Regional Information Report No. 1J19-03

2019 Southeast Alaska Drift Gillnet Fishery Management Plan

by
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April 2019

Alaska Department of Fish and Game
Division of Commercial Fisheries
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<th>Weights and measures (metric)</th>
<th>General</th>
<th>Mathematics, statistics</th>
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<tr>
<td>centimeter cm</td>
<td>Alaska Administrative Code AAC</td>
<td>alternate hypothesis $H_A$</td>
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<td>deciliter dL</td>
<td>all commonly accepted abbreviations e.g., Mr., Mrs., AM, PM, etc.</td>
<td>base of natural logarithm $e$</td>
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<td>gram g</td>
<td>all commonly accepted professional titles e.g., Dr., Ph.D., R.N., etc.</td>
<td>catch per unit effort CPUE</td>
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<td>coefficient of variation CV</td>
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<td>kilogram kg</td>
<td>compass directions: east E north N south S west W</td>
<td>common test statistics (F, t, $\chi^2$, etc.)</td>
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<td>kilometer km</td>
<td>copyright ©</td>
<td>confidence interval CI</td>
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<td>liter L</td>
<td>corporate suffixes: Co. Corp. Inc. Ltd. D.C. et al. etc.</td>
<td>correlation coefficient (multiple) $R$</td>
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<td>meter m</td>
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<td>milliliter mL</td>
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<td>covariance cov</td>
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<td>millimeter mm</td>
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<td>exempli gratia (for example)</td>
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<td>Federal Information Code FIC</td>
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<td>logarithm (natural) ln</td>
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<td>logarithm (base 10) log</td>
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<td>W</td>
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<td>logarithm (specify base) $\log_b$, etc.</td>
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<td>United States Code</td>
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Weights and measures (English)

cubic feet per second ft³/s
foot ft
gallon gal
inch in
mile mi
nautical mile nmi
ounce oz
pound lb
quart qt
yard yd

Time and temperature
day d
degrees Celsius °C
degrees Fahrenheit °F
degrees kelvin K
hour h
minute min
second s

Physics and chemistry

all atomic symbols
alternating current AC
ampere A
calorie cal
direct current DC
dehertz Hz
horsepower hp
hydrogen ion activity (negative log of) pH
parts per million ppm
parts per thousand ppt,
volts V
watts W
REGIONAL INFORMATION REPORT NO. 1J19-03

2019 SOUTHEAST ALASKA DRIFT GILLNET FISHERY MANAGEMENT PLAN

by

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April 2019
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ABSTRACT

This management plan provides an overview of the expected salmon run sizes, regulations, management issues, and harvest strategies for the Southeast Alaska drift gillnet fisheries in 2019. Drift gillnet fisheries are planned at Tree Point and Portland Canal (District 1), Prince of Wales Island and Stikine River (Districts 6 and 8), Taku River/Port Snettisham (District 11), Lynn Canal (District 15), and in the following terminal hatchery areas: Neets Bay (District 1), Nakat Inlet (District 1), Anita Bay (District 7), Speel Arm (District 11), Deep Inlet (District 13), and Boat Harbor (District 15).

Key words: Southeast Alaska, drift gillnet, management plan, Pacific salmon, *Oncorhynchus*, outlook, forecast, terminal harvest area, hatchery, 2019.

INTRODUCTION

This management plan provides an overview of the expected salmon run sizes, regulations, management issues, and harvest strategies for the Southeast Alaska drift gillnet fisheries in 2019.

For the recent 10-year period 2008 to 2017, an average of 474 Southeast Alaska (SEAK) drift gillnet limited entry permits were issued annually, of which an average of 89% were actively fished each year (Conrad and Gray *Unpublished*). In 2018, 474 permits were issued, of which 421 (89%) were actively fished (CFEC 2019). A historical low of 348 permits were fished in 2004. Drift gillnet harvests have averaged 4.9 million salmon over the recent 10-year period, and 3.1 million salmon since statehood (1960–2016). In the last ten years, the species composition of the drift gillnet harvest has been 60% chum, 24% pink, 9% sockeye, 7% coho, and <1% Chinook salmon. Of the total commercial salmon harvest in Southeast Alaska, the most recent 10-year average drift gillnet fishery harvests have included 43% sockeye, 29% chum, 12% coho, 9% Chinook, and 4% pink salmon.

The five traditional drift gillnet fishing areas in Southeast Alaska are shown in Figure 1: Tree Point and Portland Canal (District 1); Prince of Wales (District 6); Stikine (District 8); Taku/Snettisham (District 11); and Lynn Canal (District 15). In addition, drift gillnet fisheries occur in several terminal harvest areas (THA) adjacent to hatchery facilities and at remote release sites throughout the region. Each of these gillnet fisheries are discussed separately in this management plan. A summary of the 2018 season drift gillnet harvest for each species by fishery area and type is presented in Table 1. The most recent 10-year annual and average harvests are presented in Table 2 for Tree Point, Table 3 for Prince of Wales, Table 4 for Stikine River, Table 5 for Taku/Snettisham, and Table 6 for Lynn Canal.

The drift gillnet fishery primarily targets sockeye, pink, and chum salmon during the summer season and coho and chum salmon during the fall season. Directed commercial fisheries harvesting Stikine and Taku rivers Chinook salmon began in 2005 after ceasing in the 1970s. District 8 was opened to directed Stikine River Chinook salmon fisheries from 2005 through 2008, and limited fisheries occurred in 2012 and 2016. The 2019 Stikine River Chinook salmon preseason forecast is below the escapement goal range, which will result in conservative management during the early portion of the sockeye salmon fishery. In District 11, directed fisheries on Taku River Chinook salmon occurred in 2005, 2006, and 2009, and two 12-hour openings occurred in 2012. The 2019 Taku River preseason Chinook salmon terminal run forecast is far below the escapement goal range resulting in no directed fisheries and similar conservative actions to what occurred in 2018 in the early sockeye salmon fishery openings.
SEAK Chinook salmon stocks are currently experiencing a cycle of very low abundance. Over the past five years (2014–2018), the eleven monitored Chinook salmon index systems did not meet escapement goals 56% of the time. In 2018, seven of the eleven monitored Chinook salmon index systems were below their escapement goal ranges. In 2019, four of the five systems for which forecasts are developed are projecting a total run below their escapement goal ranges. Three of these systems, the Taku, Stikine, and Chilkat rivers, are within the District 11, District 8, and District 15 drift gillnet fishing areas. Commercial, sport, personal use, and subsistence fisheries will be restricted throughout SEAK in 2019 to conserve Chinook salmon. More information on management actions in the drift gillnet fishery can be found in the Chinook salmon and the specific fishing area sections below.

**SALMON RUN EXPECTATIONS**

In SEAK, the Alaska Department of Fish and Game (ADF&G) issues a regionwide preseason harvest forecast for pink salmon. ADF&G also produces preseason forecasts for several specific stocks including Chinook and sockeye salmon from Taku and Stikine rivers. Private nonprofit hatchery operators also develop preseason forecasts for salmon returning to enhancement projects throughout SEAK. The projected returns of sockeye, chum, and coho salmon presented in this management plan are qualitative and should not be considered official department forecasts. These projections are calculated primarily from parent-year catch and escapement data and are expressed in terms of probable magnitude of return relative to historic levels.

The 2019 Stikine River Chinook salmon terminal run forecast is 8,250 large fish (large Chinook salmon are greater than 659 mm mid eye to tail fork (MEF)). This forecast is well below the average of 19,700 fish and below the escapement goal range of 14,000–28,000 fish. This forecast does not provide for directed or assessment fisheries in either the U.S. or Canada and both countries will be utilizing restrictions during the directed sockeye salmon fisheries. Management strategy will be detailed in the Prince of Wales and Stikine Fisheries section of this plan.

The 2019 preseason terminal run forecast for Taku River large Chinook salmon is 9,100 fish. This forecast does not provide for directed or assessment fisheries in either the U.S. or Canada on Taku River Chinook salmon and both countries will be utilizing restrictions during early sockeye salmon fishery openings. Details on the management strategy will be explained in the Taku/Snettisham Fishery section of this plan.

For 2019, the preliminary terminal run forecast for Stikine River sockeye salmon is 90,000 fish, which constitutes a below average run size. For comparison, the recent average (2009–2018) total run size is 153,000 fish. Wild sockeye salmon returns to the Taku River are expected to total 154,000 fish, lower than the recent 10-year average terminal run size of 181,000 fish. Enhanced sockeye salmon returns to the Taku River are again expected to be minimal with a recent 10-year average terminal run of approximately 9,000 fish. Chilkat and Chilkoot lakes sockeye salmon returns are expected to be average. Douglas Island Pink and Chum, Inc. (DIPAC) forecasts 230,000 enhanced sockeye salmon returning to Snettisham Hatchery in 2019.

The projected regionwide forecast of hatchery summer chum salmon returns for 2019 is 18.1 million fish. This includes 4.3 million fish to four DIPAC locations, 9 million fish to six Northern Southeast Regional Aquaculture Association (NSRRAA) locations, and 4.5 million fish to five Southern Southeast Regional Aquaculture Association (SSRRAA) locations. A portion of these returns above broodstock and cost recovery needs may be harvested in traditional drift gillnet fisheries in Districts 1, 6, 8, 11, and 15 as well as in terminal area drift gillnet fisheries in
Boat Harbor, Deep Inlet, Anita Bay, Neets Bay, and Nakat Inlet. Chum salmon harvests in regional drift gillnet fisheries have averaged 2.9 million fish per year over the recent 10-year period from 2008 to 2017, and during this period, chum salmon have accounted for 60% of salmon harvested.

Returns of wild coho salmon are not forecasted but are expected to be consistent with the recent year averages. Alaska hatchery coho salmon contributions to drift gillnet fisheries in 2018 were estimated by hatchery operators at 86,000 fish (Stopha 2019), around 33% of total drift gillnet coho salmon harvests. The largest portion of this harvest was from Neets Bay with substantial harvest from Macaulay Hatchery and Nakat Inlet.

The SEAK pink salmon harvest forecast for 2019 is 18 million fish, with a range of 15 to 26 million fish. The major portion of the pink salmon harvest for the region is generally taken by purse seine gear. Drift gillnet harvests of pink salmon have recently averaged 4% of regional pink salmon harvests.

**MANAGEMENT APPROACH**

A flexible management approach is required due to uncertainty in salmon runs. This management plan presents a general outlook of how the season is expected to develop. Some specific management approaches may be altered depending on inseason assessments of salmon run strength. Gillnet fishermen are encouraged to contact ADF&G management staff listed at the end of this plan for more detailed information.

Primary objectives for management of the 2019 drift gillnet fishery are as follows:

1. Achieve overall salmon spawning escapements with the best possible distribution to all systems;
2. Provide for orderly fisheries while harvesting those salmon in excess of escapement objectives;
3. Promote the harvest and processing of good quality salmon within the constraints dictated by run size;
4. Minimize harvest of Chinook salmon using conservation actions outlined in subsequent sections of this management plan;
5. Minimize, to the extent possible, the harvest of salmon destined for locations where weak returns are expected;
6. Manage Districts 1, 6, 8, and 11 drift gillnet fisheries consistent with the provisions of the U.S./Canada Pacific Salmon Treaty (PST);
7. Manage hatchery THAs in accordance with provisions in THA management plans adopted by the Alaska Board of Fisheries (BOF).

