Annual Management Report for the 2020 Southeast Alaska/Yakutat Salmon Troll Fisheries

by Grant Hagerman Michael Vaughn and Justin Priest

September 2021

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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Weights and measures (metric)		General		Mathematics, statistics	
centimeter	cm	Alaska Administrative		all standard mathematical	
deciliter	dL	Code	AAC	signs, symbols and	
gram	g	all commonly accepted		abbreviations	
hectare	ha	abbreviations	e.g., Mr., Mrs.,	alternate hypothesis	H_A
kilogram	kg		AM, PM, etc.	base of natural logarithm	e
kilometer	km	all commonly accepted		catch per unit effort	CPUE
liter	L	professional titles	e.g., Dr., Ph.D.,	coefficient of variation	CV
meter	m		R.N., etc.	common test statistics	$(F, t, \chi^2, etc.)$
milliliter	mL	at	@	confidence interval	CI
millimeter	mm	compass directions:		correlation coefficient	
		east	E	(multiple)	R
Weights and measures (English)		north	N	correlation coefficient	
cubic feet per second	ft ³ /s	south	S	(simple)	r
foot	ft	west	W	covariance	cov
gallon	gal	copyright	©	degree (angular)	0
inch	in	corporate suffixes:		degrees of freedom	df
mile	mi	Company	Co.	expected value	E
nautical mile	nmi	Corporation	Corp.	greater than	>
ounce	OZ	Incorporated	Inc.	greater than or equal to	≥
pound	lb	Limited	Ltd.	harvest per unit effort	HPUE
quart	qt	District of Columbia	D.C.	less than	<
yard	yd	et alii (and others)	et al.	less than or equal to	≤
,	<i>J</i>	et cetera (and so forth)	etc.	logarithm (natural)	ln
Time and temperature		exempli gratia		logarithm (base 10)	log
day	d	(for example)	e.g.	logarithm (specify base)	log ₂ etc.
degrees Celsius	°C	Federal Information		minute (angular)	1
degrees Fahrenheit	°F	Code	FIC	not significant	NS
degrees kelvin	K	id est (that is)	i.e.	null hypothesis	H_0
hour	h	latitude or longitude	lat or long	percent	%
minute	min	monetary symbols	Č	probability	P
second	S	(U.S.)	\$, ¢	probability of a type I error	
		months (tables and		(rejection of the null	
Physics and chemistry		figures): first three		hypothesis when true)	α
all atomic symbols		letters	Jan,,Dec	probability of a type II error	
alternating current	AC	registered trademark	®	(acceptance of the null	
ampere	A	trademark	TM	hypothesis when false)	β
calorie	cal	United States		second (angular)	"
direct current	DC	(adjective)	U.S.	standard deviation	SD
hertz	Hz	United States of		standard error	SE
horsepower	hp	America (noun)	USA	variance	
hydrogen ion activity	рH	U.S.C.	United States	population	Var
(negative log of)	r		Code	sample	var
parts per million	ppm	U.S. state	use two-letter	F	
parts per thousand	ppt,		abbreviations		
L Per monomia	% %		(e.g., AK, WA)		
volts	V				
watts	W				

FISHERY MANAGEMENT REPORT NO.21-17

ANNUAL MANAGEMENT REPORT FOR THE 2020 SOUTHEAST ALASKA/YAKUTAT SALMON TROLL FISHERIES

by Grant Hagerman, Michael Vaughn, and Justin Priest Alaska Department of Fish and Game, Division of Commercials Fisheries, Sitka

> Alaska Department of Fish and Game Division of Sport Fish, Research and Technical Services 333 Raspberry Road, Anchorage, Alaska, 99518-1565

> > September 2021

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ABSTRACT

This report describes the Southeast Alaska/Yakutat salmon troll fishery, management methods, and actions taken by the Alaska Department of Fish and Game during the 2020 Chinook salmon accounting period, which occurred from October 1, 2019, through September 30, 2020. Approximately 1.05 million salmon were harvested in the 2020 Southeast Alaska troll fishery. Of this, 30,000 salmon (3%) were taken by hand troll gear and 1.02 million salmon (97%) by power troll gear. The harvest included 170,000 Chinook (*Oncorhynchus tshawytscha*), 1,700 sockeye (*O. nerka*), 751,000 coho (*O. kisutch*), 44,000 pink (*O. gorbuscha*), and 79,000 chum (*O. keta*) salmon landed by 624 power troll and 203 hand troll permit holders during the 2020 calendar year. The Chinook salmon harvest was rank as the 11th lowest and coho salmon harvests as the 18th lowest over the last 61 years since statehood, whereas the chum salmon harvest ranked 28th lowest over the same time period. The preliminary estimated Alaska hatchery contribution of Chinook salmon to the troll fishery, including hatchery terminal harvest, was 7,640 fish (4%). A total of 205,366 coho salmon produced by Alaska hatcheries were harvested by the troll fleet, accounting for 28% of the total troll coho salmon harvest. Chinook salmon escapements for 6 out of 11 Southeast Alaska rivers were within the desired escapement goal ranges, whereas escapements for 7 of the 11 coho salmon indicator systems were within or above the desired escapement goal ranges.

Keywords: Troll, Southeast Alaska, Yakutat, Chinook salmon, *Oncorhynchus tshawytscha*, coho salmon, *Oncorhynchus kisutch*, Pacific salmon, commercial fisheries, Alaska Department of Fish and Game, Annual Management Report, Pacific Salmon Treaty, Pacific Salmon Commission

INTRODUCTION

This report describes the 2020 Southeast Alaska/Yakutat (SEAK) salmon troll fisheries. An overview of the troll fishery, status of Chinook (*Oncorhynchus tshawytscha*) and coho (*O. kisutch*) stocks of SEAK, and descriptions of fishery management actions and outcomes are discussed, along with a summary of the 2020 harvest estimates compared to historical harvests. The status of hatchery production and contributions to the troll fishery are summarized, as well as wild Chinook and coho salmon escapements and exploitation rates. Troll effort and harvest statistics since statehood (1960 fishing season) are presented and include all-gear (troll, purse seine, drift gillnet, set gillnet, Annette Island, and sport fisheries) harvests for Chinook salmon and total commercial harvests for coho salmon.

TROLL FISHERY OVERVIEW

The Southeast Alaska/Yakutat (Region 1) commercial salmon troll fishery occurs in the waters of the State of Alaska and in the Federal Exclusive Economic Zone (EEZ) east of the longitude of Cape Suckling (5 AAC 29.010 and 5 AAC 29.020) (Figure 1). All other waters of Alaska are closed to commercial trolling. The troll fishery is managed according to regulations promulgated by the Alaska Board of Fisheries (BOF), the North Pacific Fishery Management Council, the National Marine Fisheries Service, and the U.S./Canada Pacific Salmon Commission (PSC). Regulations adopted by the BOF are listed in the State of Alaska Administrative Code, Title 5 (5 AAC), Chapter 29—Salmon Troll Fishery. The SEAK Chinook salmon fishery is managed to stay within the annual all-gear PSC allowable catch limit determined by the SEAK early winter District 113 power troll fishery catch per unit effort (CPUE) metric estimated from data collected in statistical weeks (SWs) 41-48. The annual harvest limit is allocated through regulations established by the BOF to provide 4.3% of the Chinook catch limit to the purse seine fleet, 2.9% to the drift gillnet fleet, and 1,000 fish to the set gillnet fleet. The total net gear allocation is then subtracted from the all-gear harvest, and the remainder of the allocation is divided between the troll and sport fisheries in an 80/20 split [5 AAC 29.060(b)]. Coho salmon are managed to ensure that escapement goals are met and to achieve BOF allocation guidelines. Coho salmon fisheries

that occur in Dixon Entrance near the U.S./Canada border are managed in cooperation with Canada, according to provisions of the Pacific Salmon Treaty (PST).

The commercial troll fleet is composed of power and hand troll gear types. Power trollers are limited to 4 lines operated by hydraulic, electrical, or mechanical powered gurdies, except within the EEZ north of the latitude of the southernmost tip of Cape Spencer, where 6 lines may be used [5 AAC 29.120(b)(1)(A) and (B)]. Vessels using hand troll gear are limited to 2 lines on 2 hand-operated gurdies or 4 fishing rods, except that following the closure of the initial summer Chinook salmon retention period and prior to the winter troll fishery, 4 hand troll gurdies or 4 fishing rods may be onboard and operated within the EEZ north of the latitude of the southernmost tip of Cape Spencer [5 AAC 29.120(b)(2)(C)]. During the winter troll season only, 2 hand troll gurdies or hand-powered downriggers can be used in conjunction with 2 fishing rods [5 AAC 29.120(j)]. Although the majority of the troll fleet sells their harvest to shore based processing plants or tenders, the fleet does include some catcher–processors, or "freezer boats," which harvest and freeze their fish at sea.

Limited entry for the power troll fishery was instituted in 1974 and the first permits were issued in 1975. The number of renewals has gradually decreased over time while the number of permits fished has fluctuated from a high of 852 in 1991 to a low of 628 in 2020. Overall, the number of power troll permits fished has declined since 1991, with effort somewhat stabilizing at historically low levels over the most recent 3 years. In the late 1970s, limited entry for the hand troll fleet was under consideration by the Commercial Fisheries Entry Commission (CFEC) and the number of hand troll permits fished doubled from 1,092 permits in 1975 to a high of 2,624 permits in 1978. Due to this increased effort, the CFEC initiated a selective limited entry regime for the hand troll fishery in 1980 and the first permits were issued in 1982. The number of hand troll permits fished declined steadily from 1979 through 2002, increased from 2003 to 2008, and has since declined to a record low 209 permits fished in 2020. The percentage of active hand troll permits in the fleet has declined from 76% in 1978 to 25% in 2020.

The commercial troll fishery harvests primarily Chinook and coho salmon. Historically, the troll fishery harvested about 85% to 90% of the Chinook salmon taken in Southeast Alaska. Since 1980, the percentage of the Chinook salmon harvest taken by the troll fishery has declined, with a recent 10-year average of 67%. The troll fleet has been managed to harvest an average of 61% of the commercial coho salmon harvest since 1989 (5 AAC 29.065), although the actual troll harvest has averaged 65% of the commercial harvest, with a range of 53% to 78%. Most other species are harvested incidentally, but in recent years, hatchery-produced chum salmon have been the target of significant troll effort. The troll fleet harvests incidental Pacific halibut under Federal Individual Fishing Quota regulations and groundfish (lingcod and rockfish) under state regulations.

CHINOOK SALMON STOCKS

Native Chinook salmon stocks occur throughout SEAK and Yakutat, primarily in the large mainland rivers and their tributaries. In total, 34 rivers in the region are known to produce runs of Chinook salmon. The most significant are the Alsek, Taku, Stikine, Chilkat, and the Behm Canal Rivers (e.g., Unuk, Chickamin, Blossom, and Keta Rivers). The three major river systems (Alsek, Taku, and Stikine Rivers), as well as several midsized systems (Unuk, Chickamin, and Chilkat Rivers), are Transboundary Rivers (TBRs), originating in Canada and flowing through Alaska to the Pacific Ocean. The PSC, under the terms of the PST, addresses shared ownership and

coordinated management of the Alsek, Taku, and Stikine Rivers salmon stocks that originate in the Canadian portion of these rivers

SEAK Chinook salmon are considered "spring type" stocks, entering spawning streams during spring and early summer months. Fry emerge the following spring and most remain in fresh water for at least 1 year before migrating seaward. Ocean residency ranges from 2 to 4 years for most Chinook salmon originating in SEAK. The troll fishery harvest several age classes of mature spawners and immature Chinook salmon during the fishing season.

Non-Alaska hatchery-produced Chinook salmon fall under the terms of the PST and are referred to as treaty Chinook salmon. Chinook salmon originating from Alaska, British Columbia, and the Pacific Northwest are harvested in the SEAK troll fishery. Stock composition information is based on coded wire tagging (CWT) studies, genetic stock analysis, age composition, and general productivity considerations. Management of Chinook salmon stocks is coordinated through the PSC.

CHINOOK SALMON FISHERY MANAGEMENT

Recent all-gear Chinook salmon harvests in SEAK (based on a moving 10-year average) have been the lowest since statehood. These lower harvests were largely driven by low abundance but also influenced by reduced allowable catches provided under terms of the PST. With the exception of the 2002–2016 time period, harvests show a declining trend since the late 1930s (Figure 2). A guideline harvest level for all stocks and a 15-year rebuilding program for SEAK Chinook salmon stocks were established in 1981. In 1985, the PST was signed, and a coastwide rebuilding program began for depressed non-Alaska Chinook salmon stocks that contribute to SEAK fisheries. The decline in coastwide abundance was primarily the result of overfishing of wild Chinook salmon stocks and the loss of freshwater spawning and rearing habitat in the Pacific Northwest.

In 1996, after three years without a Chinook salmon annex fishing agreement between the U.S. and Canada, the Letter of Agreement Regarding an Abundance-Based Approach to Managing Chinook Fisheries in Southeast Alaska (LOA) was signed. This agreement, which was in effect from 1996 through 1998, established an annual PST harvest limit based on preseason and inseason abundance estimates. In 1999, a new Chinook salmon PST agreement between the U.S. and Canada was signed similar to the abundance-based management of the LOA, with harvest limits based on preseason and postseason abundance estimates. However, during periods of lower abundance levels. Alaska agreed to reduced Chinook salmon harvests below levels previously implemented in either the PST or LOA. In 2008, a new PST was signed which remained in effect through 2018 but, unlike the previous agreement, lowered the SEAK allowable catch of Chinook salmon at all levels of projected abundance. In 2019, a new PST agreement was signed that will continue through 2028. Under terms of Chapter 3 of the new agreement, the all-gear allowable catch limit is now determined by the SEAK early winter District 113 power troll fishery CPUE metric estimated from data collected in SWs 41-48 (October-November), overages to the preseason catch limit will be paid back the following year, and an incidental mortality ceiling was set at 59,400 Chinook salmon.

Since 2014, Chinook salmon harvests have continuously declined, with the 2020 harvest the 6th lowest since Alaska statehood in 1959. The all-gear harvest of treaty Chinook salmon exceeded the preseason harvest limit 20 times over the 36-year period from 1985 through 2020, with the troll fishery exceeding its allocation 20 times during this period (Table 1). However, excess fish

taken above the preseason troll allocation in 2020 was a result of an end of the year re-allocation of Chinook salmon from the commercial net and sport fisheries. Details of the transfer of the unharvested portion of the commercial net and sport fishery allocations is provided in the *General Summer Fishery* section of this document.

The harvest of treaty Chinook salmon by commercial salmon troll fleet is limited to a specific number of fish, which varies annually according to the preseason winter troll CPUE estimate. The troll accounting year for treaty Chinook begins in fall with the start of the winter fishery, continues through the spring fishery, and ends with the summer fishery.

The winter fishery begins on October 11 and typically continues through April 30, or until the guideline harvest level (GHL) of 45,000 treaty Chinook salmon is met. However, as adopted under the Unuk River Chinook salmon action plan (Lum and Fair 2018a) during the January 2018 BOF meeting, notwithstanding any remaining portion of the 45,000 non-Alaska hatchery-produced Chinook salmon GHL, the commercial winter troll fishery is closed by emergency order on March 15 in all SEAK waters. The winter fishery is restricted to waters of Yakutat Bay and most waters east of the winter boundary line defined by established point to point landmarks between Cape Spencer and the International Boundary at Dixon Entrance [5 AAC 29.020(b)]. All coastal waters to the west of the winter boundary line are closed during the winter fishery. Fish tickets provide inseason harvest and effort information throughout the fishery.

Regulations permit spring fisheries to begin after the winter fishery is closed but no later than May 1 with fisheries continuing through June 30. However, under the broadscale regional provisions of the Unuk River king salmon action plan (Lum and Fair 2018a) to conserve wild Southeast Alaska/Yakutat Chinook salmon stocks, delays to the start of spring troll fisheries until May 1 were implemented. The spring fishery is traditionally conducted in waters along Chinook salmon migration routes and close to hatcheries or hatchery release sites with the intent to maximize the harvest of Alaska hatchery-produced Chinook salmon. Depending on run forecasts, directed commercial fisheries may also occur in Districts 8 and 11 targeting Chinook salmon returning to the Taku and Stikine Rivers.

Although there is no ceiling on the number of Chinook salmon harvested in spring fisheries, the take of treaty Chinook salmon is limited according to the percentage of Alaska hatchery fish taken in the fishery. Treaty fish are counted towards the annual PST harvest limit of Chinook salmon, whereas most Alaska hatchery fish are not. Each spring troll fishing area is managed individually and closes when the treaty limit is reached.

The guideline limits of treaty fish that may be harvested in each spring area are as follows:

Alaska hatchery contribution to the harvest	Treaty fish limit
Less than 25%	1,000
At least 25% and less than 35%	2,000
At least 35% and less than 50%	3,000
At least 50% and less than 66%	5,000
66% or more	no limit

If the preseason Abundance Index (AI) is 1.15 or above and the number of unharvested Chinook salmon remaining on the winter GHL is between 10,000 and 15,000 fish, an additional 250 non-Alaska hatchery-produced Chinook salmon will be added to the treaty caps under each tier. If the

number of fish remaining on the winter GHL is greater than 15,000 fish, an additional 500 fish will be added to each treaty tier cap [5 AAC 29.090(d)(3)(A) and (B)].

Provisions of both the Unuk River (Lum and Fair 2018a) and Chilkat/King Salmon Rivers (Lum and Fair 2018b) actions plans adopted by the BOF in 2018 to reduce encounters of wild Southeast Alaska salmon stocks during spring troll fisheries included limiting opportunities in May and June to terminal harvest areas (THA), waters in close proximity to hatchery release sites, and waters in a few defined spring troll fishery areas located on the outer coast. Although some THAs open on June 1 and remain open for extended periods of time, others open in accordance with the fishing schedules provided in THA management plans. Fish tickets and biological sampling data provide information on harvest, effort, and stock composition for the spring fisheries. Coded wire tag data is used in season to estimate the Alaska hatchery contribution to the harvest in each area. This information is used in combination with historical harvest timing data to determine fishing time for the following week.

The general summer troll fishery opens July 1 and targets the remainder of the annual troll treaty Chinook salmon harvest limit during 1 or more openings. During the summer fishery, most waters of SEAK are open to commercial trolling, including outer coastal waters. The department collects inseason fisheries performance data (FPD) from commercial fishing operators to estimate catch per boat day (CPBD) as a measure of troll CPUE by area during the summer fishery. Confidential interviews are conducted to obtain detailed CPUE data. Aerial surveys of fishing vessels are conducted to obtain an immediate estimate of fishing effort. Total harvest to date is estimated by pairing vessel counts with the CPUE information obtained from interviews. Daily summaries of both conventional and electronic fish tickets are compiled to track harvest during the final days of each directed Chinook salmon opening. Alaska Department of Fish and Game (ADF&G) also encourages trollers to report (by phone or email) information on harvest rates, effort, weather, water temperatures, and other factors that may influence the pace of the fishery.

COHO SALMON STOCKS

Coho salmon are widely distributed and are believed to be present in over 2,500 streams in SEAK. Most coho salmon streams are small, with the number of spawners typically ranging up to 1,000 fish. Because of the large number of these systems, their collective contribution to overall production is substantial. Lake systems are also important and typically produce runs between 1,000 and 10,000 fish. Large populations occur in the Taku, Chilkat, Berners, Stikine, Unuk, and Chickamin Rivers, and in most Yakutat area systems. In addition to wild stocks, coho produced by 11 local hatcheries contribute to the region's harvest.

Coho salmon rear in freshwater for 1 or 2 years and spend no more than 1 winter in the ocean before returning to spawn as adults. Spawning takes place during the fall and early winter months. Coho salmon harvested are typically 3-year-old and 4-year-old fish of Alaska origin and are harvested in the year they are returning to spawn. Troll harvests peak between mid-July and early September, whereas harvests in the inside gillnet fisheries peak between late August and early October. Escapements into streams generally peak in late September through early October, though some systems are earlier.

COHO SALMON FISHERY MANAGEMENT

All-gear commercial harvests of coho salmon have fluctuated between a low decade average of 1.0 million fish in the 1970s to a high decade average of 3.2 million fish in the 1990s, with an

annual record of 5.5 million fish harvested in 1994 (Figure 3). The BOF approved a management plan in 1980 in response to increasing effort and efficiency in the hand troll fleet, increased capitalization and efficiency in the power troll fleet, and increased troll harvest in outside waters (Figure 4). As there are no harvest ceilings, the SEAK coho salmon fishery management plan (5 AAC 29.110) requires for midseason troll closures to provide for adequate escapement and allocation to other gear groups based on inseason assessments. The regulatory period for coho salmon retention in the troll fishery is June 1 through September 20, with a potential extension through September 30 when wild coho salmon abundance is projected to meet escapement needs after harvest and effort are considered.

Long-term wild stock and hatchery stock CWT programs, dockside sampling programs, escapement monitoring projects, and the troll FPD collection program began in the early 1980s and continue through the present day. As years of data were gathered from each program, more information and understanding of stock movement, timing, and harvest were accumulated. As a result, a model was developed in 1989 to assist in the estimation of the seasonal all-gear coho salmon commercial harvest by late July using the salmon troll FPD. In the mid-1990s, escapement goals were established for several stocks in SEAK based on spawner-recruit relationships from long-term databases of harvest rate, age composition, and escapement information. Inseason run strength is an assessment used to achieve ADF&G conservation and BOF allocation objectives in the management plan (Table 2).

Coho salmon run strength is assessed 3 times throughout the summer season. The first run strength assessment occurs in late July and has 2 objectives: determine whether a regionwide closure is needed in late July based on the projected all-gear commercial wild coho harvest, and whether a closure of U.S./Canada boundary waters is necessary based on troll harvest rates in troll Area 6-Southern Inside waters (Districts 1 and 2). The PST requires that the SEAK troll fishery close for up to 7 days on or about July 25 if the projected all-gear commercial harvest of wild coho salmon is less than 1.1 million fish [5 AAC 29.110(b)(1)]. That projection is based on the relationship between the projected all-gear commercial wild coho harvest and regional troll harvest rates during early July. When this regulation was established, the commercial harvest of wild fish was considered the best proxy for the total abundance of wild coho salmon returning to the region, based on historical fishing patterns. The PST also requires that waters in the U.S./Canada boundary area to be closed for 10 days beginning in SW 31 if the Area 6 troll average CPUE for SWs 27–29 is below 22 coho/day.

As part of the second assessment in August, the department is required to evaluate SEAK fisheries to determine if a troll closure is needed to meet allocation and conservation requirements established by the BOF. The second assessment includes updated projections of the total commercial harvest and regional abundance of wild coho salmon as well as recommendations for the length and timing for a troll closure. The strength of coho salmon runs to inside areas is evaluated in part by assessing cumulative CPUE in the 4 major drift gillnet fisheries; however, drift gillnet fisheries at this early date are not necessarily indicative of actual coho abundance, because coho salmon are not targeted by gillnet gear until later in the season. Because the District 6 drift gillnet fishery shows substantial numbers of hatchery fish in the harvest during the period of late July through early August, the strength of the District 6 wild component is of particular interest. A troll closure typically occurs in mid-August and may be in effect for up to 10 days but is required to be a minimum of 2 days by regulation for a fair start prior to any second Chinook salmon retention period. The actual length of that closure is decided in early August, when an

assessment determines whether the number of coho salmon reaching inside areas is adequate to provide for spawning requirements, given normal or restricted inside fisheries on coho salmon and other species [5 AAC 29.110(b)(2)(A)], or whether the proportional share of coho salmon harvest by the troll fishery is larger than that of inside gillnet and sport fisheries compared to average 1971–1980 base levels [5 AAC 29.110(b)(2)(B)].

The third coho salmon run strength assessment occurs in September and reassesses the wild commercial troll and drift gillnet harvests and total all-gear commercial harvest projections. Harvest rates, as well as cumulative harvests from the four primary drift gillnet fisheries, are evaluated when determining whether the troll season will be extended through September 30; season extensions are considered for areas where coho salmon escapement projections indicate that fish in excess of escapement needs are available for harvest [5 AAC 29.110(a)].

SUMMARY OF THE 2020 SEASON

A total of 628 power troll permits and 209 hand troll permits were fished during the 2020 calendar year (Table 3). Overall effort increased in the winter fishery but decreased during spring and summer when compared to 2019, with the 2020 hand and power troll effort documented as the lowest number of annual permits fished on record since statehood (Tables 3 and 4). The annual combined total of 837 permits fished during 2020 was below the recent 5-year and 10-year averages, with weekly effort during the summer fishery also reflecting this trend (Figure 5). Combined power and hand troll effort increased by 46 permits during the winter fishery but decreased by 58 and 41 permits during the spring and summer fisheries when compared to effort in 2019 (Table 4, Figure 6). The decrease in overall hand troll effort compared to 2019 was 12%, whereas power troll effort decreased by 6% (Table 3). The 2020 effort of 9,519 boat-days during Chinook salmon retention periods was an increase of 177% over 2019, 87% over the recent 5-year average, and 65% the recent 10-year effort levels (Table 5, Figure 7). Effort data was derived from dockside interviews of trolling vessels in conjunction with harvest and effort data from troll fish tickets. Fluctuations in effort relate strongly to salmon prices and abundance and, to a lesser degree, the availability of alternate commercial troll opportunities in the Pacific Northwest.

The troll fleet harvested approximately 1.05 million salmon during the 2020 season, a decrease of 27% from the 2019 harvest and 56% when compared to the recent 10-year average (Table 6). Compared to 2019, the Chinook salmon harvest for 2020 was 55% higher. The 2020 coho salmon harvest was 23% lower than 2019, and peaked during the week of August 23–29, when 13% of the annual harvest was taken (Table 7). The average weight for coho salmon was below 2019 and recent 5-year and 10-year averages, reaching 5.9 lb for the season (Table 8). The 2020 harvest of chum salmon decreased by 71% compared to the 2019 harvest; likewise, the harvest of sockeye salmon was down by 74%, and the harvest of pink salmon was down 38% (Table 6). In 2020, hand troll vessels harvested 30,272 salmon and power troll vessels harvested 1,015,009 salmon. The proportion of the commercial troll harvest taken by the hand troll fleet has decreased from a peak of 32% in 1978 to a low of 3% in 2018, 2019, and 2020 (Tables 9 and 10).

CHINOOK SALMON FISHERY

The 2020 preseason early winter District 113 power troll Chinook salmon CPUE metric was estimated at 4.83 fish per day, resulting in an all-gear allowable catch limit of 205,165 treaty

Chinook salmon, as translated from the 2019–2028 PST SEAK catch ceiling tiers.¹ This corresponded to a troll treaty harvest allocation of 151,514 Chinook salmon.

The 2020 total all-gear Chinook salmon harvest was 234,788 fish, of which 36,012 fish were of Alaska hatchery origin (Table 11). The all-gear Alaska hatchery add-on of 30,164 fish was calculated by subtracting the pre-treaty base hatchery harvest and risk adjustment from the Alaska hatchery contribution. The troll fishery harvested 169,916 Chinook salmon, of which 7,640 fish were of Alaska hatchery origin, and 11,459 of the 16,892 fish taken in the purse seine fishery were Alaska hatchery produced. The drift gillnet fishery harvested 12,629 Chinook salmon, of which 10,613 fish were of Alaska hatchery origin, while all 251 Chinook salmon harvested in the Yakutat set gillnet fishery were treaty fish. The sport fishery is estimated to have harvested 35,100 Chinook salmon, of which 6,300 fish were of Alaska hatchery origin (Tables 11 and 12). The 2020 troll treaty harvest was 165,406, with a total all-gear treaty harvest of 204,624 Chinook salmon, 541 fish below Alaska's all-gear allowable catch limit

During the 2020 season, the troll harvest of Chinook salmon was managed to comply with the Chapter 3 obligations of the 2019 PST, continue all-gear conservation measures for wild SEAK Chinook salmon, provide maximum harvest of Alaska hatchery-produced Chinook, minimize incidental mortality during Chinook nonretention periods by closing areas of high Chinook salmon abundance, and comply with terms of the incidental take permit issued by the National Marine Fisheries Service.

Winter Fishery

The winter troll fishery was open from October 11, 2019, through March 15, 2020, with a total harvest of 15,810 Chinook salmon by a total of 310 permits (Tables 4, 11, and 13; and Figure 8). The 2020 early winter harvest of 8,370 Chinook salmon was 43% below the recent 5-year average, 35% below the recent 10-year average, and the 9th lowest early winter harvest since 1985. Because of the early closure, as prescribed in the Unuk River action plan (Lum and Fair 2018a), the 2020 late and total winter harvests were substantially lower than winter harvests prior to 2018, when the fishery could continue through April 15 (prior to 2003) or April 30 (2003 to 2017) by regulation. The Alaska hatchery contribution of 7% in 2020 was below the 2019 contribution (13%) and the recent 10-year (9%) average, but equal to the recent 5-year average (7%).

