535		4,810				1,300		20,700	
SSSC		Sheldon Jackson	Sheldon Jackson						1,202	1,157		2,359	
			Deep Inlet	53,067	25,438	3,390			7,460	1,588	42	74	
Northern Southeast Total				1,973,650	2,142,491	54,942	3,912	500	378,049	1,619,204	20,309	63,430	6,256,487
Southeast Total				4,313,762	3,382,827	444,737	3,912	500	602,115	2,618,818	20,309	332,608	11,719,588
Southcentral													
Prince William Sound													
PWSAC		AF Koernig	Sawmill Bay	74,404	250,044							324,448	
		W Noerenberg	Lake Bay	179,591	2,271,105		1,000		171,847	269,982		3,000	2,896,525
			Port Chalmers	28,926	322,544							351,470	
Prince William Sound Total				282,921	2,843,693	0	1,000	0	171,847	269,982	0	3,000	3,572,443
Southcentral Total				282,921	2,843,693	0	1,000	0	171,847	269,982	0	3,000	3,572,443
Kodiak/Westward													
Kodiak													
KRAA		Kitoi Bay	Kitoi Bay	218,184				33,727	556			252,467	
Kodiak/Westward Total				218,184	0	0	0	0	33,727	556	0	0	252,467
Statewide Total				4,814,867	6,226,520	444,737	4,912	500	807,689	2,889,356	20,309	335,608	15,544,498

Table 24.—Updated “other” hatchery-produced returns to Alaska hatcheries in 2012, as reported by operators.

Region/Operator/Hatchery	Project	Species	Common Property Harvest				Total Return
			Sport	Pers. Use/Subs.	Broodstock	Other	
Cook Inlet							
ADF&G	Ship Creek Complex	Landlocked Lakes landlocked salmon	4,631				4,631
Cook Inlet Total			4,631	0	0	0	4,631
Arctic/Yukon/Kuskokwim							
ADF&G	Ship Creek Complex	Interior Lakes Arctic Char	1,376		74		1,450
		Grayling	426				426
		Rainbow Trout	21,527		4,440		25,967
Arctic/Yukon/Kuskokwim Total			23,329		4,514		27,843
Statewide Total			27,960	0	4,514	0	32,474

Note: Highlighted fields are updates to the 2012 estimated return numbers using 2013 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	187
1978	134	75	218
1979	153	87	1,621
1980	299	96	3,061
1981	475	217	4,911
1982	548	365	6,939
1983	647	419	6,560
1984	829	512	8,258
1985	997	659	16,651
1986	1,025	763	12,674
1987	1,388	814	25,363
1988	1,341	1,115	18,432
1989	1,419	1,087	35,441
1990	1,602	1,154	48,897
1991	1,635	1,319	48,567
1992	1,725	1,324	23,237
1993	1,685	1,465	33,478
1994	1,759	1,299	55,676
1995	1,913	1,503	37,291
1996	1,688	1,638	50,012
1997	1,730	1,477	51,260
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	1,866	1,484	49,325
2003	1,933	1,521	79,888
2004	1,734	1,648	46,467
2005	1,705	1,427	80,978
2006	1,822	1,433	46,502
2007	1,724	1,560	80,263
2008	1,661	1,487	60,441
2009	1,783	1,463	45,005
2010	1,808	1,561	90,817
2011	1,912	1,539	47,836
2012	1,744	1,674	47,251
2013	2,005	1,530	111,385
Total	52,064	41,624	1,528,075

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	19	8	157
2003	15	10	159
2004	16	10	207
2005	15	10	139
2006	17	10	108
2007	17	11	137
2008	18	11	140
2009	17	12	116
2010	13	11	106
2011	13	8	131
2012	11	10	93
2013	14	9	124
Total	466	270	3,719

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	102	77	1,296
1987	107	60	992
1988	107	69	1,651
1989	112	77	2,037
1990	99	74	4,165
1991	113	70	5,432
1992	104	74	4,185
1993	122	61	5,139
1994	114	78	4,177
1995	115	81	1,505
1996	127	75	2,911
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	2,618
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	86	61	2,642
2013	83	57	2,351
Total	3,199	2,129	84,961

