



Washington  
Department of  
**FISH and  
WILDLIFE**



**Northwest  
Indian  
Fisheries  
Commission**

May 16, 2014

Mr. Phil Anderson  
Director  
Washington Department of Fish and Wildlife  
600 Capital Way North  
Olympia, Washington 98501-1091

Mr. Michael Grayum  
Executive Director  
Northwest Indian Fisheries Commission  
6730 Martin Way East  
Olympia, Washington 98516

Dear Mr. Anderson and Mr. Grayum:

Enclosed is the finalized summary fisheries document of the parties for 2014-15 management year that represents the result of negotiations between the Washington Department of Fish and Wildlife and the Northwest treaty tribes during the North of Falcon and Pacific Fisheries Management Council (PFMC) pre-season planning forums. This document contains summaries of agreed fishing arrangements for treaty and non-treaty salmon fisheries in the ocean north of Cape Falcon, Oregon and in Puget Sound. Further details, including stock-by-stock management objectives, may be found in the Puget Sound Chinook Harvest Management Plan approved by the National Marine Fisheries Service (NMFS) under the Endangered Species Act (ESA), in the respective parties' regulation summaries, in the Status Report documents (as required by the Puget Sound Salmon Management Plan), and other state-tribal understandings.

The fishing arrangements contained in this document are based on pre-season expectations of stock abundance and, in some instances, may be modified on the basis of information obtained in-season and by agreement between the parties. If any changes to the assumptions used to develop these fishing arrangements should occur that would significantly affect the achievement of the parties' agreed management objectives, the parties agree to meet to consider the need to make necessary changes to these fisheries. The agreed upon fisheries document includes non-treaty commercial and recreational fisheries, treaty commercial, and treaty ceremonial and subsistence fisheries. Individual treaty tribes may conduct additional ceremonial and subsistence fisheries not detailed in this agreement, consistent with provisions of the Puget Sound Salmon Management Plan. This document does not specifically address steelhead fishing plans.

Final Fishery Regulation Analysis Model (FRAM) model run summary tables appended to the agreed upon fisheries document provide our assessment of impacts on key natural coho and Chinook salmon populations.

Mr. Anderson and Mr. Grayum

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Certain in-season management aspects for the ocean treaty troll fishery remain unresolved at this time and are noted by bolded language within brackets. Tribal managers will continue to work on resolution of this issue.

Detailed descriptions of the management intent and descriptions of monitoring, sampling and enforcement activities for conducting Chinook mark-selective sport fisheries in the Puget Sound during the 2014-15 management year are also included and are a part of this fisheries agreement.

Sincerely,



Ron Warren  
Deputy Assistant Director  
Department of Fish and Wildlife



Craig Bowhay  
Fisheries Policy Analyst II  
Northwest Indian Fisheries Commission

Enclosure

cc: Northwest Tribal Fisheries Managers and Biologists  
Washington Fish and Wildlife Commissioners

gr 4/29/2014

CB 4/29/14

# **2014-15 Co-Managers' List of Agreed Fisheries**

**(May 1, 2014 – April 30, 2015)**

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(Bracketed and bolded language signifies areas where some unresolved issues remain. Additional Co-manager discussions will occur prior to the fisheries to resolve these remaining issues.)

**Part I. Treaty/Non-Treaty OCEAN Fisheries (FRAM #2814 (Chinook) & #1416 (Coho))**

Treaty Troll Quota	62,500 Chinook; 57,500 Coho
Non-treaty TAC	116,000 Chinook (non-mark selective equivalent of 111,500); 220,000 Coho.
NT Troll TAC	56,900 Chinook; Mark Selective Fishery impacts associated with a landed catch of 35,200 Coho
Recreational TAC	59,100 Chinook (includes non-selective quota of 50,100 and mark selective fishery impacts associated with a landed catch of 9,000 Chinook) and Mark Selective Fishery impacts associated with a landed catch of 184,800 Coho.

**1.1 Treaty Troll: Areas 2, 3, 4 & 4B**

5/1-6/30	Chinook directed fishery with sub quota of 31,250 Chinook. May 1 through June 30 or attainment of 31,250 Chinook sub quota, whichever comes first. All salmon except Coho. <b>[If the Chinook quota for the May-June fishery is not fully utilized, the excess fish may be transferred into the later all-salmon season on an impact-neutral basis for limiting stocks into the later all-salmon season.]</b> If the Chinook quota is exceeded, the excess will be deducted from the later all-salmon season.
7/1-9/15	All salmon species with sub quota of 31,250 Chinook plus any portion of uncaught Chinook rolled over from the May 1 <sup>st</sup> through June 30 <sup>th</sup> time period on an impact neutral basis <u>or</u> quota of 57,500 Coho whichever comes first. Chum release 8/1-9/15.