Spring Fishery

Since 1986 when hatchery access fisheries were established, the number of spring fisheries increased considerably, with more than 30 spring fishery areas open to trolling in recent years. As directed by the BOF adopted Chinook salmon actions plans and under emergency order authority, the 2020 spring fisheries were limited to 8 Chinook salmon terminal harvest areas and 11 spring troll areas located on the outer coast, near hatchery release sites, or a combination of both to conserve wild SEAK Chinook salmon. A total of 17 (including the Chinook salmon nonretention directed chum salmon areas) spring fishery areas were opened in 2020, and subsequently, effort and harvest were substantially reduced compared to previous year's statistics (Figure 9).

The spring troll and terminal harvest area fisheries harvested 13,167 Chinook salmon from May 1 through June 30 (Table 14). A total of 254 permits reported 12,136 Chinook salmon from 2020

Treaty between the government of Canada and the government of the United States of America concerning Pacific salmon. Annex IV, Chapter 3, Table 2. Available at https://www.psc.org/publications/pacific-salmon-treaty/ (accessed September 9, 2021).

nonterminal spring fisheries with the largest harvests occurring in the Sitka Sound, Western Channel, and Bucareli Bay spring troll areas. The 2020 nonterminal area Chinook salmon harvest was 1,767 fish greater than in 2019 but below the recent 5-year average by 54% and the recent 10-year average by 60% (Table 15). The Alaska hatchery contribution of 25% was below the recent 5-year average (33%) and the recent 10-year average (35%). The total spring and terminal effort in 2020 (288 permits) was 3% below 2019, 35% below the recent 5-year average, and 44% below the recent 10-year average. Other species harvested during the spring, terminal, and Annette Island fisheries included 4 sockeye, 63 coho, 240 pink, and 138 chum salmon (Table 7).

General Summer Fishery

During the summer troll fishery, 140,387 Chinook salmon were harvested in 2 retention periods (Table 16). The first summer troll Chinook salmon retention period began on July 1 and was managed inseason with no predetermined length, targeting an estimated 83,900 treaty Chinook salmon. Based on harvest rates observed in past years with similar preseason projected abundance, harvest rates were expected to be moderate (about 9,000–10,000 Chinook salmon per day). Similar to 2019, effort was anticipated to be slightly lower compared to recent years in response to winter and spring troll wild SEAK conservation restrictions that limited opportunities. Additionally, reduced effort was anticipated due to 2020 Alaska Health Mandates enacted following the outbreak of the COVID-19 pandemic. Considering these factors, the department estimated the harvest target would be taken in 7 to 8 days.

A total of 420 vessels were observed during aerial vessel count surveys conducted on July 2, an increase of approximately 40 vessels from the number observed on July 2, 2018 (July 2019 survey was incomplete due to poor weather conditions). After applying CPUE data generated during the first few days of Chinook salmon retention to the estimated effort, the projected daily fleet harvests were higher than anticipated. With an estimated CPUE of 14,000–15,000 Chinook salmon per day, the department projected the target harvest would be reached after 6 days of fishing. Accordingly, an advisory announcement was issued to close the first retention period at 11:59 PM on July 6. A total of 71,494 Chinook salmon were harvested by 603 permits during the 6-day opening, with a harvest per day of 11,916 Chinook salmon. The fleet included a total of 49 catcher-processors (freezer boats) during 2020, a decrease of three permits when compared to 2019. The total harvest included 763 Chinook salmon (1%) of Alaska hatchery origin, which was a decrease from the 5-year and 10-year averages of 3% Alaska hatchery origin. After subtracting the Alaska hatchery Chinook add-on of 450 fish from the total harvest, the treaty Chinook salmon harvest for the first retention period was 71,044 fish (Tables 11 and 16). Following the closure of the first Chinook salmon retention period, areas described under 5 AAC 29.025 Waters of frequent high king salmon abundance were closed for the duration of the summer season (Figure 10).

The second Chinook salmon retention period began on August 15 and was also managed inseason with no predetermined length. A total of 384 vessels were observed during aerial vessel surveys conducted on August 16, similar to 2019 when 382 vessels were counted. Based on CPUE data and reports received from the fleet over the first few days of fishing it was estimated that daily harvests were lower than anticipated, and a fishery length longer than the anticipated 4 to 6 days would be necessary. After 14 days of fishing, and with a CPUE estimate of just 2,000–3,000 Chinook salmon per day, the department projected the target harvest would be reached after 17 days of fishing. However, on August 30, the department estimated 13,370 Chinook salmon remained on the SEAK annual all-gear treaty catch limit. On August 31, the ADF&G commissioner authorized a re-allocation of the remaining all-gear SEAK treaty Chinook salmon

to the troll fishery. The remaining treaty allocation included unharvested fish from the commercial net fisheries and most notably the sport fishery, which was well under its allocation largely due to travel restrictions associated with COVID-19. Notwithstanding the complete harvest of the annual troll allocation on August 31, the second summer Chinook salmon retention period remained open to harvest the remaining all-gear Chinook salmon allowable catch. The additional fish provided another 8 days of Chinook salmon retention and contributed to a total fishery length of 25 days. A total of 68,893 Chinook salmon were harvested, with a harvest per day of 2,756 fish. The total harvest included 2,425 Chinook salmon (4%) of Alaska hatchery origin. After subtracting the Alaska hatchery Chinook salmon add-on of 1,432 fish from the total harvest, the treaty Chinook salmon harvest for the second retention period was 67,461 fish (Tables 11 and 16). A total of 571 permits were fished during the second opening, a decrease of 32 permits when compared to the first retention period.

Districts 8 and 11 Transboundary Rivers Directed Chinook Salmon Fisheries *District 8**

The 2020 preseason terminal run forecast of 13,350 large Stikine River Chinook salmon did not provide an allowable catch for U.S. or Canadian directed commercial fisheries. The preseason escapement estimate of 11,500 fish was below the escapement goal range of 14,000–28,000 and was a decrease from the 2019 escapement of 13,817 fish.

District 11

The 2020 preseason terminal run forecast of 12,400 large Taku River Chinook salmon did not provide an allowable catch for U.S. or Canadian directed commercial fisheries. The preseason escapement estimate of 13,000 fish was below the escapement goal range of 19,000–36,000 and was likely one of the lowest on record; however, the 2020 run estimate is an increase from the escapements during the 2016–2019 period.

Management Actions to Conserve Wild Southeast Alaska Chinook Salmon

In addition to the provisions of the management plans for winter, spring, and summer troll, these fisheries are also managed pursuant to the *Policy for the management of sustainable salmon fisheries* (5 AAC 39.222), whereas impacts of fishing on salmon escapement are assessed and considered in management decisions, and necessary conservation restrictions may be imposed in order to achieve escapement, rebuild, or in some other way conserve a specific salmon stock or group of stocks. Additionally, the PST requires that SEAK fisheries are managed to achieve escapement objectives for SEAK and Transboundary River (TBR) stocks.

In 2020, preseason escapement forecasts for 3 of the 4 wild coded-wire-tagged SEAK Chinook salmon indicator stocks (Taku, Chilkat, and Stikine Rivers) were below the lower bound of spawning escapement goals. With the majority of SEAK wild Chinook salmon stocks in a period of continued low production, restrictive management actions were necessary to help reduce encounters and conserve these stocks. Chinook action plans adopted during the 2018 BOF meeting, and additional commercial troll management measures were implemented by emergency order during the 2020 winter, spring, and summer troll fisheries. The majority of the wild SEAK Chinook salmon harvest in the troll fishery occurs between mid-March and early July, and as a result, most management actions focused on restrictions during that time period.

Unuk River

Under the provisions of the Unuk River Chinook salmon action plan (Lum and Fair 2018a), troll fishery conservation restrictions began with the early seasonal closure of the winter fishery. Notwithstanding any remaining portion of the 45,000 non-Alaska hatchery-produced Chinook salmon GHL, the winter troll fishery closed March 15, 6 weeks prior to the April 30 regulatory closure date. The Unuk River action plan also restricted opportunities during May and June spring troll Chinook salmon fisheries to THAs, waters in close proximity to hatchery facilities or release sites, and to areas identified as having low proportional harvests of wild stock SEAK Chinook salmon. Initial openings for 2020 spring troll fisheries located in the Ketchikan vicinity were delayed until June 1. Regional THA openings were also delayed until June 1, except for the Neets Bay THA, which was delayed an additional 2 weeks and opened June 15 in 2020. Spring troll chum salmon fisheries, as provided for in the *Districts 9, 12, and 14 Enhanced Chum Salmon Troll Fisheries Management Plan* (5 AAC 29.114), were also delayed until June 15, with retention of Chinook salmon prohibited.

Taku, Chilkat, and King Salmon Rivers

The broadscale provisions of the Unuk River Chinook salmon action plan (Lum and Fair 2018a) supersede most conservation restrictions adopted under the Chilkat and King Salmon Rivers plan (Lum and Fair 2018b); however, these conservation measures would take precedence should Unuk River Chinook be delisted as a stock of management concern. Conservation measures provided under the Unuk River plan also conserve Taku, Chilkat, and King Salmon Rivers Chinook salmon. Although the winter fishery closes on March 15 under the Unuk River action plan, conservation restrictions in the Chilkat and King Salmon Rivers action plan state that waters of Sections 11-B, 11-C, and 11-D are closed to troll gear from April 1-30, and Sections 12-B and 15-C are closed April 15–30. The waters of Section 15-A, north of the latitude of Sherman Rock, are closed to troll gear from April 15 through December 31; however, this closure does not restrict commercial fishing opportunities in May and June, as there are no spring troll fisheries conducted in this area. Furthermore, under the more restrictive provisions of the Unuk River action plan, 2020 spring troll Chinook salmon fisheries in Cross Sound, Icy Strait, and Chatham Strait were precluded. In the absence of Unuk restrictions, the Chilkat and King Salmon Rivers plan would have delayed initial openings in these areas through June 15 to coincide with weeks these stocks have historically been encountered. Lastly, and as previously addressed in this report, directed troll fisheries targeting Taku River Chinook salmon were not opened in 2020.

Stikine River

Management actions taken to reduce encounters of Stikine River Chinook salmon began during the winter troll fishery. Like other SEAK and TBR stocks, Stikine River Chinook salmon are harvested late in the winter fishery and benefited from the early closure on March 15. Although encounters of Stikine River Chinook salmon during the March 16 through April 30 time period are not as frequent as other SEAK or TBR stocks, some harvest has occurred. Supplementary conservation measures, as described in the Unuk River section, further restricted May and June fishery opportunities and closed corridor fisheries in inside waters where Stikine River Chinook salmon have historically been encountered. These conservation restrictions impacted spring fisheries in Districts 5–9. Additionally, directed spring troll fisheries targeting Stikine River Chinook salmon were not opened in 2020. Stikine River Chinook salmon conservation measures

were also implemented during the first summer troll fishery with waters of District 8 remaining closed to Chinook salmon retention during the July 1–6 fishing period.

COHO SALMON FISHERY

The weekly power troll harvest rates remained below the recent 20-year average all season for the regionwide SEAK CPUE and for CPUEs in 5 of 6 six regional troll management areas (Figures 11–13). The 2020 total troll coho salmon harvest of 750,655 fish was the lowest since 1988 (Table 6), a result of below-average harvest rates and number of permits fished (Figure 5). The coho salmon harvest peaked during SW 35, when 13% of the annual harvest was taken (Table 7). The coho salmon average weight of 5.9 lb was below the 2019 average of 6.4 lb, the 5-year average of 6.2 lb, and 10-year average of 6.1 lb (Table 8).

The first coho salmon run strength assessment of 2020 projected an all-gear commercial harvest of 1.37 million wild fish, which was above the 1.1 million fish conservation threshold for an early season closure. Using the same CPUE values, the total wild coho salmon abundance was projected at 2.69 million fish, 30% below the 1982–2019 average of 3.84 million fish and ranking 6th lowest out of the most recent 38 years. Based on these data and projections, a regionwide July closure was not warranted. However, the 2020 troll coho salmon mean average harvest rate in Troll Area 6 (Figure 1) during SW 27-29 was 14 fish per day (Figure 13), which is within the CPUE range of 0-22 fish per day that triggers conservation measures in the SEAK and Northern British Columbia troll fisheries. Notwithstanding the provisions for a boundary area closure, following an Alaska/Canada bilateral review of the SEAK Troll Area 6 (Southern Inside) coho salmon CPUE data for SW 27-29, it was determined there was an insufficient number of landings sampled to provide an adequate indicator of abundance. Alternatively, other inseason sources of abundance were considered in the determination of the necessity of a boundary area closure. The SW 29 incidental coho salmon CPUE of 87 fish per day in the Northern British Columbia (NBC) A-B Line troll pink salmon fishery was 13% above the 10-year average CPUE for the directed coho salmon fishery during the same time period. Additionally, the SEAK Tree Point drift gillnet fishery harvest of 1,884 coho salmon during SW 29 was 35% above the recent 10-year average, with only 60% of historic effort. Considering the coho salmon CPUE in these two fisheries, the reduced exploitation of stocks transiting Dixon Entrance during the assessment period due to the delay of the NBC directed troll coho salmon fishery from July 1 to August 1, and reduced sport coho salmon harvest resulting from decreased guided angler trips following restrictive COVID-19 mandates, it was determined that additional boundary area restrictions were not warranted.

The second coho salmon run strength assessment occurred in early August and projected an all-gear commercial harvest of 1.13 million wild coho and a total return of 2.35 million wild coho salmon for 2020, based on average wild coho salmon power troll CPUE through SW 31. The wild abundance projection was below average (3.82 million) and ranked 2nd lowest in 38 years, whereas the wild commercial harvest projection was also below average (2.04 million), ranking 4th lowest for the same period. The 2020 troll coho salmon harvest through SW 31 (week ending August 1) was approximately 214,338, which was below the 1971–1980 base period average of 262,326 and 20-year average of 677,361. Regional harvest rates were below the 20-year average in all Big Six areas (Figure 1) from SW 29–31 with troll effort the lowest on record (Figures 5, 11–13). For inside drift gillnet fisheries, the 2020 cumulative CPBD through SW 31 for the Tree Point fishery (District 1) was 97% above the 1971–1980 average and similar to the recent 10-year average. The CPBD in the Prince of Wales fishery (District 6) exceeded the 1971–1980 average

but was 80% below the recent 10-year average. At the time of the assessment, the District 6 drift gillnet fishery 2020 cumulative wild CPBD of 33 coho salmon was 67% below the 2010–2019 average and 34% below the 1971–1980 base period average of 50 fish. The Taku/Snettisham fishery (District 11) CPBD was below the 1971–1980 comparison period by 43% and the recent 10-year average by 18%. The CPBD in the Lynn Canal fishery (District 15) was 47% below the 1971–1980 average but 57% above the 2010–2019 comparison period (Figure 14). Based on wild run and commercial harvest projections, regional summer troll harvest rates, cumulative harvest for all drift gillnet fisheries through SW 31 and record low troll effort, an 8-day closure was recommended.

Coho salmon run strength was assessed for a 3rd time during the 3rd week of September. By SW 38 (week beginning September 13), returns to most systems in Southeast Alaska were projected to be near or within their escapement goal ranges. The Hugh Smith Lake adult coho salmon weir count of 369 fish through SW 37 was below the lower bound of the biological escapement goal (BEG) of 500-1,600 fish, with projections during SW 37 that the BEG may not be achieved with continued exploitation in the commercial troll and drift gillnet fisheries. Escapement to the Tsiu River had already exceeded the BEG range at the time of assessment, whereas escapement to the Situk River and Tawah Creek were both estimated to be within the goal range. Through SW 37, with a Canadian inriver harvest estimate of 6,000 fish, the Taku River run was expected to exceed the lower bound of the escapement goal range of 50,000 coho salmon with a projection of 56,400 fish. The Canyon Island fish wheel data through SW 37 indicated 32,000 fish had passed, which is below the 1987-2019 average of 62,000 (Figure 15). Based on below average CPUE in the District 15 drift gillnet fishery and inriver cumulative fish wheel counts through SW 37 tracking below the BEG, even after considering low water conditions at fish wheel sites were contributing to reduced catch efficiencies, the Chilkat River coho salmon run looked below average, potentially failing to reach the BEG (Figure 16). The Berners River also displayed indications of a below average run based on a history of this system tracking fairly close to the total run in the Chilkat River and with District 15 drift gillnet wild Berners River CWT recoveries 33% below the 20-year average through SW 37. The wild commercial harvest and total all-gear commercial harvest projections for coho salmon were down from estimates in early August, largely due to reduced troll effort during mid-August to early September. This reduction in directed coho effort corresponds to historic trends associated with the timing of the second Chinook salmon retention period, which occurred from August 15-September 8 in 2020. Coho salmon harvest rates in the troll fishery continued to remain below average during the time of the third run strength assessment, with SWs 34-38 regional power troll CPUE somewhat stabilizing between 34-40 coho salmon per day, a rate well below the 20-year average for this time period (Figures 11–13). Harvest rates in 3 of the 4 primary drift gillnet fisheries were also below long-term averages during this same period (Figure 14). With below average power troll CPUE and inside waters drift gillnet fishery CPUE values below the long-term historic average, the troll season closed by regulation on September 20. This was the first year since 2011 that the fishery was not extended for an additional 10 days to September 30 (Table 17).

CHUM SALMON FISHERY

Historically, chum salmon were harvested incidentally in the summer troll fishery and were not targeted until the Cross Sound pink and chum salmon fishery was established in 1988 as an indicator of pink and chum salmon abundance in inside waters. The troll harvest increased substantially in 1992 when, for the first time, over 1.0 million chum salmon returned to the

Northern Southeast Regional Aquaculture Association (NSRAA) Hidden Falls Hatchery located on eastern Baranof Island. In 1993, the NSRAA's Medvejie/Deep Inlet facility near Sitka saw a return of over 1.0 million chum salmon, and the troll chum salmon harvest increased to over 500,000 fish. Since that time, a portion of the troll fleet has targeted chum salmon, and with the exception of 1999, 2008, and 2020, the annual troll harvest of chum salmon has been consistently greater than 100,000 fish (Table 6). Trollers choosing to target chum salmon during the summer Chinook salmon openings, or during weeks when they would normally target coho salmon, redirect effort away from those species. This redirection of effort has had some effect on the total harvest and harvest rates for Chinook and coho salmon.

Spring troll fisheries in Icy Strait/Homeshore/Northern Chatham Strait, and Keku Strait are managed to target hatchery produced chum salmon. Under the Chinook action plans and supplementary actions for conservation of SEAK and TBR Chinook salmon stocks, hatchery chum salmon fisheries did not open until June 15. During the 2020 spring and early summer fisheries, a total of 57 chum salmon were harvested by 3 permit holders targeting chum salmon in the Icy Strait/Cross Sound area (Table 18). The 2020 harvest and effort represent a small fraction of the 2010–2019 average of 59,138 chum salmon by 79 permits and is the lowest harvest and effort for the combined areas since the directed chum fisheries began in 2010. Effort and harvest in the Keku Strait area remains confidential.

Prior to 2014, trollers targeted hatchery-produced chum salmon in West Behm Canal and Neets Bay during the last week of June, although the West Behm Canal spring troll area has been closed since 2014 to conserve Unuk River Chinook salmon. The majority of the harvest and effort in the Neets Bay area occurs during the summer troll fishery. The Southern Southeast Regional Aquaculture Association (SSRAA) assists in identifying when an opportunity for the troll fleet to target chum salmon in the Neets Bay THA exists. These opportunities may occur in years when surplus fish above broodstock and cost recovery needs are available. Effort and harvest have fluctuated in the THA from year to year but continued to decline since 2017 with fewer than 3 permits fished in 2020 resulting in the 2nd lowest annual effort and harvest (confidential) since 2008. A contributing factor to this decrease in harvest and effort was an early closure of the THA so that broodstock collection and cost recovery harvest could take place. The return of summer chum salmon to the Neets Bay THA was well below expectations by the middle of July. Cost recovery operations were postponed in Neets Bay to ensure broodstock needs were met, and commercial fisheries within the THA were closed on July 7. Although the troll fishery remained open in the adjacent waters of West Behm Canal, the number of troll permits targeting chum in areas outside the THA also greatly decreased in 2020 (5 permits) when compared to the recent 10-year average (120 permits). The harvest of chum salmon for the combined West Behm Canal/Neets Bay THA areas decreased dramatically, making 2020 the lowest annual harvest since 2008. The total troll directed chum salmon harvest for Neets Bay THA and all of West Behm Canal combined was 1,004 chum salmon by 5 permits, which represents 0.5% of the harvest and 4% of the effort compared to the 2010–2019 average. (Figure 17).

In 2020, the troll fleet harvested a total of 6,427 chum salmon in Sitka Sound/Deep Inlet from a total run of 750,593 fish to the Medvejie/Deep Inlet facility. This is a decrease in harvest of 80% from 2019 and 95% from the 2010–2019 average. The number of permits fished in these areas declined by 77% in 2020 when compared to the 2019 and 2010–2019 averages of 100 permits fished (Table 18).

Since 2018, Crawfish Inlet has provided a new hatchery chum salmon opportunity for the troll fleet during the summer season. Throughout the summer of 2020, 51 permit holders harvested a total of 64,637 chum salmon in the Crawfish Inlet THA/West Crawfish areas, with peak harvest occurring the week of August 9. This represents a decrease of 61% in effort and 71% in harvest when compared to the 2018–2019 averages (Table 18).

The 2020 directed chum harvest of 72,598 fish for all troll fisheries combined was a 70% decrease compared to 2019 and was 79% below the recent 5-year average. Effort directed at targeting hatchery-produced chum salmon peaked in 2013 but has declined since then. The number of permits fished in all directed troll chum fisheries decreased 64% in 2020 when compared to 2019 (Figure 17). Fluctuations in effort may relate to harvest rates, price, abundance of other salmon species, marine environment, conservation measures, and fish behavior.

OTHER SPECIES

A total of 1,659 sockeye and 43,598 pink salmon were harvested during the 2020 troll season (Table 6). Sockeye salmon harvest for 2020 was above the 10-year average for 1960–1969 but below averages for all 10-year periods between 1970–2019. Pink salmon harvest for 2020 was below average when compared to all 10-year averages from 1960–2019. When compared to 2019, sockeye harvest decreased by 74% and pink salmon harvest decreased by 38%.

EXCLUSIVE ECONOMIC ZONE HARVESTS

In 2020, approximately 27% of Chinook (45,661 fish) and 15% of coho salmon (115,257 fish) harvested by the troll fishery were reported as taken outside of state waters in the EEZ (Districts 150, 152, 154, 156, 157, and 189). In addition, 385 sockeye, 3,402 pink, and 1,196 chum salmon were taken in the EEZ. The Chinook salmon harvest from the EEZ represents 33% of the harvest during the 2020 summer troll Chinook salmon retention periods. This is slightly below 2019 when 44% of summer Chinook salmon were harvested in the EEZ; however, it's above both 5-year average of 28% and 10-year average of 23%. When all species are combined, 16% of the annual troll harvest was taken outside state waters. This represents a 5% decrease in proportion harvested in EEZ waters when compared to 2019 but is an increase from the 5-year (10%) and 10-year (7%) averages. Recent changes in harvest patterns were influenced by a greater distribution of Chinook and coho salmon in offshore waters.

ALASKA HATCHERY PRODUCTION

Private nonprofit and federal hatcheries in Southeast Alaska produce both Chinook and coho salmon that are harvested by the troll, drift gillnet, and purse seine fleets. Hatchery-produced Chinook salmon began appearing in significant numbers in troll harvests in 1980 when an estimated 5,900 fish were harvested. Alaska hatchery contributions are generally greatest during the spring fisheries, followed by the winter and summer fisheries (Tables 13, 15, and 16). The peak harvest of Alaska hatchery fish in the troll fishery occurred in 1996, when 38,365 Alaska hatchery Chinook (27% of the total troll Chinook salmon harvest) were harvested. The all-gear Alaska hatchery Chinook salmon proportion of harvest also peaked in 1996, when 88,742 fish, or approximately 38% of the total harvest, were Alaska hatchery fish (Table 19, Figure 18). In 2020, the combined Alaska hatchery harvest contributed approximately 36,012 Chinook salmon to all fisheries, with 7,640 fish harvested in the troll fishery (Table 19).

Hatchery-produced coho salmon were first harvested in the troll fishery in 1980. The hatchery contribution to the total coho salmon harvest has increased from less than 1% in 1980 to 33% in 2018, with Alaska hatcheries producing nearly 100% of these fish. In 2020, the hatchery coho salmon contribution was 28% of the harvest for a total contribution of 206,309 fish. This was approximately 139,204 fish (40%) below the recent 20-year average (Table 20, Figure 19). Hatchery coho salmon contributions peaked in early September during SWs 36 and 37 when 57,202 fish (28%) of the total hatchery coho salmon were harvested.

WILD STOCK ESCAPEMENT

CHINOOK SALMON ESCAPEMENT

Since a 15-year Chinook salmon rebuilding program began in 1981, ADF&G has annually estimated escapements on 11 indicator systems. These escapements were initially measured against interim goals established prior to 1985, which in general were set as the largest escapements seen prior to 1981. As a part of the rebuilding program, ADF&G conducted CWT studies and improved escapement estimation methods. The department also sampled age and sex data in the escapement in order to allow the use of spawner-recruit analytical methods to set BEGs, which is the number of salmon in a particular stock that should be allowed to escape fisheries and spawn to provide the greatest potential for maximum sustained yield. With improved escapement estimation methods, BEGs for the 3 Transboundary River stocks and the 8 Southeast Alaska stocks have subsequently been revised. Current spawning escapements are determined using observer counts, mark—recapture estimates, and weirs.

During the 2018 BOF meeting, action plans for Chilkat, King Salmon, and Unuk River stocks of Chinook salmon were adopted, providing ADF&G managers with direction to conserve these stocks along with other wild SEAK and TBR stocks through emergency order authority. Management actions were implemented for all gear groups in 2020 to lower calendar year exploitation rates and pass as many SEAK and TBR Chinook salmon to escapement as possible. In 2020, preliminary estimates indicate that 6 of the 11 index systems monitored in Southeast Alaska met or exceeded spawning escapement goals (Table 21). This was a slight decrease over 2019 escapements, when 7 of the 11 indexed systems met or exceeded goals.

The 3 Transboundary River stocks that are monitored for Chinook salmon escapement are the Alsek, Taku, and Stikine Rivers, 2 of which had escapements that were below their BEG ranges. The Alsek River had an estimated escapement of 5,308 Chinook salmon which exceeded the BEG range of 3,500–5,300 fish. Escapement to the Stikine River, a glacial origin system near Wrangell and the largest river in Southeast Alaska, was estimated at 11,500 Chinook salmon, slightly below the BEG range of 14,000–28,000 fish. The Taku River, a large glacial system near Juneau, had an escapement of 13,000 Chinook salmon which fell below the lower bound of the BEG range of 19,000–36,000 fish but showed improved escapement when compared to 2016–2019.

Chinook salmon escapements to 3 of the SEAK indicator systems in East Behm Canal declined in 2020; however, 3 of the 4 monitored systems were within BEG ranges. The Keta River, with an estimated escapement of 668 Chinook salmon, exceeded the lower bound of the BEG range of 550–1,300 fish. The escapement to the Blossom River of 515 Chinook salmon was also within the BEG range of 500–1,400 fish. Escapement to the Chickamin River improved from 2019, with the estimated return of 2,280 Chinook salmon falling within the BEG range of 2,100–4,300 fish. The Unuk River, a glacial system in northeast Behm Canal and a stock listed as a management concern

in 2018, had an estimated escapement of 1,135 Chinook salmon; this was below the BEG range of 1,800–3,800 fish, and it marked the first time since 2017 the escapement goal was not achieved.

Two of the 4 remaining Southeast Alaska indicator systems (Situk and Chilkat Rivers) had Chinook salmon escapements that exceeded or were within their BEG ranges in 2020; escapement to Andrew Creek and the King Salmon River fell below goal. The Situk River, a moderate-sized nonglacial system near Yakutat had an estimated escapement of 1,129 Chinook salmon, which was above the BEG range of 500–1,000 fish. The Chilkat River, another moderately sized glacial system near Haines, had an escapement of 3,210 Chinook salmon, making 2020 the largest escapement to this system since 2009, and near the upper end of the BEG range (1,750–3,500 fish). Andrew Creek, a small nonglacial U.S. tributary of the lower Stikine River near Wrangell, had an estimated escapement of 470 Chinook salmon; this was below the BEG range of 650–1,500 fish and a decrease from 2019 but was similar escapement to 2016–2018 runs. Lastly, the King Salmon River, a small river system located on Admiralty Island, had an estimated escapement of 100 Chinook salmon which is below the BEG range (120–240 fish). Although the 2020 Chinook salmon run did not meet goal, it was a large increase from 2019 and is the 2nd highest estimated escapement since 2012.

COHO SALMON ESCAPEMENT

Only a small percentage of the coho salmon escapements in Southeast Alaska are enumerated or surveyed because of the extremely scattered distribution of stocks and difficult conditions for observation of spawners during the fall months (Table 22). In 2020, weirs were operated on 2 systems, and foot or aerial surveys were conducted on another 27 streams. An adult mark—recapture program has been in operation since 1987 to estimate the escapement of coho salmon to the Taku River.