Achievement of these management objectives will be accomplished by inseason adjustments of time and area to control harvests in specific areas in accordance with salmon run strength and timing. Comparisons of current year fishing performance to historical fishing success (i.e., catch per unit effort [CPUE] analysis) are a major component of inseason run strength assessment. This approach assumes catch rates are an accurate reflection of run strength by time period and can be relied upon as an indication of salmon abundance throughout the fishing areas.

Past experience has demonstrated that management of salmon fisheries based solely on fishery performance, or CPUE, can be misleading, especially for mixed stock fisheries. Therefore, other available run strength indicators, if available, will also be used including spawning escapements,
stock composition estimates, test fishing, observed salmon concentrations in closed waters, harvests from other fisheries, and salmon run timing models.

The increasing availability of hatchery-produced salmon has become a major factor in the management of SEAK drift gillnet fisheries, including coho and summer chum salmon throughout the region and sockeye salmon in District 11. Where inseason management is based on fishery performance, it may be difficult to gauge natural stock run strength if significant numbers of hatchery fish are present in the harvest. Where possible, the hatchery component of the harvest will be separated when evaluating fishery performance and management decisions outside of terminal areas will be based on wild stocks.

**WEEKLY FISHING ANNOUNCEMENTS**

Inseason management of the District 1 drift gillnet fishery is conducted by Ketchikan Area staff; Districts 6 and 8 by Petersburg and Wrangell Area staff; District 11 by Juneau Area staff; and District 15 by Haines Area staff. Because permit holders can move freely among all drift gillnet fisheries, the weekly fishing announcements will be issued to include all areas in the region. These will normally be released simultaneously in all area offices by midafternoon each Thursday during the fishing season.

**WEEKLY FISHING PERIODS**

Weekly fishing periods in most traditional areas can generally be expected to begin on Sundays at 12:01 p.m. Fishing periods in hatchery THAs, including NSRAA and SSRAA terminal fisheries in Deep Inlet, Anita Bay, and Neets Bay, will be in accordance with rotational harvest management plans for drift gillnet, seine, and troll fisheries adopted by the BOF.

**FULL RETENTION**

ADF&G will require full retention (5 AAC 39.265) of all salmon harvested in the Deep Inlet THA net fisheries from the onset of the 2019 season. This regulation may be implemented by emergency order in other areas of SEAK if necessary after consultation with the Alaska Wildlife Troopers (AWT). Further details regarding the implementation of this regulation will be announced at later dates.

**USE OF DRONES PROHIBITED**

A regulation (5 AAC 33.398) adopted by the BOF in 2015 prohibits the use of unmanned aircraft to locate salmon for the commercial taking of salmon or to direct commercial salmon fishing operations during open commercial salmon fishing periods in the Southeastern Alaska Area.

**U.S./CANADA PACIFIC SALMON TREATY**

The Pacific Salmon Treaty (PST) will directly influence management of Districts 1, 6, 8, and 11 drift gillnet fisheries [5 AAC 33.361]. The management provisions of the PST will be considered separately under the specific management plan for each fishery. Fishermen are encouraged to contact local ADF&G staff for more detailed information concerning Alaska's PST obligations under the 2019–2028 Northern Boundary and Transboundary River (TBR) Annex agreement.
CHINOOK SALMON

For 2019, the all gear PST Chinook salmon allocation is 137,500 Treaty Chinook salmon. This year’s all gear harvest limit includes a 2% reduction that will serve as a buffer to avoid exceeding the all gear limit and payback provisions within the Pacific Salmon Treaty. The all gear harvest limit for SEAK is determined by the Chinook Technical Committee of the Pacific Salmon Commission and is based on a forecast of the aggregate abundance of Pacific Coast Chinook salmon stocks subject to management under the Pacific Salmon Treaty as determined by catch per unit effort in the Southeast Alaska early winter troll fishery. The 2019 drift gillnet Treaty Chinook salmon allocation is 4,000 fish. The need for management measures to comply with the drift gillnet harvest quota for Chinook salmon will depend on inseason evaluation of Chinook salmon catch rates relative to the 2.9% drift gillnet allocation of the Treaty fish harvest ceiling [5 AAC 29.060]. Nighttime fishing closures will be implemented in certain areas to reduce the incidental catch of immature, “feeder” Chinook salmon. Only historical base level catches in Districts 8 and 11 will be counted towards the PST fish ceiling when directed fisheries occur.

Terminal Chinook salmon fisheries in Districts 8 and 11 are bound by provisions of the TBR Annex of the PST. Management actions have been necessary to meet obligations of the PST in recent years and similar actions are expected in 2019. In addition, District 15 is managed under the provisions of the Lynn Canal and Chilkat River King Salmon Fishery Management Plan [5 AAC 33.384], and the Board of Fisheries guidelines reported in the Chilkat River and King Salmon River King Salmon Stock Status and Action Plan, 2018 (Lum and Fair 2018). The District 15 drift gillnet fishery will be managed with time, area, and gear restrictions that exceed the provisions listed in the plan.

The BOF approved action plans for three Chinook salmon Stocks of Management Concern (Unuk, King Salmon, and Chilkat rivers) at the 2018 Southeast and Yakutat Finfish Meeting. These plans outline specific actions to be taken in the Neets Bay THA, District 15, and District 11 drift gillnet fisheries, as well as purse seine, troll, sport, personal use, and subsistence fisheries throughout the region to minimize harvest of Chinook salmon returning to these systems. The 2019 Chinook salmon forecasts indicate returns to other Southeast Alaska systems, particularly to the Stikine and Taku rivers, will be at or near all-time lows and management actions taken to conserve Chinook salmon will be highly restrictive in attempts to attain escapement goals and stay within harvest limits outlined in the Pacific Salmon Treaty. Management actions are being taken across all Southeast Alaska fisheries, including sport, commercial, personal use, and subsistence, to reduce harvest of wild Chinook salmon. More information about the basis for 2019 Chinook salmon conservation measures in SEAK is publicly available (links provided below).

Chilkat River and King Salmon River King Salmon Stock Status and Action Plan, 2018:
http://www.adfg.alaska.gov/FedAidPDFs/RIR.1J.2018.05.pdf

Unuk River King Salmon Stock Status and Action Plan, 2018:

2018 Southeast Alaska Chinook Salmon All Gear Harvest Limit press release:
DISTRICT 1 GILLNET FISHERY

INTRODUCTION

The District 1 drift gillnet fishing area consists of regulatory Sections 1-A and 1-B. This fishery targets summer chum and sockeye salmon early in the season, followed by pink salmon, and finally fall coho and chum salmon at the end of the season.

2019 OUTLOOK

Chum Salmon

Runs of summer chum salmon in southern SEAK were generally strong in 2018, with good escapements to many of the index streams in the subregion. The index count of 127,000 chum salmon in the Southern Southeast Subregion was well above the lower bound sustainable escapement goal (SEG) of 62,000 index fish. The estimated escapement of 29,600 summer chum salmon at Fish Creek near Hyder was above the longterm average of 24,100 fish (1971–2017) and the peak aerial survey estimate of 55,000 fish at the Tombstone River was the second largest since 1960.

U.S./Canada District 1 Drift Gillnet Fishery Agreement

In the spring of 2018, the United States and Canada renegotiated a 10-year annex, 2019–2028, for the District 1 drift gillnet fishery. There were minor changes to the language in the District 1 drift gillnet portion of the PST that are outlined below. The management goals remain the same and the agreement still calls for the following:

Manage the Alaska District 1 drift gillnet fishery to:

1. Achieve an annual catch share of Nass River sockeye salmon of 13.8% of the Annual Allowable Harvest (AAH) of the Nass River sockeye salmon stocks;
2. Carry forward from year to year annual deviations from the prescribed catch share arrangement.
3. Based on run size estimates for Nass River sockeye, the parties shall undertake additional management actions as follows:
   a) If expected total run is forecasted below 200,000 sockeye salmon. At this level, there are no Canada commercial marine harvests. The United States shall undertake measures to reduce the impact of District 101 drift gillnet and District 104 purse seine fisheries, which may include delaying the start date and duration of these fisheries.
   b) If expected total run is below 180,000 sockeye salmon. At this level, there are no Canada marine or inriver commercial harvests. The United States shall undertake measures to reduce the impact of District 101 drift gillnet and District 104 purse seine fisheries, which may include delaying the start date and reducing the duration, reducing the area, and/or implementing mesh restrictions (District 1 drift gillnet fishery only) for these fisheries.
Nass River Sockeye Salmon Annual Allowable Harvest

The AAH each year will be calculated as the total run of adult Nass River sockeye salmon in that year less the escapement target of 200,000 fish. In the event that the actual Nass River spawning escapement for the season is below the target level, the actual spawning escapement will be used in the AAH calculations.

The total run calculation includes the catches of Nass River sockeye salmon in the principal boundary area fisheries and the spawning escapement to the Nass River watershed. This includes the catch of Nass River sockeye salmon in Alaska Districts 1, 2, 3, 4, and 6 net fisheries, Canada Areas 1, 3, 4, and 5 net fisheries, and Canada Nass inriver fisheries.

Although the management intent shall be to harvest salmon at the AAH percentage, it is recognized that overages and underages will occur and an accounting mechanism is required. The payback mechanism for the fishery will be based on the number of fish a party is over or under its AAH.

The management intent for the fishery shall be to return any overages to a neutral or negative balance as soon as possible. After 5 years of consecutive overages, a management plan must be provided to the Northern Panel of the Pacific Salmon Commission with specific management actions that will eliminate the overage. The accrual of underages is not intended to allow either Alaska or Canada to modify its fishing behavior in any given year, nor to harvest the accrued underage.

During the Pacific Salmon Commission meeting in January 2019, the bilateral Northern Panel and the Northern Boundary Technical Committee met, finalized and agreed upon the run reconstruction of the Nass River for 2017 and formulated a preliminary run reconstruction for 2018. Preliminary reports indicate that the total sockeye salmon return to the Nass River in 2018 was 316,000 fish. That allowed for a harvest of 16,000 Nass River sockeye salmon in District 1 in 2018. Total sockeye harvest at the District 1 drift gillnet fishery for 2018 was 19,920 sockeye salmon and of these, 11,300 were Nass River sockeye. The performance of the District 1 drift gillnet fishery under the 1999 agreement is shown in Table 7.

Fisheries and Oceans, Canada (FOC) has a preseason expectation for 2019 returns of 620,000 Nass River sockeye salmon. If the forecast is accurate, then the AAH for the District 1 gillnet fishery will be 58,000 Nass River sockeye salmon.

Chum and Coho Enhancement

Hatchery returns of summer chum, fall chum, and coho salmon to SSRAA enhancement projects are expected to again contribute substantially to the District 1 drift gillnet fishery in 2019. Information concerning SSRAA forecast returns is included under the THA Fisheries section of this plan.

Pink Salmon

The SEAK pink salmon forecast for 2019 is for a poor return. Pink salmon harvests for Southern SEAK for the past 5 odd years have averaged 23 million fish. If the actual returns are as forecasted, the District 1 drift gillnet fishery may receive two-, four-, and five-day fishing periods during weeks of the District 1 Pink Salmon Management Plan (PSMP; 5 AAC 33.360).
The PSMP establishes drift gillnet fishing time in Section 1-B in relation to District 1 purse seine fishing time when both gear types are concurrently harvesting the same pink salmon stocks. By regulation, the plan starts on the third Sunday in July (July 21, 2019) with the following fishing time schedule:

1. When the purse seine fishery is open for any portion of one day during a fishing week, the drift gillnet fishery must be open for 48 hours during the same fishing week;
2. When the purse seine fishery is open for any portion of two days during a fishing week, the drift gillnet fishery must be open for 96 hours during the same fishing week;
3. When the purse seine fishery is open for any portion of three or more days during a fishing week, the drift gillnet fishery must be open for 120 hours during the same week.