**1.2 Non-Treaty Troll: U.S./Canada border to Cape Falcon**

5/1- thru earliest of 6/30 or pre-season Chinook sub-quota of 37,900 (no more than 12,200 of which may be caught in the area between the U.S./Canada border and the Queets River)	All salmon except Coho with 37,900 Chinook quota; no more than 12,200 of which may be caught in the area between the U.S./Canada border and the Queets River; Open May 1-June 30, 7 days per week. An in-season conference call will occur when it is projected that 28,425 Chinook have been landed overall or 9,150 have been landed in the area between the U.S./Canada border and the Queets River to consider modifying the open period and adding landing and possession limits. Mandatory Yelloweye Rockfish Conservation Area, Columbia and Cape Flattery Control Zones closed. Trip limits, gear restrictions, and guidelines may be implemented or adjusted in-season. Vessels must land their fish within 24 hours of any closure of this fishery; under state law, vessels must report their catch on a state fish receiving ticket. Vessels in possession of salmon north of the Queets River may not cross the Queets River line without first notifying WDFW with area fished, total chinook and halibut catch
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aboard, and destination. Vessels in possession of salmon south of the Queets River may not cross the Queets River line without first notifying WDFW with area fished, total chinook and halibut catch aboard, and destination. Vessels fishing, or in possession of salmon while fishing north of Leadbetter Point must land and deliver their fish within the area and north of Leadbetter Point. Vessels fishing, or in possession of salmon while fishing south of Leadbetter Point must land and deliver their fish within the area and south of Leadbetter Point, except that Oregon permitted vessels may also land their fish in Garibaldi.

7/1 thru earliest of 9/16 or pre-season Chinook sub-quota of 19,000 (no more than 8,750 of which may be taken in the area between the U.S./Canada border and the Queets River) or Mark Selective Fishery quota of 35,200 Coho (no more than 5,040 of which may be taken in the area between the U.S./Canada border and the Queets River).

Open July 1-8, then Friday through Tuesday July 11 through August 19 with a landing and possession limit of 60 Chinook and 40 marked Coho per vessel per open period north of the Queets River or 60 Chinook and 60 marked Coho per vessel per open period south of the Queets River. Open Friday through Tuesday August 22 through September 16 with a landing and possession limit of 20 Chinook and 50 marked Coho per vessel per open period north of the Queets River or 20 Chinook and 50 marked Coho per vessel per open period south of the Queets River. All salmon, except no Chum retention north of Cape Alava, Washington in August and September (all retained Coho must have a healed adipose fin clip). Mandatory Yelloweye Rockfish Conservation Area, Cape Flattery and Columbia Control Zones, and beginning August 9, Grays Harbor Control Zone closed. Trip limits, gear restrictions, and guidelines may be implemented or adjusted in-season. Vessels must land their fish within 24 hours of any closure of this fishery. Under state law, vessels must report their catch on a state fish receiving ticket. Vessels in possession of salmon north of the Queets River may not cross the Queets River line without first notifying WDFW with area fished, total chinook, coho, and halibut catch aboard, and destination. Vessels in possession of salmon south of the Queets River may not cross the Queets River line without first notifying WDFW with area fished, total chinook, coho, and halibut catch aboard, and destination. Vessels fishing, or in possession of salmon while fishing north of Leadbetter Point must land and deliver their fish within the area and north of Leadbetter Point. Vessels fishing, or in possession of salmon while fishing south of Leadbetter Point must land and deliver their fish within the area and south of Leadbetter Point, except that Oregon permitted vessels may also land their fish in Garibaldi.

### 1.3 Non-Treaty Recreational

#### Area 1: Leadbetter Point to Cape Falcon (Oregon)

5/31-6/13 (9,000 Coastwide Mark Selective Fishery Chinook guideline)	Open 7 days per week; 2 fish per day; all salmon except Coho. All retained Chinook must have a healed adipose fin clip; Chinook minimum size limit 24 inches. In-season management may be used to sustain season length and keep harvest within the overall Chinook recreational TAC for north of Cape Falcon.
6/14-9/30 (92,400Mark Selective Fishery Coho sub quota)	Open 7 days per week; 2 fish per day, only one of which may be a Chinook; retained Coho must have a healed adipose fin clip; Chinook minimum size limit 24 inches and Coho minimum size 16"; Chinook guideline: 13,100; closed in Columbia Control Zone. In-season management may be used to sustain season length and keep harvest within the overall Chinook recreational TAC for north of Cape Falcon.

#### Buoy 10

8/1-8/29	Open 7 days/week; 2 fish per day, only one of which may be a Chinook; Chinook minimum size 24 inches and Coho minimum size 16 inches; retained Coho must have a healed adipose fin clip. Release all salmon other than Chinook and hatchery Coho. Barbless hooks only.
8/30-9/1	Open 7 days/week; 2 fish per day, only one of which may be a hatchery Chinook. Release all salmon other than hatchery Chinook and Coho. Chinook minimum size 24 inches and Coho minimum size 16 inches. Retained Chinook and Coho must have a healed adipose fin clip. In addition, Chinook with a left ventral fin clip may be retained. Barbless hooks only.
9/2-9/30	Open 7 days/week; 3 fish per day, 3 adults Coho minimum size 16 inches; retained Coho must have a healed adipose fin clip. Release all salmon other than hatchery Coho. Barbless hooks only.
10/1 – 12/31	Open 7 days/week; 6 fish per day, 2 adults (minimum size 12 inches); retained Coho must have a healed adipose fin clip. Release all salmon other than Chinook and hatchery Coho. Barbless hooks only.
1/1/2015-3/31/2015	Open 7 days/week; 6 hatchery Chinook per day, 2 adults (minimum size 12 inches); retained Chinook must have a healed adipose fin clip; release sockeye, Chum, Coho and wild Chinook. Barbless hooks only.
North Jetty	Open 7 days per week when Area 1 or Buoy 10 area is open. When Buoy 10 area and Area 1 are open concurrently, the daily limit and minimum size restrictions follow the most liberal regulations of those areas. Barbless hooks only.