Variations in environmental conditions and run timing can cause difficulties in obtaining ground and aerial survey escapement estimates that reflect actual spawner abundance. High-water events appear to trigger spawning but also adversely affect stream visibility and make it difficult or impossible to accurately count fish. Once spawning occurs, survival time is typically very short and post-spawners are quickly removed by predators or flushed downstream by high water. Survey counts are usually higher when fall weather is dry and fish continue to accumulate in streams before spawning occurs. Low peak counts are often associated with fall seasons when sequential, protracted freshets occur in October that bring fish to the spawning areas and then flush out post-spawners while at the same time severely limiting survey opportunities. Improved precision can be obtained by conducting multiple surveys throughout the fall. This is feasible for some systems such as Juneau roadside streams, but it is more difficult and expensive for remote streams such as the major coho salmon producing systems in southern Southeast Alaska.

Migrations into spawning streams generally peak in late September. Escapement goals for indicator streams have usually been met and exceeded in many cases in recent years (Tables 22–26, Figure 21). In 2020, coho salmon returns to northern inside areas were generally below or within BEGs (Table 24). The preliminary estimated coho salmon escapement to the Taku River above Canyon Island (52,126 fish) was within the BEG of 50,000–90,000 fish. In Lynn Canal, escapement of 3,296 coho salmon in Berners River was slightly below the recently revised BEG (3,600–8,100 fish), and the Chilkat River coho salmon escapement estimate of 29,349 fish was below the minimum goal of 30,000–70,000 fish (Table 24, Figure 21). Of the 3 index streams

on the Juneau road system, the escapement count was below the BEG range for Auke Creek, within the SEG range for Montana Creek, and below the minimum BEG for Peterson Creek (Table 24).

Coho salmon returns were generally below average in outer coastal systems, and the escapement count of 630 fish for 5 small streams on Baranof and Kruzof Islands was below the 38-year (1982–2019) average of 1,380 fish but above the BEG of 400–800 fish (Table 25).

The overall index of 8,610 coho salmon for 14 streams in the Ketchikan (Southern Inside) area was above the goal of 4,250–8,500 fish yet below the 33-year (1987–2019) average of 10,495 fish (Table 26, Figure 21). The total coho salmon escapement to Hugh Smith Lake of 634 fish was within the BEG range (500–1,600 fish) for the 6th consecutive year, following a period of 7 consecutive years (2008–2014) when the BEG was consistently exceeded.

COHO SALMON EXPLOITATION RATES

CWT studies conducted since the early 1980s have provided annual harvest rate estimates for 4 coho salmon stocks. These stocks include Auke Creek near Juneau, the Berners River in lower Lynn Canal, Ford Arm Lake on the outer coast north of Sitka, and Hugh Smith Lake on the mainland southeast of Ketchikan (Figure 20). Fish are tagged in these systems and their contribution to the fisheries is estimated through ADF&G harvest sampling and CWT processing programs. Weirs are currently operated on 2 lake systems (the Ford Arm study was discontinued after 2015) to enumerate coho salmon escapements and to estimate the fraction of the returning population marked with CWTs. The Berners River escapement is intensively surveyed on foot using beach seines to collect samples to estimate the fraction of the returning population marked with CWTs. Escapement estimates for the Berners River are conservative because a lower river weir is not employed, resulting in harvest rate estimates that are likely to be biased slightly upward (Table 23).

The average 2020 total exploitation rate by all fisheries on the 3 indicator stocks (Berners River, Auke Creek, and Hugh Smith Lake) was 29%, compared with the 30-year (1990–2019) average of 50% (Table 27, Figure 22). The estimate of 42% exploitation for the Hugh Smith Lake stock was below the recent 10-year (2010–2019) average exploitation rate (52%), and well below the 1990–2019 average of 60%. The 2020 all-gear exploitation rate was influenced by a much lower troll fleet exploitation rate total index of 18%, well below the recent 10-year average of 26%. Exploitation rates varied between gear groups as well; the average drift gillnet exploitation rate was equal to the recent 10-year average for the Berners River (19%; 10-year mean = 19%) but below for Hugh Smith Lake (8%; 10-year mean = 12%). Fishing effort (boat-days) was well below the recent 10-year average in the primary drift gillnet fisheries exploiting these stocks, and returning fish were slightly smaller than the recent 5-year and 10-year averages.

The 2020 troll fishery Exploitation Rate Index of 18% was well below the 1982–2019 average of 34% (Table 28, Figure 23) and the lowest on record, beating the previous low of 20% in 2019. The Alaska troll exploitation rate for the Hugh Smith Lake stock (24%) was similar to the long-term average (32%). In contrast, troll exploitation rates for northern inside stocks (0% for Auke Creek and 5% for Berners River) were substantially below the 1990–2019 average (26%). The declining troll exploitation rate correlates with the substantial reduction in fishery participation over the recent 5-year period and especially during 2020. Since 2015, the annual number of troll permits fished has declined by 25% (Table 3, Figure 6). In addition to reduced overall effort, the number of permits that have diversified to target hatchery chum salmon over the most recent 10 years (2010–2019) has also reduced the number of boat-days trollers have targeted coho salmon. The

average troll fishery exploitation rate of 25% from 2011 to 2020 is a 33% decrease from an average of 37% during the 1982-2010 time period, when opportunities to target hatchery chum salmon were fewer than during the most recent 10 years.

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TABLES AND FIGURES

Table 1.—All-gear and troll treaty Chinook salmon harvest, hatchery add-on, total harvest, treaty harvest limit, terminal exclusion harvest, and the number of fish over or under the harvest limit, 1985–2020.

				All-gea	ar			Troll				
Year	Treaty harvest	Hatchery add-on	Terminal exclusion	Total harvest	Preseason treaty harvest limit	Postseason treaty harvest limit	Over/under preseason harvest limit	Treaty harvest	Total harvest	Preseason treaty harvest limit	Over/under preseason harvest limit	
1985	268,293	6,246	0	274,539	263,000	263,000	5,293	211,933	215,811	=	-	
1986	271,262	11,091	0	282,353	263,000	263,000	8,262	231,649	237,703	_	=	
1987	265,323	17,095	0	282,418	263,000	263,000	2,323	231,051	242,562	218,000	13,051	
1988	256,787	22,525	0	279,312	263,000	263,000	-6,213	217,088	231,364	218,000	-912	
1989	269,522	21,510	0	291,032	263,000	263,000	6,522	224,182	235,716	218,000	6,182	
1990	320,996	45,873	0	366,869	302,000	302,000	18,996	263,528	287,939	257,000	6,528	
1991	297,986	61,476	0	359,462	273,000	273,000	24,986	231,803	264,106	228,000	3,803	
1992	221,980	36,811	0	258,791	243,000	243,000	-21,020	162,617	183,759	167,790	-5,173	
1993	271,193	32,910	0	304,103	263,000	263,000	8,193	212,350	226,866	201,690	10,660	
1994	235,165	29,185	0	264,350	240,000	240,000	-4,835	177,146	186,331	180,400	-3,254	
1995	176,939	58,800	0	235,739	175,000	202,500	1,939	115,072	138,117	_	=	
1996	154,997	72,599	8,663	236,259	146,700	147,500	8,297	107,581	141,452	102,000	5,581	
1997	286,696	46,463	9,843	343,002	277,200	289,500	9,496	221,944	246,409	214,761	7,183	
1998	243,152	25,021	2,420	270,593	261,700	260,000	-18,548	183,489	192,066	192,176	-8,687	
1999	198,842	47,725	4,453	251,020	192,800	184,200	6,042	132,741	146,219	140,728	-7,986	
2000	186,493	74,316	2,481	263,290	189,900	178,500	-3,407	133,963	158,717	138,507	-4,545	
2001	186,919	77,287	1,528	265,734	189,900	250,300	-2,981	128,692	153,280	138,507	-9,816	
2002	357,133	68,164	1,237	426,534	356,500	371,900	633	298,132	325,308	266,056	32,075	
2003	380,152	57,228	2,056	439,436	366,100	439,600	14,052	307,380	330,692	273,406	33,973	
2004	417,019	75,955	6,295	499,268	383,500	418,300	33,519	321,876	354,658	286,728	35,148	
2005	388,640	64,408	40,154	493,202	416,400	387,400	-27,760	304,891	338,451	311,916	-7,025	
2006	360,094	48,404	27,047	435,545	346,800	354,500	13,294	263,980	282,315	256,664	7,315	
2007	328,268	68,364	8,051	404,683	329,400	259,200	-1,132	240,474	268,146	243,747	-3,273	
2008	172,905	66,149	5,273	244,328	170,000	152,900	2,905	126,352	151,936	125,408	944	

-continued-

Table 1.—Page 2 of 2.

				All-gear				Troll				
Year	Treaty harvest	Hatchery add-on	Terminal exclusion	Total harvest	Preseason treaty harvest limit	Postseason treaty harvest limit	Over/under preseason harvest limit	Treaty harvest	Total harvest	Preseason treaty harvest limit	Over/under preseason harvest limit	
2009	227,954	61,960	3,733	293,647	218,800	176,000	9,154	159,126	175,644	161,637	-2,511	
2010	230,611	53,640	501	284,752	221,800	215,800	8,811	177,982	195,620	163,864	14,118	
2011	291,161	65,474	739	357,374	294,800	283,300	-3,639	220,787	242,569	218,060	2,728	
2012	242,821	51,392	1,106	295,319	266,800	205,100	-23,979	191,553	209,074	197,272	-5,719	
2013	191,388	65,598	266	257,252	176,000	284,900	15,388	134,580	149,541	129,862	4,718	
2014	435,195	56,592	736	492,522	439,400	378,600	-4,205	340,015	355,570	325,411	14,604	
2015	335,026	68,097	216	403,339	237,000	337,500	98,026	251,086	269,862	175,145	75,941	
2016	350,704	35,673	664	387,042	355,600	288,200	-4,896	266,048	276,432	263,197	2,851	
2017	175,414	31,638	0	207,052	209,700	215,800	-34,286	123,691	129,649	154,880	-31,189	
2018	127,776	36,966	0	164,742	130,000	118,700	-2,224	101,469	107,565	95,700	5,769	
2019	140,307	34,578	211	175,096	140,323	140,323	-16	103,067	109,364	103,376	-309	
2020	204,624	30,164	0	234,788	205,165	NA	-541	165,406	169,916	151,514	13,892	
1985–2020 Cumulative total 136,457 1985–2020 Cumulative total									206,667			

Note: Harvest limit for 2018 is based on a 10% conservation reduction to the preseason Abundance Index. En dash indicates no data.

Table 2.-Harvest and percent of commercially harvested coho salmon by gear type in Southeast Alaska, 1989–2020.

	Troll		Purse s	seine	Drift g	illnet	Set gi	llnet	All–gear	r total
•		Percent		Percent		Percent		Percent		Percent
Year	Number	(%)	Number	(%)	Number	(%)	Number	(%)	Number	(%)
1989	1,415,517	65	333,116	15	255,689	12	176,816	8	2,181,138	100
1990	1,832,604	67	379,334	14	377,803	14	148,891	5	2,738,632	100
1991	1,719,082	59	411,854	14	601,179	21	166,731	6	2,898,846	100
1992	1,929,945	56	505,135	15	699,448	20	290,149	8	3,424,677	100
1993	2,395,887	67	477,006	13	445,880	13	237,446	7	3,556,219	100
1994	3,467,599	63	970,100	18	744,558	13	343,903	6	5,526,160	100
1995	1,750,262	56	627,472	20	456,820	15	295,030	9	3,129,584	100
1996	1,906,769	64	447,005	15	404,627	14	227,802	8	2,986,203	100
1997	1,170,534	64	189,036	10	156,725	9	322,776	18	1,839,071	100
1998	1,636,711	59	475,232	17	441,458	16	197,669	7	2,751,070	100
1999	2,272,653	69	422,926	13	394,260	12	187,186	6	3,277,025	100
2000	1,125,219	67	210,528	12	181,796	11	170,948	10	1,688,491	100
2001	1,845,627	63	556,193	19	338,083	11	205,344	7	2,945,247	100
2002	1,315,062	53	479,489	19	491,683	20	200,888	8	2,487,122	100
2003	1,223,458	56	400,988	19	467,337	22	74,343	3	2,166,126	100
2004	1,916,675	67	405,151	14	339,466	12	196,930	7	2,858,222	100
2005	2,038,296	74	348,072	13	297,878	11	82,887	3	2,767,133	100
2006	1,362,983	74	114,313	6	277,853	15	86,085	5	1,841,234	100
2007	1,378,062	72	252,575	13	204,081	11	76,550	4	1,911,268	100
2008	1,293,030	63	215,648	11	377,469	19	153,712	8	2,039,859	100
2009	1,591,547	67	298,614	13	351,367	15	133,808	6	2,375,336	100
2010	1,343,032	59	203,631	9	579,830	25	161,584	7	2,288,077	100
2011	1,314,210	63	352,128	17	285,983	14	126,215	6	2,078,536	100
2012	1,201,724	64	280,116	15	303,041	16	98,677	5	1,883,558	100
2013	2,393,790	67	553,501	15	482,433	13	158,046	4	3,587,770	100
2014	2,248,371	66	394,174	12	599,606	18	161,977	5	3,404,128	100
2015	1,241,100	64	294,550	15	274,909	14	129,069	7	1,939,628	100
2016	1,387,590	66	267,213	13	299,645	14	144,032	7	2,098,480	100
2017	2,151,782	78	276,635	10	187,888	7	140,844	5	2,757,149	100
2018	942,622	64	156,810	11	272,951	19	95,954	7	1,468,337	100
2019	973,903	63	249,790	16	210,621	14	100,473	7	1,534,787	100
2020	750,655	72	78,710	8	130,465	13	81,709	8	1,041,539	100
1989–2019 Average:	1,670,505	65	372,527	14	380,723	15	170,734	7	2,594,489	100
Board of Fisheries alloca		61		19		13		7		_
1989–2019 Deviation fro	,	6	_	-26	=	13	=	-4	=	_
2020 Deviation from allo	ocations	18	_	-60	_	-4	_	12	_	_

Note: Annette Island and terminal harvest are included. En dash indicates no data.

Table 3.-Southeast Alaska commercial troll permits fished, 1975–2020.

Year	Hand troll	Power troll	Total	% Hand troll
1975	1,092	762	1,854	59
1976	1,238	745	1,983	62
1977	1,836	750	2,586	71
1978	2,624	816	3,440	76
1979	2,207	819	3,026	73
1980	1,667	842	2,509	66
1981	1,153	793	1,946	59
1982	1,067	810	1,877	57
1983	946	810	1,756	54
1984	860	795	1,655	52
1985	903	830	1,733	52
1986	804	827	1,631	49
1987	763	828	1,591	48
1988	777	828	1,605	48
1989	694	830	1,524	46
1990	701	840	1,541	45
1991	704	852	1,556	45
1992	648	843	1,491	43
1993	603	842	1,445	42
1994	550	808	1,358	41
1995	462	819	1,281	36
1996	413	739	1,152	36
1997	389	745	1,134	34
1998	306	735	1,041	29
1999	340	722	1,062	32
2000	317	714	1,031	31
2001	307	703	1,010	30
2002	254	666	920	28
2003	267	641	908	29
2004	325	692	1,017	32
2005	353	718	1,071	33
2006	371	741	1,112	33
2007	377	744	1,121	34
2008	377	747	1,124	34
2009	367	748	1,115	33
2010	341	730	1,071	32
2011	374	760	1,134	33
2012	355	744	1,099	32
2013	366	723	1,089	34
2014	348	758	1,106	31
2015	361	754	1,115	32
2016	275	745	1,020	27
2017	259	722	981	26
2018	238	674	912	26
2019	230	665	895	26
2020	209	628	837	25

Note: Permits fished based on calendar year. Data from 1975–2016 permits fished taken from CFEC, 2017–2020 data from ADFG.

Table 4.-Number of troll permits fished by gear type and fishery, 1980-2020.

Year Hand Power Total Hand Power Total Hand Power Total % hand 1980 262 204 466 - - - - 1,135 791 1,926 59% 1981 183 165 348 - - - 1,135 791 1,926 59% 1983 254 331 585 - - - 923 805 1,728 53% 1984 221 366 587 - - - 887 829 1,716 52% 1985 196 303 499 - - - 887 829 1,716 52% 1986 174 318 492 23 47 70 777 822 1,599 49% 1987 195 319 514 36 69 105 732 825 1,557 47%		W	inter fisher	y	Sı	oring ^a fisher	y	Gene	ral summer	fishery	Annual
1981 183	Year	Hand	Power	Total	Hand	Power	Total	Hand	Power	Total	
1981 183		262	204	466	_	_	_	1,661	843	2,504	66%
1982	1981		165	348	_	_	_				59%
1983 254 331					_	_	_				
1984 221 366 587 - - - 833 787 1,620 51% 1985 196 303 499 - - - - 887 829 1,716 52% 1986 174 318 492 23 47 70 777 822 1,599 49% 1987 195 319 514 36 69 105 732 825 1,557 47% 1988 295 433 728 149 260 399 726 821 1,547 47% 1989 262 475 737 54 142 195 664 834 1,498 44% 1990 167 356 523 107 170 277 645 830 1,475 44% 1991 182 383 565 220 352 572 626 840 1,466 43% <t< td=""><td></td><td></td><td></td><td></td><td>_</td><td>_</td><td>_</td><td></td><td></td><td></td><td></td></t<>					_	_	_				
1985 196 303 499 - - - 887 829 1,716 52% 1986 174 318 492 23 47 70 777 822 1,599 49% 1987 195 319 514 36 69 105 732 825 1,557 47% 1988 295 433 728 149 260 399 726 821 1,547 47% 1989 262 475 737 54 142 195 664 834 1,498 44% 1990 167 356 523 107 170 277 645 830 1,475 44% 1991 182 383 565 520 352 572 626 840 1,466 43% 1991 182 383 181 338 519 558 832 1,390 40% 1993 127					_	_	_	833			
1987 195 319 514 36 69 105 732 825 1,557 47% 1988 295 433 728 149 260 399 726 821 1,547 47% 1989 262 475 737 54 142 195 664 834 1,498 44% 1990 167 356 523 107 170 277 665 840 1,466 43% 1991 182 383 565 220 352 572 626 840 1,466 43% 1992 186 431 617 182 281 463 599 827 1,426 42% 1993 127 366 493 181 338 519 558 832 1,390 40% 1994 77 306 383 75 221 296 531 797 1,328 40% 1995	1985			499	_	_	_				
1988 295 433 728 149 260 399 726 821 1,547 47% 1989 262 475 737 54 142 195 664 834 1,498 44% 1990 167 356 523 107 170 277 645 830 1,475 44% 1991 182 383 565 220 352 572 626 840 1,466 43% 1992 186 431 617 182 281 463 599 827 1,426 42% 1993 127 366 493 181 338 519 558 832 1,390 40% 1994 77 306 383 75 221 296 531 797 1,328 40% 1995 71 227 298 110 276 386 462 380 725 1,105 34%	1986	174	318	492	23	47	70	777	822	1,599	49%
1988 295 433 728 149 260 399 726 821 1,547 47% 1989 262 475 737 54 142 195 664 834 1,498 44% 1990 167 356 523 107 170 277 645 830 1,475 44% 1991 182 383 565 220 352 572 6626 840 1,466 43% 1992 186 431 617 182 281 463 599 827 1,426 42% 1993 127 366 493 181 338 519 558 832 1,390 40% 1994 77 306 383 75 221 296 531 797 1,328 40% 1995 71 227 298 110 276 386 462 380 725 1,105 34%	1987	195	319	514	36	69	105	732	825	1,557	47%
1989 262 475 737 54 142 195 664 834 1,498 44% 1990 167 356 523 107 170 277 645 830 1,475 44% 1991 182 383 565 220 352 572 626 840 1,466 43% 1992 186 431 617 182 281 463 599 827 1,426 42% 1993 127 366 493 181 338 519 558 832 1,390 40% 1994 77 306 383 75 221 296 531 797 1,328 40% 1995 71 227 298 110 276 386 422 809 1,231 34% 1996 50 180 230 126 336 462 380 725 1,105 34% 1998	1988	295	433	728	149	260	399	726		1,547	47%
1991 182 383 565 220 352 572 626 840 1,466 43% 1992 186 431 617 182 281 463 599 827 1,426 42% 1993 127 366 493 181 338 519 558 832 1,390 40% 1994 77 306 383 75 221 296 531 797 1,328 40% 1995 71 227 298 110 276 386 422 809 1,231 34% 1996 50 180 230 126 336 462 380 725 1,105 34% 1997 49 207 256 145 335 480 338 735 1,073 32% 1998 50 232 282 86 277 363 281 727 1,008 28% 1999 </td <td>1989</td> <td>262</td> <td>475</td> <td>737</td> <td>54</td> <td>142</td> <td>195</td> <td>664</td> <td></td> <td>1,498</td> <td>44%</td>	1989	262	475	737	54	142	195	664		1,498	44%
1992 186 431 617 182 281 463 599 827 1,426 42% 1993 127 366 493 181 338 519 558 832 1,390 40% 1994 77 306 383 75 221 296 531 797 1,328 40% 1995 71 227 298 110 276 386 422 809 1,231 34% 1996 50 180 230 126 336 462 380 725 1,105 34% 1997 49 207 256 145 335 480 338 735 1,073 32% 1998 50 232 282 86 277 363 281 727 1,008 28% 1999 53 233 286 91 255 346 304 712 1,016 30% 2000 <td>1990</td> <td>167</td> <td>356</td> <td>523</td> <td>107</td> <td>170</td> <td>277</td> <td>645</td> <td>830</td> <td>1,475</td> <td>44%</td>	1990	167	356	523	107	170	277	645	830	1,475	44%
1993 127 366 493 181 338 519 558 832 1,390 40% 1994 77 306 383 75 221 296 531 797 1,328 40% 1995 71 227 298 110 276 386 422 809 1,231 34% 1996 50 180 230 126 336 462 380 725 1,105 34% 1997 49 207 256 145 335 480 338 735 1,073 32% 1998 50 232 282 86 277 363 281 727 1,008 28% 1999 53 233 286 91 255 346 304 712 1,016 30% 2000 67 244 311 112 323 435 255 696 951 27% 2001	1991	182	383	565	220	352	572	626		1,466	43%
1994 77 306 383 75 221 296 531 797 1,328 40% 1995 71 227 298 110 276 386 422 809 1,231 34% 1996 50 180 230 126 336 462 380 725 1,105 34% 1997 49 207 256 145 335 480 338 735 1,073 32% 1998 50 232 282 86 277 363 281 727 1,008 28% 1999 53 233 286 91 255 346 304 712 1,016 30% 2000 67 244 311 112 323 435 255 696 951 27% 2001 80 242 322 125 345 470 242 687 929 26% 2002	1992	186	431	617	182	281	463	599	827	1,426	42%
1995 71 227 298 110 276 386 422 809 1,231 34% 1996 50 180 230 126 336 462 380 725 1,105 34% 1997 49 207 256 145 335 480 338 735 1,073 32% 1998 50 232 282 86 277 363 281 727 1,008 28% 1999 53 233 286 91 255 346 304 712 1,016 30% 2000 67 244 311 112 323 435 255 696 951 27% 2001 80 242 322 125 345 470 242 687 929 26% 2002 72 228 300 105 330 435 186 641 827 22% 2004	1993	127	366	493	181	338	519	558	832	1,390	40%
1996 50 180 230 126 336 462 380 725 1,105 34% 1997 49 207 256 145 335 480 338 735 1,073 32% 1998 50 232 282 86 277 363 281 727 1,008 28% 1999 53 233 286 91 255 346 304 712 1,016 30% 2000 67 244 311 112 323 435 255 696 951 27% 2001 80 242 322 125 345 470 242 687 929 26% 2002 72 228 300 105 330 435 186 641 827 22% 2003 96 264 360 90 311 401 190 609 799 24% 2004	1994	77	306	383	75	221	296	531	797	1,328	40%
1997 49 207 256 145 335 480 338 735 1,073 32% 1998 50 232 282 86 277 363 281 727 1,008 28% 1999 53 233 286 91 255 346 304 712 1,016 30% 2000 67 244 311 112 323 435 255 696 951 27% 2001 80 242 322 125 345 470 242 687 929 26% 2002 72 228 300 105 330 435 186 641 827 22% 2003 96 264 360 90 311 401 190 609 799 24% 2004 129 310 439 114 336 450 238 675 913 26% 2005 <	1995	71	227	298	110	276	386	422	809	1,231	34%
1998 50 232 282 86 277 363 281 727 1,008 28% 1999 53 233 286 91 255 346 304 712 1,016 30% 2000 67 244 311 112 323 435 255 696 951 27% 2001 80 242 322 125 345 470 242 687 929 26% 2002 72 228 300 105 330 435 186 641 827 22% 2003 96 264 360 90 311 401 190 609 799 24% 2004 129 310 439 114 336 450 238 675 913 26% 2005 142 302 444 125 387 512 281 701 982 29% 2006 <t< td=""><td>1996</td><td>50</td><td>180</td><td>230</td><td>126</td><td>336</td><td>462</td><td>380</td><td>725</td><td>1,105</td><td>34%</td></t<>	1996	50	180	230	126	336	462	380	725	1,105	34%
1999 53 233 286 91 255 346 304 712 1,016 30% 2000 67 244 311 112 323 435 255 696 951 27% 2001 80 242 322 125 345 470 242 687 929 26% 2002 72 228 300 105 330 435 186 641 827 22% 2003 96 264 360 90 311 401 190 609 799 24% 2004 129 310 439 114 336 450 238 675 913 26% 2005 142 302 444 125 387 512 281 701 982 29% 2006 152 317 469 151 378 527 268 717 985 27% 2007 <t< td=""><td>1997</td><td>49</td><td>207</td><td>256</td><td>145</td><td>335</td><td>480</td><td>338</td><td>735</td><td>1,073</td><td>32%</td></t<>	1997	49	207	256	145	335	480	338	735	1,073	32%
2000 67 244 311 112 323 435 255 696 951 27% 2001 80 242 322 125 345 470 242 687 929 26% 2002 72 228 300 105 330 435 186 641 827 22% 2003 96 264 360 90 311 401 190 609 799 24% 2004 129 310 439 114 336 450 238 675 913 26% 2005 142 302 444 125 387 512 281 701 982 29% 2006 152 317 469 151 378 527 268 717 985 27% 2007 153 350 503 172 369 541 284 726 1,010 28% 2008	1998	50	232	282	86	277	363	281	727	1,008	28%
2001 80 242 322 125 345 470 242 687 929 26% 2002 72 228 300 105 330 435 186 641 827 22% 2003 96 264 360 90 311 401 190 609 799 24% 2004 129 310 439 114 336 450 238 675 913 26% 2005 142 302 444 125 387 512 281 701 982 29% 2006 152 317 469 151 378 527 268 717 985 27% 2007 153 350 503 172 369 541 284 726 1,010 28% 2008 136 333 469 182 438 620 291 726 1,017 29% 2019	1999	53	233	286	91	255	346	304	712	1,016	30%
2002 72 228 300 105 330 435 186 641 827 22% 2003 96 264 360 90 311 401 190 609 799 24% 2004 129 310 439 114 336 450 238 675 913 26% 2005 142 302 444 125 387 512 281 701 982 29% 2006 152 317 469 151 378 527 268 717 985 27% 2007 153 350 503 172 369 541 284 726 1,010 28% 2008 136 333 469 182 438 620 291 726 1,017 29% 2009 131 299 430 158 428 586 305 735 1,040 29% 2010	2000	67	244	311	112	323	435	255	696	951	27%
2003 96 264 360 90 311 401 190 609 799 24% 2004 129 310 439 114 336 450 238 675 913 26% 2005 142 302 444 125 387 512 281 701 982 29% 2006 152 317 469 151 378 527 268 717 985 27% 2007 153 350 503 172 369 541 284 726 1,010 28% 2008 136 333 469 182 438 620 291 726 1,017 29% 2009 131 299 430 158 428 586 305 735 1,040 29% 2010 131 328 459 157 427 584 269 715 984 27% 2011	2001	80	242	322	125	345	470	242	687	929	26%
2004 129 310 439 114 336 450 238 675 913 26% 2005 142 302 444 125 387 512 281 701 982 29% 2006 152 317 469 151 378 527 268 717 985 27% 2007 153 350 503 172 369 541 284 726 1,010 28% 2008 136 333 469 182 438 620 291 726 1,017 29% 2009 131 299 430 158 428 586 305 735 1,040 29% 2010 131 328 459 157 427 584 269 715 984 27% 2011 134 330 464 174 466 640 301 729 1,030 29% 2012 <td>2002</td> <td>72</td> <td>228</td> <td>300</td> <td>105</td> <td>330</td> <td>435</td> <td>186</td> <td>641</td> <td>827</td> <td>22%</td>	2002	72	228	300	105	330	435	186	641	827	22%
2005 142 302 444 125 387 512 281 701 982 29% 2006 152 317 469 151 378 527 268 717 985 27% 2007 153 350 503 172 369 541 284 726 1,010 28% 2008 136 333 469 182 438 620 291 726 1,017 29% 2009 131 299 430 158 428 586 305 735 1,040 29% 2010 131 328 459 157 427 584 269 715 984 27% 2011 134 330 464 174 466 640 301 729 1,030 29% 2012 132 375 507 162 463 625 284 728 1,012 28% 2013<	2003	96	264	360	90	311	401	190	609	799	24%
2006 152 317 469 151 378 527 268 717 985 27% 2007 153 350 503 172 369 541 284 726 1,010 28% 2008 136 333 469 182 438 620 291 726 1,017 29% 2009 131 299 430 158 428 586 305 735 1,040 29% 2010 131 328 459 157 427 584 269 715 984 27% 2011 134 330 464 174 466 640 301 729 1,030 29% 2012 132 375 507 162 463 625 284 728 1,012 28% 2013 127 315 442 173 477 650 295 699 994 30% 2014<	2004	129	310	439	114	336	450	238	675	913	26%
2007 153 350 503 172 369 541 284 726 1,010 28% 2008 136 333 469 182 438 620 291 726 1,017 29% 2009 131 299 430 158 428 586 305 735 1,040 29% 2010 131 328 459 157 427 584 269 715 984 27% 2011 134 330 464 174 466 640 301 729 1,030 29% 2012 132 375 507 162 463 625 284 728 1,012 28% 2013 127 315 442 173 477 650 295 699 994 30% 2014 133 331 464 161 455 616 271 734 1,005 27% 201	2005	142	302	444	125	387	512	281	701	982	29%
2008 136 333 469 182 438 620 291 726 1,017 29% 2009 131 299 430 158 428 586 305 735 1,040 29% 2010 131 328 459 157 427 584 269 715 984 27% 2011 134 330 464 174 466 640 301 729 1,030 29% 2012 132 375 507 162 463 625 284 728 1,012 28% 2013 127 315 442 173 477 650 295 699 994 30% 2014 133 331 464 161 455 616 271 734 1,005 27% 2015 111 296 407 168 497 665 263 727 990 27% 2016<	2006	152	317	469	151	378	527	268	717	985	27%
2009 131 299 430 158 428 586 305 735 1,040 29% 2010 131 328 459 157 427 584 269 715 984 27% 2011 134 330 464 174 466 640 301 729 1,030 29% 2012 132 375 507 162 463 625 284 728 1,012 28% 2013 127 315 442 173 477 650 295 699 994 30% 2014 133 331 464 161 455 616 271 734 1,005 27% 2015 111 296 407 168 497 665 263 727 990 27% 2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 </td <td>2007</td> <td>153</td> <td>350</td> <td>503</td> <td>172</td> <td>369</td> <td>541</td> <td>284</td> <td>726</td> <td>1,010</td> <td>28%</td>	2007	153	350	503	172	369	541	284	726	1,010	28%
2010 131 328 459 157 427 584 269 715 984 27% 2011 134 330 464 174 466 640 301 729 1,030 29% 2012 132 375 507 162 463 625 284 728 1,012 28% 2013 127 315 442 173 477 650 295 699 994 30% 2014 133 331 464 161 455 616 271 734 1,005 27% 2015 111 296 407 168 497 665 263 727 990 27% 2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832	2008	136	333	469	182	438	620	291	726	1,017	29%
2011 134 330 464 174 466 640 301 729 1,030 29% 2012 132 375 507 162 463 625 284 728 1,012 28% 2013 127 315 442 173 477 650 295 699 994 30% 2014 133 331 464 161 455 616 271 734 1,005 27% 2015 111 296 407 168 497 665 263 727 990 27% 2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832 20%	2009	131	299	430	158	428	586	305	735	1,040	29%
2012 132 375 507 162 463 625 284 728 1,012 28% 2013 127 315 442 173 477 650 295 699 994 30% 2014 133 331 464 161 455 616 271 734 1,005 27% 2015 111 296 407 168 497 665 263 727 990 27% 2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832 20%	2010	131	328	459	157	427	584	269	715	984	27%
2013 127 315 442 173 477 650 295 699 994 30% 2014 133 331 464 161 455 616 271 734 1,005 27% 2015 111 296 407 168 497 665 263 727 990 27% 2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832 20%	2011	134	330	464	174	466	640	301	729	1,030	29%
2014 133 331 464 161 455 616 271 734 1,005 27% 2015 111 296 407 168 497 665 263 727 990 27% 2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832 20%	2012	132	375	507	162	463	625	284	728	1,012	28%
2015 111 296 407 168 497 665 263 727 990 27% 2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832 20%	2013	127	315	442	173	477	650	295	699	994	30%
2016 98 331 429 134 475 609 197 724 921 21% 2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832 20%	2014	133	331	464	161	455	616	271	734	1,005	27%
2017 97 339 436 100 377 477 212 701 913 23% 2018 73 256 329 73 328 401 167 665 832 20%	2015	111	296	407	168	497	665	263	727	990	27%
2018 73 256 329 73 328 401 167 665 832 20%	2016				134			197			
	2017	97	339	436	100	377	477	212	701	913	23%
<u>2019</u> 85 178 263 65 320 385 161 645 806 20%	2018	73	256	329	73	328	401	167	665	832	20%
	2019	85	178	263	65	320	385		645	806	20%
2020 90 220 310 58 269 327 154 611 765 20%	2020		220	310	58	269	327	154	611	765	20%