**MANAGEMENT GOALS**

Management goals specific to the 2019 District 1 drift gillnet fishery are as follows:

1. Manage the fishery in accordance with the PSMP;
2. Manage the fishery consistent with the current provisions of the PST (5 AAC 33.361).

**MANAGEMENT PLAN**

The District 1 drift gillnet fishery will open by regulation at 12:01 p.m., Sunday, June 16, in Section 1-B and the initial opening will be four days. The length of subsequent fishing periods will be based on effort levels and the strength of wild stock sockeye and chum salmon returns to Alaska and Canada waters, until July 21 when the PSMP becomes effective.

As in recent years, the harvest of hatchery-produced summer chum salmon returning to the Nakat Inlet release site will not be included in the evaluation of wild stock fishery performance. The contribution of Nakat Inlet chum salmon will be estimated by inseason analysis of otolith marked fish. Hatchery chum salmon have contributed as much as 90% of the weekly chum salmon harvest in District 1 and as much as 70% of the total chum salmon harvest in recent years.

The PST requires the harvest of natural stocks of chum salmon returning to Portland Canal streams be minimized to ensure adequate escapement of these stocks. As a result, no fishing should be expected in Section 1-A for Portland Canal chum salmon.

Depending on pink salmon run strength and timing, beginning in mid-July through the end of August, the District 1 drift gillnet fishery can anticipate fishing periods of two, four, and five days.

Fall management in District 1 starts after the end of the pink salmon season and varies depending on pink salmon run strength. During the fall season, the District 1 drift gillnet fishery targets primarily fall coho and chum salmon. However, if the estimated exploitation rate of the Hugh Smith Lake coho salmon stock, which has reached 80% in some years, holds true for adjacent areas, then wild coho salmon stocks in the surrounding area may benefit from a closing date around September 19. Due to the uncertainties of escapement levels of stocks being harvested, the documented high exploitation rate of Hugh Smith Lake coho salmon in some years, and the preponderance of hatchery fish in the harvest, ADF&G will continue to take a conservative approach to the fall season in District 1. However, fishing periods will be allowed after
September 19 if fishery performance data indicates above average returns of wild coho salmon. During recent years, approximately 50% of the fall coho salmon and as much as 90% of the fall chum salmon have been hatchery fish. Nakat Inlet fish can be harvested in the Nakat Inlet THA which remains open by regulation to commercial fishing through November 10, 2019.

**Hugh Smith Lake Sockeye Salmon**

ADFG will continue to monitor Hugh Smith Lake sockeye salmon. If escapement is below the lower bound of the escapement goal range of 8,000 fish, the department may consider the following actions:

1. In statistical weeks (SW) 29 and 30, the department may close that portion of the District 1 purse seine fishery east of a line from Quadra Point to Slate Island Light to Black Rock Light to a point on the mainland shore at 55°01.40′ N. latitude, 131°00.20′ W. longitude.

2. In SWs 31, 32, and 33, the department may close that portion of the District 1 purse seine fishery east of a line from Foggy Point Light to Black Rock Light to the southernmost tip of Black Island and close the northern portion of the Section 1-B drift gillnet fishery to 1.0 nautical mile south of the latitude of Foggy Point Light.

**PRINCE OF WALES AND STIKINE FISHERIES**

**INTRODUCTION**

The Prince of Wales (District 6) drift gillnet fishery occurs in the waters of northern Clarence Strait and Sumner Strait, in regulatory Sections 6-A, 6-B, 6-C, and portions of Section 6-D. The Stikine River fishery encompasses waters of District 8 surrounding the terminus of the Stikine River. Due to their proximity, management of these fisheries is interrelated as stocks are subject to harvest in both fisheries. Two distinct management areas exist within each district: the Frederick Sound (Section 8-A) and Wrangell (Section 8-B) portions of District 8, and the Sumner Strait (Section 6-A) and Clarence Strait (Sections 6-B, 6-C, and 6-D) portions of District 6. Management plans for terminal hatchery runs to Crystal Lake and Anita Bay will be discussed in the THA fisheries portion of this document.

**2019 OUTLOOK**

**Chinook Salmon**

The 2019 preseason terminal run forecast for Stikine River large Chinook salmon is 8,250 fish. This forecast uses sibling relationships in which the 2017 and 2018 estimated terminal runs, representing brood years 2013 and 2014, were used to predict the runs of age-5, brood year (BY) 2014 and age-6, BY 2013, fish in 2019 using the relationships observed in age classes over the past nine years. The 95% confidence interval of this forecast is 0 to 17,600 fish. This forecast is well below the average of 19,700 fish and below the escapement goal range of 14,000–28,000 fish. The forecast for enhanced Chinook salmon returning to Anita Bay is 15,700 fish, just above the average of 15,200 fish.

**Sockeye Salmon**

The 2019 preseason forecast for Stikine River sockeye salmon of 90,000 fish is below average (153,000 fish) and includes: 66,000 Tahltan Lake (73%) and 24,000 mainstem (27%) sockeye
salmon. Fishing periods in District 8, and to a lesser extent in District 6, will be determined by inseason abundance estimates of Stikine River sockeye salmon. Typically, run timing peaks for sockeye salmon returning to Tahltan and Tuya lakes in SW 27 (June 30–July 6), while peak run timing for mainstem fish peaks in SW 29. Sockeye salmon stocks returning to other local area streams are expected to be average to below average based on parent-year escapements. The sockeye salmon run to McDonald Lake is expected to be poor again in 2019.

**Pink Salmon**

Pink salmon typically begin entering District 6 in substantial numbers near the end of July. Although parent-year escapements to both districts were within target ranges, the low juvenile abundance index observed in 2018 may result in weaker than average returns to Districts 6 and 8 for 2019. Pink salmon harvests typically peak during SWs 31–33 in both districts.

**Chum Salmon**

In Districts 6 and 8, there is no direct management of chum salmon as they are caught incidentally in fisheries targeting sockeye, pink, and coho salmon. Chum salmon returning to Anita Bay contribute to salmon harvests in Districts 6 and 8. Anita Bay is expecting a total run of 535,800 summer chum salmon, which is much higher than the 2018 harvest of 393,500 fish. Chum salmon returning to Anita Bay typically peak during SWs 30–32 (July 21–Aug 10). Summer chum salmon production from Ketchikan area hatcheries are expected to be strong. Chum salmon returning to the Ketchikan area hatchery facilities migrate through District 6 and typically contribute to the total District 6 chum harvest.

**Coho Salmon**

Enhanced coho salmon returns for 2019 are expected to be below average. Forecasted returns to Neck Lake and Neets Bay are 55,100 and 126,900 fish, respectively. The forecast for the Anita Bay coho salmon return is expected to be below average with 9,200 fish returning, much higher than the 2017 return of 4,200 fish. Wild coho salmon harvests are expected to be near average. Starting in SW 35 (August 25–31) weekly fishing periods will be determined based on wild coho salmon abundance.

**MANAGEMENT GOALS**

Management goals for the District 6 and District 8 drift gillnet fisheries for the 2019 season are as follows:

1. Achieve Chinook salmon escapement goals;
2. Achieve the Stikine River sockeye salmon escapement goals while harvesting the Alaska share of Stikine River sockeye salmon;
3. Achieve sustainable spawning escapements of sockeye salmon in local Alaska systems;
4. Achieve pink salmon spawning escapement objectives in Districts 6 and 8;
5. Manage the District 6 and District 8 drift gillnet fisheries consistent with the provisions of the PST;
6. Manage the directed Stikine River Chinook salmon drift gillnet fishery in accordance to the District 8 King Salmon Management Plan (5 AAC 33.368) and associated closed water regulations (5 AAC 33.350 (i)(3-9)).
**MANAGEMENT PLAN**

**Chinook Salmon**

The 2019 preseason forecast does not allow an AC for directed Chinook salmon fisheries in District 8. Recent trends of Stikine River Chinook salmon abundance and trends in Chinook salmon abundance throughout SEAK indicate very poor survival of Chinook salmon. As such, the U.S. will be restricting fisheries for Chinook salmon conservation.

Canada will also be taking actions to reduce their harvest of Stikine River Chinook salmon. Canada will be delaying the start of their sockeye salmon fishery by one week, will have mesh restrictions in place, will have restrictions on the use of set gillnets, and will require the release of Chinook salmon. In addition, Canada will again not prosecute the assessment fishery. Inseason assessment will be based solely on the Kakwan Point tagging project.

**Sockeye Salmon**

Sockeye salmon fishing in both districts will be managed in accordance with the TBR Annex of the PST. The Annex allows District 6 to be managed primarily for local Alaska sockeye salmon stocks. Management of District 8 is based on the harvest of sockeye salmon of Stikine River origin, as allowed by the sharing provisions of the TBR Annex and conservation needs. Beginning in 2019, harvest shares shall be 53% U.S./47% Canada through 2023. This results in a U.S. Allowable Catch (AC) of 22,000 Stikine River sockeye salmon based on the preseason forecast. The AC is based entirely on Tahlton Lake sockeye salmon as the forecast for mainstem sockeye salmon is below midpoint of the escapement goal range (30,000 fish).

The sockeye salmon season could open by regulation as early as 12:00 noon on Sunday, June 9 (SW 24). However, with an expected poor return of Stikine River Chinook salmon, as well as poor Chinook salmon returns throughout Southeast Alaska, conservation measures will be in place for the start of the sockeye salmon fishery. Conservation measures will include: delaying the start of the sockeye salmon fishery by at least two weeks in District 8 and by one week in District 6, implementing a six-inch maximum mesh size, limiting fishing time, and limiting fishing area in District 8. The initial District 6 opening will be limited to 48 hours. The following week, SW 26, District 6, and possibly District 8, will be open for an initial 48 hours and may be extended based on observed effort and harvest levels. During the first few weeks of the sockeye salmon fishery, any extended fishing time or midweek openings will be based on the preseason forecasts, harvest, expected harvest levels, and stock proportion data.

Due to the expected return of Tahlton Lake and mainstem sockeye salmon, fishing time will likely be more conservative than it has been in recent years. If the Tahlton Lake component of the run appears to be weaker than forecasted, a more conservative management approach may limit fishing time in District 8 and fishery extensions in District 6 would likely not occur during the first few weeks of the sockeye fishery. If inseason estimates of mainstem sockeye salmon stay within expectations, conservative management actions may be needed during SWs 28–32 and time and area may be limited. Additional management actions may include the closure of District 8. District 6 will be limited to two days a week during SWs 29–32 due to McDonald Lake sockeye salmon concerns.

Management actions during the sockeye salmon fishing season will be based on CPUE and stock specific data to determine the availability of Stikine River sockeye salmon. These stock abundance indicators, along with fishery performance and stock composition data obtained from
U.S. and Canada fisheries will be incorporated into the Stikine Sockeye Management Model (SSMM). As the season progresses, this model will be the primary method to estimate availability of sockeye salmon for harvest. Management actions required for Stikine River sockeye salmon are implemented first in District 8 followed by District 6. Adjustments in fishing time, area, or districtwide closures will be used when necessary. All openings will be based on the most recent SSMM update and current sockeye salmon harvests.