**Area 2: Queets River to Leadbetter Point**

5/31-6/13 (9,000 Coastwide Mark Selective Fishery Chinook guideline)	Open 7 days per week; 2 fish per day; all salmon except Coho. All retained Chinook must have a healed adipose fin clip; Chinook minimum size limit 24 inches. In-season management may be used to sustain season length and keep harvest within the overall Chinook recreational TAC for north of Cape Falcon.
6/14-9/30 (68,380 Mark Selective Fishery Coho sub quota)	Open 7 days per week; 2 fish per day, only one of which may be a Chinook; retained Coho must have a healed adipose fin clip; Chinook minimum size limit 24 inches and Coho minimum size 16 inches; Chinook guideline: 27,600. In-season management may be used to sustain season length and keep harvest within the overall Chinook recreational TAC for north of Cape Falcon.

**Area 2-1 (east of a line from Leadbetter Point to Cape Shoalwater):**

**Willapa Bay**

5/31-7/31	Open concurrent with Area 2, when Area 2 is open for salmon. Area 2 rules apply.
8/1-1/31	6 fish limit, 3 adults, 12" min size limit. Release wild Chinook and Chum.

**Area 2-2 (east of line between tips of exposed jetties): Grays Harbor**

West of Buoy 13 line 5/31-8/10	Open concurrent with Area 2, when Area 2 is open for salmon. Area 2 rules apply.
East of Buoy 13 line, when open	All salmon required to be released may not be totally removed from the water, except anglers fishing from boats 30' or longer as listed on either their State or Coast Guard regulation are exempt. Single-point barbless hooks required.
East of Buoy 13 line 7/1-8/15	Closed for salmon through 8/15.
East of Buoy 13 line 8/16-9/15	2 fish limit, 2 adults, only 1 may be a Chinook. 12" min size limit. Release wild Coho. Open to salmon angling only in the area described as Humptulips – North Bay (the area conforms to the commercial SMCRA 2C).
East of Buoy 13 line 9/16-11/30	3 fish limit, 3 adults, 12" min size limit. Release Chinook. Open to salmon angling only in the area described as East Grays Harbor (the area conforms to the commercial SMCRA 2D).

**Westport Boat Basin and Ocean Shores Boat Basin**

8/16-1/31	6 fish limit, 4 adults; 12" min size limit. Release Chinook.
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**Areas 3-4: U.S./Canada border to Queets River**

<p>5/16-5/17, 5/23-5/24, 5/31-6/13 (9,000 Coastwide Mark Selective Fishery Chinook guideline)</p>	<p>Open 7 days per week; 2 fish per day; all salmon except Coho. All retained Chinook must have a healed adipose fin clip; Chinook minimum size limit 24 inches. Closed waters: east of a true north-south line running through Sail Rock. In-season management may be used to sustain season length and keep harvest within the overall Chinook recreational TAC for north of Cape Falcon.</p>
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**Area 3: Cape Alava to Queets River**

<p>6/14-9/21 (4,800 Mark Selective Fishery Coho sub quota)</p>	<p>Open 7 days per week; 2 fish per day; retained Coho must have a healed adipose fin clip; Chinook minimum size limit 24 inches, Coho minimum size 16 inches; Chinook guideline: 2,400. In-season management may be used to sustain season length and keep harvest within the overall Chinook recreational TAC for north of Cape Falcon.</p>
<p>La Push Late Season Area 9/27-10/12</p>	<p>(50 Coho sub quota; 50 Chinook sub quota, included above) Fishery restricted to the area north of 47°50'00" N latitude and south of 48°00'00" N latitude. Open 7 days/wk. Other regulations as described above.</p>

**Area 4: U.S./Canada border to Cape Alava and east to Sekiu River**

<p>6/14-9/21 (19,220 Mark Selective Fishery Coho sub quota)</p>	<p>Open 7 days per week; 2 fish per day; retained Coho must have a healed adipose fin clip. Chum non-retention during August and September. Chinook minimum size limit 24 inches and Coho minimum size 16 inches; Chinook guideline: 7,000; Chinook non-retention east of Bonilla-Tatoosh line beginning August 1. Closed waters: east of a true north-south line running through Sail Rock in July; <b>Closed to salmon angling</b> May 31-Sept. 21 inside the area bounded by a line from Kydaka Point to Shipwreck Point. In-season management may be used to sustain season length and keep harvest within the overall Chinook recreational TAC for north of Cape Falcon.</p>
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**Area 4A: Makah Bay Treaty Evaluation Marine Set Net Fishery**

<p>Chinook</p>	<p>Trty</p>	<p>Open 8/15 through 9/15 inside an area bounded by a line running from Strawberry Rock Point (48° 19' 07"N, 124° 40' 00"W) to the group of rocks (48° 19' 46"N, 124° 40' 35"W) which are located off Hobuck Beach and a line to the mouth of Hobuck Creek (48° 19' 54"N, 124° 39' 37"W), to be implemented per agreement between the Makah Tribe and WDFW.</p>
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**Part II. PUGET SOUND including STRAIT of JUAN de FUCA and SAN JUAN ISLANDS fisheries (All fisheries modeled in FRAM #2814 (Chinook) & #1416 (Coho))**

**2.1 Strait of Juan de Fuca Pre-terminal Areas**

**Areas 5, 6, 6C Treaty Troll (Ntrty net closed)**

NOTE: Area 4B: 5/1-10/31 see Ocean Troll. For 11/1-12/31 & 1/1-4/15 see below.