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	22	13	659
1987	26	15	455
1988	28	19	287
1989	24	16	503
1990	22	18	946
1991	24	14	1,287
1992	21	15	1,397
1993	25	15	1,023
1994	28	18	1,327
1995	27	21	1,313
1996	30	21	1,369
1997	34	23	1,088
1998	29	21	1,393
1999	23	22	1,542
2000	33	15	1,655
2001	32	20	1,799
2002	35	21	2,120
2003	38	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	42	30	1,420
2012	41	25	973
2013	36	28	1,743
Total	990	649	35,751

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	147
1978	79	50	202
1979	91	60	1,224
1980	181	64	2,318
1981	328	140	4,396
1982	344	252	6,610
1983	406	261	5,939
1984	443	338	5,866
1985	604	366	14,158
1986	511	484	8,739
1987	859	432	21,860
1988	797	730	13,767
1989	975	675	31,476
1990	1,013	811	41,631
1991	998	862	39,493
1992	1,077	797	14,429
1993	1,031	919	20,497
1994	1,076	787	41,055
1995	1,162	921	24,770
1996	929	999	29,214
1997	1,064	892	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
2013	1,133	798	91,790
Total	30,405	24,895	1,119,236

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	1,939
1987	380	298	1,963
1988	392	289	2,653
1989	294	310	1,347
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	551	451	12,568
2003	679	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	11,627
2012	743	635	15,544
2013	739	637	15,377
Total	17,004	13,681	284,408

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

Year	Total commercial harvest ^a	Total cost recovery harvest	CCPH ^b	Hatchery-produced fish in CCPH	Percent of hatchery-produced fish in total commercial harvest	Percent of hatchery-produced fish in CCPH
1977	50,812	109	50,703	17	0%	0%
1978	82,289	215	82,074	3	0%	0%
1979	88,762	253	88,509	582	1%	1%
1980	110,012	347	109,666	1,711	2%	2%
1981	113,333	856	112,477	3,501	4%	3%
1982	111,580	1,364	110,216	4,921	6%	4%
1983	127,706	856	126,850	4,874	4%	4%
1984	133,644	1,043	132,600	5,730	5%	4%
1985	146,388	1,854	144,534	12,863	10%	9%
1986	128,948	1,212	127,737	9,358	8%	7%
1987	96,618	4,181	92,437	18,004	23%	19%
1988	100,565	2,499	98,066	13,339	16%	14%
1989	154,129	15,013	139,116	16,122	20%	12%
1990	155,058	10,388	144,670	34,537	29%	24%
1991	189,531	13,169	176,362	29,688	23%	17%
1992	136,726	7,255	129,471	11,464	14%	9%
1993	193,116	4,853	188,263	24,078	15%	13%
1994	195,537	15,906	179,631	34,769	26%	19%
1995	217,851	9,285	208,566	24,364	15%	12%
1996	176,094	14,657	161,437	29,364	25%	18%
1997	123,130	19,410	103,719	26,780	38%	26%
1998	151,830	15,649	136,181	34,554	33%	25%
1999	216,824	22,608	194,217	42,656	30%	22%
2000	137,574	18,991	118,583	39,778	43%	34%
2001	175,172	18,444	156,728	38,785	33%	25%
2002	131,356	19,068	112,288	25,744	34%	23%
2003	177,978	22,937	155,041	49,882	41%	32%
2004	167,581	22,015	145,565	20,106	25%	14%
2005	221,909	21,263	200,646	53,566	34%	27%
2006	140,641	18,942	121,699	23,724	30%	19%
2007	213,011	19,601	193,410	57,682	36%	30%
2008	146,323	12,898	133,425	44,921	40%	34%
2009	163,013	13,789	149,224	28,139	26%	19%
2010	171,754	10,464	161,291	77,324	51%	48%
2011	176,804	12,154	164,650	32,210	25%	20%
2012	127,074	7,327	119,747	36,903	35%	31%
2013	282,916	9,480	273,436	97,091	38%	36%

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

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

^b CCPH = commercial common property harvest.