Note: En dash indicates no data.

^a Spring summary data includes experimental and terminal fisheries for both spring and summer seasons; does not include permits fished in the hatchery access fisheries in 1989–1992.

Table 5.–Number of days and dates the summer troll fishery was open to Chinook salmon retention (CR), closed to Chinook salmon retention (Chinook nonretention or CNR), and closed to all salmon species (all) and effort during CR and CNR periods, 1985–2019.

` ′		·	•						
	Days	Days	Open	CR	CR effort	Closed	Days	CNR	CNR effort
Year	open	closed	dates	days	(boat days)	dates	closed	days	(boat days)
1985	10	18	6/3-6/12	10	_	6/13-6/30	18 (all)	_	_
	23.6	68.4	7/1-7/22	22	_	7/23-8/14	23	_	_
	-	_	8/25-8/26	1.6	31,197	8/15-8/24	10 (all)	_	_
	_	_	_	_	_	8/26-9/20	25.4	_	_
	_	_	_	_	_	9/21-9/30	10 (all)	48.4	30,567
1986	41	62	6/20-7/15	26	_	7/16-8/10	26	_	=
	_	_	_	_	_	8/11-8/20	10 (all)	_	_
	_	_	_	_	_	8/27-8/31	5	_	_
	_	_	8/21-8/26	6	_	9/10-9/20	11	_	_
	_	_	9/1–9/9	9	35,646	9/21–9/30	10 (all)	42	29,901
			27.1 27.2		20,0.0	<i>3.21 3.00</i>	10 (411)		=>,> 01
1987	17	2	6/1-6/17	17	_	6/18-6/19	2 (all)	_	_
1707	23	80	6/20–7/12	23	21,819	7/13–8/2	21	_	_
	_	-	-	_	-	8/3-8/12	10 (all)		
	_	_	_	_	_	8/13–9/20	39	_	_
			_		_	9/21–9/30	10 (all)	60	34,604
					-	9/21-9/30	10 (all)	00	34,004
1000	22	2	(16, 6120	22		(100, (100	0 (11)		
1988	23	2	6/6–6/28	23	11.257	6/29–6/30	2 (all)	_	_
	12	80	7/1–7/12	12	11,357	7/13–7/25	13	_	_
	_	_	_	_	_	7/26–8/4	10 (all)	_	=
	_	_	_	_	_	8/5-8/14	10	_	=
	_	_	_	_	=	8/15-8/24	10 (all)	_	=
	_	_	_	_	_	8/25–8/31	7	_	_
	_	_	_	_	_	9/1–9/3	3 (all)	_	_
	=	=	_	_	_	9/4–9/20	17 ^a	_	_
	=	=	_		_	9/21–9/30	10 (all)	47	22,820
1989	25	0	6/6–6/30	25	_	none	0	_	_
	13	79	7/1–7/13	13	10,507	7/14-8/13	31	_	_
	_	_	_	_	_	8/14-8/23	10 (all)	_	=
	_	_	_	_	_	8/24–9/20	28	_	_
		_				9/21–9/30	10 (all)	59	33,278
1990	26	0	6/5-6/30	26	_	none	0	_	_
	24	68	7/1-7/22	22	_	7/23-8/12	21	_	_
	_	-	_	_	_	8/13-8/22	10 (all)	_	_
	_	=	8/23-8/24	2	17,988	8/25-9/20	27	_	_
	-	-	_	_	_	9/21-9/30	10 (all)	48	27,742
1991	24	5	6/2-6/25	24	_	6/26-6/30	5 (all)	_	_
	7.5	84.5	7/1-7/8	7.5	6,898	7/8-8/15	38.5	_	_
	=	_	_	_	_	8/16-8/25	10 (all)	_	_
	=	_	_	_	_	8/26-9/20	26	-	_
	_	_	_	_	_	9/21-9/30	10 (all)	64.5	30,720
									,

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Table 5.—Page 2 of 5.

Year	Days open	Days closed	Open dates	CR days	CR effort (boat days)	Closed dates	Days closed	CNR days	CNR effort (boat days)
1992	36	0	5/26-6/30	36	_	none	0	-	_
	4.5	87.5	7/1-7/4	3.5	_	7/4-8/12	39.5	_	_
	_	=	_	_	_	8/13-8/22	10 (all)	_	_
	_	=	23-Aug	1	3,878	8/24-9/20	28	_	_
						9/21–9/30	10 (all)	67.5	34,367
1993	38	0	5/24-6/30	38	=	none	0	-	=
	20	72	7/1-7/6	6	_	7/7-7/11	5 (all)	_	_
	_	=	_	_	_	7/12-8/12	32	_	_
	_	=	_	_	_	8/13-8/20	8 (all)	_	_
	_	_	8/21-8/25	5	_	8/26-9/11	17	_	_
			9/12–9/20	9	12,094	9/21–9/30	10 (all)	49	27,009
1994	38	1	5/23–6/29	38	_	6/30	1 (all)	_	_
	12	80	7/1–7/7	7	_	7/8–8/26	50	_	_
	=	=	_	_	_	8/27–8/28	2 (all)	_	_
	=	=	8/29-9/2	5	7,489	9/3–9/30	28	78	34,216
1995	38	2	5/22-6/28	38		6/29–6/30	2 (all)	_	_
	17	75	7/1-7/10	10	_	7/11–7/29	19	_	_
	=	_	7/30–8/5	7	9,013	8/6–8/12	7	_	_
	_	_	_	_	_	8/13-8/22	10 (all)	_	_
	_	_	_	_	_	8/23-9/30	39	65	19,963
1996	54	2	5/6-6/28	54	-	6/29–6/30	2 (all)	_	
	12	80	7/1-7/10	10	_	7/11-8/13	34	_	_
	_	_	_	_	_	8/14-8/18	5 (all)	_	_
	_	_	8/19-8/20	2	5,446	8/21-9/20	31	_	_
	_	_	_	_		9/21–9/30	10 (all)	65	20,489
1997	52	5	5/5–6/25	52	_	6/26–6/30	5 (all)	_	_
	21	71	7/1–7/7	7	_	7/8–8/7	31	_	_
	_	=	_	_	_	8/8-8/17	10 (all)	_	_
	_	_	8/18-8/24	7	_	8/25-8/29	5	_	_
	_	_	8/30-9/5	7	9,161	9/6-9/20	15 ^b	_	_
						9/21–9/30	10 (all)	51	14,054
1998	57	1	5/4–6/29	57	=	6/30	1 (all)	_	=
	53	39	7/1–7/11	11	_	7/12–8/11	31	_	_
	_	_	8/20–9/30	42	12,068	8/12–8/19	8 (all)	31	11,091
1999	59	0	5/3-6/30	59	-	none	0		
1,,,,	11	81	7/1–7/6	6	_	7/7–8/12	37	_	_
	_	-	//1 //O _	_	_	8/13–8/17	5 (all)	_	_
						0.10 0.11	~ (411)		

-continued-

Table 5.—Page 3 of 5.

Year	Days open	Days closed	Open dates	CR days	CR effort (boat days)	Closed dates	Days closed	CNR days	CNR effort (boat days)
2000	74	1	4/17-6/29	74	_	6/30	1 (all)	_	=
	24	68	7/1-7/5	5	_	7/6-8/10	36	_	_
	_	=	8/11-8/12	2	_	8/13-8/22	10 (all)	_	_
	_	=	8/23-8/30	8	_	8/31-9/11	12	_	_
	_	=	9/12-9/20	9	6,237	9/21-9/30	10 (all)	48	13,399
2001	76	0	4/16–6/30	76	_	none	0	_	_
	25	67	7/1-7/6	6	_	7/7-8/12	37	_	=
	_	_	_	_	_	8/13-8/17	5 (all)	_	_
	_	_	8/18-9/5	19	7,458	9/6-9/20	15	_	_
	_	_	_	_	_	9/21-9/24	4 (all)	_	_
	_	-	-	_		9/25-9/30	6	58	13,438
2002	77	0	4/15-6/30	77	_	none	0	_	_
	40	52	7/1-7/18	18	_	7/19-8/9	22	_	_
	_	_	_	_	_	8/10-8/11	2 (all)	_	_
			8/12-9/2	22	11,104	9/3-9/30	28	50	8,072
2003	72	0	4/20-6/30	72	_	none	0	_	_
	39	53	7/1-8/8	39	10,811	8/9–9/30	53	53	8,422
2004	70	0	4/22-6/30	70	_	none	0	_	_
	19	73	7/1–7/15	15	_	7/16-8/9	25	_	
	_	_	_	_	_	8/10-8/11	2 (all)	_	
	_	_	8/12-8/15	4	7,353	8/16-9/30	46	71	14,665
2005	77	0	4/15–6/30	77	_	none	0	_	_
	29.5	62.5	7/1-7/17	17	_	7/18-8/9	23	_	_
	_	_	_	_	_	8/10-8/13	4 (all)	_	_
	_	_	8/14-8/20	6.5	_	8/20-9/14	25.5	_	_
	_	-	9/15-9/20	6	10,083	9/21-9/30	10 (all)	48.5	12,688
2006	69	0	4/23-6/30	69	_	none	0	_	_
	22	70	7/1-7/12	12	_	7/13-8/8	27	_	_
	_	_	_	_	_	8/9-8/12	4 (all)	_	_
	_	_	8/13-8/22	10	9,821	8/23-8/27	5 (all)	_	_
	_	-	-	_	<u> </u>	8/28-9/30	34	61	13,486
2007	61	0	5/1-6/30	61	_	none	0	_	=
	26	66	7/1-7/20	20	_	7/21-8/10	21	_	_
	_	_	_	_	_	8/11-8/15	5 (all)	_	—
	_	_	8/16-8/21	6	10,628	8/22-9/20	30	_	_
		_	_	_	<u> </u>	9/21-9/30	10 (all)	51	12,819
2008	61	0	5/1–6/30	61	_	none	0	_	_
	11	81	7/1–7/5	5	_	7/6–8/10	36	_	_
	_	_	_	_	_	8/11–8/15	5 (all)	_	_
	_	-	-	_	_	8/22–9/20	30	-	-
	_		8/16-8/21	6	5,745	9/21–9/30	10 (all)	66	15,855

Table 5.—Page 4 of 5.

Year	Days open	Days closed	Open dates	CR days	CR effort (boat days)	Closed dates	Days closed	CNR days	CNR effort (boat days)
2009	61	0	5/1-6/30	61		none	0		
	19	73	7/1-7/10	10	_	7/11-8/11	32	_	_
	_	_	8/17-8/25	9	7,589	8/12-8/16	5 (all)	_	_
	_	-	_	_	_	8/26–9/30	36	68	15,307
2010	61	0	5/1-6/30	61	_	none	0	_	_
	13	79	7/1–7/8	8	_	7/9–8/10	33	_	_
	_	_	8/15–8/19	5	5,549	8/11–8/14	4 (all)	_	_
	_	-	_	_	_	8/20–9/20	32	_	_
	_	-	-	_	-	9/21–9/30	10 (all)	65	16,641
2011	((0	4/25 (/20	((0		
2011	66	0	4/25–6/30	66	_	none	0 29	_	_
	15	77	7/1–7/12	12	- 5 470	7/13-8/10		_	_
	_	_	8/15-8/17	3	5,479	8/11–8/14	4 (all)	_	_
	_	_	_	_	_	8/18–9/20	34	-	10.611
						9/21–9/30	10 (all)	63	12,611
2012	61	0	5/1-6/30	61	_	none	0	_	_
	38	54	7/1-7/9	9	_	7/10-8/6	28	_	_
	_	_	8/11-9/8	29	13,024	8/7-8/10	4 (all)	_	_
	_	-	_		_	9/9-9/30	22	50	8,495
2013	61	0	5/1-6/30	61	_	none	0	_	_
	6	86	7/1-7/6	6	2,671	7/7-9/30	86	86	19,785
2014	61	0	5/1-6/30	61	_	none	0	_	_
	12	80	7/1-7/7	7	_	7/8-8/9	33	_	_
	_	_	8/14-8/18	5	5,405	8/10-8/13	4 (all)	_	_
	_	=	_	_	_	8/19-9/30	43	76	16,973
2015	76	0	4/16-6/30	76	_	none	0	-	_
	8	84	7/1–7/8	8	3,174	7/9–9/30	84	84	12,758
2016	77	0	4/15–6/30	77	_	none	0	_	_
2010	27	65	7/1–7/5	5	_	7/6–8/8	34	_	_
	_	-	8/13–9/3	22	10,183	8/9–8/12	4 (all)	_	_
	_	_	_	_	_	9/4–9/30°	27	61	11,072
2017	44	17	5/1-6/30	44		5/29–6/14	17 (all)	-	-
_01/	21	71	7/1–7/4	4	_	none	0	_	_
	_	_	_	_	2,156	7/5–9/30 ^d	88	88	19,696
2018	36	25	5/1-6/30	61		none	25	-	
2010	19	73	7/1–7/14	14	_	7/15–8/9	26	_	=
	_	-	8/15–8/19	5	_	8/10–8/14	5 (all)	_	=
	_	_			6,522	8/20–9/30	42	68	11,484
				_	0,322	0/20-9/30	42	08	11,464

Table 5.—Page 5 of 5.

Year	Days open	Days closed	Open dates	CR days	CR effort (boat days)	Closed dates	Days closed	CNR days	CNR effort (boat days)
2019e	61	0	5/1-6/30	61	_	none	0	-	_
	17	75	7/1-7/5	5	_	7/6-8/4	30	_	_
	_	_	8/13-8/14	2	_	8/5-8/12	8 (all)	_	_
	_	_	9/1-9/10	10	3,437	8/15-8/31	17	_	_
	_	_	-	_	-	9/11–9/30	20	67	14,694
2020^{f}	61	0	5/1-6/30	61	-	None	0	_	_
	31	66	7/1-7/6	6	_	7/7-8/6	31	_	_
	_	_	8/13-9/8	25	9,519	8/7-8/14	8 (all)	_	_
	_	_	-	_	_	9/9-9/20	17	_	_
	_	_	_	_	_	9/21-9/30	10 (all)	48	6,991

Note: Spring fishery date ranges indicate only the first and last date that fisheries were open prior to July 1, when the general summer troll season began. "Days open" indicates the actual number of days open prior to July 1. "Days closed" indicates days not open between the start of the spring fisheries through June 30. En dash indicates no data.

^a In 1988, the southern areas of Southeast Alaska were closed due to coho salmon conservation concerns.

^b In 1997, the northern areas of Southeast Alaska were closed due to coho salmon conservation concerns.

^c In 2016, a mark-selective fishery was conducted from September 4 to 30, when the directed Chinook salmon fishery was closed.

^d In 2017, a mark-selective fishery was conducted from July 5 to 21, when the directed Chinook salmon fishery was closed.

^e In 2019, a new Limited Harvest Fishery was implemented from September 1 to 10, allocating 2 Chinook per permit during the 10-day fishery.

f In 2020, the second summer troll Chinook salmon retention period was extended due to transfer of allocations from the commercial net and sport fisheries.

Table 6.-Commercial troll salmon harvest in numbers of fish by salmon species, 1960-2020.

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
1960	282,404	939	396,211	25,563	2,453	707,570
1961	204,289	1,264	399,932	19,303	2,679	627,467
1962	173,597	1,181	643,740	75,083	2,676	896,277
1963	243,679	2,014	693,050	106,939	6,230	1,051,912
1964	329,461	1,004	730,766	124,566	2,576	1,188,373
1965	258,902	1,872	695,887	81,127	6,359	1,044,147
1966	282,083	679	528,621	63,623	5,203	880,209
1967	274,678	157	443,677	57,372	7,051	782,935
1968	304,455	574	779,500	126,271	2,791	1,213,591
1969	290,168	444	388,443	83,727	1,708	764,490
1970	304,602	477	267,647	70,072	3,235	646,033
1971	311,439	929	391,279	104,557	7,602	815,806
1972	242,282	1,060	791,941	166,771	11,634	1,213,688
1973	307,806	1,222	540,125	134,586	10,460	994,199
1974	322,101	2,603	845,109	263,083	13,818	1,446,714
1975	287,342	584	214,219	76,844	2,784	581,773
1976	231,239	1,241	525,270	194,370	4,251	956,371
1977	271,735	5,713	506,432	281,009	11,621	1,076,510
1978	375,433	2,804	1,100,902	617,633	26,193	2,122,965
1979	337,672	7,018	918,835	629,117	24,661	1,917,303
1980	303,643	2,921	697,181	267,213	12,168	1,283,126
1981	248,782	7,476	861,146	579,436	8,680	1,705,520
1982	241,938	2,459	1,315,871	503,306	5,639	2,069,213
1983	269,821	7,973	1,276,380	498,530	20,308	2,073,012
1984	235,622	9,658	1,133,366	573,004	28,060	1,979,710
1985	215,811	7,724	1,600,230	963,719	52,793	2,840,277
1986	237,703	6,884	2,128,003	181,900	51,398	2,605,888
1987	242,562	9,722	1,041,055	486,385	12,848	1,792,572
1988	231,364	9,341	500,227	519,390	88,264	1,348,586
1989	235,716	20,171	1,415,517	1,771,409	68,986	3,511,799
1990	287,939	9,176	1,832,604	771,674	62,817	2,964,210
1991	264,106	9,805	1,719,082	427,348	28,438	2,448,779
1992	183,759	22,854	1,929,945	673,851	85,030	2,895,439
1993	226,866	25,337	2,395,887	902,872	525,160	4,076,122
1994	186,331	21,777	3,467,599	942,783	330,375	4,948,865
1995	138,117	27,323	1,750,262	714,312	277,455	2,907,469
1996	141,452	11,024	1,906,769	812,899	406,260	3,278,404
1997	246,409	39,431	1,170,534	545,309	312,042	2,313,725
1998	192,066	6,474	1,636,711	261,104	117,642	2,213,997
1999	146,219	5,730	2,272,653	540,859	74,704	3,040,165

Table 6.–Page 2 of 2.

Year	Chinook	Sockeye	Coho	Pink	Chum	Total
2000	158,717	4,467	1,125,219	187,364	478,144	1,953,911
2001	153,280	8,992	1,845,627	258,943	467,837	2,734,679
2002	325,308	1,247	1,315,062	86,399	117,672	1,845,688
2003	330,692	4,596	1,223,458	159,643	286,410	2,004,799
2004	354,658	5,010	1,916,675	57,323	171,326	2,504,992
2005	338,451	13,277	2,038,296	109,640	174,599	2,674,263
2006	282,315	8,084	1,362,983	60,323	153,545	1,867,250
2007	268,146	6,440	1,378,062	104,440	191,685	1,948,773
2008	151,936	1,253	1,293,030	28,183	60,829	1,535,231
2009	175,644	2,929	1,591,547	75,843	342,998	2,188,961
2010	195,620	1,923	1,343,032	87,640	394,695	2,022,910
2011	242,569	5,190	1,314,210	496,234	702,914	2,761,117
2012	209,074	3,231	1,201,724	168,584	476,601	2,059,214
2013	149,541	5,020	2,393,790	684,690	1,054,204	4,287,245
2014	355,570	7,319	2,248,371	75,920	200,065	2,887,245
2015	269,862	6,977	1,241,100	259,411	424,546	2,201,896
2016	276,432	6,699	1,387,590	53,359	164,945	1,889,025
2017	129,649	5,454	2,151,782	54,473	403,998	2,745,356
2018	107,565	5,182	942,622	53,585	530,736	1,639,690
2019	109,364	6,264	973,903	70,433	269,601	1,429,565
2020	169,916	1,659	750,655	43,598	79,453	1,045,281
1960-1969 Average	264,372	1,013	569,983	76,357	3,973	915,697
1970–1979 Average	299,165	2,365	610,176	253,804	11,626	1,17,136
1980–1989 Average	246,296	8,433	1,196,898	634,429	34,914	2,120,970
1990–1999 Average	201,326	17,893	2,008,205	659,301	221,992	3,108,718
2000–2009 Average	253,915	5,630	1,508,996	112,810	244,505	2,125,855
2009–2019 Average	201,899	5,108	1,526,334	189,107	451,391	2,373,839

Note: Harvest data for all species includes terminal and Annette Island harvest. Data is by calendar year from 1960 to 1978, from January 1 to September 30 for 1979, and by troll season (October 1–September 30) for 1980 to 2020.

Table 7.–Southeast Alaska commercial troll salmon harvest in numbers of fish by species by statistical week for the 2020 troll season.

Year	Week	Week of	Chinook	Sockeye	Coho	Pink	Chum	Total
2019	41	6-Oct	46	_	_	_	_	46
	42	13-Oct	2,035	_	_	_	_	2,035
	43	20-Oct	1,685	_	_	_	_	1,685
	44	27-Oct	1,302	_	_	_	_	1,302
	45	3-Nov	1,162	_	_	_	_	1,162
	46	10-Nov	272	_	_	_	_	272
	47	17-Nov	324	_	_	_	_	324
	48	24-Nov	298	_	_	_	_	298
	49	1-Dec	324	_	_	_	_	324
	50	8-Dec	351	_	_	_	_	351
	51	15-Dec	325	_	_	_	_	325
	52	22-Dec	152	_	_	_	_	152
	53	29-Dec	94	_	_	_	_	94
2020	1	1-Jan	94	_	_	_	_	94
	2	5-Jan	295	_	_	_	_	295
	3	12-Jan	221	_	_	_	_	221
	4	19-Jan	608	_	_	_	_	608
	5	26-Jan	236	_	_	_	_	236
	6	2-Feb	549	_	_	_	_	549
	7	9-Feb	569	_	_	_	_	569
	8	16-Feb	578	_	_	_	_	578
	9	23-Feb	1,229	_	_	_	_	1,229
	10	1-Mar	716	_	_	_	_	716
	11	8-Mar	1,291	_	_	_	_	1,291
	12	15-Mar	1,054	_	_	_	_	1,054
	13	22-Mar	_	_	_	_	_	_
	14	29-Mar	_	_	_	_	_	_
	15	5-Apr	_	_	_	_	_	_
	16	12-Apr	_	_	_	_	_	_
	17	19-Apr	_	_	_	_	_	_
	18	26-Apr	416	_	_	_	_	416
	19	3-May	750	_	_	_	1	751
	20	10-May	774	_	_	_	_	774
	21	17-May	755	_	_	_	_	755
	22	24-May	1,154	_	_	_	1	1,155
	23	31-May	1,613	_	3	_	_	1,616
	24	7-Jun	1,916	_	_	_	8	1,924
	25	14-Jun	1,984	_	4	15	69	2,072
	26	21-Jun	2,560	4	40	24	45	2,673
	27	28-Jun	27,772	21	14,754	1,621	478	44,646
	28	5-Jul	43,943	91	45,363	3,370	1,442	94,209
	29	12-Jul	_	82	55,383	4,469	759	60,693
	30	19-Jul	_	166	79,843	5,599	536	86,144

Table 7.–Page 2 of 2.

Year	Week	Week of	Chinook	Sockeye	Coho	Pink	Chum	Total
2020	31	26-Jul	_	233	84,335	11,246	4,893	100,707
	32	2-Aug	_	82	78,119	10,911	14,111	103,223
	33	9-Aug	1,111	12	2,722	238	156	4,239
	34	16-Aug	29,845	382	88,476	3,241	10,085	132,029
	35	23-Aug	22,198	388	98,843	1,915	6,942	130,286
	36	30-Aug	7,041	83	73,153	78	1,049	81,404
	37	6-Sep	8,719	101	88,095	65	148	97,128
	38	13-Sep	_	9	28,670	3	57	28,739
	39	20-Sep	_	4	1,358	_	1	1,363
	Winter fi	ishery subtotal	15,810	_	_	_	_	15,810
	Spring fi	ishery subtotal	12,254	4	120	240	137	12,755
	Summer fishery subtotal		140,388	1,654	739,086	42,698	40,646	964,472
Hatche	Hatchery terminal area subtotal			1	11,449	660	38,670	52,244
	Grand total			1,659	750,655	43,598	79,453	1,045,281

Note: Weekly totals do not include hatchery terminal area and Annette Island troll harvests. Annette Island and confiscated harvests are included in Spring fishery subtotal. En dash indicates no data.