5/1-6/15	Closed
6/16 - 9/30	<p>The catch estimates for this fishery modeled in FRAM are statistically-derived predictions, and are the best available pre-season estimates of catch in this fishery. In order to have the actual catch reflect run strength, however, these estimates will not be treated as a ceiling when the managers make in-season fishery management decisions.</p> <p>Open for salmon, Chum release; Freshwater Bay closed, south of Angeles Pt./Observatory Pt. line; Pt. Angeles Harbor closed west of line from tip of Ediz Hook to ITT Rayonier Dock; Hoko Bay closed inside the area bounded by a line from Kydaka Point to Shipwreck Point; Area 6 closed east of a line true north from Green Point; 1,000 foot closure around stream mouths.</p>
10/1-10/31	Closed
11/1-4/15	<p>In Areas 4B, 5, 6, 6C the treaty troll fishery will be open from November 1, 2014 through April 15, 2015, or when the catch reaches the harvest ceiling of 8,500 Chinook, whichever comes first. 1,000-foot closures around stream mouths. Hoko Bay closed inside the area bounded by a line from Kydaka Point to Shipwreck Point for the month of November.</p> <p>The catch estimates for this fishery modeled in FRAM are statistically-derived predictions, and are the best available pre-season estimates of catch in this fishery. In order to have the actual catch reflect run strength, however, these estimates will not be treated as a ceiling when the managers make in-season fishery management decisions. The winter troll catch ceiling is 8,500 Chinook.</p>
4/16-4/30	Closed

**Areas 4B, 5, & 6C Treaty Net (Ntrty net closed)**

Note: The catch estimates for this fishery modeled in FRAM are statistically-derived predictions, and are the best available pre-season estimates of catch in this fishery. In order to have the actual catch reflect run strength, however, these estimates will not be treated as a ceiling when the managers make in-season fishery management decisions.

Chinook	<p>Open for setnet gear only, 6/22 through 8/16; 7 days a week; Hoko Bay closed, inside the area bounded by a line from Kydaka Point to Shipwreck Point; Freshwater Bay closed, south of Angeles Pt./Observatory Pt. line; 1,000-ft. closure around stream</p>
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	mouths.
Sockeye	Start to be determined by Fraser River Panel. The Co-managers have identified the following management actions to control by-catch of Chinook. Estimated by-catches are best estimates and are not quotas or ceilings. The priority for this fishery is to harvest the full Treaty share of sockeye salmon, while managing the fishery so as to not greatly exceed the projected incidental harvest of Chinook salmon. All Chinook by-catch in this fishery will be promptly reported by each Tribe to the NWIFC TOCAS database and reported to the U.S. section of the Fraser Panel at least weekly, including take home and ceremonial and subsistence (C&S). If in-season the Chinook by-catch in this fishery exceeds 1,300, the Tribes will consider management actions to limit the Chinook by-catch, such as time or area restrictions, while continuing the priority objective of harvesting sockeye salmon. If in-season the fishery is projected to result in a total Chinook by-catch exceeding 3,300 Chinook, the Tribes will, effective with that scheduled fishery opening, prohibit any commercial sales of Chinook salmon, and any Chinook salmon landed must be delivered to the fishers' respective Tribe.
Coho	Open for gillnets starting at 6 days per week with in-season adjustments based on cumulative catch. Fishery will target Coho from the end of Fraser Panel control, through 10/11; 1,000 ft. closure around stream mouths. Hoko Bay closed, inside the area bounded by a line from Kydaka Point to Shipwreck Point.
Chum	Open for gillnets, starting at 6 days per week (day may be added if effort is low), 10/12 through 11/8; 1,000-foot closure around stream mouths. Hoko Bay closed, inside the area bounded by a line from Kydaka Point to Shipwreck Point.
<b>Area 5 Recreational</b>	
5/1-6/30	Closed
7/1-8/15	2 fish limit, plus 2 additional Sockeye (Chinook 22" min size); release wild Chinook, wild Coho, and Chum. South of the Kydaka Pt./Shipwreck Pt. line – closed to salmon angling.
8/16-9/18	2 fish limit; plus 2 additional Sockeye through Aug. 31, release Chinook, wild Coho, and Chum. South of the Kydaka Pt./Shipwreck Pt. line – closed to salmon angling.
9/19-9/25	2 fish limit; release Chinook and Chum. South of the Kydaka Pt./Shipwreck Pt. line – closed to salmon angling.
9/26 – 9/30	2 fish limit; release Chinook, Chum, and wild Coho. South of the Kydaka Pt./Shipwreck Pt. line – closed to salmon angling.
10/1-10/31	2 fish limit; release wild Chinook and wild coho (Chinook 22" min size). South of the Kydaka Pt./Shipwreck Pt. line – closed to salmon angling.
11/1-11/30	Closed