Stikine River sockeye salmon generally begin to decrease in abundance in mid-July as other stocks, including McDonald Lake sockeye salmon, begin to migrate through the fishery. Escapement of McDonald Lake sockeye salmon has fallen below the lower bound of the escapement goal range in 5 of the past 6 consecutive years. Given this history and expected low escapements in the near future, ADF&G recommended McDonald Lake sockeye salmon as a stock of concern as defined by the Sustainable Salmon Fishery Policy and the board designated McDonald Lake sockeye salmon as a stock of concern. A draft action plan was developed with several management options for the drift gillnet, purse seine, personal use, and sport fisheries for the board to consider. The draft plan was presented to the BOF during the 2018 meeting in Sitka where the board considered the various options and adopted management actions similar to the 2009 plan (Bergmann et al. 2009). The adopted actions for the District 6 drift gillnet fishery calls for a maximum fishing time of 2 days per week during the peak weeks of the McDonald Lake sockeye salmon run in SWs 29, 30, and 31 (Walker et al. 2018).

McDonald Lake Sockeye Salmon Stock Status and Action Plan 2018, can be found at: http://www.adfg.alaska.gov/FedAidPDFs/RIR.1J.2018.03.pdf

Announcements of additional fishing time by extensions or midweek openings will be made from the fishing grounds via VHF radio by 10:00 a.m. on the final day of the scheduled opening. Areas opened for any additional fishing time may not be the same as the general weekly opening.

**Pink Salmon**

Pink salmon normally begin entering District 6 in substantial numbers in late July. Early portions of the pink salmon fishery will be managed primarily on CPUE and parent-year escapement. By mid-August, pink salmon destined for local systems will begin to enter the fishery in greater numbers and management will be based on observed escapements to local streams. Parent-year escapements to Districts 6 and 8 met escapement objectives. The expected return may result in above average fishing days during the pink salmon management period.

**Coho Salmon**

Management for coho salmon typically begins in late August or early September and will be based on wild coho stocks. Crystal Lake Hatchery, facilities in the Ketchikan area, Anita Bay remote release site, and Neck Lake remote release site at Whale Pass, all contribute coho salmon to Districts 6 and 8 fisheries. Inseason estimates from coded wire tag (CWT) recovery data will be used to identify the hatchery component of the harvest.

**TAKU/SNETTISHAM FISHERY**

**INTRODUCTION**

The Taku/Snettisham (District 11) drift gillnet fishing area encompasses Section 11-B (Taku Inlet, Port Snettisham, and Stephens Passage north of Midway Island) and Section 11-C
(Midway Island south to a line from Point League to Point Hugh). This fishery has historically targeted sockeye salmon from late June to mid-August and fall chum and coho salmon from mid-August to mid-October. In recent decades, the fishery has harvested substantial numbers of hatchery summer chum and sockeye salmon.

**2019 OUTLOOK**

**Chinook Salmon**

The 2019 preseason terminal run forecast of 9,100 Taku River large Chinook salmon does not provide any AC for either U.S. or Canada directed fisheries. This is the second smallest Taku River forecast ever produced (2018 was the smallest) and is 10,000 fish below the escapement goal range. DIPAC forecasts returns totaling 6,500 hatchery Chinook salmon from their smolt release sites at Gastineau Channel, Auke Bay, Fish Creek, and Lena Cove.

**Sockeye Salmon**

The 2019 terminal run of Taku River wild sockeye salmon is estimated to be 154,000 fish, below the recent 10-year average of 181,000 fish. This is a stock recruitment model forecast that was adjusted using the 10-year model error (23%) for the second consecutive season. The U.S. and Canada, through PST negotiations will aim to establish a bilaterally approved MSY goal for Taku River wild sockeye salmon prior to the 2020 fishing season. The U.S. and Canada have developed an interim arrangement for 2019 that will incorporate a 22% adjustment (to account for historical tag dropout rates observed through radio telemetry studies) to both inseason above border run estimates and the spawning objective which has traditionally been a range of 71,000–80,000 fish with a point goal of 75,000 fish. This interim arrangement includes a spawning objective of 55,000–62,000 fish with a management target of 59,000 fish. The preseason forecast will be used to determine harvest shares until inseason estimates become available and will be similarly adjusted by 22% to approximately 120,000 fish. Adult returns to date from the joint U.S./Canada Taku River sockeye salmon enhancement project at Tatsamenie Lake have been low. Numbers of enhanced sockeye salmon returning to this system are not expected to contribute significantly to harvests in 2019.

The Speel Lake escapement goal was revised in 2014 to a SEG of 4,000–9,000 sockeye salmon. Both the 2014 and 2015 parent-year escapements through the Speel Lake weir were within the revised range, at 5,062 fish and 4,888 fish, respectively. The escapement goal in 2017 was not met for the first time since 2009 with 3,435 fish counted through the weir, and 2018 escapement was within the goal range at 4,244 fish. Beginning in 2005, DIPAC replaced the Crescent Lake weir with side scan sonar to monitor salmon escapements into the lake. Although all species of salmon enter Crescent Lake, the majority are thought to be sockeye salmon. The 2005–2010 average sonar count was 6,400 fish. Due to technical issues, the sonar monitoring program has been discontinued and Crescent Lake salmon escapements will be monitored by aerial surveys in 2019.

The 2019 DIPAC forecast for enhanced sockeye salmon returning to Snettisham Hatchery is 230,000 fish, 96% of the 2018 total return of 239,000 fish.

**Chum Salmon**

In 2019, 1.2 million Gastineau Channel and 230,000 Limestone Inlet summer chum salmon are forecast to return from DIPAC hatchery releases. The total estimated DIPAC chum salmon
contribution from these releases to common property fisheries is 736,000 fish. Returns of fall chum salmon to the Taku River are expected to be minimal, similar to recent seasons.

**Pink Salmon**

Returns of pink salmon to District 11 systems are expected to be average in 2019. Parent-year pink salmon escapements to District 11 generally met management targets in 2017. The total number of pink salmon counted through the Taku River Canyon Island fish wheels in 2017 was 135% of the recent ten odd-year average indicating above average escapement to the Taku River.

**Coho Salmon**

The 2019 run of Taku River coho salmon is expected to be below average. The terminal run forecast, based on a smolt estimate with a three-year average marine survival applied, is 73,000 fish. This compares to a recent 10-year average terminal run of 116,000 fish. Taku River coho salmon harvest sharing provisions, which are part of the current 2019-2028 TBR Annex of the PST, do not allow for any harvest by the U.S., unless the terminal run size is in excess of 75,000 fish. DIPAC projects a 2019 return of 62,000 hatchery coho salmon from their smolt releases into Gastineau Channel.

**MANAGEMENT GOALS**

Management goals for the 2019 Taku/Snettisham drift gillnet fishery are as follows:

1. Provide sufficient salmon spawning escapements to Taku River, Port Snettisham, and Stephens Passage streams while harvesting those fish in excess of escapement needs;
2. Manage the fishery consistent with current provisions of the PST;
3. Maximize the harvest of hatchery-produced chum salmon returning to Limestone Inlet while minimizing the incidental harvest of Port Snettisham wild sockeye salmon;
4. Manage the return of Port Snettisham enhanced sockeye salmon consistent with the District 11: Snettisham Hatchery Salmon Management Plan (5 AAC 33.378);
5. Manage the Speel Lake sockeye salmon run to achieve an escapement of 4,000–9,000 spawners.

**MANAGEMENT PLAN**

The District 11 drift gillnet fishery will be managed in accordance with the TBR Annex of the PST. Harvest sharing arrangements for Chinook, sockeye, and coho salmon through the 2028 fishing season are specified in the annex.

**Chinook Salmon**

The preseason forecast is well below the escapement goal range and requires a conservative management approach for the 2019 Taku River Chinook salmon run. The forecast does not provide any AC for U.S. fisheries in early May, no assessment fishery will occur on the Canada side of the border, and the joint U.S./Canada inriver assessment project on the U.S. side of the border will be minimized to reduce the handling of fish. Inseason abundance estimates derived from comparisons of inriver tangle net CPUE may be available in mid- to late May. However, inseason assessment may cease if the run does not appear large enough to allow the additional handling of fish.
Sockeye Salmon

Section 11-B will open for directed sockeye salmon fishing on the third Sunday in June (June 16) for a two-day fishing period with an area restriction closing waters in Taku Inlet north of Point Greely and west of a line of longitude running midinlet from the latitude of Point Greely to a point where it intersects with the shoreline south of Grand Island. A six-inch maximum mesh size restriction and night closures will be in effect. The second opening will likely have identical restrictions to the first. The maximum mesh size restriction and night closures will remain in place through at least the third opening and area may be liberalized during the third opening to have only those waters in the northern portion of Taku Inlet closed (for example, north of Cooper Point). Subsequent openings will be based on inseason fishery performance and stock assessment information, but Taku Inlet will likely only open for two days through the fourth opening and waters north of Jaw Point will be closed for the fourth and fifth openings.

The District 11 fishery will be managed through mid-August primarily based on sockeye salmon abundance. Run strength will be evaluated using harvest and CPUE data, and weekly inriver run size estimates derived from the Taku River fish wheel mark–recapture project. The inriver run size estimates produced from this project will incorporate a 22% dropout rate this season which will give more confidence that the run size is not being overestimated and allow managers to more fully consider AC targets on a weekly basis. This may allow for increased opportunity on Taku River sockeye salmon if weekly AC is considerable. Contribution of enhanced stocks of sockeye salmon will be estimated inseason by analysis of salmon otoliths sampled from the commercial harvests. The age and stock compositions of the commercial harvest of wild sockeye salmon will be estimated after the fishing season by scale pattern and GSI analysis.

The returns of Port Snettisham enhanced sockeye salmon will be managed according to the District 11: Snettisham Hatchery Salmon Management Plan. The plan provides basic guidelines for managing enhanced sockeye salmon production from Port Snettisham including the following provisions in order of priority:

1. Sustainable production of wild sockeye salmon from Crescent and Speel lakes;
2. Manage Port Snettisham enhanced sockeye salmon returns in a manner that does not prevent achieving escapement goals or PST harvest sharing agreements for Taku River salmon stocks;
3. Assessment programs shall be conducted to estimate Port Snettisham wild sockeye salmon stock escapements and contributions of enhanced sockeye salmon to the District 11 commercial fishery;
4. Common property harvests in the Speel Arm SHA shall be conducted by limiting time and area to protect wild sockeye salmon returns.

Management of the fishery in Stephens Passage will focus on conservation of Port Snettisham wild sockeye salmon stocks, particularly in July. ADF&G intends to implement a six-inch minimum mesh size restriction in Section 11-B south of Circle Point in order to limit harvest rates on Port Snettisham wild sockeye salmon while allowing harvest of enhanced chum salmon returning to the Limestone Inlet remote release site. The mesh restriction in Section 11-B may be relaxed at the end of July or after the peak migration timing of Port Snettisham wild sockeye salmon stocks through Stephens Passage.

A personal use fishery will be allowed in Sweetheart Creek to ensure enhanced sockeye salmon returns to this site are fully utilized. Sweetheart Creek is naturally blocked to anadromous fish...
migration several hundred yards upstream from the mouth. The Sweetheart Creek personal use fishery will be open seven days per week starting June 1.

In order to avoid conflicts with sport fisheries, the District 11 drift gillnet fishery will not be open concurrent with the 2019 Juneau Golden North Salmon Derby (August 16–18) and will not open until Monday, August 19.