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Table 8.-Average troll coho salmon dressed weight by week and weighted annual average, 2003-2020.

							Av	erage we	eekly dre	essed we	ight, by y	/ear							Ave	rages
Week	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2015– 2019	2010– 2019
27	5.6	5.7	5.2	5.6	5.0	6.3	5.3	5.9	5.3	4.9	4.8	5.8	5.7	5.8	4.7	6.1	5.4	4.9	5.6	5.5
28	5.6	6.1	5.2	5.7	5.1	6.5	5.3	6.0	5.3	4.9	4.8	5.7	5.8	5.8	4.5	6.2	5.2	4.8	5.5	5.4
29	5.7	6.2	5.2	5.6	5.3	6.5	5.2	6.2	5.4	5.0	4.9	5.8	5.7	5.8	4.7	6.3	5.3	4.7	5.6	5.5
30	5.8	6.1	5.3	5.7	5.3	6.8	5.2	6.4	5.1	5.1	5.1	5.7	5.6	6.0	4.9	6.5	5.5	4.9	5.7	5.6
31	6.0	6.0	5.2	5.9	5.4	6.8	5.6	6.6	5.2	5.2	5.3	5.9	5.7	6.2	5.0	6.6	5.5	5.0	5.8	5.7
32	6.2	6.2	5.3	6.1	5.5	7.0	5.7	6.6	5.3	5.4	5.5	5.9	5.8	6.4	5.1	6.8	5.7	5.2	6.0	5.9
33	6.3	6.4	5.5	6.6	5.9	7.0	5.7	6.8	5.3	6.2	5.5	6.3	5.9	6.5	5.3	7.2	6.3	6.0	6.2	6.1
34	6.6	6.8	6.0	6.8	5.9	7.6	6.3	7.1	5.5	6.2	5.9	6.5	6.0	7.1	5.4	7.2	6.4	6.1	6.4	6.3
35	6.9	7.0	6.1	7.4	6.2	8.0	6.3	7.2	5.4	6.5	6.2	6.7	6.2	7.4	5.7	7.6	6.8	6.7	6.7	6.6
36	7.2	7.4	6.3	7.6	6.7	8.7	6.4	7.5	5.4	6.6	6.5	7.0	6.4	7.8	6.0	7.7	7.4	7.0	7.1	6.8
37	7.4	7.7	6.7	7.9	7.2	9.0	6.6	7.8	5.5	6.8	6.4	7.2	6.5	8.0	6.3	7.9	7.5	7.0	7.2	7.0
38	7.5	7.7	6.9	8.0	7.4	9.1	6.6	8.1	5.6	6.8	6.7	7.5	6.5	8.1	6.4	8.1	7.5	7.1	7.3	7.1
39	7.6	7.9	6.9	7.9	9.3	_	6.7	8.4	5.9	7.6	6.7	7.4	6.3	8.4	6.3	8.2	8.5	7.0	7.5	7.4
40	7.8	8.6	-	_	_	_	6.9	-	-	7.8	7.2	7.6	6.5	8.6	_	8.7	8.1	_	8.0	7.8
Weighted average	6.5	6.6	5.7	6.4	5.8	7.4	5.8	6.9	5.4	5.8	5.5	6.3	5.9	6.6	5.1	7.0	6.4	5.9	6.2	6.1
Troll harvest (millions)	1.2	1.9	2.0	1.4	1.4	1.3	1.6	1.3	1.3	1.2	2.4	2.2	1.2	1.4	2.2	0.9	1.0	0.7	1.3	1.5

Note: En dash indicates no data.

Table 9.-Southeast Alaska commercial hand troll salmon harvest in numbers of fish by species, 1975-2020.

Year ^a	Chinook ^b	Sockeyeb	Coho ^b	Pink ^b	Chum ^b	Total
1975	28,000	95	40,920	28,815	541	98,371
1976	26,324	507	88,859	44,406	2,061	162,157
1977	33,136	1,751	155,731	116,763	4,146	311,527
1978	54,377	1,155	378,927	243,469	9,573	687,501
1979	57,722	2,448	244,805	281,684	7,926	594,585
1980	52,415	1,257	179,912	111,666	4,652	349,902
1981	34,583	2,171	181,466	173,517	2,582	394,319
1982	37584	518	260,610	132,097	1,127	431,936
1983	38,625	1,530	235,692	136,646	2,777	415,270
1984	35,357	1,982	178,414	151,278	4,894	371,925
1985	33,985	1,696	260,737	251,652	9,748	557,818
1986	30912	809	339,393	40,098	6,697	417,909
1987	30,173	2,126	183,220	134,354	3,015	352,888
1988	33,889	1,894	92,341	147,609	14,534	290,267
1989	30,306	2,441	220,262	301,413	6,576	560,998
1990	40,158	1,245	273,546	154,800	6,489	476,238
1991	41,309	1,073	239,019	72,365	3,840	357,606
1992	26,154	1,905	249,506	95,481	6,027	379,073
1993	26,726	1,669	315,590	101,754	34,449	480,188
1994	14,897	1,878	436,323	56,958	32,062	542,118
1995	13,968	1,822	145,189	63,877	21,284	246,140
1996	12,569	694	197,939	31,747	53,485	296,434
1997	15,280	1,208	104,602	35,104	20,042	176,236
1998	9,305	271	119,576	11,782	2,051	142,985
1999	6,466	286	180,119	12,214	583	199,668
2000	8,697	126	67,499	5,386	6,427	88,135
2001	9,819	301	111,472	6,267	12,480	140,339
2002	11,481	34	77,961	2,753	579	92,808
2003	13,840	135	80,893	3,627	4,800	103,295
2004	18,871	148	108,629	2,403	861	130,912
2005	16,856	340	143,278	6,203	418	167,095
2006	16,366	242	74,414	3,429	437	94,888
2007	18,258	220	91,499	4,196	1,389	115,562
2008	15,416	155	83,430	1,593	863	101,457
2009	13,638	171	104,212	5,074	5,427	128,522
2010	13,030	63	88,975	5,681	9,861	117,610
2011	18,166	205	98,968	26,025	13,500	156,864
2012	13,176	226	82,068	11,037	8,193	114,700
2013	11,746	343	174,103	23,510	28,719	238,421
2014	18,412	215	120,291	5,285	2,997	147,200
2015	12,883	353	61,738	17,397	7,823	100,194
2016	10,229	291	53,702	6,775	2,240	73,237
2017	7,302	178	102,507	4,279	5,444	119,710
2018	3,952	107	37,646	2,405	5,702	49,812
2019	4,596	265	29,266	3,642	1,664	39,433
2020	4,778	54	22,803	2,285	352	30,272
1975–2019 Average	22,567	874	160,326	69,311	8,646	261,725
2010–2019 Average	11,349	225	84,926	10,604	8,614	115,718

^a Prior to 1975, hand and power troll harvests were not reported separately. Troll harvests prior to 1980 are reported by calendar year. From 1980 to present, harvests are by season, October 1–September 30. Harvest for 1979 January 1–September 30.

b Harvest for all species includes Annette Island Reserve and terminal fisheries.

Table 10.-Southeast Alaska commercial power troll salmon harvest in numbers of fish by species, 1975-2020.

1975 259,646 489 173,299 48,029 2,243 483,869 1976 203,777 734 436,411 149,064 2,190 793,646 1977 237,578 3,962 350,701 164,246 7,475 765,494 1979 277,274 4,570 674,030 347,433 16,735 13,19,574 1980 251,137 1,664 517,269 155,547 7,516 933,635 1981 214,923 5,305 676,80 405,919 6,098 1311,679 1982 205,286 1,941 1,055,261 371,209 4,512 1,638,818 1983 231,144 6,443 1,040,688 361,884 17,531 1,657,398 1984 202,768 7,676 954,952 421,726 23,166 1,607,731 1985 182,576 6,026 1,339,493 712,067 43,045 2,283,392 1987 213,342 7,596 857,835 352,031 9,831	Year ^a	Chinook ^b	Sockeyeb	Coho ^b	Pink ^b	Chum ^b	Total
1976 203,777 734 436,411 149,964 2,190 793,646 1977 237,578 3,962 350,701 164,246 7,475 765,494 1978 321,050 1,649 721,975 374,164 16,620 1,435,458 1979 277,274 4,570 674,030 347,433 16,735 1,319,574 1980 251,137 1,664 517,269 155,547 7,516 933,635 1981 214,923 5,305 679,680 405,919 6,098 1,311,679 1982 205,286 1,941 1,055,261 371,209 4,512 1,638,818 1983 231,144 6,443 1,040,688 361,884 17,531 1,657,398 1984 202,768 7,676 934,952 421,726 23,166 1,607,731 1985 182,576 6,026 1,394,993 712,067 43,045 2283,392 1986 208,048 6,075 1,788,610 141,802 44,701 2,189,591 1987 213,342 7,596 857,835 352,031 9,831 1,440,632 1988 197,197 7,446 407,886 371,781 73,728 1,058,921 1989 211,417 17,730 1,195,255 1,469,996 62,410 2,952,174 1990 248,976 7,931 1,559,058 616,874 56,328 2,488,081 1991 221,442 8,732 1,480,663 354,983 24,598 2,091,281 1994 171,434 19,899 3,031,276 885,825 298,313 4,400,941 1994 171,434 19,899 3,031,276 885,825 298,313 4,400,941 1996 129,857 10,330 1,708,830 781,152 352,775 2,982,486 1997 231,562 38,223 1,065,932 510,205 292,000 2,137,929 1998 183,052 6,033 1,708,830 781,152 352,775 2,982,486 1997 231,562 38,223 1,065,932 510,205 292,000 2,137,929 1999 140,157 5,444 2,092,534 588,645 74,121 2,840,376 2000 150,101 43,462 8,691 1,734,155 252,676 455,357 2,982,486 2007 249,890 6,220 1,286,563 100,244 190,296 1,833,213 1,201 1,237,101 33,646 117,093 1,753,094 2001 143,462 8,691 1,734,155 252,676 455,357 2,982,486 2007 249,890 6,220 1,286,563 100,244 190,296 1,833,213 2004 335,789 4,862 1,808,046 54,920 170,465 2,362,166 2006 265,949 6,400 1,254,161 81,959 344,334 1,905,279 2011 223,957 4,985 1,							
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		165,138	1,605	727,852	41,313	79,101	1,015,009
2010 2010 4 102 100	1975–2019 Average	211,219	7,980	1,325,700	355,032	211,850	2,088,566
2010–2019 Average 193,109 5,098 1,434,345 189,753 453,485 2,275,790	2010–2019 Average	193,109	5,098	1,434,345	189,753	453,485	2,275,790

Prior to 1975, hand and power troll harvests were not reported separately. Troll harvests prior to 1980 are reported by calendar year. From 1980–present, harvests are by season, October 1–September 30. Harvest for 1979 January 1–September 30.

b Harvest for all species includes Annette Island Reserve and terminal fisheries.

Table 11.-Southeast Alaska Chinook salmon harvests by gear and troll harvest by fishery, 2020.

Gear/fishery	Total harvest	Alaska hatchery harvest	Alaska hatchery add-on	Terminal exclusion harvest	Total terminal exclusion/Alaska hatchery add-on	Treaty harvest
Winter troll	15,810	1,167	689	0	689	15,121
Spring troll ^a	13,600	3,285	1,939	0	1,939	11,661
Summer troll						
First period	71,494	763	450	0	450	71,044
Second period	68,893	2,425	1,432	0	1,432	67,461
Summer total ^b	140,415	3,188	1,882	0	1,882	138,533
Total traditional troll	169,825	7,640	4,510	0	4,510	165,315
Annette Island troll	91	0	0	0	0	91
Total troll harvest	169,916	7,640	4,510	0	4,510	165,406
Purse seine	16,892	11,459	11,444	0	11,444	5,448
Drift gillnet	12,629	10,613	9,671	0	9,671	2,958
Setnet	251	0	0	0	0	251
Total net ^c	29,772	22,072	21,115	0	21,115	8,657
Sport ^c	35,100	6,300	4,539	0	4,539	30,561
All gear total	234,788	36,012	30,164	0	30,164	204,624

^a Spring troll harvest includes all HC 12 and wild terminal exclusion harvests for year.

b Total summer harvest includes confiscated harvest for year.

^c All net gear and sport totals include the general, Annette Island, and wild terminal exclusion harvests.

Table 12.—Southeast Alaska commercial and sport Chinook salmon harvests and Alaska hatchery contribution, in thousands of fish, 1965–2020.

Year	Trolla	Netb	Subtotal	Sport ^c	Total	Alaska hatchery contribution	Total less Alaska hatchery contribution
1965	309	28	337	13	350	_	_
1966	282	26	308	13	321	_	_
1967	275	26	301	13	314	_	_
1968	304	27	331	14	345	_	_
1969	290	24	314	14	328	_	_
1970	305	18	323	14	337	_	_
1971	311	23	334	15	349	_	_
1972	242	44	286	15	301	_	_
1973	308	36	344	16	360	_	_
1974	322	24	346	17	363	_	_
1975	287	13	300	17	317	_	_
1976	231	10	241	17	258	_	_
1977	272	13	285	17	302	_	_
1978	375	25	400	17	417	_	_
1979	338	28	366	17	383	_	_
1980	304	20	324	20	344	6	338
1981	249	19	268	21	289	2	287
1982	242	47	289	26	315	1	314
1983	270	20	289	22	312	3	309
1984	236	32	268	22	290	6	284
1985	216	34	250	25	275	13	262
1986	238	22	260	23	282	17	265
1987	243	16	258	24	282	24	259
1988	231	22	253	26	279	29	250
1989	236	24	260	31	291	29	262
1990	288	28	316	51	367	54	314
1991	264	35	299	60	359	70	289
1992	184	32	216	43	259	44	215
1993	227	28	255	49	304	40	264
1994	186	36	222	42	264	36	228
1995	138	48	186	50	236	69	167
1996	141	37	179	58	237	89	148
1997	246	25	271	72	340	63	280
1998	192	24	216	55	271	34	237
1999	146	33	179	72	251	59	192
2000	159	41	200	63	252	85	179
2001	153	40	193	72	266	87	179
2001	325	32	357	70	427	78	349
2002	331	39	370	69	439	68	372
2003	355	64	419	81	439	91	408
2004	338	68	419	87	499	74	420
2003	282	67	350	86	436	57	379

Table 12.—Page 2 of 2.

Year	Trolla	Net ^b	Subtotal	Sport ^c	Total	Alaska hatchery contribution	Total less Alaska hatchery contribution
2007	268	54	322	83	405	77	328
2008	152	43	195	49	244	75	169
2009	176	48	224	70	294	71	222
2010	196	31	226	59	285	62	223
2011	242	48	290	67	357	74	283
2012	209	39	249	46	295	61	234
2013	150	51	201	56	257	73	184
2014	356	50	406	80	485	59	427
2015	270	54	324	80	403	75	328
2016	276	42	319	71	389	42	348
2017	130	25	155	54	209	30	179
2018	108	31	138	26	165	37	128
2019	109	36	145	30	175	35	140
2020	170	29	199	35	234	30	205

Note: Years 1985–2001 were updated in 2001, based on add-on tables for BOF reports. All subsequent years also based on add-on tables. En dash indicates no data.

^a Troll harvests prior to 1980 are reported by calendar year. From 1980–present, harvests are by season, Oct 1–Sep 30.

^b Purse seine harvests from 1986–present do not include Chinook less than 5 pounds reported on fish tickets.

Estimates of sport catches for 1965–1976 based on 1977–1980 average catch per capita data. Sport catches for 1977–2019 based on statewide postal harvest surveys. Sport harvest for 2020 based on preliminary creel survey data, pending completion of statewide postal harvest surveys.

Table 13.—Southeast Alaska winter troll fishery Chinook salmon harvest, permits fished, vessel landings, harvest per landing, and Alaska hatchery percent of harvest by troll accounting year (October 1–September 30), 1985–2020.

	Early	Winter (O	ctober–Dece	mber)	Late	e Winter (J	January-Ap	ril)	Tot	tal Winter	(October–A	pril)		Winter % of	Alaska
Year	Chinook	Permits	Landings	Harvest/	Chinook	Permits	Landings	Harvest/ landing	Chinook	Permits	Landings	Harvest/ landing	Annual total	annual total	hatchery % of harvest
1985	14,235	371	869	16	8,590	316	1,148	7	22,825	499	2,017	11	215,811	11	6
1986	16,779	353	1,049	16	6,147	257	832	7	22,926	492	1,881	12	237,703	10	6
1987	18,453	365	1,235	15	10,075	290	996	10	28,528	514	2,231	13	242,562	12	10
1988	44,765	605	2,404	19	15,684	411	1,785	9	60,449	728	4,189	14	231,364	26	14
1989	24,425	630	2,239	11	9,872	337	1,403	7	34,297	737	3,642	9	235,716	15	14
1990	17,617	314	868	20	15,513	319	1,477	11	33,130	523	2,345	14	287,939	12	13
1991	19,920	310	787	25	22,719	405	2,037	11	42,639	565	2,824	15	264,106	16	24
1992	28,277	403	1,653	17	43,554	440	2,679	16	71,831	617	4,332	17	183,759	39	10
1993	20,275	310	1,194	17	42,447	418	2,366	18	62,722	493	3,560	18	226,866	28	6
1994	35,193	264	1,106	32	21,175	303	1,499	14	56,368	383	2,605	22	186,331	30	4
1995	10,382	186	627	17	7,486	223	871	9	17,868	298	1,498	12	138,117	13	12
996	6,008	144	427	14	3,393	159	447	8	9,401	230	874	11	141,452	7	18
.997	13,252	162	626	21	7,705	185	514	15	20,957	256	1,151	18	246,409	9	8
.998	9,810	152	534	18	23,008	247	1,372	17	32,818	306	2,001	16	192,066	17	7
999	13,989	150	579	24	16,988	253	1,435	12	30,977	286	2,026	15	146,219	21	7
000	17,494	172	783	22	18,561	262	1,508	12	36,055	311	2,291	16	158,717	23	9
2001	11,198	198	907	12	11,388	259	1,382	8	22,586	322	2,298	10	153,280	15	12
2002	17,152	168	754	23	12,237	248	1,351	9	29,389	300	2,116	14	325,308	9	7
2003	18,672	193	725	26	32,182	313	2,365	14	50,854	360	3,090	16	330,692	15	9
2004	12,686	267	982	13	40,200	378	2,595	15	52,886	439	3,577	15	354,658	15	12
2005	12,991	275	1,103	12	37,479	375	2,955	13	50,470	444	4,058	12	338,446	15	11
006	13,952	293	1,418	10	34,970	416	3,102	11	48,922	469	4,520	11	282,315	17	8
007	7,642	297	1,092	7	39,230	420	2,808	14	46,872	503	3,900	12	268,149	17	10
8008	5,169	247	950	5	16,655	409	2,347	7	21,824	467	3,297	7	151,926	14	13
009	5,511	197	770	7	19,378	379	1,983	10	24,889	380	2,753	9	175,644	14	11
010	8,715	221	1,061	8	33,821	416	2,677	13	42,536	459	3,738	11	195,492	22	13
011	12,867	257	1,339	10	37,959	393	2,437	16	50,826	464	3,776	13	242,123	21	7
.012	10,683	315	1,246	9	37,217	408	2,670	14	47,900	507	3,916	12	209,366	23	13
2013	8,188	248	1,070	8	18,424	376	2,255	8	26,612	442	3,325	8	148,584	18	15
014	14,271	271	1,320	11	42,267	388	2,603	16	56,538	464	3,923	14	355,570	16	6
015	24,138	278	1,346	18	26,535	320	2,172	12	50,673	407	3,518	14	269,862	19	5
016	29,363	360	1,910	15	22,928	309	2,050	11	52,291	429	3,960	13	276,432	19	5
017	6,573	244	994	7	37,316	380	2,643	14	43,889	435	3,637	12	129,596	34	7
018	7,398	258	1,032	7	4,569	200	782	6	11,967	329	1,814	7	107,565	11	6
019	5,907	188	760	8	6,459	187	922	7	12,366	263	1,682	7	109,364	11	13
.020	8,370	234	1,019	8	7,440	190	891	8	15,810	310	1,910	8	169,877	9	7
2015–2019 Avg	14,676	266	1,208	11	19,561	279	1,714	10	34,237	373	2,922	11	178,574	19	7
2010–2019 Avg	12,810	264	1,208	10	26,750	338	2,121	12	39,560	420	3,329	11	204,401	19	9

Note: Data include Annette Island troll harvest.

Table 14.—Spring troll and terminal harvest area fisheries number of Chinook salmon harvested and days and permits fished by statistical week, 2020.

Stat area	Fishery name	Stat week	Days	Permits	Chinook
101-45	Mountain Point	23	2	21	94
		24	2	18	64
		25	3	21	136
		26	6	25	204
		27	3	7	96
	Mountain Point Total		16	38	594
101-46	Rock Point	23	2	13	25
		24	3	8	110
		25	3	3	186
		26	5	12	261
		27	3	*	
	Rock Point Total		16	22	193
101-48	Carroll Inlet THA	23	6	*	*
		24	7	3	9
		25	7	*	*
		26	7	*	*
		27	3	*	*
	Carroll Inlet THA Total		30	5	13
101-95	Neets Bay THA	25	6	12	43
	·	26	7	*	*
		27	3	*	*
	Neets Bay THA Total		16	13	46
103-50	Bucareli Bay	18	2	21	194
	•	19	2	22	149
		20	2	23	161
		21	2	20	147
		22	2	15	107
		23	2	16	100
		24	2	12	80
		25	2	19	181
		26	3	28	291
	Bucareli Bay Total		19	42	1,410
103-60	Port Saint Nicholas	18	2	*	*
		19	2	11	139
		20	2	16	82
		21	2	15	71
		22	2	10	41
		23	2	6	31
		24	3	9	39
		25	2	10	126
		26	5	16	133
		27	1	*	*
	Port Saint Nicholas Total	2 /	23	32	693
107-35	Anita Bay THA	23	6	*	*
101 33	1 1111 11 11 11 11 11 11 11 11 11 11 11	24	7	*	*
		25	7	*	*
		26	7	*	*
		27	3	*	*
		<i>←</i> 1	J		

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Stat area	Fishery name	Stat week	Days	Permits	Chinook
112-22	Hidden Falls THA	23	6	*	*
		24	7	*	*
		25	7	*	*
		26	7	*	*
		27	3	*	*
	Hidden Falls THA Total		30	*	*
113-01	Western Channel	23	1	25	311
		24	1	49	438
		25	1	32	213
		26	1	41	460
	Western Channel Total		4	81	1,422
113-30	Redoubt Bay	18	2	3	16
		19	2	5	54
		20	2	4	27
		21	2	4	33
		22	2	6	55
		23	2	8	40
		24	2	17	129
		25	2	16	155
		26	2	18	122
	Redoubt Bay Total		18	43	631
113-31	Goddard	23	1	3	5
		24	1	5	71
		25	2	19	147
		26	2	10	82
	Goddard Area Total		6	27	305
113-32	West Crawfish Inlet	23	1	*	*
		24	1	*	*
		25	1	*	*
		26	1	*	*
	West Crawfish Inlet Total		4	*	*
113-33	Crawfish Inlet THA	23	6	*	*
		24	7	3	44
		25	7	8	103
		26	7	8	320
		27	3	*	*
	Crawfish Inlet THA Total		30	12	524
113-35	Silver Bay THA	23	6	5	50
	,	24	7	7	81
		25	7	13	134
		26	7	8	91
		27	3	*	*
	Silver Bay THA Total	<u> </u>	30	26	378

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Stat area	Fishery name	Stat week	Days	Permits	Chinook
113-41	Sitka Sound	18	2	14	78
		19	4	24	296
		20	5	20	156
		21	5	24	165
		22	5	37	757
		23	5	58	781
		24	5	65	921
		25	5	65	852
		26	7	75	885
		27	3	13	75
	Sitka Sound Total		46	137	4,966
113-62	Salisbury Sound	18	2	3	14
		19	2	4	40
		20	3	9	63
		21	3	17	101
		22	3	18	97
		23	3	19	179
		24	4	10	76
		25	4	9	144
		26	7	12	245
		27	3	5	33
	Salisbury Sound Total		34	44	992
183-10	Yakutat Bay	18	1	10	91
		19	1	11	72
		20	1	15	285
		21	1	18	238
		22	1	14	97
		23	1	6	17
		24	1	6	74
		25	1	7	26
		26	1	5	24
	Yakutat Bay Total		9	24	924
	Spring Fishery Total			254	12,136
	Terminal Area Total			55	1,031
	Spring Season Total			269	13,167

Note: * denotes confidential or no data. Totals given may or may not include individual weeks confidential data. Totals do not include Annette Island harvest or summer terminal harvest or effort.

Table 15.—Spring troll and terminal harvest area fisheries annual number of Chinook salmon harvested, effort, and Alaska hatchery contributions, 1986–2020.

	Non-			Number		Number		T 1	
	terminal	Alaska	Alaska	of non- terminal	Terminal	of terminal		Total Alaska	Total
	area spring	hatchery	hatchery	areas	area	areas	Total	hatchery	permits
Year	harvest	harvest	%	open	harvest ^a	open ^a	harvest	%	fished ^b
1986	776	220	31	3	0	0	776	28	70
1987	4,488	1,545	34	7	0	0	4,488	34	103
1988	8,505	2,840	34	9	100	2	8,605	34	382
1989	2,366	690	39	11	913	4	3,279	49	161
1990	7,052	4,323	60	9	16	2	7,068	61	258
1991	13,984	6,205	44	10	5,863	1	19,847	61	559
1992	11,229	5,335	50	11	4,118	2	15,347	62	454
1993	15,826	6,235	41	12	2,853	3	18,679	49	443
1994	11,269	4,949	44	12	100	4	11,369	44	283
1995	21,750	13,909	64	15	1,333	4	23,083	66	377
1996	30,963	15,532	51	16	16,416	5	47,379	67	461
1997	32,791	14,326	41	18	9,931	6	42,722	57	476
1998	19,195	5,138	26	21	1,313	4	20,508	31	361
1999	18,351	8,411	48	21	2,367	5	20,718	52	339
2000	20,990	10,799	53	26	7,966	7	28,956	65	392
2001	28,250	15,349	54	24	7,081	5	35,331	63	435
2002	37,610	18,131	48	30	6,040	4	43,650	55	433
2003	35,452	12,331	35	26	3,840	5	39,292	41	382
2004	55,186	20,313	37	31	1,610	5	56,796	39	445
2005	58,421	18,182	31	32	2,280	5	60,701	34	498
2006	36,918	9,656	26	25	1,018	6	37,936	28	511
2007	48,476	18,320	38	23	1,310	5	49,786	39	539
2008	36,638	18,307	50	24	4,494	7	41,132	55	591
2009	32,581	12,284	38	27	278	7	32,859	38	557
2010	28,564	11,010	39	27	1,221	8	29,785	41	546
2011	38,936	15,586	40	28	2,144	8	41,080	43	592
2012	24,771	10,569	43	33	794	7	25,565	44	553
2013	37,308	14,419	39	32	979	8	38,287	40	590
2014	42,548	10,670	25	34	1,260	9	43,808	27	585
2015	53,720	17,870	33	34	779	8	54,499	34	609
2016	42,473	9,826	23	34	322	9	42,795	24	585
2017	17,386	2,981	17	31	863	8	18,249	21	436
2018	6,962	3,455	50	8	1,332	11	8,294	58	306
2019	10,369	4,147	40	10	1,943	11	12,312	49	296
2020	12,136	3,038	25	11	1,031	11	13,167	31	288

Note: Does not include Annette Island harvest or Hatchery Access fishery harvest, which occurred in 1989–1992. Total permits fished includes spring troll effort and terminal effort during spring and summer for vessels that landed Chinook.

^a Terminal harvest and areas open include troll harvest and openings from both spring and summer terminal fisheries.

^b Total permits fished includes spring troll effort and terminal effort during spring and summer for Chinook salmon harvest only.

Table 16.-Summer troll fishery Chinook salmon harvests and harvest rates, 1985-2020.