12/1-2/15	Closed
2/16-4/10	2 fish limit (Chinook 22" min size), release wild Chinook
4/11-4/30	Closed
<b>Area 6 Recreational</b>	
5/1-6/30	Closed
7/1-8/15	2 fish limit, plus 2 additional Sockeye (Chinook 22" min size); release Chinook, wild Coho, and Chum, except W. of true N/S line through "2" buoy near tip of Ediz Hook retention of wild Chinook allowed. South of Angeles Pt./Observatory Pt. line – closed to angling. Pt. Angeles Hbr. W. of line from tip of Ediz Hook to ITT Rayonier Dock – closed to salmon angling. Dungeness Bay closed to salmon angling.
8/16-9/30	2 fish limit; plus 2 additional sockeye through Aug. 31, release Chinook, wild Coho, and Chum. South of Angeles Pt./Observatory Point line - closed to angling. Pt. Angeles Hbr. W. of a line from the tip of Ediz Hook to ITT Rayonier Dock – closed to salmon angling. Dungeness Bay closed to salmon angling.
10/1-10/31	2 fish limit, 1 Chinook (Chinook 22" min size). South of Angeles Pt./Observatory Point line – closed to angling. Pt. Angeles Hbr. W. of a line from the tip of Ediz Hook to ITT Rayonier Dock – closed to salmon angling. Sequim Bay south of a line from the south end of Gibson Spit to the west end of Travis Spit - closed to salmon angling. Discovery Bay south of a line from the Gardiner Boat Ramp to Beckett Point - closed to salmon angling. (see: Dungeness Bay Recreational below.)
11/1 - 11/30	Closed
12/1 - 4/10	2 fish limit (Chinook 22" min size). Release unmarked Chinook. Dungeness Bay closed to salmon angling.
4/11 - 4/30	Closed

## 2.2 Strait of Juan de Fuca Terminal Areas

### Area 6D Dungeness Bay Net

Chinook	All	Closed
Coho	Trty	Open 9/21 through 11/1; Additional days beyond 11/1 may be considered; 9/21 through 10/10, seven days per week, fishing 7 am to 7 pm only, nets must be attended by fisher, Chinook and Chum release; 10/11 through 11/1, seven days per week, 24 hours per day; 1,500 ft closure around mouth of Dungeness River.

	Ntrty	Open Wk 39 (wb 9/21) through Wk 43 (wb 10/19) for skiff gillnet gear; 7AM – 7PM, Week 39 Su, M, Th, F ; 5 days M-F wks 40-43; Chinook and Chum NR, release by cutting ensnaring meshes; 1,500 ft. (1/4 nautical mile) closure around each river mouth. Additional openings possible in wk 44 (wb 10/26) based on in-season information.
Chum	All	Closed

**Dungeness River (Treaty and Recreational)**

Note: The following applies to all in-river fisheries (Tribal & WDFW): Co-managers will meet on, or prior to October 7, 2014 to review river flow and weather conditions for the week of October 8-15. In the absence of river flow and weather conditions meeting agreed-to criteria, Dungeness River fisheries remain closed prior to the dates listed below.

**Dungeness River Treaty (Ntrty net closed)**

Chinook	Trty	Closed
Coho	Trty	Commercial fishing up to 3 days/wk, to be determined in-season, for Coho only, is scheduled to open on 10/16 and will be restricted to areas below the Dungeness hatchery intake using species selective (hand-held) gear. Subsistence fishing using selective gear is scheduled to open on 10/16. Refer to the co-management agreement above for possible emergency openings.
Chum	Trty	Closed

**Elwha River Treaty (Ntrty net closed)**

Chinook	Trty	Closed except Ceremonial Harvest of 4 fish in July.
Coho	Trty	Closed
Chum	Trty	Closed

**Dungeness Bay Recreational**

5/1-9/30	Closed to salmon angling.
10/1-10/31	2 fish limit, Coho only.
11/1-4/30	Closed to salmon angling.

**Dungeness River Recreational**

(mouth to hatchery intake pipe at RM 11.3)	10/16 - 12/31	4 fish limit, Coho only; 12" min size.
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**Elwha River Recreational**

Closed to all fishing.

**Hoko River Recreational**

(mouth to cement bridge (mile 7.0) on Hoko/Ozette Hwy.)	All year Closed to salmon.
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All other STRAIT OF JUAN DE FUCA REGION freshwater recreational closed to salmon angling.

**2.3 San Juan Islands/Point Roberts Area**

**Areas 6, 7, & 7A Net**

Chinook	All	Closed
Sockeye	Trty	Schedule to be determined. The Co-managers have identified the following management actions to track and control by-catch of Chinook. Estimated by-catches are best estimates and are not quotas. The priority for this fishery is to harvest the full treaty share of sockeye salmon, while managing the fishery so as to not greatly exceed the projected incidental harvest of Chinook salmon. All Chinook by-catch in this fishery will be promptly reported by each Tribe to the NWIFC TOCAS database and reported to the U.S. Section of the Fraser Panel at least weekly, including take home and ceremonial and subsistence (C&S). Prior to achieving a by-catch of 4,200 Chinook there will be no restrictions on the retention or sale of Chinook salmon. If, during the season, the Fraser Panel schedules a fishery that is projected to result in a total Chinook by-catch exceeding 4,200 fish, the Tribes will, effective with that scheduled fishery, prohibit any commercial sales of Chinook salmon, and any Chinook salmon landed must be delivered to the fisher's respective Tribe. Reef net unmarked coho, unmarked Chinook, and chum NR. Reef net may retain marked Chinook through 9/30. July and August – C&S fishery. Further policy discussion may occur among the affected parties prior to the season.