**Pink Salmon**

Pink salmon are harvested in Section 11-B incidental to sockeye and enhanced summer chum salmon fisheries. Fishing time for a directed pink salmon fishery in Section 11-C will depend on the strength of pink salmon returns to lower Stephens Passage, Seymour Canal, and the northern portions of District 10. Returns will be closely monitored, but an opening in Section 11-C is unlikely based on poor parent-year escapements to Seymour Canal and District 10 mainland systems.

**Coho Salmon**

Beginning in mid-August, management of the Taku/Snettisham drift gillnet fishery will be based primarily on the run strength of Taku River coho salmon. In 2015, a point escapement goal of 70,000 Taku River coho salmon with a range of 50,000–90,000 fish was adopted by the TBR Panel. Inseason management will be based on evaluation of the fishery catch, effort, and CPUE relative to historical levels, inriver run size estimates from the Taku River mark-recapture project, and recovery of CWT Taku River wild and hatchery coho salmon in marine fisheries. The preseason terminal run forecast of Taku River coho salmon is below the level at which harvest sharing provisions for the U.S. begin, so openings could be limited if inseason estimates are similar to the forecast.

**LYNN CANAL FISHERY**

**INTRODUCTION**

The Lynn Canal drift gillnet fishery operates in the waters of District 15 and is divided into three regulatory sections: 15-A (upper Lynn Canal), 15-B (Berners Bay), and 15-C (lower Lynn Canal). This fishery has historically targeted sockeye salmon from late June through September and fall chum and coho salmon from mid-August to mid-October. In recent decades, the fishery has harvested substantial numbers of hatchery summer chum salmon in Section 15-C returning to DIPAC release sites at Boat Harbor and Amalga Harbor THAs. Section 15-B has only opened once in the last 10 years to target coho salmon.

**2019 OUTLOOK**

**Chinook Salmon**

The 2019 preseason total run forecast of Chilkat River Chinook salmon is 1,000 large fish, below the escapement goal range of 1,750–3,500 large fish. The Chilkat River Chinook salmon stock was designated as a stock of concern at the 2018 BOF meeting after multiple years (2012–2014 and 2016–2018) of failing to achieve escapement goals.
**Sockeye Salmon**

Wild sockeye salmon returning to the Chilkat and Chilkoot lakes make up the majority of sockeye salmon harvest in District 15, with additional contribution from the Chilkat River mainstem stock.

The parent years for the 2019 return to Chilkat Lake had escapements of 116,000 in 2013 and 70,500 in 2014, near the midpoint and lower bound of the escapement goal range of 70,000–150,000 fish. Zooplankton prey observations during the first summer of lake rearing for these brood years indicated above average abundances of copepods and cladocerans. The parent-year escapements and zooplankton abundance suggest an average return of sockeye salmon to Chilkat Lake in 2019.

The Chilkoot Lake escapement estimates during the dominant parent brood years (2013–2015) for the 2019 return were 46,000, 106,000, and 72,000 sockeye salmon, respectively. The sustainable escapement goal (SEG) range for Chilkoot River sockeye salmon is 38,000–86,000 fish. The 2015 escapement was one of the highest on record for the dominant age class of age-1.3 fish. Zooplankton prey observations during the first summer of lake rearing for these brood years and the fall presmolt estimates from hydroacoustic observations were well above average. Fair to strong parent-year escapements and strong zooplankton and presmolt estimates suggest an average to above average run of sockeye salmon to Chilkoot Lake in 2019.

**Chum Salmon**

Approximately 2.8 million summer chum salmon are forecasted to return to DIPAC release sites at Boat Harbor and Amalga Harbor THAs in 2019. The commercial harvest is expected to be approximately 1.1 million chum salmon in District 15. This forecast is well above the 10-year and long-term historical averages.

The parent-year escapement for the 2019 Chilkat River fall chum salmon run was estimated to be 205,000 fish, within the SEG range of 75,000–250,000 fish. The 2019 fall chum salmon returns to the Chilkat River are expected to be average.

**Coho Salmon**

The Chilkat River is the largest source of commercial coho salmon harvest in Lynn Canal with additional contributions from Berners River and other streams in Lynn Canal and Stephens Passage. Parent-year escapements for the 2019 return to the Chilkat River were estimated at 47,300 in 2015 and 26,300 fish in 2016, within and below the BEG range of 30,000–70,000 fish. Parent-year escapements for the 2019 return of coho salmon to Berners River were 9,900 and 6,700 fish, respectively, within and above the BEG range of 3,600–8,100 spawners. A record low 2018 jack return to Auke Creek and a record low CPUE of juvenile coho salmon in NOAA trawl surveys in Icy and upper Chatham straits in 2018, indicate that coho salmon returns to Lynn Canal will likely be below average, consistent with a recent downturn in marine survival.

**Pink Salmon**

The 2019 pink salmon returns to the northern Southeast Alaska inside waters are expected to be below average. Although parent-year pink salmon escapements throughout the northern part of the region were above average, juvenile pink salmon CPUE from the 2018 NOAA trawl surveys in Icy and Chatham straits was the second lowest on record next to 2017. If returns are stronger than expected, the department will consider opening areas within District 15 to harvest excess pink salmon.
MANAGEMENT GOALS

The overall management goal is to achieve desired spawning escapement levels while harvesting the available surplus for long-term maximum sustainable yield of all Lynn Canal salmon stocks. Chinook, chum, and coho salmon escapement to the Chilkat River drainage are observed through fish wheel catches and final sockeye salmon escapements to Chilkat and Chilkoot lakes are estimated by fish weir counts. Specific goals include:

1. Minimize Chinook salmon harvest in the drift gillnet fishery in Lynn Canal to increase escapement and attempt to meet the goal of 1,850–3,600 Chinook salmon in the Chilkat River in accordance with the Lynn Canal and Chilkat River Chinook Salmon Fishery Management Plan (5 AAC 33.384) and the Chilkat River and King Salmon River King Salmon Stock Status and Action Plan, 2018 (Lum and Fair 2018).
2. Achieve sockeye salmon escapement goals to Chilkat and Chilkoot lakes.
3. Achieve chum salmon escapement goals to Chilkat River.
4. Achieve coho salmon escapement goals to Chilkat River.
5. Harvest DIPAC hatchery-produced chum salmon available in the Boat Harbor THA while conserving wild Chinook and chum salmon and achieving sockeye salmon escapement goals.

MANAGEMENT PLAN

The gillnet fishery in Lynn Canal, District 15, will begin at noon on June 16 (SW 25) and will be managed according to the Lynn Canal and Chilkat River King Salmon Fishery Management Plan (5 AAC 33.384), the Policy for the management of mixed stock salmon fisheries (5 AAC 39.220), and the Board of Fisheries guidelines reported in the Chilkat River and King Salmon River King Salmon Stock Status and Action Plan, 2018 (Lum and Fair 2018).

Chinook Salmon

The preseason forecast for Chilkat River Chinook salmon is projected to be below the minimum inriver escapement goal range in 2019. The BOF adopted an action plan in 2018 to reduce the harvest of Chinook salmon returning to the Chilkat River. Management actions in 2018 again failed to achieve the Chilkat River Chinook salmon BEG. Therefore, the management strategy in 2019 will focus on minimizing harvests of these Chilkat River stocks by employing a more conservative management approach.

Conservation measures implemented by the department to minimize Chinook salmon harvest may include a six-inch maximum mesh size restriction and night closures from 10:00 p.m. to 4:00 a.m. districtwide through July 13 (SWs 25–28). Time and area restrictions outlined in the following sections will also be implemented to minimize the harvest of Chinook salmon.

Sockeye Salmon

Sockeye salmon are typically caught throughout District 15 starting in the first week of the season (SW 25). Chilkoot Lake sockeye salmon are usually first to enter Lynn Canal followed by the Chilkat Lake stock, which are present throughout the sockeye salmon management season. Sockeye salmon are targeted in Sections 15-A and 15-C and incidentally caught while targeting chum salmon in Section 15-C.
Area restrictions that will influence sockeye salmon harvest in Section 15-A include closing the area north of Eldred Rock Lighthouse during SWs 25–29 (June 16–July 20) and by implementing and exceeding conservation measures of the *Lynn Canal and Chilkat River King Salmon Fishery Management Plan*. Furthermore, the area west of a line from Eldred Rock Light to a point 2.0 nmi from the eastern shoreline at 58°51.00′ N. latitude, 135°12.77′ W. longitude, will also be closed through SW 29.

In Section 15-C, time and area restrictions that may influence sockeye salmon harvest include limiting the open waters area to the “Postage Stamp” for a maximum of two days through July 6 (SW 27). The “Postage Stamp” area is defined as:

The waters of Section 15-C south of the latitude of Vanderbilt Reef light and east of a line from Vanderbilt Reef Light to Little Island Light.

After SW 26 in Section 15-C, and after SW 29 in Section 15-A, the Chilkat Chinook salmon run is mostly through the area and traditional Lynn Canal management practices will begin based on inseason observations of Chinook salmon returns to the Chilkat River and sockeye salmon returns to Chilkat and Chilkoot lakes.

**Chum Salmon**

The majority of the summer chum salmon harvest in lower Lynn Canal (Section 15-C) is comprised of hatchery fish returning to the DIPAC release site at the Boat Harbor THA. Area, time, and gear restrictions outlined in previous sections to minimize Chinook salmon retention will likely impact the fleet’s ability to harvest chum salmon outside the Boat Harbor THA. The Chilkat River fall chum salmon run begins in late August. The run will be monitored by evaluation of harvest in the District 15 drift gillnet fishery. If the indications are for a strong run, fishing area may be expanded to include the Chilkat Inlet in Section 15-A.

**Coho Salmon**

The Chilkat River coho salmon run begins in late August. The run will be monitored by evaluation of harvest in the District 15 drift gillnet fishery and by fish wheel catches. If the indications are for a strong run, fishing area may be expanded to include the Chilkat Inlet in Section 15-A.

**Pink Salmon**

Pink salmon start their return to Lynn Canal in the beginning of July and are caught incidentally when targeting sockeye salmon. If the pink salmon return is strong as indicated by aerial surveys and there are no sockeye salmon concerns, Lutak Inlet may be opened to target pink salmon.

**TERMINAL HARVEST AREA FISHERIES**

During the 2019 season, drift gillnet terminal area fisheries can be expected in Deep Inlet, Neets Bay, Nakat Inlet, Anita Bay, and Boat Harbor to harvest salmon returning to DIPAC, NSRAA, and SSRAA enhancement facilities. Openings in the Speel Arm SHA are contingent on meeting the sockeye salmon escapement goal for Speel Lake.
Northern Southeast Regional Aquaculture Association
Terminal Area Fisheries

The terminal hatchery fishery at Deep Inlet will be managed jointly with NSRAA and according to a management plan adopted by the BOF. Drift gillnet open fishing times and any modifications of the terminal fishing area will be announced by ADF&G news release prior to and during the fishing season.

Deep Inlet Terminal Harvest Area—[5 AAC 33.376]

NSRAA expects runs of 2,144,000 chum, 35,300 Chinook, and 78,000 coho salmon to the Deep Inlet remote release site and the Medvejie Hatchery in 2019. This season, 100,000 chum salmon are needed for broodstock and NSRAA does not anticipate cost recovery operations in the Deep Inlet THA. A portion of the Deep Inlet THA may be closed in late August to facilitate broodstock collection for the Medvijie facility. The majority of the common property harvest can be expected to take place in the Deep Inlet THA by drift gillnet and purse seine gear, but some harvest is likely to occur outside the THA by troll and purse seine gear as well.