Table 32.—Actively operated Alaska hatcheries.

^a	Agency	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) 874-2525 (907) 772-4772 (907) 247-8790 (907) 225-2635	Burnett Inlet Crystal Lake ^b Neets Bay Whitman Lake	Ron Parsley Loren Thompson Matt Allen Jay Creasy	John Burke Jeff Lundberg	johnb@ssraa.org burnettinlet@starband.net crystal.lake@starband.net neetsbay@ssraa.org whitman@kpunet.net powha@hughes.net jlunberg@hughes.net jlunberg@hughes.net tchsteve@hughes.net
N	POWHA	PO Box 554	Craig, AK 99921	(907) 755-2231	Klawock River ^b Port Saint Nicholas	Jeff Lundberg Jeff Lundberg		
F	MIC	PO Box 8	Metlakatla, AK 99929	(907) 886-3150	Tamgas Creek	Steve Leask		
Northern Southeast								
R	NSRAA	1308 Sawmill Cr. Rd	Sitka, AK 99835	(907) 747-6850 (907) 766-3110 (907) 725-0995 (907) 738-1438 (907) 747-5863	Haines Projects Hidden Falls ^b Medvejie Creek Sawmill Creek	Benji Burbank Adam Olson Angie Bowers Bill Lyden	Steve Reifenstuhl Bart Watson Eric Prestegard	steve_reifenstuhl@nsraa.org benji_burbank@nsraa.org adam_olson@nsraa.org angie_bowers@nsraa.org bill_lyden@nsraa.org aki@ak.net portarmstrong@starband.net Eric_prestegard@dipac.net
N	AKI	PO Box 21990	Juneau, AK 99802	(907) 586-3443 (907) 568-2228	Port Armstrong	Ben Contag		
N	DIPAC	2697 Channel Dr.	Juneau, AK 99801	(907) 463-5114 (907) 463-5114 (907) 463-5115	Macaulay Salmon Snettisham ^b	Vacant Kevin Steck		
N	KNFC	PO Box 523	Kake, AK 99830	(907) 785-6460	Gunnuk Creek	John Oliva	John Oliva	kevin_stek@dipac.net gunnukcreek@hughes.net
N	SSSC	834 Lincoln St	Sitka, AK 99835	(907) 747-8878	Sheldon Jackson	Lon Garrison	Lisa Busch	ibusch@sitkascience.org lgarrison@sitkascience.org
F	NMFS	17109 Lena Point Loop Rd	Juneau, AK 99801	(907) 789-6055 (907) 789-6618	Little Port Walter Auke Creek	Andrew Gray John Joyce		andrew.gray@noaa.gov john.joyce@noaa.gov
Prince William Sound								
R	PWSAC	PO Box 1110	Cordova, AK 99574	(907) 424-7511	AF Koernig Cannery Creek ^b Gulkana ^b Main Bay ^b W Noerenberg	Jason Woodhull Chris Mitchell (acting) Gary Martinek Jason Myhrer Geoff Clark (acting)	Dave Reggiani	dave.pwsac@ak.net afk.pwsac@ak.net cch.pwsac@ak.net gkh.cvinternet@ak.net mbh.pwsac@ak.net wnh.pwsac@ak.net