	Ntrty	Schedule to be determined. The Co-managers have identified the following management actions to track and control by-catch. Modeled by-catches are best estimates and are not quotas. All vessel operators must complete best fishing practices certification prior to fishing. Purse seine brailing and use of recovery box required with Chinook, Coho, and Chum NR. Reef net wild Coho, Chum, and wild Chinook NR. Reef net fishers may retain marked Chinook, with a cap of 300 for all gears through 9/30. Estimates of by-catch will be shared at least weekly in the U.S. Section of the Fraser River Panel. Purse seine and gillnet fisheries will be managed to ensure that the non-treaty impact does not exceed 3,310 total Chinook (120% of pre-season estimate).
Coho	Trty	Reef net: 7 days/wk beginning at end of Fraser Panel management through 11/8; Chinook NR after 9/30; unmarked Coho NR through 9/30, then coho retention. Chum NR through 9/30.
	Ntrty	Reef net: 7 days/wk beginning at end of Fraser Mgmt through Chum mgmt wk 45 (wb 11/2); Chinook NR after 9/30; unmarked-Coho release through 9/30, then Coho non-selective. Chum retention prohibited until after 9/30. All vessel operators must complete best fishing practices certification prior to fishing.
Chum	Trty	The Treaty fishery will open October 10 and remain open for the duration of the chum fishery, dependent on run status updates from CDFO. See attached 2014 7/7A Chum Fishing Plan. Reef nets open from end of Fraser Panel management through end of chum management (11/8), 7 days/wk. Reef net release requirements listed in Coho fishery description, above.
	Ntrty	PS and GN open wk 41 (wb 10/5) through wk 46 (wb 11/9), first wk schedule; open 10/11, 10/12, 10/14. Dependent upon update of run status from CDFO. Co-managers will meet Wednesday 10/15 to discuss catch to date. Fishery will re-open based on conditions outlined in the attached 7/7A Chum Fishing Plan. PS: brailing required, Chinook and Coho NR; GN: Chinook and Coho NR, live box required and limited soak time restrictions in wks 41-42 (10/5-10/17). Reef nets open from end of Fraser Panel management through wk 46 (wb 11/9), 7 days per week. Release requirements for reef nets stated for Coho management period apply. All vessel operators must complete best fishing practices certification prior to fishing.
Subsistence	Trty	12/1 – 4/30 subsistence troll fishery (Chinook 22" min size). Bellingham Bay closed 4/1 – 4/30.

**Area 7 Recreational**

5/1-6/30	Closed
7/1-7/31	2 fish limit, plus 2 additional Sockeye, 1 Chinook (Chinook 22" min size); Waters of Area 7 in Rosario Strait and the eastern portion of the Strait of Juan de Fuca southerly of a line running true south from the westernmost point on Fidalgo Head to Burrows Island, then westerly and southerly along the shore of Burrows Island to the Burrows Island Lighthouse, then westerly to Bird Rocks, then westerly from Bird Rocks to the southernmost point on Decatur Island, then southerly across Lopez Pass to Lopez Island and following the shore of Lopez Island southerly and westerly to Iceberg Point, then from Iceberg Point to Cattle Point, then south southwest to the Salmon Bank Buoy, and then true south from the Salmon Bank Buoy to the Area 7 boundary, closed to salmon angling. Bellingham and Samish Bay closed to salmon angling.
8/1-9/30	2 fish limit, plus 2 additional Sockeye through Aug. 31, 1 Chinook (Chinook 22" min size); release unmarked Coho and Chum; Waters of Area 7 in Rosario Strait and the eastern portion of the Strait of Juan de Fuca southerly of a line running true south from the westernmost point on Fidalgo Head to Burrows Island, then westerly and southerly along the shore of Burrows Island to the Burrows Island Lighthouse, then westerly to Bird Rocks, then westerly from Bird Rocks to the southernmost point on Decatur Island, then southerly across Lopez Pass to Lopez Island and following the shore of Lopez Island southerly and westerly to Iceberg Point, then from Iceberg Point to Cattle Point, then south southwest to the Salmon Bank Buoy, and then true south from the Salmon Bank Buoy to the Area 7 boundary, closed to salmon angling. Bellingham Bay closed to salmon angling 8/1-8/15; Samish Bay closed to salmon angling. Lummi Bay closure area: east of a line from Gooseberry Point to Sandy Point 9/2 – 10/15.
10/1-10/31	2 fish limit, release wild Chinook and wild Coho; Samish Bay closed to salmon angling 10/1-10/15.
11/1-11/30	Closed
12/1-4/30	2 fish limit, (Chinook 22" min size), release unmarked Chinook Bellingham Bay closed to salmon angling 4/1 – 4/30.