The Deep Inlet THA fishery will be managed in accordance with the District 13: Deep Inlet Terminal Harvest Area Salmon Management Plan (5 AAC 33.376). The plan provides for distribution of the harvest of hatchery-produced salmon between the purse seine and drift gillnet fleets. The Alaska Board of Fisheries, during its January 2018 meeting, passed regulations requiring the time ratio for gillnet openings to seine openings as 1:1 for the 2019–2020 seasons.

For the 2019 season (June 2 to September 28) drift gillnet fishing is scheduled on Monday, Tuesday, and Wednesday, and purse seine fishing is scheduled on Sunday, Thursday, and Friday of each week. The troll fishery will be open on Saturdays of each week from June 2 through September 28 and during time periods when net fisheries are closed. The Deep Inlet THA west of 135°20.75′ W. longitude will be closed to purse seine and drift gillnet gear beginning with the first emergency order of the season through June 15. Details of the rotational fishery schedule for Deep Inlet were announced in a separate ADF&G News Release issued on April 12, 2019. When changes are necessary, the revised schedule will be issued in a subsequent news release.

Regulations allow ADF&G to require that commercial drift gillnets fished in the Deep Inlet THA prior to July 1 have a minimum mesh size of six inches. In 2019, drift gillnet fishermen will be required to fish with a minimum mesh size of six inches through June 15. The purpose of the minimum mesh restriction is to reduce the harvest of local wild sockeye salmon returning to Silver Bay that are passing through the Deep Inlet THA.

The Deep Inlet THA is described as follows:

Deep Inlet THA: Deep Inlet, Aleutkina Bay, and contiguous waters south of a line from a point west of Pirates Cove at 56°59.35′ N. latitude, 135°22.63′ W. longitude to the westernmost tip of Long Island to the easternmost tip of Long Island to the westernmost tip of Emgeten Island to the westernmost tip of Error Island to the westernmost tip of Berry Island to the southernmost tip of Berry Island to the westernmost tip of the southernmost island in the Kutchuma Island group to the easternmost tip of the southernmost island in the Kutchuma Island group to the westernmost tip of an unnamed island at 57°00.30′ N. latitude, 135°17.67′ W. longitude to a point on the southern side of the unnamed island at 57°00.08′ N. latitude, 135°16.78′ W. longitude and then to a point...
on the Baranof Island Shore at 56°59.93’ N. latitude, 135°16.53’ W. longitude, with the following restrictions: all waters of Sandy Cove and Leesofskaiia Bay will be closed. The Deep Inlet THA west of 135°20.75’ W. longitude will be closed to purse seine and drift gillnet gear beginning with the first emergency order of the season through the third Saturday in June.

In order to promote full utilization of salmon, to prevent waste of salmon, to determine harvest patterns of incidentally harvested coho and sockeye salmon, and to allow full and accurate reporting of returns, the Deep Inlet THA fishery will be managed in 2019 by emergency order under authority of 5 AAC 39.325, Full Retention and Utilization of Salmon. This requires that all salmon harvested in net fisheries are retained, utilized, and reported on fish tickets whether they are sold or retained for personal use.

In early September, the Deep Inlet THA boundaries may be adjusted by ADF&G to reduce harvest of wild coho salmon returning to Salmon Lake or hatchery coho salmon returning to Medvejie Hatchery needed for broodstock. THA boundary adjustments to protect coho salmon will be based on historical run timing and inseason observations of abundance. Since voluntary compliance with reporting of coho salmon in the Deep Inlet Terminal Harvest Area fishery has in the past been poor, and ADF&G needs detailed information on coho and sockeye salmon harvest patterns, personnel from ADF&G or AWT may board some vessels and conduct hold inspections to ensure compliance, or department staff may board some vessels in order to sample marked coho for coded wire tags.

Fishermen are reminded to be respectful of the rights of property owners who reside in the vicinity of the Deep Inlet THA. If complaints occur and are substantiated during the 2019 season, ADF&G in consultation with NSRAA, may respond to complaints by changing scheduled fishing times or fishing boundaries of the Deep Inlet THA.

**SOUTHERN SOUTHEAST REGIONAL AQUACULTURE ASSOCIATION TERMINAL AREA FISHERIES**

The terminal hatchery fisheries at Neets Bay, Nakat Inlet, and Anita Bay will be managed jointly with SSRAA in accordance with management plans adopted by the BOF. The open drift gillnet fishing times will be announced by news release prior to and during the fishing season. These openings are subject to change during the season by emergency order if necessary.

**Neets Bay Terminal Harvest Area—[5 AAC 33.370]**

ADF&G in consultation with SSRAA, shall manage Neets Bay to include those waters of Neets Bay east of the longitude of the easternmost point of Bug Island to the closed waters at the head of the bay. Regulations state that from the second Sunday in June through August 1, the Neets Bay THA shall include waters of Neets Bay east of the longitude of Chin Point to the closed waters at the head of the bay. The Neets Bay THA will not expand to the longitude of Chin Point in 2019 until July 1 due to wild stock Chinook concerns.

In 2019, SSRAA is expecting a total run of 1.9 million summer chum, 345,000 fall chum, 127,000 coho, and 16,000 Chinook salmon to return to Neets Bay.

The Neets Bay THA will not open May 1 as in previous years, but will be delayed until Saturday, June 15, 2019. Beginning at 12:00 noon, Monday, June 17 through 12:00 noon, Saturday, July 6, a rotational fishery according to the District 1: Neets Bay Hatchery Salmon
Management Plan will be conducted for the drift gillnet and purse seine fleets. Details of the 2019 season fishing schedule at Neets Bay will be announced in a separate ADF&G news release and can also be found on the SSRAA website.

For 2019, the net rotational fishing schedule will again be modified during SWs 24–26 allowing additional closures and modified lines to conserve Unuk River Chinook salmon. This loss of time and area will coincide with the period when Unuk River Chinook salmon are present in the area according to CWT data. The open fishing area for the Neets Bay THA will be restricted initially to those waters east of the mid bay line and then expand to those waters east of the easternmost tip of Bug Island.

It is anticipated that SSRAA will conduct cost recovery operations throughout the summer in the Neets Bay THA and additional rotational fisheries will not occur until cost recovery and broodstock needs have been met. Additional fisheries in Neets Bay will be announced by news release and opened by emergency order in consultation with SSRAA.

Nakat Inlet Terminal Harvest Area—[5 AAC 33.372]

The Nakat Inlet THA includes the waters of Nakat Inlet north of Surprise Point at 54°49.10′ N. latitude and west of 130°42.75′ W. longitude. For 2019, 255,000 summer chum, 197,000 fall chum, and 19,600 coho salmon are expected to return to Nakat Inlet. Peak chum salmon harvests from these releases are expected between early July and early August for summer chum and between late August to mid-September for fall chum and coho salmon.

The Nakat Inlet THA will be open from June 1 to November 10 concurrently to drift gillnet and troll gear. The 500-yard stream closure regulation [5 AAC 39.290 (1)] will remain in effect.

Crystal Lake Terminal Harvest Area—[5 AAC 33.381]

The projected Crystal Lake Chinook salmon run is 3,100 adults, of which 1,500 fish are expected to reach the Wrangell Narrows-Blind Slough (District 6) terminal area. Under provisions of the District 6: Wrangell Narrows-Blind Slough Terminal Harvest Area Salmon Management Plan, the commercial fishery will be open to harvest 50% of the projected terminal run over 4,000 fish. Based on the forecast, there is not likely to be surplus available for commercial troll or drift gillnet harvest in the terminal area in 2019.

The total Crystal Lake Hatchery coho salmon run is expected to be 3,900 fish. An estimated 1,200 fish are expected to reach the Wrangell Narrows-Blind Slough terminal area. No commercial drift gillnet fishery is anticipated in the THA in 2019.

Anita Bay Terminal Harvest Area— [5 AAC 33.383]

Anita Bay THA consists of the waters west of a line from Anita Point at 56°13.68′ N. latitude, 132°22.48′ W. longitude to a point on the northern shore at 56°14.26′ N. latitude, 132°23.94′ W. longitude. The initial opening of Anita Bay will be delayed until June 1 to mitigate potential harvest of wild Chinook salmon. To help offset an allocation imbalance, the SSRAA Board voted to close the outer portion of Anita Bay to net gear from June 1 to June 13 north and east of a line from 56°12.90′ N. latitude, 132°24.51′ W. longitude to 56°12.75′ N. latitude, 132°23.50′ W. longitude.

For 2019, 535,800 summer chum, 15,700 Chinook, and 9,200 coho salmon are forecasted to return. The Anita Bay THA will open to harvest salmon by troll, drift gillnet, and purse seine from 12:01 a.m., Saturday, June 1 through 12:00 noon, Sunday, November 10. A rotational
fishery will begin for drift gillnet and purse seine fleets as described in the District 7: Anita Bay Terminal Harvest Area Salmon Management Plan. This rotational fishing period will be in place for the duration of the 2019 season. Details of this schedule were developed by SSRAA and are available on their website, ssraa.org, and by ADF&G news release.

**DOUGLAS ISLAND PINK AND CHUM INC. TERMINAL AREA FISHERIES**

**Boat Harbor Terminal Harvest Area**

The Boat Harbor THA is defined as waters within 2.0 nmi of the western shoreline of Lynn Canal south of the latitude of Danger Point at 58°41.73′ N. latitude and north of a point 2.4 nmi north of Point Whidbey at 58°37.05′ N. latitude.

The 2019 projection for the combined Amalga Harbor SHA and Boat Harbor THA enhanced chum salmon return is 2.8 million fish; 737,000 returning to Boat Harbor THA. The common property harvest of the total 2019 return is estimated to be 1.8 million chum salmon.

The BHTHA will open by regulation on the third Sunday in June for commercial harvest of DIPAC hatchery summer chum salmon. Due to Chinook salmon conservation concerns, intended management actions that may influence the harvest of hatchery chum salmon include time, area, and gear restrictions. Restrictions include limiting the open outer waters within 1.0 nmi of the shoreline for two days per week with a maximum mesh size restriction of six inches through July 6. Depending on aerial survey observations of wild chum salmon strength returning to the Endicott River, the Boat Harbor THA northern boundary may be reduced to the latitude of Danger point.

**Speel Arm Special Harvest Area**

The forecast total run of Snettisham Hatchery sockeye salmon in 2019 is 230,000 fish which is 96% of the 2018 total run of 239,000 fish. These fish will be principally harvested in the traditional District 11 commercial drift gillnet fishery. Common property fishery openings may occur during August in Speel Arm SHA, which is located in the waters of Speel Arm north of 58°03.42′ N. latitude. Timing of openings in the SHA will depend on DIPAC’s progress toward broodstock goals and the sockeye salmon escapement into Speel Lake. DIPAC cost recovery efforts in the SHA during July will be limited to waters in the immediate vicinity of the hatchery where wild and hatchery stocks are well segregated. Fishery management decisions for the Speel Arm SHA will be made jointly by ADF&G and DIPAC. ADF&G and industry have formalized the notification procedure for any extended fishery openings in Speel Arm. The SEAK Drift Gillnet Task Force agreement specified:

1. That ADF&G include notice in the *Southeast Alaska Drift Gillnet Fishery Management Plan* that extended openings in Speel Arm could be expected on short notice once Speel Lake escapement goals are met;

2. That ADF&G include notice in the regionwide news release on or near the end of July that extended openings in Speel Arm could be expected on short notice once Speel Lake escapement goals are met;

3. If an announcement is made for extended fishing time in Speel Arm, ADF&G shall provide a minimum of six hours of notice from the time the fishery is announced to the time the fishery opens.
REFERENCES CITED


FISHERY CONTACTS

The following people are Division of Commercial Fisheries contacts for this management plan:

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowell Fair</td>
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</tr>
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<tr>
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<td>(907) 465-4236</td>
</tr>
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The following is a list of telephone numbers that may be called during the gillnet fishing season to obtain recorded announcements concerning areas open to gillnet fishing:

Ketchikan: (907) 225-6870
Haines: (907) 766-2830
TABLES AND FIGURES
Table 1.–Southeast Alaska commercial drift gillnet salmon harvest, in numbers, by area, harvest type and species, 2018.