			Chinook			Abundance	AK hatchery	AK hatchery
Year	Fishing period	Days	harvesta	Harvest/day	Permits ^b	index ^c	harvest	percent
1985	June 3–12	10	65,377	6,538	1,119	_	3,644	6%
	July 1–22	22	114,372	5,199	1,334	_	2,733	2%
	August 25–26	2	13,229	8,268	859	_	407	3%
		34	192,978	5,743	_	1.68	6,784	4%
1986	June 20–July 15	26	154,623	5,947	1,321	_	5,789	4%
	August 21–26	6	31,878	5,313	1,124	_	1,346	4%
	September 1–9	9	27,496	3,055	936	_	1,203	4%
		41	213,997	5,219	_	1.37	8,338	4%
1987	June 20-July 12	23	209,513	9,109	1,331	1.60	11,712	6%
1988	July 1–12	12	162,047	13,504	1,343	1.93	8,141	5%
1989	July 1–13	13	167,492	12,884	1,234	1.79	5,831	3%
1990	July 1–22	22	200,090	9,095	1,311	_	13,037	7%
1770	August 23–24	2	11,858	5,929	834	_	1,250	11%
	riagust 25 2 i	24	211,948	8,831	-	1.78	14,287	7%
1991	July 1–8	8	154,020	20,536	1,304	1.66	6,605	4%
1992	July 1–4	4	65,627	18,751	1,105	_	2,268	3%
1772	August 23	1	6,941	6,941	717	_	189	3%
		5	72,568	16,126		1.63	2,457	3%
1993	July 1–6	6	101,164	16,861	1,148	_	3,189	3%
	August 21–25	5	24,865	4,973	732	_	446	2%
	September 12–20	9	19,131	2,126	547	_	1,300	7%
		20	145,160	7,258	-	1.92	4,935	3%
1994	July 1–7	7	98,338	14,048	1,011	_	4,252	4%
	August 29-September 2	5	20,224	4,045	708	_	1,100	5%
		12	118,562	9,880	_	1.67	5,352	5%
1995	July 1–10	10	75,889	7,589	1,001	_	8,139	11%
	July 30-August 5	7	21,277	3,040	805	_	1,581	7%
		17	97,166	5,716	_	0.91	9,720	10%
1996	July 1–10	10	76,392	7,639	825	_	4,639	6%
	August 19–20	2	8,275	4,138	418	_	203	2%
		12	84,667	7,056	-	0.90	4,842	6%
1997	July 1–7	7	122,490	17,499	847	_	3,532	3%
	August 18–24	7	37,525	5,361	719	_	657	1%
	August 30-September 5	7	22,702	3,243	504	-	118	1%
		21	182,717	8,701	_	1.37	4,307	2%

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			Chinook			Abundance	AK hatchery	AK hatchery
Year	Fishing period	Days	harvesta	Harvest/day	Permits ^b	index ^c	harvest	percent
1998	July 1–11	11	102,765	9,342	808	_	2,699	3%
	August 20–September 30	42	35,975	857	667		1,090	3%
		53	138,740	2,618	-	1.27	3,789	3%
1999	July 1–6	6	78,126	13,021	696	_	3,007	4%
	August 18–22	5	16,397	3,279	554		698	4%
		11	94,523	8,593	_	1.12	3,705	4%
2000	July 1–5	5	50,768	10,154	714	_	2,608	5%
	August 11–12	2	12,423	6,212	475	_	853	7%
	August 23–30	8	24,862	3,108	537	_	2,594	10%
	September 12–20	9	5,712	635	207	_	792	14%
		24	93,765	3,907	_	1.10	6,847	7%
2001	July 1–6	6	64,854	10,809	712	_	3,700	6%
	August 18–September 5	19	30,509	1,606	610	_	1,327	4%
		25	95,363	3,815	_	1.29	5,027	5%
2002	July 1–18	18	187,003	10,389	677	_	4,866	3%
2002	August 12–September 2	22	65,326	2,969	517	_	1,563	2%
	ragust 12 September 2	40	252,329	6,308	-	1.82	6,429	3%
2003	July 1–August 8	39	240,573	6,169	664	2.17	7,677	3%
2004	L.L. 1 15	1.5	102 002	12.022	710		9 (70	40/
2004	July 1–15 August 12–15	15 4	193,992 50,933	12,933 12,733	710 598	_	8,670 1,258	4% 2%
	August 12–13	19	244,925	12,733		2.06	9,928	4%
		1)	244,723	12,071		2.00	7,720	470
2005	July 1-17	17	151,128	8,890	782	_	7,078	5%
	August 14–20	6.5	70,422	10,834	657	_	2,735	4%
	September 15–20	6	5,303	884	289	_	507	10%
		29.5	226,853	7,690	=	1.90	10,320	5%
2006	July 1–12	12	129,810	10,818	791	_	3,331	3%
	August 13–22	10	65,590	6,559	723	_	2,865	4%
		22	195,400	8,882	_	1.73	6,196	3%
2007	July 1-20	20	140,549	7,027	831	_	5,392	4%
	August 16–21	6	30,778	5,130	691	-	888	3%
		26	171,327	6,590	_	1.34	6,280	4%
2008	July 1–5	5	59,913	11,983	763	_	3,451	6%
	August 16–21	6	28,983	4,831	715		416	1%
		11	88,896	8,081	_	1.01	3,867	4%
2009	July 1-10	10	84,575	8,458	854	_	3,375	4%
	August 17–25	9	33,012	3,668	678	=	1,848	6%
		19	117,587	6,189	_	1.20	5,223	4%

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Year	Fishing period	Days	Chinook harvest ^a	Harvest/day	Permits ^b	Abundance index ^c	AK hatchery harvest	AK hatchery percent
2010	July 1–8	8	74,575	9,322	782	–	2,914	4%
2010	August 15–19	5	48,455	9,691	681	_	1,443	3%
	riagust 15 17	13	123,030	9,464	-	1.31	4,357	4%
2011	July 1–12	12	120,916	10,076	795	-	3,333	3%
	August 15–17	3	29,736	9,912	605	_	923	3%
		15	150,652	10,043	=	1.62	4,256	3%
2012	July 1–9	9	61,624	6,847	790	_	1,950	3%
	August 11-September 8	29	73,970	2,551	783	=	3,672	5%
		38	135,594	3,568	_	1.24	5,622	4%
2013	July 1–6	6	84,653	14,109	714	1.63	3,573	4%
2014	July 1–7	7	199,431	28,490	811	_	3,460	2%
	August 14–18	5	55,653	11,131	654	_	2,227	4%
		12	255,084	21,257	_	2.20	5,687	2%
2015	July 1–8	8	164,640	20,580	768	1.95	4,310	3%
2016	July 1–5	5	106,630	21,326	741	-	1,197	1%
	August 13-September 3	22	74,240	3,375	659	_	954	1%
	September 4–30 MSF ^d	27	459	17	150	_	10	
		27	181,329	6,716	=	2.06	2,161	1%
2017	July 1–4	4	64,325	16,081	700	_	1,808	3%
	July 5–21 MSF ^d	17	2,680	158	365	_	135	5%
		4	67,005	16,751	=	1.31	1,950	3%
2018	July 1–14	14	58,992	4,214	616	=	3,319	6%
	August 15–19	5	27,742	5,548	565		1,007	4%
		19	86,734	4,565	-	0.92	4,326	5%
2019	July 1–5	5	58,558	11,712	592	-	1,049	2%
	August 13–14	2	24,669	12,335	531	_	478	2%
	September 1–10 LHF e	10	675	68	371	-	0	0%
		17	83,902	11,853	=	1.04	1,527	2%
2020	July 1–6	6	71,494	11,916	603	_	763	1%
	August 15–September 8	25	68,893	2,756	571	=	2,425	4%
	doch indicates no data		140,387	4,529	=	1.39	3,188	2%

Note: En dash indicates no data.

^a Does not include experimental, terminal, hatchery access fisheries, Annette Island, and confiscated harvest.

^b The number of permits fished is for vessels that landed Chinook.

^c The abundance index (AI) given for 1984–2019 is the first post season AI and for 2020 is the preseason winter troll CPUE metric translated to the equivalent AI value.

^d In 2016 and 2017, a mark-selective fishery (MSF) to target adipose-clipped surplus hatchery origin Chinook salmon was opened.

^e In 2019 a Limited Harvest Fishery (LHF) was implemented, allocating 2 Chinook per permit during 10-day fishery.

Table 17.—Coho salmon mid-season closure dates and extensions, 1980–2020.

Year	Closure Dates	Days Closed	Extension	Area Extensions and Restrictions
1980	July 15-24	10	None	_
1981	August 10-19	10	None	_
1982	July 29-August 7	10	None	_
1983	August 5–14	10	None	_
1984	August 15-24	10	None	_
1985	August 15-24	10	None	_
1986	August 11-20	10	None	_
1987	August 3–12	10	None	_
1988	August 15-24	10	None	_
1989	August 14-23	10	None	_
1990	August 13–22	10	None	_
1991	August 16-24	10	None	_
1992	August 13-22	10	None	_
1993	August 13-20	8	None	_
1994	August 27–28	2	9/21-9/30	Districts 1–16 open with area restrictions
1995	August 13-22	10	9/21-9/30	Districts 1–16 open with area restrictions
1996	August 14–18	5	None	-
1997	August 8–17	10	None	_
1998	August 12-19	8	9/21-9/30	Districts 1–13 open with area restrictions
1999	August 13–17	5	9/21-9/30	Districts 1–16 open with area restrictions
2000	August 13-22	10	None	_
2001	August 13–17	5	9/21-9/30	Districts 1–16 and 183 open (all state waters)*
2002	August 10-11	2	9/21-9/30	Entire region open except portion of Sitka Sound*
2003	No closure	0	9/21-9/30	Entire region open*
2004	August 10-11	2	9/21-9/30	Entire region open*
2005	August 10-13	4	None	_
2006	August 9–12	4	_	_
	August 23–27	5	9/21-9/30	Districts 10-15, 181, 183 and 191 open with area restrictions
2007	August 11–15	5	None	-
2008	August 11–15	5	None	_
2009	August 12–16	5	9/21–9/30	Districts 1–11, 181, 183, 189, 191 open; Districts 12, 13, 154 open with area restrictions
2010	August 11–14	4	None	_
2011	August 10–14	5	None	=
2012	August 7–10	4	9/21–9/30	Districts 1–11, 13, 16, 181, 183, 189, 191 open; Districts 12 and 14 open with area restrictions.
2013	No closure	0	9/21-9/30	Entire region open*
2014	August 10–13	4	9/21-9/30	Entire region open*
2015	No closure	0	9/21–9/30	Districts 3–11, 13, 16, 181, 183, 189, 191 open; Districts 1, 2, 12 and 14 open with area restrictions.
2016	August 9–12	4	9/21-9/30	Entire region open*
2017	No closure	0	9/21–9/30	Districts 103, 104, 181, 183, 189, 191, 152 open; Districts 113 and 154 open with area restrictions
2018	August 10–14	5	9/21–9/30	Entire region open except in Districts 1 and 2: waters south of latitude of Foggy Point are closed
2019	August 5–12	8	9/21-9/30	Entire region open*
2020	August 7–14	8	None	

Note: * = During these years, areas of high Chinook salmon abundance remained closed and Yakutat area closures were in effect during coho salmon extension periods. En dash indicates no data.

Table 18.—Weekly troll chum salmon harvest and effort in Icy Straits/Homeshore, Neets Bay/West Behm Canal, Sitka Sound, Crawfish Inlet, and the regionwide totals, 2014–2020.

	201	4	20	15	2016		20	17	201	18	20	19	202	.0
Week	Harvest	Permits												
23	-	_		_	*	*		_		=		_	=	_
24	99	5	4,376	22	239	5	18	4	404	11	*	*	_	_
25	2,290	30	5,556	35	1,841	14	452	10	1,178	20	5,240	20	44	3
26	15,405	36	6,507	28	2,252	17	367	4	2,824	18	5,333	27	*	*
27	2,196	19	4,152	15	1,708	11	*	*	970	17	184	5	_	_
28	*	*	*	*	464	7	_	_	141	4	884	8	_	_
29	_	_	_	_	83	3	_	_	103	7	379	5	_	_
Total	19,990	51	20,970	61	6,591	38	970	15	5,620	44	12,031	38	57	3

Neets Bay THA/West Behm Canal

	201	.4	20	15	201	.6	20	17	201	18	201	9	202	.0
Week	Harvest	Permits												
26	_		*	*	3,251	6	7,960	19	255	8	_			
27	1,680	11	3,549	11	7,820	16	65,511	52	9,562	65	194	7	*	*
28	12,141	43	38,888	46	22,380	38	85,600	82	30,564	87	3,013	36	666	3
29	47,889	85	37,513	96	36,747	60	47,724	81	33,234	98	1,785	28	*	*
30	32,729	68	34,284	73	30,964	52	699	7	36,213	73	714	10	_	_
31	15,748	47	5,686	34	4,686	18	9,944	18	12,056	50	188	4	_	_
32	9,438	18	3,222	15	2,797	5	8,535	22	377	11	_	-	-	-
33	1,306	10	2,295	12	628	5	337	8	175	7	_	_	-	_
34	1,024	5	6,552	19	-	_	465	6	172	7	_	_	_	_
35	1,331	7	9,168	31	381	4	2,614	21	139	6	*	*	_	_
36	6,666	13	9,908	27	2,892	9	2,950	19	732	11	_	_	_	_
37	13,494	26	4,026	31	2,713	12	3,447	13	653	12	_	_	_	_
38	4,866	18	1,114	16	3,751	11	*	*	33	10	-	_	_	
Total	148,330	98	156,212	114	119,010	72	235,786	95	124,183	120	5,929	45	1,004	5

Table 18.—Page 2 of 3.

Sitka S	Sound/Deep	Inlet THA												
	20	14	20	15	201	.6	20	17	20	18	201	19	202	20
Week	Harvest	Permits	Harvest	Permits	Harvest	Permits	Harvest	Permits	Harvest	Permits	Harvest	Permits	Harvest	Permits
25	_					=		=						=
26	_	_	_	_	_	_	_	_	_	_	_	_	_	_
27	_	_	_	_	_	_	_	_	_	_	_	_	_	_
28	_	_	_	_	*	*	_	_	_	_	_	_	_	_
29	_	_	1,443	8	*	*	_	=	_	_	*	*	*	*
30	_	_	_	_	*	*	778	5	_	_	175	5	*	*
31	522	4	874	8	*	*	30,497	55	324	5	443	11	1,974	6
32	9,485	34	42,235	55	1,004	7	83,547	100	31,719	83	18,947	80	384	6
33	198	8	106,052	123	385	7	28,402	78	42,027	88	8,671	32	230	3
34	180	3	51,361	109	*	*	7,326	44	24,786	65	3,403	29	977	8
35	871	5	13,074	42	12,703	22	4,334	25	20,191	60	572	7	2,510	10
36	*	*	2,157	23	4,572	16	147	3	2,203	25	*	*	_	*
Total	11,411	42	217,265	157	19,599	32	155,031	115	121,464	138	32,331	100	6,427	23

*** *	C C 1	/C C 1	T 1 / TOTTA
W/est	(rawfiel	1/(raw/fich	Inlet THA

	20	14	20	15	201	6	20	17	201	.8	201	9	202	20
Week	Harvest	Permits												
31	-	=	=	=		_		_	17,953	55	12,136	23	2,104	5
32	_	=	=	_	_	_	_	_	868	5	18,173	50	16,894	35
33	_	_	_	_	_	_	_	_	34,688	44	76,213	97	20,767	41
34	_	_	_	_	_	_	_	_	85,635	95	32,951	87	13,953	21
35	_	_	_	_	_	_	_	_	70,715	68	19,532	32	9,981	12
36	_	_	_	_	_	_	_	_	28,629	54	26,573	30	938	3
37	_	=	=	_	_	_	_	_	13,081	18	2,928	14	_	_
38	_	_	_	_	_	_	_	_	3,210	4	_	_	_	_
39	_	_	_	_	_	_	_	_	_	_	_	_	_	_
40	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	-	=	=	=	_	-	_	=	254,779	134	188,506	125	64,637	51

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Table 18.—Page 3 of 3.

Regio	n													
	201	4	20	15	201	6	20	17	201	.8	201	9	202	0
Week	Harvest	Permits												
23	*	*		_	13	8								
24	151	8	4,392	27	322	17	19	5	230	6	*	*	_	_
25	2,359	32	5,627	47	1,993	26	457	12	1,190	22	5,240	20	47	5
26	15,453	40	6,525	31	5,534	35	8,323	23	2,599	24	5,334	28	16	3
27	4,089	33	7,806	29	9,523	33	65,516	56	13,073	95	578	21	*	*
28	12,523	49	39,207	48	22,852	47	85,676	84	34,470	100	4,420	49	677	5
29	47,893	86	40,081	109	37,648	65	47,899	84	34,401	101	2,783	39	323	5
30	32,764	72	34,515	75	31,075	55	1,748	15	39,192	75	2,372	24	*	*
31	16,414	55	7,151	44	4,752	20	41,504	74	31,777	107	13,559	38	4,239	12
32	20,126	58	48,225	74	3,802	12	93,468	121	33,898	96	37,709	101	17,340	38
33	1,546	19	110,616	136	1,021	13	28,812	86	79,245	101	84,971	111	20,997	43
34	1,297	9	59,622	132	291	3	7,844	50	114,055	137	36,354	101	15,036	27
35	2,240	13	23,453	77	13,328	27	7,081	46	92,385	117	20,183	40	12,495	22
36	11,464	28	13,315	55	7,485	25	3,097	22	32,411	77	26,661	33	949	4
37	13,494	26	4,026	31	2,719	13	3,456	14	13,940	24	2,952	16	*	*
38	4,866	18	1,121	17	3,751	11	*	*	3,290	11	*	*	_	_
Total	186,710	183	405,682	284	146,109	156	394,900	191	526,171	267	243,142	208	72,598	75

Note: Numbers for harvest and permits fished are based on vessels that targeted chum salmon. En dashes (–) = no effort or harvest; * = confidential data.

Table 19.-Total Chinook salmon harvest and Alaska hatchery harvest by gear, 1985-2020.

	Purse	Seine	Drift	Gillnet	Set	Gillnet	Tr	oll	Sp	ort	All	Gear
-		AK		AK		AK		AK		AK		AK
Year	Total	Hatchery	Total	Hatchery	Total	Hatchery	Total	Hatchery	Total	Hatchery	Total	Hatchery
1985	21,593	150	10,679	976	1,232	0	215,811	8,071	24,858	3,365	274,539	12,563
1986	12,132	813	8,539	1,437	1,428	0	237,703	9,886	22,551	5,239	282,353	17,375
1987	4,503	162	8,957	1,846	2,072	4	242,562	16,195	24,324	5,336	282,418	23,544
1988	11,142	320	9,658	4,474	894	0	231,364	19,503	26,160	5,112	279,312	29,409
1989	13,171	2,298	9,948	4,106	798	0	235,716	16,366	31,071	5,859	291,032	28,685
1990	11,389	2,529	15,217	9,240	663	3	287,939	29,834	51,218	11,546	366,869	53,646
1991	13,793	2,618	19,254	11,849	1,747	40	264,106	37,498	60,492	18,022	359,462	70,055
1992	18,339	1,224	11,740	7,484	2,025	10	183,759	25,738	42,892	9,464	258,791	43,934
1993	8,364	1,751	18,280	11,378	1,311	0	226,866	18,226	49,246	8,321	304,103	39,677
1994	14,839	3,201	16,918	11,767	3,897	2	186,331	12,389	42,365	9,083	264,350	36,442
1995	25,117	17,319	13,464	7,504	9,374	0	138,117	27,174	49,667	16,524	235,739	68,520
1996	22,225	20,692	10,219	6,245	4,854	2,854	141,452	38,365	57,509	20,586	236,259	88,742
1997	10,338	6,223	11,467	6,759	3,264	1,262	246,409	28,795	71,524	20,275	343,002	63,314
1998	14,503	6,054	6,207	3,903	2,804	804	192,066	12,397	55,013	10,549	270,593	33,706
1999	17,900	11,933	9,712	5,255	5,108	3,108	146,219	16,935	72,081	22,169	251,020	59,401
2000	22,905	18,401	16,035	12,323	2,460	460	158,717	28,963	63,173	24,510	263,290	84,657
2001	20,439	14,991	17,091	11,968	2,633	631	153,280	28,480	72,291	30,862	265,734	86,933
2002	17,695	11,717	11,484	6,508	2,510	510	325,308	31,647	69,537	27,598	426,534	77,979
2003	24,134	6,911	11,398	8,080	3,842	1,566	330,692	27,614	69,370	23,547	439,436	67,718
2004	39,633	11,848	21,671	14,199	2,734	446	354,658	37,511	80,572	27,599	499,268	91,603
2005	19,867	7,233	47,620	5,469	688	0	338,451	35,678	86,575	25,178	493,202	73,558
2006	24,969	10,302	41,913	7,373	554	0	282,315	20,783	85,794	18,168	435,545	56,626
2007	27,267	11,068	25,152	12,742	1,269	0	268,146	30,409	82,849	22,822	404,683	77,041
2008	15,540	12,204	27,023	15,002	563	0	151,936	28,887	49,265	18,766	244,328	74,860
2009	29,012	16,241	19,015	9,865	411	0	175,644	20,455	69,565	24,988	293,647	71,549
2010	16,044	13,600	14,310	10,783	275	0	195,620	21,400	58,503	16,335	284,752	62,117
2011	26,404	17,700	21,294	15,799	532	0	242,569	25,207	66,575	14,325	357,374	73,032
2012	21,145	15,347	18,191	12,348	414	0	209,074	21,149	46,495	10,315	295,319	59,158
2013	23,104	17,059	27,316	22,613	900	0	149,541	17,934	56,392	15,387	257,252	72,993
2014	27,378	11,649	22,369	18,616	263	0	355,570	18,382	86,942	15,066	492,522	63,713
2015	30,274	18,582	22,982	17,925	462	0	269,862	22,110	79,759	16,822	403,339	75,439
2016	28,244	8,303	13,789	9,495	230	0	276,432	13,768	68,347	10,589	387,042	42,155
2017	10,958	8,074	13,772	10,911	367	0	129,649	8,646	52,306	10,782	207,052	38,412
2018	16,563	15,653	14,128	11,198	86	0	107,565	9,201	26,400	6,859	164,742	42,911
2019	21,367	12,506	14,419	12,774	246	0	109,364	8,841	29,700	6,600	175,096	40,721
2020	16,852	11,429	12,290	10,321	251	0	169,877	7,640	35,100	6,300	234,788	36,012

Note: Data include terminal area and Annette Island harvests.

Table 20.-Annual troll coho salmon harvest and estimated wild and hatchery contributions, 1960-2020.

	Total	Wild	Alaska	Other	Total	Percent (%)
Year	harvest	contribution	hatchery	hatchery	hatchery	hatchery
1960	396,211	396,211	_	_	_	_
1961	399,932	399,932	_	_	_	_
1962	643,740	643,740	_	_	_	_
1963	693,050	693,050	_	_	_	_
1964	730,766	730,766	_	_	_	_
1965	695,887	695,887	_	_	_	_
1966	528,621	528,621	_	_	_	_
1967	443,677	443,677	_	_	_	_
1968	779,500	779,500	_	_	_	_
1969	388,443	388,443	_	_	_	_
1970	267,647	267,647	_	_	_	_
1971	391,279	391,279	_	_	_	_
1972	791,941	791,941	_	_	_	_
1973	540,125	540,125	_	_	_	_
1974	845,109	845,109	_	_	_	_
1975	214,219	214,170	_	_	_	_
1976	525,270	524,762	_	_	_	_
1977	506,432	506,845	_	_	_	_
1978	1,100,902	1,100,902	_	_	_	_
1979	918,835	918,845	_	_	_	_
1980	697,181	694,019	2,881	281	3,162	<1
1981	861,146	845,007	15,920	218	16,139	2
1982	1,315,871	1,279,950	35,486	435	35,921	3
1983	1,276,380	1,223,558	51,882	940	52,822	4
1984	1,133,366	1,061,739	69,480	2,147	71,627	6
1985	1,600,230	1,493,476	106,575	179	106,754	7
1986	2,128,003	1,849,726	269,396	8,881	278,277	13
1987	1,041,055	949,680	87,882	3,493	91,375	9
1988	500,147	472,404	25,795	1,948	27,743	6
1989	1,415,512	1,293,847	116,906	4,759	121,665	9
1990	1,832,604	1,542,036	278,996	11,573	290,568	16
1991	1,719,060	1,334,370	368,824	15,866	384,690	22
1992	1,929,899	1,509,056	403,208	17,636	420,843	22
1993	2,395,711	1,999,697	382,645	13,369	396,014	17
1994	3,467,597	2,950,482	503,675	13,441	517,115	15
1995	1,750,221	1,416,322	325,838	8,061	333,899	19
1996	1,906,753	1,457,108	440,086	9,558	449,645	24
1997	1,170,460	927,411	240,545	2,504	243,049	21
1998	1,636,707	1,307,089	322,026	7,593	329,618	20
1999	2,271,769	1,757,702	500,582	13,485	514,067	23
2000	1,124,854	873,853	244,139	6,862	251,001	22

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	Total	Wild	Alaska	Other	Total	Percent (%)
Year	harvest	contribution	hatchery	hatchery	hatchery	hatchery
2001	1,843,997	1,472,486	367,856	3,655	371,511	20
2002	1,310,060	973,936	335,229	895	336,124	26
2003	1,220,782	934,291	283,723	2,767	286,491	23
2004	1,915,066	1,602,704	307,638	4,723	312,362	16
2005	2,036,104	1,701,804	329,687	4,613	334,300	16
2006	1,360,267	1,143,672	215,729	866	216,595	16
2007	1,376,753	1,071,758	304,144	851	304,995	22
2008	1,273,716	1,002,963	269,789	964	270,753	21
2009	1,590,259	1,342,777	246,040	1,442	247,482	16
2010	1,342,092	1,057,087	284,112	892	285,005	21
2011	1,302,926	959,039	343,330	557	343,887	26
2012	1,200,150	906,923	292,239	987	293,227	24
2013	2,376,100	1,643,066	731,971	1,063	733,034	31
2014	2,227,696	1,607,184	618,812	1,700	620,512	28
2015	1,241,090	872,564	368,270	256	368,526	30
2016	1,386,634	1,048,766	335,770	2,098	337,868	24
2017	2,148,015	1,759,542	387,578	895	388,473	18
2018	944,405	629,002	315,019	384	315,403	33
2019	966,468	673,761	292,214	493	292,707	30
2020	739,206	532,897	205,366	943	206,309	28
1990–1999 Avg	2,008,078	1,620,127	376,642	11,308	387,951	20
2000–2019 Avg	1,509,372	1,163,859	343,665	1,848	345,513	23

Note: Data include Annette Island troll harvests and excludes terminal area harvests. En dash indicates no data.

Table 21.-Southeast Alaska and Transboundary Rivers wild Chinook salmon escapement estimates, 1975–2020.