## 2.4 Nooksack/Samish Terminal Region

### Bellingham Bay (Areas 7B, 7C, 7D; 7A On-Reservation) Net

Chinook	Trty	<p>Areas 7B, &amp; 7D: August 1 through September 5, open weekly 4 PM Sunday to 4 PM Friday; except opens 12:01 AM August 1. Fishing pattern 1,5,5,5,5,5.</p> <p>Area 7C: August 1 through September 19, open weekly 4 PM Sunday to 4 PM Friday; except opens at 12:01 AM August 1; fishing pattern 1,5,5,5,5,5,5,5.</p> <p>Samish Bay is closed southeasterly of a line from Oyster Creek to the fisheries marker on Samish Island, except that hand pull gill nets may fish from 4 PM Sunday – 4 PM Wednesday south to a line from Oyster Creek to Fish Point on Samish Island, August 3 through September 17 Sunday 4 PM - Wednesday 4 PM, weekly; fishing pattern: 3,3,3,3,3,3. 6 ½" mesh in 7C and off-reservation areas of 7B, except when open for sockeye in 7 and 7A.</p>
	Ntrty	<p>Areas 7B &amp; 7C: Wks 33 (wb 8/10) - 36 (wb 8/31); PS Coho NR through week 35. GN fishing pattern: 3, 4, 4, 5; PS fishing pattern: 1,1,1,1. See Hales Pass closure below beginning 9/1.</p>
Coho	Trty	<p>Area 7A on-reservation fishery: September 14 through October 8. Open weekly 4 PM Sunday – 4 PM Wednesday. Fishing pattern 3,3,3,3.</p>
		<p>Areas 7B and 7D: September 7 through October 25, open Sunday 4 PM – Saturday 4 PM. Fishing Pattern:6,6,6,6,6,6.</p>
		<p>7C: On October 1, a Co-manager conference call will be held to determine the status of Samish Chinook escapement. If the escapement goal appears to be attainable, and through development of a co-manager agreed in-season update methodology it is determined that there is a harvestable surplus of Samish Coho, then a Coho fishery will open October 5 – October 22, Sunday 4 PM – Wednesday 4 PM, weekly; fishing pattern 3,3,3.</p>

	Ntrty	Area 7B: Wks 37 (wb 9/7) - 43 (wb 10/19); GN fishing pattern: 5,5,7,7,7,7,7 (24 hrs for all days); PS fishing pattern: 3,3,7,7,7,7,7. Hales Pass closed for all NT GN openings from Sept. 1 - 21, in the waters of Area 7B west of a line from Point Francis (48°41'42"N, 122°36'40"W), to the red and green buoy southeast of Point Francis (48°40'22"N, 122°35'30"W), then to the northernmost tip of Eliza Island (48°39'37"N, 122°35'45"W), then along the eastern shore of the island to a point intersecting a line drawn through Eliza Rock Light (48°38'35"N, 122°34'40"W) and Fish Point (48°34'35"N, 122°29'45"W) and then southeastward along that line to Fish Point. NT purse seine fisheries fishing in this area must release Coho Sept. 1-21.
Chum	Trty	Areas 7B & 7D: Oct. 26 – Dec.10; open weekly 4 PM Sunday – 4 PM Wednesday; 3,3,3,3,3,3,3.
	Ntrty	Area 7B: Wks 44 (wb 10/26)- 48 (wb 11/23); PS/GN; 5,5,5,5,5. Whatcom Creek Zone (east of line from Post Point to flashing red light at west entrance of Squalicum Harbor) open 7 days per week.

**Nooksack River Treaty Net (Ntrty net closed)**

Note: On a weekly basis, Nooksack Tribe commercial fisheries on the Nooksack River will open at 12:01 AM Sun, except that portion of the river between Marine Drive Bridge and the first turn in the river upstream of the Slater Road Bridge, which will open at 4:00 PM Sun. On a weekly basis the Nooksack Tribe's commercial Chinook and Coho fisheries will close 4:00 PM Sat and Chum fisheries will close 4:00 PM Wed.

Chinook	April 1 – June 15	April to mid-June: limited ceremonial and subsistence fishery will be managed for a total mortality of 16 NOR Chinook. A traditional fishery will occur 500 feet upriver from the Highway 9 bridge in the lower North Fork and the Nugents Corner Boat Launch in the mainstem (the boat launch is located just down river from Nugent's Corner Bridge) (RM 30.8 and 36.8). A total of 32 Chinook are projected in this fishery with an anticipated 4 NORs among the 32. This fishery is by permit only. Another fishery will occur in the lower Nooksack River between the Slater Road bridge and the river mouth (between RM 0.0 and 3.5). The lower river fishery will be selective and is projected to encounter 31 NOR Chinook with an expected survival rate of 60% and an estimated mortality of 12 NOR Chinook.
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	8/1-9/6	Open weekly 4 PM Sunday to 4 PM Saturday, except open 12:01 AM Friday August 1 to 4 PM Saturday August 2. Fishing pattern: 2,6,6,6,6,6. The river is divided into five zones during this period. These zones open in subsequent weeks, proceeding upriver, to protect migrating spring Chinook. The area in Zone 4 upriver of the Nooksack Tribal Works building will remain closed from August 24 through September 6 <sup>th</sup> to protect holding spring chinook Zone 1 is from Marine Drive Bridge to Slater Bridge. Zone 2 is from Slater Br. To Hannegan Br. In Lynden. Zone 3 is from Hannegan Br. to Nugents Corner Br. Zone 4 is from Nugents Corner Br. to the confluence of the north and south forks. Zone 5 is upriver of the confluence of the north and south forks.
Coho	9/7 – 10/25	Open weekly 4 PM Sunday through 4 PM Saturday. Fishing Pattern: 6,6,6,6,6,6,6.
Chum	11/6-7 or 11/13-14	Subsistence harvest only. The Lummi Nation and Nooksack Tribe will determine in-season which two days to hold this subsistence fishery.
	10/26-12/10	Commercial. Open weekly 4 PM Sunday through 4 PM Wednesday. Fishing Pattern: 3,3,3,3,3,3,3,.