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^a	Agency	Address	City, State, Zip	Office phone	Hatchery	Hatchery Manager	Director	Email
Prince William Sound (cont.)								
N	VFDA	PO Box 125	Valdez, AK 99686	(907) 835-4874 (907) 835-1329	Solomon Gulch	Rob Unger	Mike Wells	vfdamike@valdezfisheries.com vfda@cvinternet.net
Cook Inlet								
R	CIAA	40610 Kalifornsky Beach Rd	Kenai, AK 99611	(907) 283-5761 (907) 288-3688 (866) 309-0640 (907) 283-5761	Trail Lakes ^b Tutka Bay Lagoon ^b Port Graham	Tom Prochazka vacant	Gary Fandrei	gfandrei@ciaanet.org tprochazka_tlh@ciaanet.org CCherry@ciaanet.org CCherry@ciaanet.org
Kodiak								
R	KRAA	104 Center Street Suite 205	Kodiak, AK 99615	(907) 486-6555 (907) 743-0617 (907) 486-4730	Kitoi Bay ^b Pillar Creek ^b	Andrew Aro Alan Seale	Tina Fairbanks	kraa.fairbanks@gci.net kraa@gci.net kitoi@gci.net pch@gci.net
S	ADF&G- Division of Sport Fish	PO Box 5267 941 N. Reeve Blvd. 1150 Wilbur Street	Anchorage, AK 99505 Anchorage, AK 99501 Fairbanks, AK 99701	(907) 428-1348 (907) 269-0296 (907) 451-2661	Fort Richardson WJ Hernandez Ruth Burnett	Andrea Tesch Gary George	Jeff Milton	jeffery.milton@alaska.gov andrea.tesch@alaska.gov gary.george@alaska.gov

^a(R) Regional Aquaculture Association, Private Nonprofit, (N) Non-Regional Aquaculture Association, Private Nonprofit, (F) Federal, (S) State.^b State owned facility contracted to the private sector to operate.

Table 33.—Active Alaska hatcheries and hatchery permits.

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

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Table 33.–Page 2 of 2.

Area Type Code	Agency	Corporate name	Hatchery	PNP Permit #	PNP permit issued	Species permitted	Web Site
Prince William Sound							
R PWSAC	Prince William Sound Aquaculture Association	AF Koernig Cannery Creek ^a Gulkana ^a Main Bay ^a W Noerenberg	AF Koernig Cannery Creek ^a Gulkana ^a Main Bay ^a W Noerenberg	2 26 42 31 20	9/29/1975 6/22/1988 7/5/2000 4/17/2001 6/17/1983	pink, chum pink sockeye sockeye pink, chum, Chinook, coho	www.pwsac@ak.net
N VFDA	Valdez Fisheries Development Association	Solomon Gulch	Solomon Gulch	15	6/26/1981	pink, coho, Chinook	
Cook Inlet							
R CIAA	Cook Inlet Aquaculture Association	Eklutna Trail Lakes ^a Tutka Bay Lagoon ^a Port Graham	Eklutna Trail Lakes ^a Tutka Bay Lagoon ^a Port Graham	17 27 32 46	2/5/1982 6/22/1988 1/3/1994 1/14/2014	sockeye, coho sockeye, coho, Chinook pink, sockeye pink	www.ciaanet.org
S ADF&G	Alaska Department of Fish and Game	WJ Hernandez ^b	WJ Hernandez ^b	NA		char, grayling, rainbow trout, Chinook, coho	www.adfg.alaska.gov
Kodiak							
R KRAA	Kodiak Regional Aquaculture Association	Kitoi Bay ^a Pillar Creek ^a	Kitoi Bay ^a Pillar Creek ^a	29 41	7/5/1988 5/1/1998	pink, chum, coho, sockeye sockeye, coho, Chinook, rainbow trout	www.kraakodiak.org
Arctic-Yukon-Kuskokwim							
S ADF&G	Alaska Department of Fish and Game	Ruth Burnett	Ruth Burnett	NA		char, grayling, rainbow trout, Chinook, coho	www.adfg.alaska.gov

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

^a State-owned hatchery contracted to private sector.

^b 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, 2013.

Region	Corp.	Hatchery	Chinook	Sockeye	Coho	Pink	Chum	Other	Total
Southeast									
Southern Southeast									
SSRAA	Burnett Inlet		2.70	4.50		31.00		38.20	
	Crystal Lake ^a							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	178.00	0.10	212.08
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		3.30	0.30	77.00		85.80	
	Sawmill Creek			4.33				4.33	
AKI	Port Armstrong ^b	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	0.00			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	12.00		15.25	
Northern Southeast Total			12.25	35.50	22.73	158.30	414.80	0.00	643.58
Southeast Totals			16.65	43.20	44.61	158.30	592.80	0.10	855.67
Southcentral									
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/Westward									
Kodiak									
KRAA	Kitoi Bay		0.85	2.30	215.00	28.00		246.15	
	Pillar Creek	0.45	20.00	0.50			0.09	21.04	
Kodiak/Westward Totals			0.45	20.85	2.80	215.00	28.00	0.09	267.19
Statewide Total			25.40	163.21	59.57	1,335.30	785.80	0.19	2,369.48