<table>
<thead>
<tr>
<th>Fishery</th>
<th>Chinook</th>
<th>Sockeye</th>
<th>Coho</th>
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<td>Terminal Harvest Area</td>
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<td>24,767</td>
<td>322</td>
<td>1,117</td>
<td>708</td>
<td>26,958</td>
</tr>
<tr>
<td><strong>District 13</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminal Harvest Area</td>
<td>3,153</td>
<td>313</td>
<td>10,758</td>
<td>21,074</td>
<td>310,642</td>
<td>345,940</td>
</tr>
<tr>
<td><strong>District 15</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traditional (Lynn Canal)</td>
<td>1,067</td>
<td>73,184</td>
<td>45,493</td>
<td>16,018</td>
<td>703,602</td>
<td>839,364</td>
</tr>
<tr>
<td>Terminal Harvest Area</td>
<td>89</td>
<td>8,504</td>
<td>162</td>
<td>6,236</td>
<td>338,874</td>
<td>353,865</td>
</tr>
<tr>
<td><strong>Subtotals</strong></td>
<td>9,321</td>
<td>192,160</td>
<td>237,381</td>
<td>516,467</td>
<td>1,718,571</td>
<td>2,673,900</td>
</tr>
<tr>
<td>Traditional Harvest Areas</td>
<td>11,955</td>
<td>34,547</td>
<td>21,502</td>
<td>39,903</td>
<td>807,449</td>
<td>915,356</td>
</tr>
<tr>
<td><strong>Common Property Total</strong></td>
<td>21,276</td>
<td>226,707</td>
<td>258,883</td>
<td>556,370</td>
<td>2,526,020</td>
<td>3,589,256</td>
</tr>
<tr>
<td>Hatchery Cost Recovery</td>
<td>0</td>
<td>3,486</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3,486</td>
</tr>
<tr>
<td>Annette Island</td>
<td>1,120</td>
<td>1,803</td>
<td>14,068</td>
<td>126,356</td>
<td>152,300</td>
<td>295,647</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>22,396</td>
<td>231,996</td>
<td>272,951</td>
<td>682,726</td>
<td>2,678,320</td>
<td>3,888,389</td>
</tr>
</tbody>
</table>

*Chinook salmon harvest includes jacks.*
Table 2.—Southeast Alaska annual District 1 traditional and terminal harvest areas (Nakat Inlet, Neets Bay) drift gillnet salmon harvest, in numbers, by species, 2008 to 2018.

<table>
<thead>
<tr>
<th>Year</th>
<th>Chinook</th>
<th>Sockeye</th>
<th>Coho</th>
<th>Pink</th>
<th>Chum</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>4,059</td>
<td>34,915</td>
<td>97,599</td>
<td>275,654</td>
<td>319,718</td>
<td>731,945</td>
</tr>
<tr>
<td>2009</td>
<td>4,922</td>
<td>70,607</td>
<td>68,522</td>
<td>174,052</td>
<td>339,159</td>
<td>657,262</td>
</tr>
<tr>
<td>2010</td>
<td>3,302</td>
<td>64,747</td>
<td>99,081</td>
<td>597,138</td>
<td>458,622</td>
<td>1,222,890</td>
</tr>
<tr>
<td>2011</td>
<td>4,661</td>
<td>91,825</td>
<td>36,183</td>
<td>357,811</td>
<td>566,508</td>
<td>1,056,988</td>
</tr>
<tr>
<td>2012</td>
<td>4,024</td>
<td>64,394</td>
<td>73,576</td>
<td>217,281</td>
<td>757,675</td>
<td>1,116,950</td>
</tr>
<tr>
<td>2013</td>
<td>4,483</td>
<td>55,948</td>
<td>111,133</td>
<td>763,434</td>
<td>329,680</td>
<td>1,264,678</td>
</tr>
<tr>
<td>2014</td>
<td>4,473</td>
<td>57,192</td>
<td>116,437</td>
<td>763,838</td>
<td>274,202</td>
<td>1,216,142</td>
</tr>
<tr>
<td>2015</td>
<td>3,347</td>
<td>29,173</td>
<td>58,004</td>
<td>157,016</td>
<td>820,271</td>
<td>1,067,811</td>
</tr>
<tr>
<td>2016</td>
<td>3,110</td>
<td>41,288</td>
<td>50,021</td>
<td>608,351</td>
<td>448,724</td>
<td>1,151,494</td>
</tr>
<tr>
<td>2017</td>
<td>3,648</td>
<td>25,997</td>
<td>43,359</td>
<td>240,143</td>
<td>338,617</td>
<td>651,764</td>
</tr>
<tr>
<td>2018</td>
<td>4,275</td>
<td>20,812</td>
<td>44,120</td>
<td>124,356</td>
<td>305,726</td>
<td>597,872</td>
</tr>
<tr>
<td>Average 2008–2017</td>
<td>3,844</td>
<td>57,826</td>
<td>74,045</td>
<td>427,556</td>
<td>470,430</td>
<td>1,033,701</td>
</tr>
</tbody>
</table>

*Chinook salmon harvest includes jacks.

Table 3.—Southeast Alaska annual Prince of Wales (District 6) traditional drift gillnet salmon harvest, in numbers, by species, 2008 to 2018.

<table>
<thead>
<tr>
<th>Year</th>
<th>Chinook</th>
<th>Sockeye</th>
<th>Coho</th>
<th>Pink</th>
<th>Chum</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>1,619</td>
<td>30,533</td>
<td>116,074</td>
<td>90,217</td>
<td>102,156</td>
<td>340,599</td>
</tr>
<tr>
<td>2009</td>
<td>2,138</td>
<td>111,984</td>
<td>144,569</td>
<td>143,589</td>
<td>287,707</td>
<td>689,987</td>
</tr>
<tr>
<td>2010</td>
<td>2,473</td>
<td>112,450</td>
<td>225,550</td>
<td>309,795</td>
<td>97,948</td>
<td>748,216</td>
</tr>
<tr>
<td>2011</td>
<td>3,008</td>
<td>146,069</td>
<td>117,860</td>
<td>337,169</td>
<td>158,096</td>
<td>762,202</td>
</tr>
<tr>
<td>2012</td>
<td>1,853</td>
<td>45,466</td>
<td>121,418</td>
<td>129,646</td>
<td>104,307</td>
<td>402,690</td>
</tr>
<tr>
<td>2013</td>
<td>2,202</td>
<td>49,223</td>
<td>160,659</td>
<td>474,551</td>
<td>94,260</td>
<td>780,895</td>
</tr>
<tr>
<td>2014</td>
<td>2,092</td>
<td>58,430</td>
<td>286,815</td>
<td>415,392</td>
<td>106,243</td>
<td>868,972</td>
</tr>
<tr>
<td>2015</td>
<td>2,723</td>
<td>121,921</td>
<td>112,561</td>
<td>224,816</td>
<td>232,390</td>
<td>694,411</td>
</tr>
<tr>
<td>2016</td>
<td>2,094</td>
<td>106,649</td>
<td>122,101</td>
<td>358,309</td>
<td>130,236</td>
<td>719,389</td>
</tr>
<tr>
<td>2017</td>
<td>1,521</td>
<td>45,005</td>
<td>49,382</td>
<td>302,033</td>
<td>234,349</td>
<td>632,290</td>
</tr>
<tr>
<td>2018</td>
<td>3,247</td>
<td>25,203</td>
<td>112,000</td>
<td>348,277</td>
<td>176,392</td>
<td>665,119</td>
</tr>
<tr>
<td>Average 2008–2017</td>
<td>2,172</td>
<td>82,773</td>
<td>145,699</td>
<td>278,552</td>
<td>154,768</td>
<td>663,965</td>
</tr>
</tbody>
</table>

*Chinook salmon harvest includes jacks.
Table 4.—Southeast Alaska annual Stikine River (District 8) traditional drift gillnet salmon harvest, in numbers, by species, 2008 to 2018.

<table>
<thead>
<tr>
<th>Year</th>
<th>Chinook</th>
<th>Sockeye</th>
<th>Coho</th>
<th>Pink</th>
<th>Chum</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>14,599</td>
<td>35,679</td>
<td>34,479</td>
<td>18,105</td>
<td>81,876</td>
<td>184,738</td>
</tr>
<tr>
<td>2009</td>
<td>2,830</td>
<td>36,680</td>
<td>30,860</td>
<td>27,010</td>
<td>190,800</td>
<td>288,180</td>
</tr>
<tr>
<td>2010</td>
<td>2,359</td>
<td>32,737</td>
<td>42,772</td>
<td>58,610</td>
<td>51,005</td>
<td>187,483</td>
</tr>
<tr>
<td>2011</td>
<td>5,321</td>
<td>51,478</td>
<td>20,720</td>
<td>65,022</td>
<td>142,526</td>
<td>285,067</td>
</tr>
<tr>
<td>2012</td>
<td>8,027</td>
<td>21,997</td>
<td>20,100</td>
<td>16,374</td>
<td>240,569</td>
<td>307,067</td>
</tr>
<tr>
<td>2013</td>
<td>10,817</td>
<td>20,609</td>
<td>43,669</td>
<td>116,026</td>
<td>142,526</td>
<td>294,486</td>
</tr>
<tr>
<td>2014</td>
<td>8,023</td>
<td>19,808</td>
<td>30,184</td>
<td>33,830</td>
<td>176,616</td>
<td>285,067</td>
</tr>
<tr>
<td>2015</td>
<td>13,845</td>
<td>22,896</td>
<td>30,153</td>
<td>35,926</td>
<td>166,009</td>
<td>268,829</td>
</tr>
<tr>
<td>2016</td>
<td>10,024</td>
<td>70,143</td>
<td>22,146</td>
<td>35,250</td>
<td>200,653</td>
<td>338,216</td>
</tr>
<tr>
<td>2017</td>
<td>3,818</td>
<td>14,282</td>
<td>13,592</td>
<td>49,027</td>
<td>177,119</td>
<td>257,838</td>
</tr>
<tr>
<td>2018</td>
<td>2,649</td>
<td>5,731</td>
<td>8,823</td>
<td>15,643</td>
<td>133,812</td>
<td>166,658</td>
</tr>
</tbody>
</table>

Average 2008–2017

<table>
<thead>
<tr>
<th>Year</th>
<th>Chinook</th>
<th>Sockeye</th>
<th>Coho</th>
<th>Pink</th>
<th>Chum</th>
<th>Total</th>
</tr>
</thead>
</table>

* Chinook salmon harvest includes jacks.