_			S	Southeast A	laska stock	S			Transb	oundary Rive	r stocks
Year	Situk River	Chilkat River	King Salmon River	Andrew Creek	Unuk River	Chickamin River ^a	Blossom River ^a	Keta River ^a	Alsek River	Taku River	Stikine River
1975	_	_	64	507	_	1,758	565	611	_	12,920	7,571
1976	1,421	_	99	404	_	746	263	253	5,282	24,582	5,723
1977	1,732	_	204	456	4,706	1,724	433	692	12,706	29,497	11,445
1978	808	_	87	388	5,344	1,463	553	1,180	12,034	17,124	6,835
1979	1,284	_	134	327	2,783	1,135	209	1,282	17,354	21,617	12,610
1980	905	_	106	282	4,909	2,114	344	578	10,718	39,239	30,573
1981	702	_	90	536	3,532	1,824	615	990	8,587	49,559	36,057
1982	434	_	229	672	6,528	2,712	1,335	2,270	9,584	23,848	40,488
1983	592	_	245	366	5,436	2,845	2,279	2,474	10,344	9,794	6,424
1984	1,726	_	265	389	8,876	5,235	1,966	1,836	7,213	20,778	13,995
1985	1,521	_	175	624	5,721	4,541	2,744	1,878	6,087	35,916	16,037
1986	2,067	_	255	1,381	10,273	8,289	4,946	2,077	11,069	38,111	14,889
1987	1,379	_	196	1,537	9,533	4,631	5,221	2,312	11,276	28,935	24,632
1988	868	_	208	1,100	8,437	3,734	1,486	1,731	8,852	44,524	37,554
1989	637	_	240	1,034	5,552	4,437	1,331	3,477	10,178	40,329	24,282
1990	628	_	179	1,295	2,856	2,679	995	1,824	8,775	52,142	22,619
1991	889	5,882	134	780	3,165	2,313	925	819	11,667	51,645	23,206
1992	1,595	5,277	99	1,517	4,223	1,644	581	653	5,773	55,889	34,129
1993	952	4,463	266	2,067	5,160	1,848	1,173	1,090	13,917	66,125	58,962
1994	1,271	6,792	213	1,115	3,435	1,843	623	921	15,970	48,368	33,094
1995	4,330	3,768	147	669	3,730	1,691	840	527	24,772	33,805	16,784
1996	1,800	4,902	292	653	5,639	1,587	851	894	15,922	79,019	28,949
1997	1,878	8,089	362	571	2,970	1,292	511	740	12,494	114,938	26,996
1998	924	3,656	134	950	4,132	1,857	364	542	6,833	31,039	25,968
1999	1,461	2,258	304	1,180	3,914	2,337	820	831	14,615	16,786	19,947
2000	1,785	2,029	138	1,346	5,872	3,805	894	903	7,905	34,997	27,531
2001	562	4,514	149	2,055	10,541	5,177	789	1,032	6,705	46,644	63,523
2002	1,000	4,034	155	1,708	6,988	5,007	867	1,237	5,569	55,044	50,875
2003	2,163	5,631	119	1,160	5,546	4,579	786	969	5,904	36,435	46,824
2004	756	3,406	135	2,991	3,963	4,268	1,289	1,132	7,083	75,032	48,900

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			So	outheast Ala	ska stocks				Transboundary River sto		
Year	Situk River	Chilkat River	King Salmon River	Andrew Creek	Unuk River	Chickamin River	Blossom River	Keta River	Alsek River	Taku River	Stikine River
2005	610	3,361	143	1,979	4,742	4,257	1,722	1,496	4,390	38,599	39,833
2006	747	3,003	150	2,124	5,645	6,318	1,312	2,248	2,321	42,191	24,405
2007	677	1,435	181	1,736	5,668	4,242	522	936	2,827	14,749	14,560
2008	413	2,881	120	981	3,104	5,277	995	1,093	1,885	26,645	18,352
2009	902	4,406	109	628	3,157	2,902	476	659	6,239	22,761	12,972
2010	197	1,797	158	1,205	3,835	5,491	1,405	1,430	9,526	28,769	15,148
2011	240	2,674	192	936	3,195	4,052	569	671	6,850	19,672	14,511
2012	322	1,723	155	587	956	2,109	793	725	3,027	16,713	22,332
2013	912	1,719	94	920	1,135	2,223	987	1,484	4,992	18,002	16,784
2014	475	1,529	68	1261	1,691	3,097	840	1,321	3,357	23,532	24,374
2015	174	2,452	50	796	2,623	2,760	642	915	5,697	23,567	21,597
2016	329	1,380	149	402	1,463	964	522	1,342	2,514	9,177	10,554
2017	1,187	1,173	85	349	1,203	722	341	903	1,762	8,214	7,335
2018	420	873	30	482	1,971	2,052	1,087	1,662	4,312	7,271	8,603
2019	623	2,028	27	698	3,115	1,610	557	1,041	6,356	11,558	13,817
2020	1,129	3,210	100	470	1,135	2,280	515	668	5,308	13,000	11,500
Lawan	500	1.750	120	650	1 200	2 100	500	550	2.500	10.000	14,000
Lower Upper	500 1,000	1,750 3,500	120 240	650 1,500	1,800 3,800	2,100 4,300	500 1,400	550 1,300	3,500 5,300	19,000 36,000	14,000 28,000

Note: Preliminary estimates, pending final report publication (for past 5 years). Spawning escapement goals are for large (≥660 mm mid eye to tail fork length, or fish age 1.3 and older) fish, except for the Alsek River which is germane to fish age 1.2 and older and can include fish <660 mm mid eye to tail fork length. En dash indicates no data.

Table 22.-Escapement goal performance for indicator coho salmon streams in Southeast Alaska (SEAK), 1993-2020.

				S	Southeast A	Alaska					Yakut	at	All-gear
Year	Auke Creek	Berners River	Ford Arm Lake	Hugh Smith Lake	Chilkat River	Montana Creek	Petersen Creek	Sitka index ^a	Ketchikan index ^b	Tawah Creek	Situk River	Tsiu/Tsivat River	commercial harvest (millions)
1993	Е	Е	Е	I	Е	Е	I	Е	I	I	Е	I	3.56
1994	E	E	E	E	E	E	E	E	E	E	E	E	5.52
1995	I	I	I	E	E	I	E	E	E	I	I	I	3.13
1996	E	I	I	I	I	I	E	E	E	I	I	I	2.99
1997	E	E	E	I	I	I	I	E	I	I	I	I	1.84
1998	E	I	E	I	I	I	I	E	I	NA	NA	NA	2.75
1999	E	E	E	E	E	I	E	I	I	NA	NA	NA	3.28
2000	E	E	I	I	E	I	I	E	E	NA	NA	I	1.69
2001	E	E	I	E	E	I	I	E	E	NA	NA	NA	2.95
2002	E	E	E	E	E	E	I	E	E	E	E	E	2.49
2003	E	E	E	E	E	I	I	E	E	E	I	NA	2.17
2004	I	E	E	I	E	U	E	E	E	I	E	NA	2.86
2005	I	I	E	E	I	U	I	E	E	U	U	I	2.77
2006	E	I	E	I	E	I	E	E	I	I	I	I	1.84
2007	I	U	I	E	U	U	I	E	I	I	I	I	1.91
2008	E	I	E	E	I	I	E	E	E	NA	NA	I	2.04
2009	I	I	I	E	I	I	I	E	I	E	I	I	2.38
2010	I	I	I	E	E	I	E	E	I	E	E	I	2.29
2011	E	I	I	E	I	I	I	E	I	U	I	I	2.08
2012	E	I	I	E	I	U	I	E	E	I	U	I	1.88
2013	E	I	I	E	I	U	I	E	E	I	E	E	3.60
2014	E	E	E	E	E	I	E	E	E	I	I	I	3.40
2015	E	E	E	I	I	E	I	E	E	NA	I	I	1.90
2016	I	I	NA	I	U	I	U	E	E	U	I	E	2.10
2017	I	I	NA	I	I	I	U	E	E	I	I	E	2.80
2018	U	U	NA	I	I	I	I	E	E	I	I	E	1.47
2019	I	E	NA	I	I	U	NA	E	I	I	E	NA	1.53
2020	U	U	NA	I	U	I	U	I	Е	NA	NA	Е	1.04

Note: E = exceeded goal, U = under goal, I = within goal, NA = no escapement estimates available.

The Sitka survey index is the sum of peak survey counts on 5 streams.
 The Ketchikan survey index is the sum of peak aerial survey counts on 14 streams.

Table 23.-Escapement estimates for four Southeast Alaska coho salmon indicator stocks, 1980-2020.

Year	Auke Creek	Berners River	Ford Arm Lake	Hugh Smith Lake
1980	698	N/A	N/A	N/A
1981	646	N/A	N/A	N/A
1982	447	7,505	2,655	2,144
1983	694	9,840	1,931	1,487
1984	651	2,825	N/A	1,407
1985	942	6,169	2,324	903
1986	454	1,752	1,552	1,782
1987	668	3,260	1,694	1,117
1988	756	2,724	3,119	513
1989	502	7,509	2,176	433
1990	697	11,050	2,192	870
1991	808	11,530	2,761	1,836
1992	1,020	15,300	3,866	1,426
1993	859	15,670	4,202	832
1994	1,437	15,920	3,227	1,753
1995	460	4,945	2,446	1,781
1996	515	6,050	2,500	950
1997	609	10,050	4,718	732
1998	862	6,802	7,049	983
1999	845	9,920	3,800	1,246
2000	683	10,650	2,304	600
2001	842	19,290	2,209	1,580
2002	1,112	27,700	7,109	3,291
2003	585	10,110	6,789	1,510
2004	416	14,450	3,539	840
2005	450	5,220	4,257	1,732
2006	582	5,470	4,737	891
2007	352	3,915	2,567	1,244
2008	600	6,870	5,173	1,741
2009	360	4,230	2,181	2,281
2010	417	7,520	1,610	2,878
2011	517	6,050	1,908	2,137
2012	837	5,480	2,282	1,908
2013	736	6,280	1,573	3,048
2014	1,533	15,480	3,025	4,110
2015	577	9,940	3,281	944
2016	204	6,733	N/A	979
2017	283	7,040	N/A	1,266
2017	146	3,550	N/A	619
2019	345	9,405	N/A N/A	1,239
	173		N/A N/A	
2020		3,296		634
1980–2019 Average	654	8,795	3,235	1,501
Escapement goal range:	200-500	3,600–8,100	1,300–2,900	500-1,600

Table 24.-Northern Inside area coho salmon escapements, 1981-2020.

	Auke Creek	Montana	Peterson	Total roadside	Berners	Chilkat	Taku
Year	(weir)	Creek	Creek	index	River	River	Rivera
1981	646	227	219	1,092	_ 	_	_
1982	447	545	320	1,312	7,505	_	_
1983	694	636	219	1,549	9,840	_	_
1984	651	581	189	1,421	2,825	_	_
1985	942	810	276	2,028	6,169	_	_
1986	454	60	363	877	1,752	_	_
1987	668	314	204	1,186	3,260	37,432	55,457
1988	756	164	542	1,462	2,724	29,495	39,450
1989	502	566	242	1,310	7,509	48,833	56,808
1990	697	1,711	324	2,732	11,050	79,807	72,196
1991	808	1,415	410	2,633	11,530	84,517	127,484
1992	1,020	2,512	403	3,935	15,300	77,588	83,729
1993	859	1,352	112	2,323	15,670	58,217	119,330
1994	1,437	1,829	318	3,584	15,920	194,425	96,343
1995	460	600	277	1,337	4,945	56,737	55,710
1996	511	798	263	1,572	6,050	37,331	44,635
1997	609	1,018	186	1,813	10,050	43,519	32,345
1998	862	1,160	102	2,124	6,802	50,758	61,382
1999	845	1,000	272	2,117	9,920	57,140	60,768
2000	683	961	202	1,846	10,650	84,843	64,700
2001	842	1,119	106	2,067	19,290	107,697	104,394
2002	1,112	2,448	195	3,755	27,700	204,925	219,360
2003	585	808	203	1,596	10,110	133,109	183,112
2004	416	364	284	1,064	14,450	67,053	129,327
2005	450	351	139	940	5,220	34,575	135,558
2006	582	1,110	439	2,131	5,470	79,050	122,384
2007	352	324	226	902	3,915	24,770	74,246
2008	600	405	660	1,665	6,870	56,369	95,226
2009	360	698	123	1,181	4,230	47,911	103,950
2010	417	630	467	1,514	7,520	84,909	126,830
2011	517	709	138	1,364	6,050	61,099	70,871
2012	837	394	190	1,421	5,480	36,961	70,775
2012	736	367	126	1,229	6,280	51,324	68,117
2013	1,533	911	284	2,728	15,480	130,200	124,171
2015	577	1,204	202	1,983	9,940	47,930	60,178
2016	204	746	52	1,002	6,733	26,280	87,704
2017	283	634	20	937	7,040	34,742	57,868
						66,085	
2018	146	1,160	110	1,416	3,550		51,173
2019	345	203	-	722	9,405	34,779	82,759
2020	173	495	65	733	3,296	29,349	52,126
1981–2019 Average	652	842	248	1,767	8,795	68,800	89,041
Goals:							
Point	340	_	_	_	_	50,000	_
Lower	200	400	100	_	3,600	30,000	50,000
Upper	500	1,200	250	_	8,100	70,000	90,000

Note: En dash indicates no data.

^a The listed Taku River lower bound is the inriver run threshold of 38,000 fish specified in the Pacific Salmon Treaty minus an allowance of 3,000 fish caught in inriver fisheries.

Table 25.-Sitka area coho salmon escapement index, 1982-2020.

Year	Starrigavan Creek	Sinitsin Creek	St. John's Creek	Nakwasina River	Eagle River	Total Index ^a	Ford Arm Lake (weir)
1982	317	46	116	580	486	1,545	2,655
1983	45	31	20	217	144	457	1,931
1984	385	160	154	715	649	2,063	4,765
1985	193	144	109	408	392	1,246	2,324
1986	57	72	53	275	245	702	1,552
1987	36	21	22	47	167	293	1,694
1988	45	56	71	104	127	403	3,119
1989	101	76	89	129	181	576	2,176
1990	39	80	38	195	214	566	2,192
1991	142	186	107	621	454	1,510	2,761
1992	241	265	110	654	629	1,899	3,866
1993	256	213	90	644	513	1,716	4,202
1994	304	313	227	404	717	1,965	3,227
1995	274	152	99	626	336	1,487	2,446
1996	59	150	201	553	488	1,451	2,500
1997	55	90	68	300	296	809	4,718
1998	123	109	57	653	300	1,242	7,049
1999	167	48	25	291	245	776	3,800
2000	144	62	30	459	108	803	2,304
2001	133	132	80	753	417	1,515	2,209
2002	227	169	100	713	659	1,868	7,109
2003	95	102	91	440	373	1,101	6,789
2004	143	112	79	399	391	1,124	3,539
2005	76	67	173	892	460	1,668	4,257
2006	386	152	121	996	992	2,647	4,737
2007	130	39	86	385	426	1,066	2,567
2008	96	73	43	839	66	1,117	5,173
2009	128	160	140	335	393	1,156	2,181
2010	70	171	85	307	640	1,273	1,610
2011	230	392	163	636	801	2,222	1,908
2012	59	133	144	296	525	1,157	2,282
2013	113	125	179	412	585	1,414	1,573
2014	274	255	156	600	876	2,161	3,025
2015	286	252	152	1,133	421	2,244	3,281
2016	328	199	398	1,098	920	2,943	N/A
2017	122	62	73	545	478	1,280	N/A
2018	88	174	134	569	537	1,502	N/A
2019	47	102	169	570	592	1,480	N/A
2020	46	10	50	225	299	630	N/A
1982–2019 Average	158	135	112	521	454	1,380	3,280

^a Total index is the sum of counts and interpolated values. Interpolated values are shown in bold italic print.

Table 26.-Southern inside (Ketchikan) area coho salmon escapement index, 1987-2020.

Year	Herman Creek	Grant Creek	Eulachon River	Klahini River	Indian River	Barrier Creek	King Creek	Choca Creek	Carroll River	Blossom River	Keta River	Marten River	Humpback Creek	Tombstone River	Total Survey Index	Hugh Smith L. (weir)
1987	92	75	154	65	355	70	279	113	180	700	800	740	650	532	5,921	1,117
1988	72	150	205	20	300	50	175	150	193	790	850	600	52	1,400	5,520	513
1989	75	101	290	15	925	450	510	200	70	1,000	650	1,175	350	950	7,194	433
1990	150	30	235	150	255	50	35	81	129	800	550	575	135	275	4,320	870
1991	245	50	285	50	550	100	300	220	375	725	800	575	671	775	7,557	1,836
1992	115	270	860	90	675	100	250	150	360	650	627	1,285	550	1,035	8,443	1,426
1993	90	175	460	50	475	325	110	300	310	850	725	1,525	600	1,275	8,102	832
1994	265	220	755	200	560	175	325	225	475	775	1,100	2,205	560	850	10,443	1,753
1995	250	94	435	165	600	220	415	180	400	800	1,155	1,385	82	2,446	10,408	1,781
1996	94	92	383	40	570	230	457	220	240	829	1,506	1,924	440	1,806	9,781	950
1997	75	<i>78</i>	420	60	372	73	292	175	140	1,143	571	759	32	847	5,770	732
1998	94	130	460	120	304	50	411	190	265	1,004	1,169	1,961	256	666	8,063	983
1999	75	127	657	150	356	25	627	225	425	598	1,895	1,518	520	840	9,284	1,246
2000	135	94	600	110	380	72	620	180	275	1,354	1,619	1,421	102	1,672	9,234	600
2001	80	110	929	151	1,140	165	891	450	173	1,561	1,662	1,956	506	1,587	12,941	1,580
2002	88	138	1,105	20	940	70	700	220	270	1,359	1,368	2,302	2,004	1,639	15,514	3,291
2003	242	185	875	39	690	57	1,140	380	444	1,940	1,934	1,980	214	1,745	13,374	1,510
2004	150	230	801	170	935	250	640	180	455	1,005	1,200	1,835	1,230	823	10,744	840
2005	510	300	1,240	360	890	190	810	270	500	3,680	3,290	1,130	500	1,170	16,572	1,732
2006	165	<i>107</i>	190	176	280	30	405	130	<i>257</i>	2,300	645	335	260	1,600	7,771	891
2007	134	75	270	35	245	15	290	210	163	990	970	351	3	609	5,604	1,244
2008	115	55	570	25	1,250	23	420	100	620	7,100	2,426	925	2,600	360	18,331	1,741
2009	149	330	330	340	750	110	1,050	100	1,100	1,518	315	1,675	700	225	10,973	2,281
2010	85	102	370	63	880	90	570	190	173	350	550	350	200	645	7,495	2,878
2011	88	80	350	7 0	175	75	110	85	192	1,235	749	350	850	716	7,260	2,137
2012	25	60	400	162	170	40	693	110	330	2,400	3,300	2,650	360	1,250	13,858	1,908
2013	193	176	698	153	834	164	655	265	215	2,140	1,560	2,370	530	1,340	14,342	3,048
2014	425	80	660	226	1,500	242	850	400	220	2,000	1,300	2,651	1,075	5,000	20,738	4,110
2015	20	200	550	136	1,200	146	550	200	450	2,310	1,470	1,555	210	1,035	10,988	956
2016	160	25	810	450	370	90	540	315	750	3,070	2,470	2,120	280	1,970	14,364	944
2017	40	167	540	280	850	20	100	240	285	3,100	2,450	1,675	830	980	12,823	1,266
2018	75	55	280	70	610	95	595	110	160	3,100	3,300	1,750	1,800	2,700	14,700	619
2019	240	60	220	116	420	20	800	700	60	2,200	570	1,410	600	500	7,916	1,239
2020	280	80	2,200	100	950	30	850	60	20	1,800	1,400	200	200	440	8,610	634
1987–2019					_											
Average	146	128	527	131	630	118	503	220	323	1,678	1,380	1,425	599	1,250	10,495	1,494

^a Total index is the sum of counts and interpolated values. Interpolated values are shown in bold italic print.

Table 27.—Coho salmon exploitation rate percentages by indicator stock for combined commercial and sport fisheries, 1982–2020.

Year	Auke Creek	Berners River	Hugh Smith Lake	Average	Ford Arm Lake
1982	40%	_	65%	_	43%
1983	44%	_	62%	_	69%
1984	41%	_	65%	_	_
1985	44%	_	63%	_	52%
1986	53%	_	59%	_	62%
1987	43%	_	50%	_	48%
1988	37%	_	65%	_	48%
1989	55%	57%	82%	64%	65%
1990	53%	63%	82%	66%	58%
1991	31%	62%	68%	54%	54%
1992	46%	62%	71%	59%	59%
1993	46%	64%	80%	63%	67%
1994	53%	74%	81%	70%	72%
1995	44%	80%	73%	66%	64%
1996	55%	70%	76%	67%	57%
1997	20%	30%	73%	41%	52%
1998	39%	66%	78%	61%	56%
1999	41%	65%	70%	59%	63%
2000	30%	45%	55%	43%	71%
2001	38%	35%	49%	41%	74%
2002	27%	39%	39%	35%	53%
2003	35%	60%	59%	51%	49%
2004	44%	51%	66%	54%	71%
2005	38%	54%	53%	48%	58%
2006	34%	60%	54%	49%	52%
2007	34%	50%	62%	49%	70%
2008	39%	47%	54%	46%	53%
2009	39%	49%	48%	45%	69%
2010	46%	61%	47%	51%	64%
2011	35%	44%	46%	42%	82%
2012	22%	31%	54%	36%	63%
2013	42%	65%	56%	54%	78%
2014	20%	37%	47%	35%	72%
2015	25%	32%	51%	36%	52%
2016	25%	28%	62%	38%	_
2017	41%	45%	48%	45%	_
2018	56%	49%	53%	53%	_
2019	29%	22%	52%	34%	_
2020	20%	24%	42%	29%	_
1989–2019 Average	38%	51%	61%	50%	63%

Note: En dash indicates no data.

Table 28.—Coho salmon exploitation rate percentages by indicator stock for the Southeast Alaska troll fishery, 1982–2020.

Year	Auke Creek	Berners River	Ford Arm Lake	Hugh Smith Lake	Total Index
1982	20%	_	41%	-	34%
1983	31%	_	54%	_	37%
1984	34%	_	_	_	_
1985	35%	_	52%	_	39%
1986	43%	_	61%	_	44%
1987	37%	_	45%	_	36%
1988	25%	_	47%	_	31%
1989	48%	49%	62%	51%	52%
1990	43%	41%	57%	38%	43%
1991	17%	17%	53%	36%	32%
1992	32%	31%	56%	38%	39%
1993	38%	36%	62%	53%	48%
1994	35%	35%	60%	46%	44%
1995	32%	29%	53%	30%	35%
1996	39%	42%	53%	40%	43%
1997	12%	14%	48%	49%	34%
1998	31%	42%	49%	41%	41%
1999	34%	36%	58%	42%	42%
2000	24%	20%	57%	36%	35%
2001	31%	24%	67%	22%	33%
2002	18%	15%	38%	16%	21%
2003	23%	22%	31%	24%	25%
2004	27%	29%	64%	41%	40%
2005	33%	33%	51%	32%	36%
2006	22%	24%	39%	36%	32%
2007	25%	30%	65%	38%	39%
2008	30%	24%	41%	19%	27%
2009	30%	27%	65%	24%	34%
2010	25%	27%	48%	22%	29%
2011	17%	28%	24%	20%	22%
2012	20%	21%	46%	20%	25%
2013	32%	33%	48%	25%	33%
2014	14%	14%	46%	24%	24%
2015	20%	20%	45%	24%	27%
2016	7%	8%	_	31%	_
2017	34%	28%	_	28%	_
2018	20%	13%	_	17%	_
2019	6%	7%	_	24%	_
2020	0%	5%	_	24%	_
1982–2019 Average	27%	26%	51%	32%	34%

Note: En dash indicates no data.

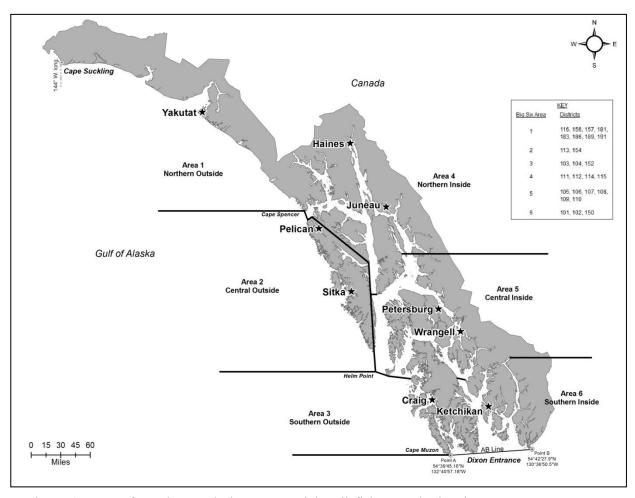


Figure 1.—Map of Southeast Alaska commercial troll fishery and Big Six management areas, Cape Suckling to Dixon Entrance.

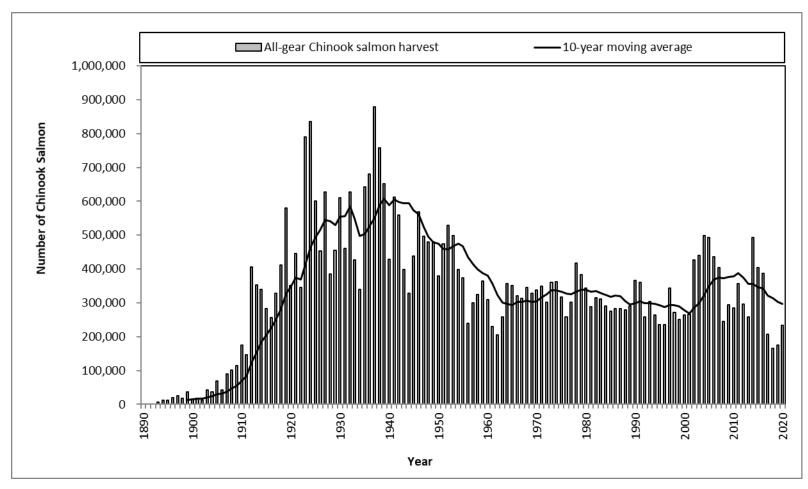


Figure 2.-All-gear harvests of Chinook salmon in common property fisheries, 1891-2020.

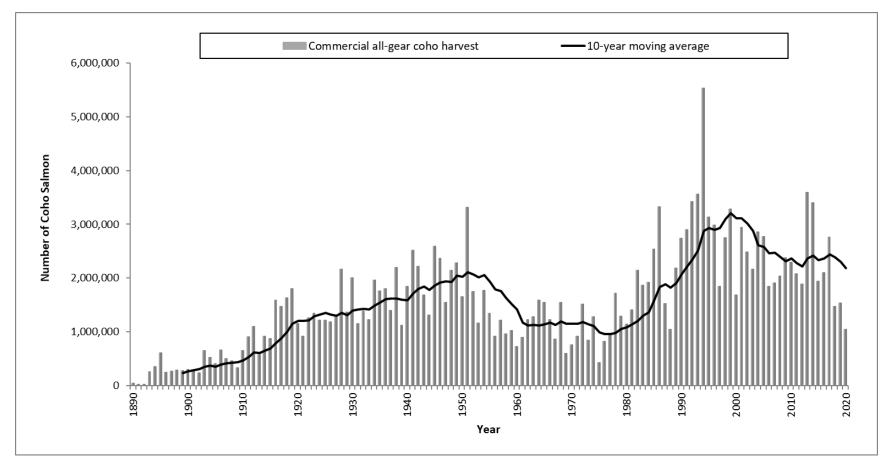


Figure 3.-Commercial all-gear harvests of coho salmon in common property fisheries, 1890-2020.

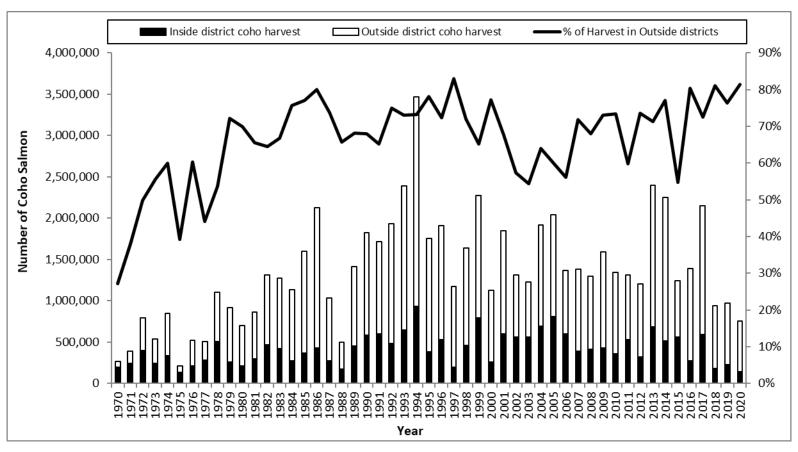


Figure 4.—Southeast Alaska troll coho salmon harvest in outside (Gulf of Alaska) districts, inside districts and percentage of harvest taken in outside districts, 1970–2020.

Note: Outside districts are 103, 104, 113, 116, 152, 154, 156, 157, 181, 183, 189, 191; inside districts are 101, 102, 105, 106, 107, 108, 109, 110, 111, 112, 114, and 115.

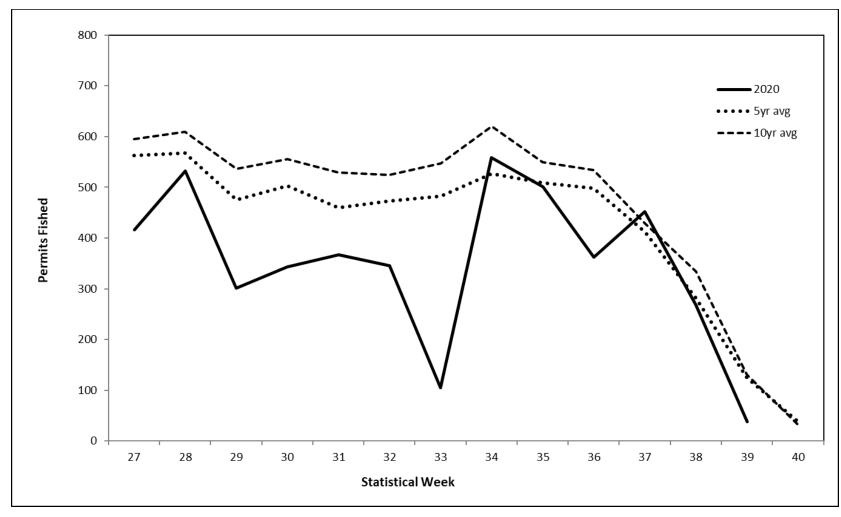


Figure 5.-Number of troll permits fished by week during summer troll fishery, 2020 vs. 5-year and 10-year averages.