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

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

^b 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	7		
	Limited Entry law enacted, creating fishery limitations for the purpose of conservation.			
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 [renamed Armin F. Koernig Hatchery in 1985] (#2), Sheldon Jackson (#3), and Sandy Bay (#4)] 2 state hatcheries constructed (Big Lake and Tutka Bay Lagoon)		4	
1976	AS 16.10.375 passed, designating regions for regional planning teams and enhancing salmon 1 state hatchery constructed at Elmendorf	11		
	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)		8	
1979	3 PNP permits issued [Salmon Creek (#9), Meyers Chuck (#10), Sheep Creek (#11)] 1 state hatchery constructed (Snettisham)	16	11	
	1 state hatchery closed (Fire Lake)	17		
1980	1 PNP permit issued to Burro Creek (#12) 2 state hatcheries constructed (Clear and Main Bay)		12	
	1 hatchery at Tamgas Creek constructed (Methlakatla Indian Community/Bureau of Indian Affairs)	18		
1981	1 state hatchery closed (East Creek) 2 state hatcheries constructed (Sikusuilaq and Trail Lakes)	17		3
		19		

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Table 35.—Page 2 of 3.

Year	Event	No. of state operated hatcheries	No. of PNP owned or operated hatcheries	No. of federal hatcheries
1981	1 PNP hatchery permit rescinded & new permit issued to new operator at Salmon Creek [#9, new #14]			
(cont.)	3 PNP permits issued [Port Armstrong (#13), Solomon Gulch (#15), Medvejie Creek (#16)]		12	15
1982	2 PNP permits issued [Eklutna (#17) and Favorite Bay (#18)]			17
1983	3 PNP permits issued [Neets Bay (#19), Esther Island [renamed Wally Noerenberg Hatchery in 1990] (#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
	2 PNP permits issued [Main Bay (#31), Tutka (#32)]			
	Portions of 6 state hatcheries paid for by private or federal funds			
1992	1 state hatchery closed (Russell Creek)	11		
	2 PNP permits issued [Port Graham (#33), Haines projects (#34)]			33
	1 PNP permit 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 River)	9		34
	1 state hatchery closed (Big Lake)	8		

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Year	Event	No. of state operated hatcheries	No. of PNP owned or operated hatcheries	No. of federal hatcheries
1994	1 state hatchery conveyed (Deer Mountain) 3 PNP permits issued [Crooked Creek (#35), Klawock River (#36), Deer Mountain (#37)] Ft. Richardson Hatchery merged with Broodstock Development Center	7 6	35	
1995	1 PNP hatchery permit rescinded and new permit issued to new operator at Klawock River (#36, new #38) 1 state hatchery transferred from Division of Commercial Fisheries Management & Development to Division of Sport Fish (Crystal Lake)		35	
1996	1 state hatchery closed (Sikusuilaq) 1 state hatchery contracted to private sector [Snettisham (#39)] 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)]	5 4	36	33
1997	1 state hatchery closed (Clear) 2 state contracted (PNP) hatcheries closed [Beaver Falls (#24), Crooked Creek (#35)] 1 PNP hatchery rescinded & new permit issued to new operator at Burnett Inlet (#5, new #40)	3	31	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)] 1 PNP hatchery permit rescinded [Port Camden (#23)] 1 PNP hatchery permit issued [Gulkana (#42)]	2	32	31
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) 1 state hatchery closed (Elmendorf), 1 state hatchery opened (William Jack Hernandez)	2	31	3
2012	1 state hatchery opened (Ruth Burnett)	3	31 ^a	3

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

^a There are 11 state-owned hatcheries that are contracted to PNP operator.