Table 5.—Southeast Alaska annual Taku/Snettisham (District 11) traditional and terminal harvest area drift gillnet salmon harvest, in numbers, by species, 2008 to 2018.

<table>
<thead>
<tr>
<th>Year</th>
<th>Chinook</th>
<th>Sockeye</th>
<th>Coho</th>
<th>Pink</th>
<th>Chum</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>2,193</td>
<td>116,693</td>
<td>37,349</td>
<td>90,162</td>
<td>774,095</td>
<td>1,020,492</td>
</tr>
<tr>
<td>2009</td>
<td>6,800</td>
<td>62,070</td>
<td>36,615</td>
<td>56,801</td>
<td>918,350</td>
<td>1,080,636</td>
</tr>
<tr>
<td>2010</td>
<td>1,685</td>
<td>76,614</td>
<td>62,241</td>
<td>132,881</td>
<td>488,918</td>
<td>762,339</td>
</tr>
<tr>
<td>2011</td>
<td>2,510</td>
<td>163,896</td>
<td>28,574</td>
<td>344,766</td>
<td>667,929</td>
<td>1,207,675</td>
</tr>
<tr>
<td>2012</td>
<td>1,291</td>
<td>140,896</td>
<td>24,115</td>
<td>193,969</td>
<td>566,741</td>
<td>927,014</td>
</tr>
<tr>
<td>2013</td>
<td>1,224</td>
<td>207,231</td>
<td>51,441</td>
<td>127,346</td>
<td>726,849</td>
<td>1,114,088</td>
</tr>
<tr>
<td>2014</td>
<td>1,471</td>
<td>126,738</td>
<td>54,186</td>
<td>29,190</td>
<td>291,409</td>
<td>624,373</td>
</tr>
<tr>
<td>2015</td>
<td>1,150</td>
<td>83,431</td>
<td>23,572</td>
<td>206,575</td>
<td>475,456</td>
<td>880,184</td>
</tr>
<tr>
<td>2016</td>
<td>595</td>
<td>215,049</td>
<td>35,033</td>
<td>46,604</td>
<td>448,284</td>
<td>745,569</td>
</tr>
<tr>
<td>2017</td>
<td>1,086</td>
<td>113,818</td>
<td>16,002</td>
<td>230,243</td>
<td>885,694</td>
<td>1,246,843</td>
</tr>
<tr>
<td>2018</td>
<td>783</td>
<td>92,889</td>
<td>35,930</td>
<td>24,300</td>
<td>517,812</td>
<td>671,714</td>
</tr>
</tbody>
</table>

Average 2008–2017

<table>
<thead>
<tr>
<th>Year</th>
<th>Chinook</th>
<th>Sockeye</th>
<th>Coho</th>
<th>Pink</th>
<th>Chum</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008–2017</td>
<td>2,001</td>
<td>130,644</td>
<td>36,913</td>
<td>154,853</td>
<td>624,373</td>
<td>948,784</td>
</tr>
</tbody>
</table>

* Chinook salmon harvest includes jacks.
Table 6.–Southeast Alaska annual Lynn Canal (District 15) traditional and terminal harvest area drift gillnet salmon harvest, in numbers, by species, 2008 to 2018.

<table>
<thead>
<tr>
<th>Year</th>
<th>Chinook*</th>
<th>Sockeye</th>
<th>Coho</th>
<th>Pink</th>
<th>Chum</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>659</td>
<td>46,655</td>
<td>46,932</td>
<td>26,034</td>
<td>1,072,135</td>
<td>1,192,415</td>
</tr>
<tr>
<td>2009</td>
<td>681</td>
<td>126,594</td>
<td>35,820</td>
<td>163,057</td>
<td>845,710</td>
<td>1,171,862</td>
</tr>
<tr>
<td>2010</td>
<td>871</td>
<td>100,973</td>
<td>65,870</td>
<td>171,054</td>
<td>764,629</td>
<td>1,103,397</td>
</tr>
<tr>
<td>2011</td>
<td>1,178</td>
<td>63,788</td>
<td>33,776</td>
<td>508,930</td>
<td>1,115,821</td>
<td>1,723,493</td>
</tr>
<tr>
<td>2012</td>
<td>2,736</td>
<td>224,643</td>
<td>23,321</td>
<td>353,271</td>
<td>1,567,227</td>
<td>2,171,198</td>
</tr>
<tr>
<td>2013</td>
<td>1,148</td>
<td>122,103</td>
<td>68,009</td>
<td>127,703</td>
<td>1,509,501</td>
<td>1,828,464</td>
</tr>
<tr>
<td>2014</td>
<td>1,396</td>
<td>234,682</td>
<td>58,117</td>
<td>90,602</td>
<td>1,303,009</td>
<td>1,687,806</td>
</tr>
<tr>
<td>2015</td>
<td>523</td>
<td>131,577</td>
<td>23,456</td>
<td>629,209</td>
<td>836,831</td>
<td>1,621,596</td>
</tr>
<tr>
<td>2016</td>
<td>475</td>
<td>188,844</td>
<td>30,534</td>
<td>81,970</td>
<td>931,919</td>
<td>1,233,742</td>
</tr>
<tr>
<td>2017</td>
<td>1,205</td>
<td>39,716</td>
<td>29,829</td>
<td>191,253</td>
<td>1,575,039</td>
<td>1,837,042</td>
</tr>
<tr>
<td>2018</td>
<td>1,156</td>
<td>81,088</td>
<td>45,655</td>
<td>22,254</td>
<td>1,042,476</td>
<td>1,193,229</td>
</tr>
</tbody>
</table>

Average 2008–2017 1,087 127,958 41,566 234,308 1,152,182 1,557,102

*Chinook salmon harvest includes jacks.

Table 7.–Performance of the Tree Point drift gillnet fishery sockeye salmon harvest under the 1999 PST agreement.

<table>
<thead>
<tr>
<th>Year</th>
<th>Nass River Total Return</th>
<th>Nass River Escapement</th>
<th>Allowable NSS River AAH</th>
<th>Allowable Alaska Harvest (13.8%)</th>
<th>Actual Nass River Harvest</th>
<th>Cumulative: +overage / (-underage)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>842,806</td>
<td>200,000</td>
<td>642,806</td>
<td>88,707</td>
<td>129,794</td>
<td>41,087</td>
</tr>
<tr>
<td>2000</td>
<td>625,982</td>
<td>200,000</td>
<td>425,983</td>
<td>58,786</td>
<td>46,305</td>
<td>28,606</td>
</tr>
<tr>
<td>2001</td>
<td>580,611</td>
<td>167,258</td>
<td>413,358</td>
<td>57,043</td>
<td>55,096</td>
<td>26,659</td>
</tr>
<tr>
<td>2002</td>
<td>1,403,976</td>
<td>200,000</td>
<td>1,203,975</td>
<td>166,149</td>
<td>90,553</td>
<td>-48,937</td>
</tr>
<tr>
<td>2003</td>
<td>1,177,472</td>
<td>200,000</td>
<td>977,472</td>
<td>134,481</td>
<td>72,942</td>
<td>-110,886</td>
</tr>
<tr>
<td>2004</td>
<td>986,095</td>
<td>200,000</td>
<td>786,095</td>
<td>108,482</td>
<td>110,340</td>
<td>-109,027</td>
</tr>
<tr>
<td>2005</td>
<td>666,877</td>
<td>200,000</td>
<td>466,877</td>
<td>64,429</td>
<td>55,319</td>
<td>-118,137</td>
</tr>
<tr>
<td>2006</td>
<td>775,112</td>
<td>200,000</td>
<td>575,112</td>
<td>79,365</td>
<td>47,948</td>
<td>-149,555</td>
</tr>
<tr>
<td>2007</td>
<td>602,210</td>
<td>164,745</td>
<td>437,463</td>
<td>60,370</td>
<td>46,369</td>
<td>-163,555</td>
</tr>
<tr>
<td>2008</td>
<td>380,397</td>
<td>200,000</td>
<td>180,397</td>
<td>24,895</td>
<td>24,359</td>
<td>-164,091</td>
</tr>
<tr>
<td>2009</td>
<td>575,336</td>
<td>200,000</td>
<td>375,336</td>
<td>51,796</td>
<td>55,270</td>
<td>-160,618</td>
</tr>
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<td>438,941</td>
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<td>238,941</td>
<td>32,974</td>
<td>26,613</td>
<td>-166,979</td>
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<td>2011</td>
<td>556,710</td>
<td>200,000</td>
<td>356,710</td>
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<td>55,122</td>
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<td>2012</td>
<td>476,818</td>
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<td>276,818</td>
<td>38,201</td>
<td>38,983</td>
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<td>2013</td>
<td>501,428</td>
<td>200,000</td>
<td>301,428</td>
<td>41,597</td>
<td>35,471</td>
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<td>2014</td>
<td>549,685</td>
<td>200,000</td>
<td>349,685</td>
<td>48,257</td>
<td>29,023</td>
<td>-185,660</td>
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<tr>
<td>2015</td>
<td>868,744</td>
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<td>668,744</td>
<td>92,287</td>
<td>14,867</td>
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<td>2016</td>
<td>442,420</td>
<td>200,000</td>
<td>242,767</td>
<td>33,454</td>
<td>14,388</td>
<td>-282,147</td>
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<tr>
<td>2017</td>
<td>368,653</td>
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<td>168,653</td>
<td>23,274</td>
<td>12,445</td>
<td>-292,976</td>
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<td>2018*</td>
<td>315,985</td>
<td>200,000</td>
<td>115,985</td>
<td>16,006</td>
<td>11,303</td>
<td>-297,679</td>
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<tr>
<td>2019*</td>
<td>620,000</td>
<td>200,000</td>
<td>420,000</td>
<td>57,960</td>
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<td></td>
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</tbody>
</table>

*Preliminary Information

b FOC (Fisheries and Oceans Canada) forecast
Table 8.—Biological and sustainable escapement goals for Lynn Canal salmon stocks by species and location.

<table>
<thead>
<tr>
<th>Species</th>
<th>Stock</th>
<th>Escapement Goal Type</th>
<th>Escapement Goal Range</th>
<th>Escapement Method</th>
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<tbody>
<tr>
<td>Sockeye</td>
<td>Chilkoot Lake Total</td>
<td>SEG</td>
<td>38,000 to 86,000</td>
<td>Weir Count</td>
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<tr>
<td>Sockeye</td>
<td>Chilkat Lake Total</td>
<td>BEG</td>
<td>70,000 to 150,000</td>
<td>DIDSON Count</td>
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<td>Coho</td>
<td>Berners River</td>
<td>BEG</td>
<td>3,600 to 8,100</td>
<td>Peak Foot Count</td>
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<tr>
<td>Coho</td>
<td>Chilkat River Combined</td>
<td>BEG</td>
<td>30,000 to 70,000</td>
<td>Sum of Peak Foot Index Counts</td>
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<td>Chinook</td>
<td>Chilkat River Combined</td>
<td>BEG</td>
<td>1,750 to 3,500</td>
<td>Mark-Recapture Estimate</td>
</tr>
<tr>
<td>Fall Chum</td>
<td>Chilkat River Total</td>
<td>SEG</td>
<td>75,000 to 250,000</td>
<td>Fish wheel index</td>
</tr>
</tbody>
</table>

a Eggers et al. 2009  
b Shaul and Crabtree 2005  
c Ericksen and Fleischman 2006  
d Ericksen and McPherson 2004  
e Heinl et al. 2017
Figure 1.—Traditional drift gillnet fishing areas in Southeast Alaska.