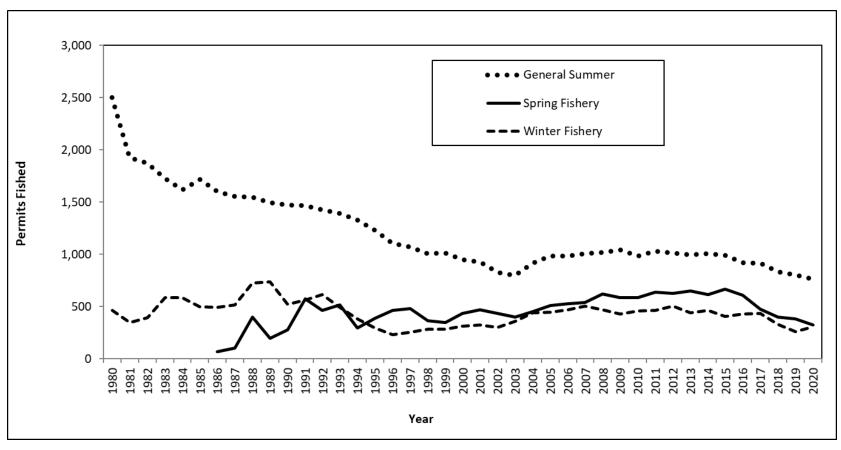


Figure 6.-Number of troll permits fished in the general summer, winter, and spring fisheries, 1980-2020.

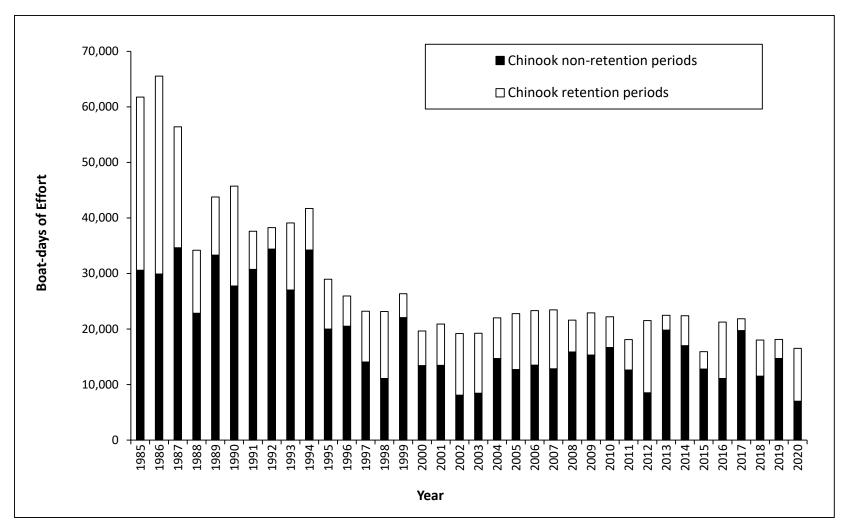


Figure 7.—General summer troll fishery boat-days of effort during Chinook salmon retention and non-retention fishing periods, 1985–2020.

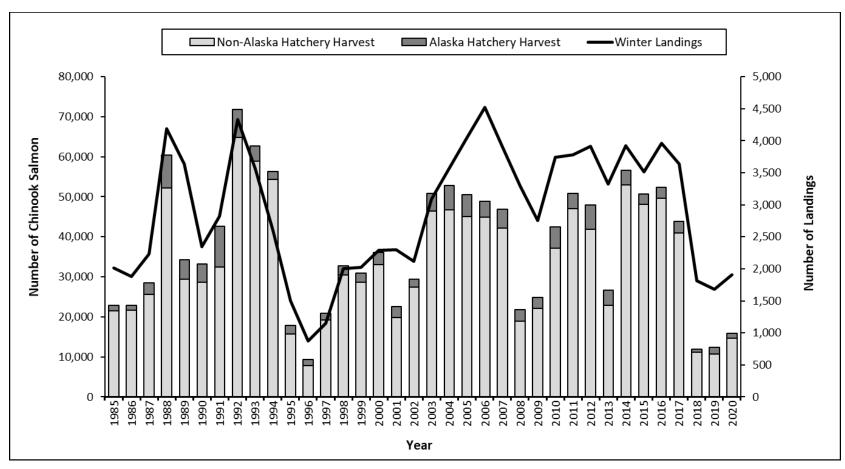


Figure 8.-Southeast Alaska winter troll fishery non-Alaska and Alaska hatchery Chinook salmon harvests and landings, 1985–2020.

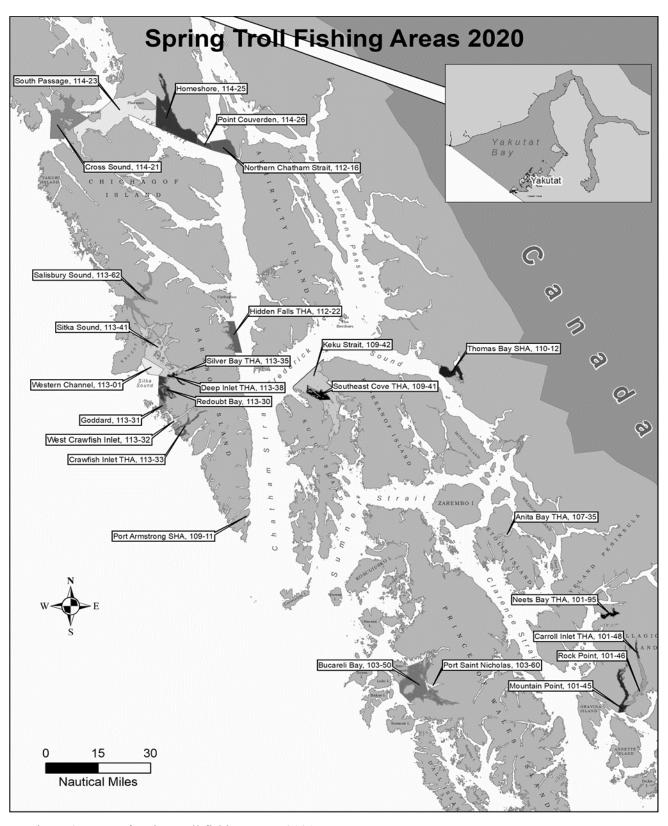


Figure 9.-Map of spring troll fishing areas, 2020.

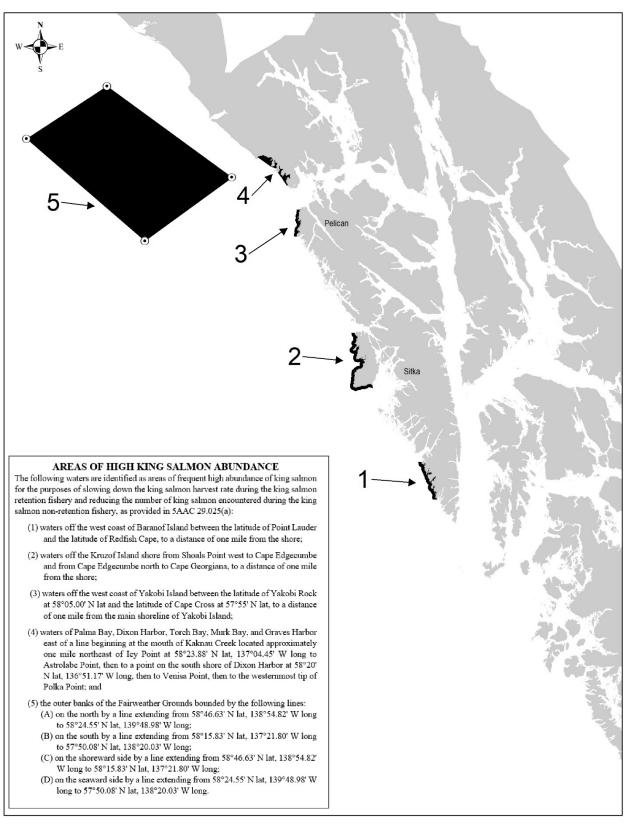


Figure 10.—Map of areas of high Chinook (king) salmon abundance (black shaded areas), which close during part of the summer fishery.

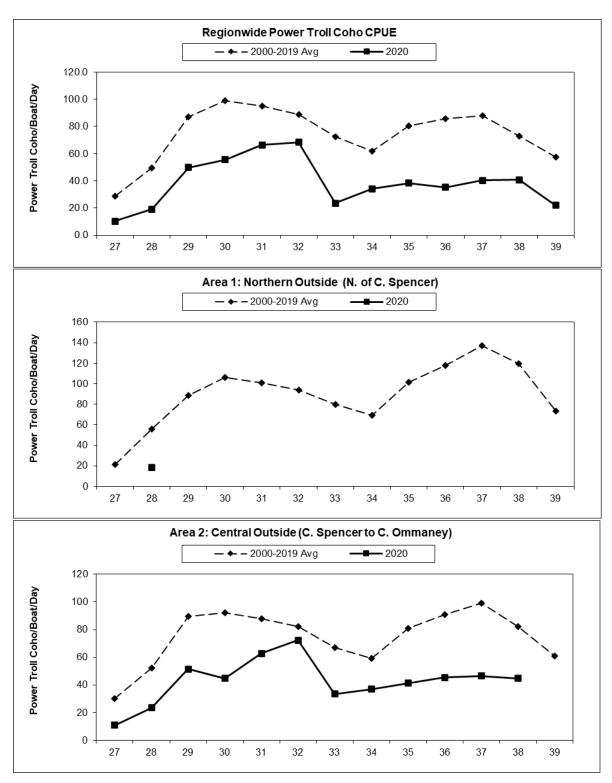


Figure 11.—Average power troll coho salmon CPUE by statistical week, comparing 2020 results with the 2000–2019 average, for the entire Southeast Alaska region ("Regionwide"), Northern Outside (Area 1), and Central Outside (Area 2).

Note: Declines in CPUE for weeks 27–28 are influenced by vessels targeting Chinook instead of coho. Weeks with fewer than 3 permits interviewed are confidential and have been omitted.

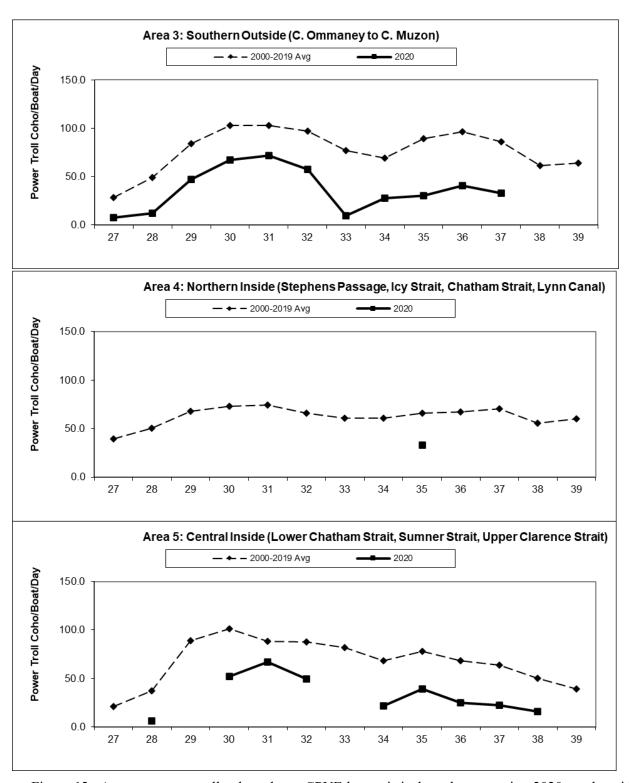


Figure 12.—Average power troll coho salmon CPUE by statistical week, comparing 2020 results with the 2000–2019 average, for Southeast Alaska: Southern Outside (Area 3), Northern Inside (Area 4), and Central Inside (Area 5).

Note: Declines in CPUE for weeks 27–28 are influenced by vessels targeting Chinook instead of coho. Weeks with fewer than 3 permits interviewed are confidential and have been omitted.

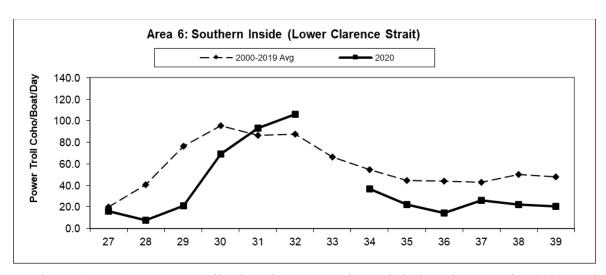


Figure 13.—Average power troll coho salmon CPUE by statistical week, comparing 2020 results with the 2000–2019 average, for Southeast Alaska: Southern Inside (Area 6).

Note: Declines in CPUE for weeks 27–28 are influenced by vessels targeting Chinook instead of coho. Weeks with fewer than 3 permits interviewed are confidential and have been omitted.

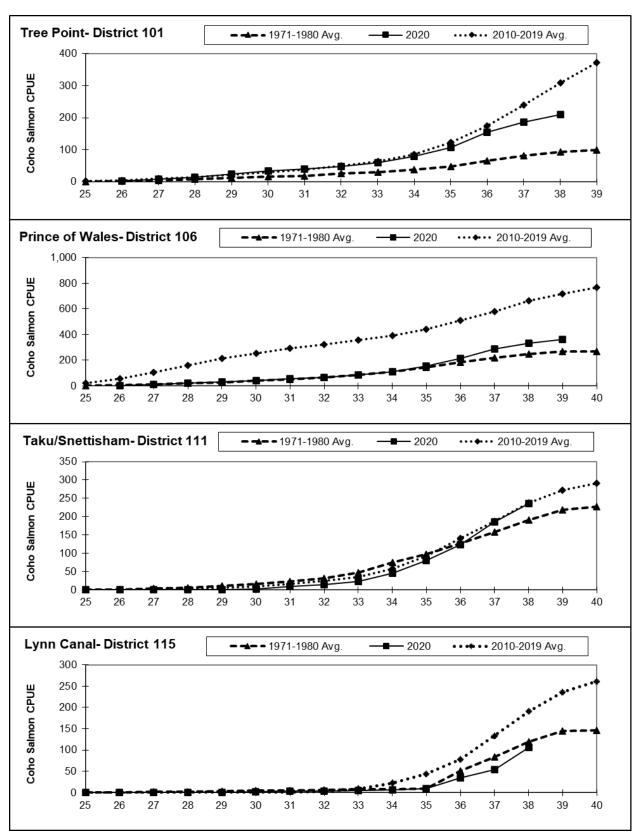


Figure 14.—Cumulative coho salmon CPUE by statistical week, comparing 2020 to the 1971–1980 and 2010–2019 averages, for the 4 indicator drift gillnet fisheries.

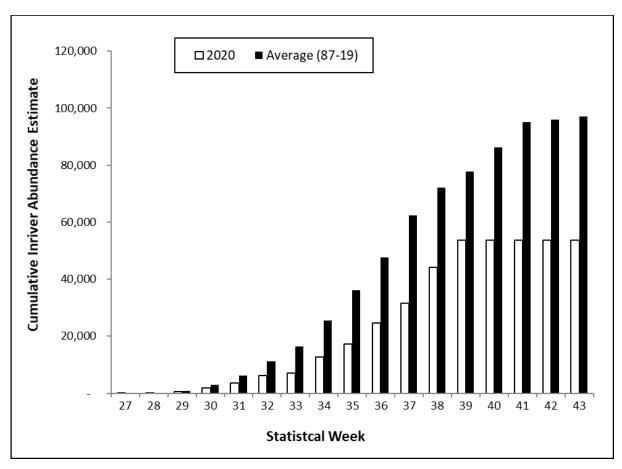


Figure 15.—Preliminary cumulative mark—recapture abundance estimates for Taku River coho salmon from Canyon Island fish wheels, for 2020 and the 1987–2019 average.

Note: Much of the weekly data are interpolated due to a paucity of available data from the Canadian in-river fishery for most weeks.

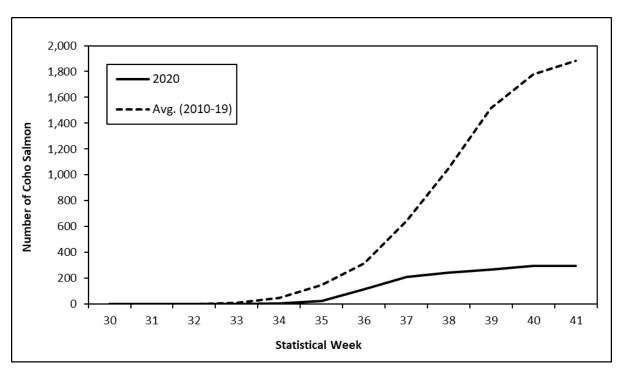


Figure 16.–Cumulative weekly harvest of coho salmon in the Chilkat River fish wheels, for 2020 and the 2010–2019 average.

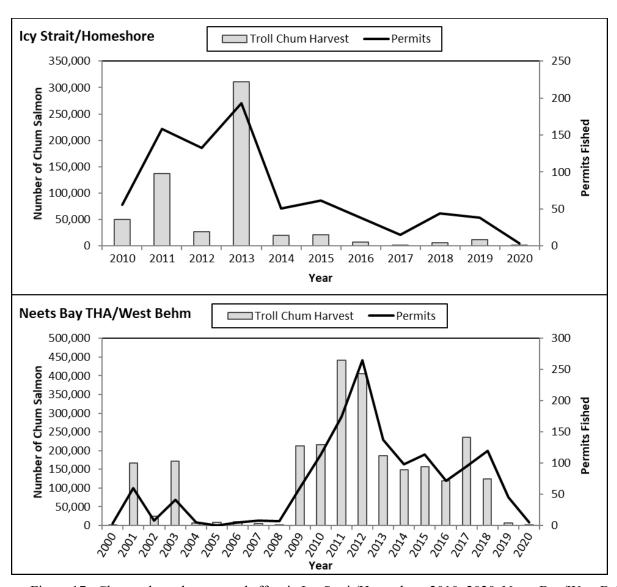
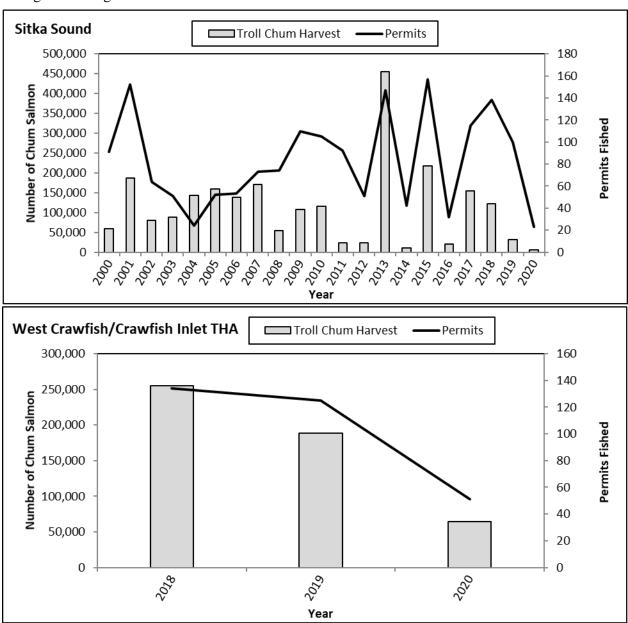


Figure 17.—Chum salmon harvest and effort in Icy Strait/Homeshore 2010–2020, Neets Bay/West Behm Canal 2000–2020, Sitka Sound 2000–2020, and 2018–2020 in Crawfish/West Crawfish Inlets. Harvest and effort based on all troll vessels that targeted chum.

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Figure 17.-Page 2 of 2.



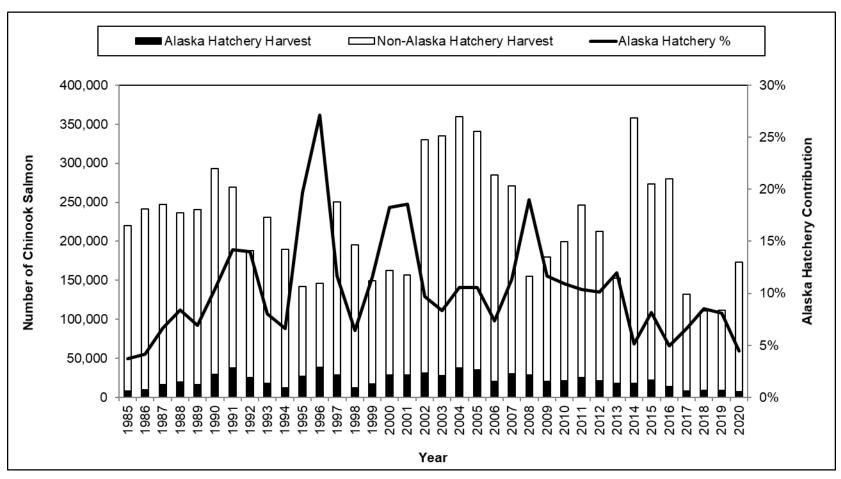


Figure 18.—Alaska hatchery Chinook salmon contributions to the Southeast Alaska troll fishery, 1985–2020.

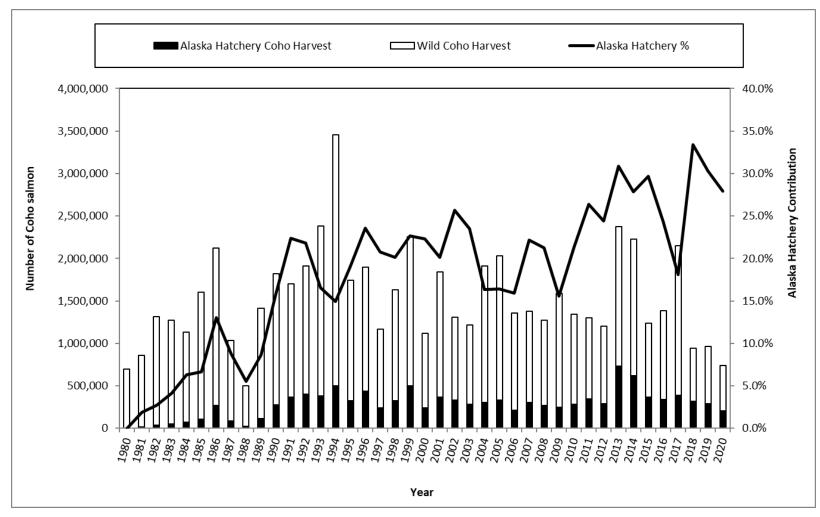


Figure 19.-Alaska hatchery and wild coho salmon contributions to the Southeast Alaska troll fishery, 1980-2020.

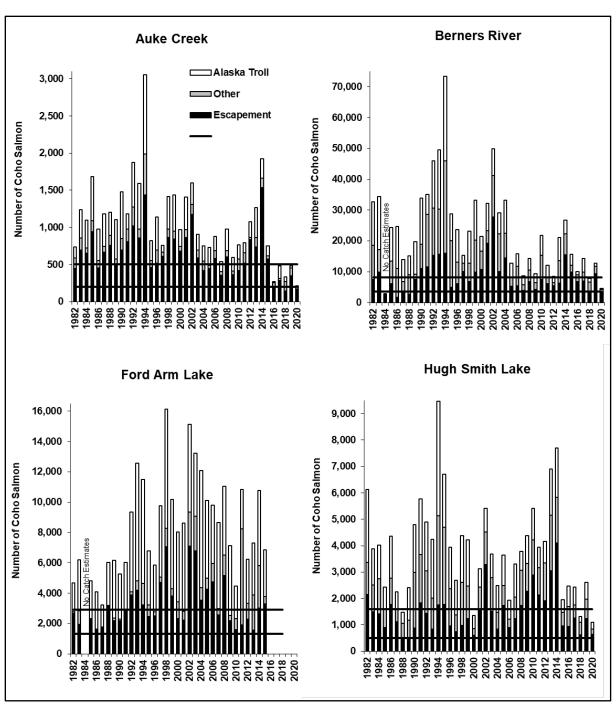


Figure 20.—Total run size, harvest, escapement, and BEG range for 4 wild Southeast Alaska coho salmon indicator stocks, 1982–2020. Horizontal bars are the minimum and maximum BEG.

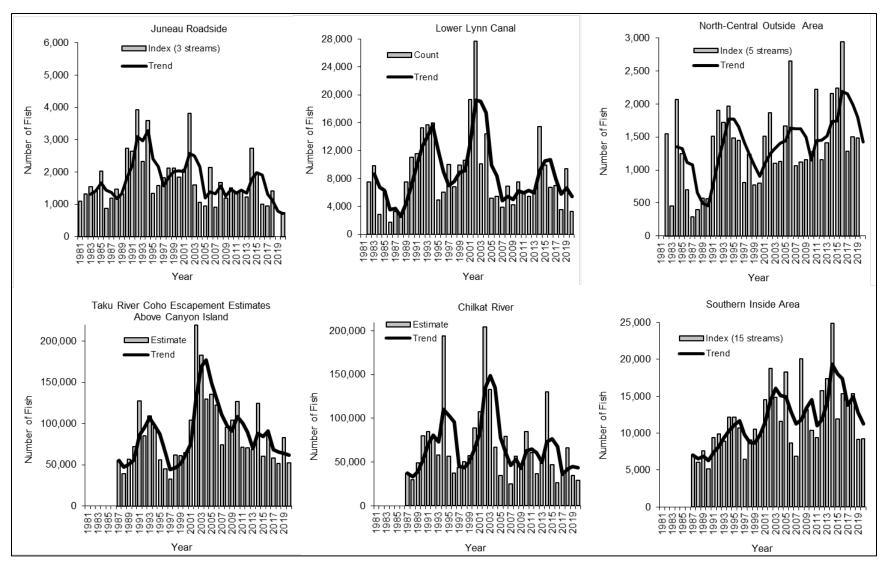


Figure 21.—Coho salmon escapement counts and estimates in index streams in 6 areas of Southeast Alaska, 1981–2020.

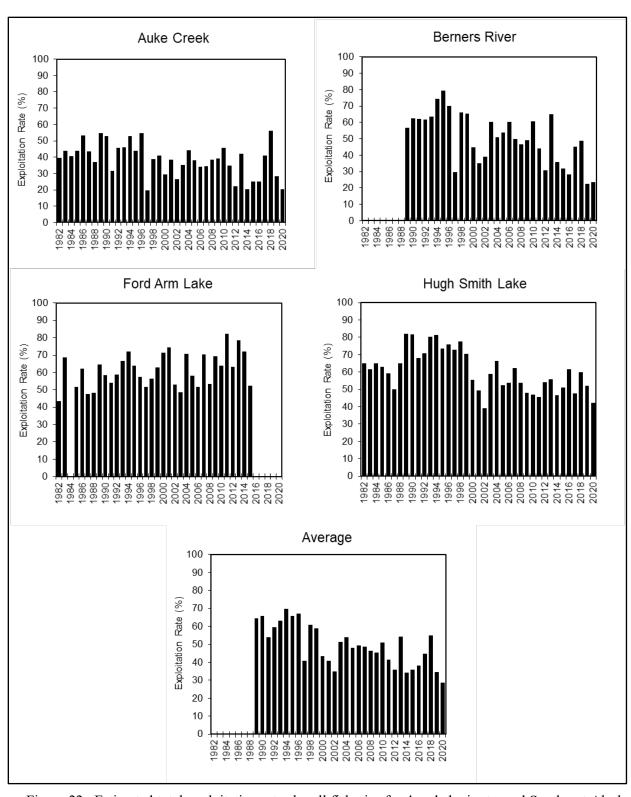


Figure 22.–Estimated total exploitation rates by all fisheries for 4 coded wire tagged Southeast Alaska coho salmon stocks, 1982–2020.

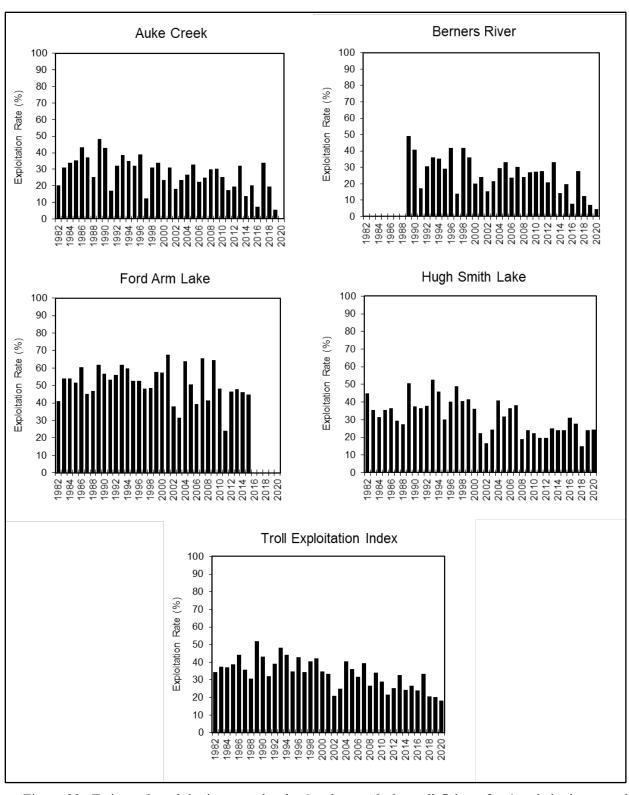


Figure 23.–Estimated exploitation rates by the Southeast Alaska troll fishery for 4 coded wire tagged Southeast Alaska coho salmon stocks, 1982–2020.