**Bellingham Bay Terminal Area Recreational**

5/1-8/15	Closed to salmon angling.
8/16-9/30	4 fish limit, 2 Chinook (Chinook 22" min size); Samish Bay closed to salmon angling.
10/1 – 10/31	4 fish limit, 2 Chinook (Chinook 22" min size); Release wild Chinook, Samish Bay closed to salmon angling thru 10/15.
11/1-3/31	Same as Area 7.
4/1-4/30	Closed to salmon angling.

**Nooksack River Recreational; mainstem and North Fork**

(from Lummi Indian Reservation boundary to yellow marker at the FFA high school barn in Deming)	9/1 – 12/31	2 fish limit, plus 2 additional Coho; 12" min size. Release wild Chinook thru 9/30.
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(from yellow marker at the FFA high school barn in Deming to confluence of North and South forks)	10/1 – 12/31	2 fish limit, plus 2 additional Coho; 12" min size.
(from confluence of North and South forks to Maple Creek on North Fork)	10/1 – 11/30	2 fish limit, plus 2 additional Coho; 12" min size.
<b>Nooksack River Recreational, South Fork</b>		
(from mouth to Skookum Creek)	10/1 – 12/31	2 fish limit, plus 2 additional Coho; 12" min size. Release Chum.
<b>Samish River Recreational</b>		
(from mouth to I-5 Bridge)	8/1-11/30	2 fish limit, 12" min size. Release wild Coho.
<b>Dakota Creek Recreational</b>		
(mouth to Giles Road Bridge)	10/1 – 12/31	2 fish limit, 12" min size. Release wild Chinook.
<b>Whatcom Creek Recreational</b>		
(mouth to yellow markers below foot bridge below Dupont St. in Bellingham)	8/1 – 12/31	6 fish limit, 2 adults; 12" min size.

All other NOOKSACK/SAMISH TERMINAL REGION freshwater recreational: Closed to salmon angling.

## 2.5 Skagit Terminal Region

### Skagit Bay (Area 8) Net

Note: Fishing schedules for Skagit Bay, Skagit River, and Baker River are pre-season projections. Schedules may be changed in-season as necessary to meet management objectives and harvestable shares.

Spring Chinook	Area 8 – Trty	<u>Swinomish Tribe fishing pattern:</u> Wk 19 (wb 5/4) thru wk 21 (wb 5/18);2,2,2; <u>Upper Skagit Tribe fishing pattern:</u> No scheduled fishery.
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Sockeye	Area 8 – Trty	<u>Swinomish Tribe fishing pattern:</u> Wk 25 (wb 6/15) thru wk 28 (wb 7/6);3,4,5,5;  <u>Upper Skagit Tribe fishing pattern:</u> No scheduled fishery.
	Ntrty	Closed
Sockeye Research Tagging Study	Area 8	Wk 24 (wb 6/8) thru wk 29 (wb 7/13); 1 beach seine, 8 hours/wk. Sockeye pit and/or acoustic tagged, all species released.
Coho	Trty	Terminal Treaty HR target 20% as a response to "Normal" abundance. If ISU changes abundance status, HR target may be modified following co-manager discussions.
	Area 8 – Trty	<u>Swinomish Tribe fishing pattern:</u> Wk 38 (wb 9/14) thru wk 41 (wb 10/5); 1,3,4,2. <u>Upper Skagit Tribe fishing pattern:</u> No scheduled fishery.
	Ntrty	Closed
Chum Test	Area 8	1 boat at Jetty 1 day/wk 44 (wb 10/26) & 45 (wb 11/2) and 1 boat in Bay 1 day/wk 44 (wb 10/26) & 45 (wb 11/2).
Chum	Area 8 – Trty	<u>Swinomish Tribe fishing pattern:</u> No preseason harvestable. Placeholder modeled schedule wk 46 (wb 11/9); 1. Fishery dependent on ISU and harvestable fish. <u>Upper Skagit Tribe fishing pattern:</u> No preseason harvestable.
	Ntrty	Closed. May open pending co-manager agreement on ISU that indicates harvestable runsize.

**Skagit River Treaty Net (Ntrty net closed)**

Note: Fishers from the Sauk-Suiattle Tribe are invited to participate in the 2014 Swinomish salmon fishery in Skagit River Area 78C from the Mount Vernon bridge to the Spud House, subject to and in accordance with all provisions of fishing ordinances and regulations of the Swinomish Indian Tribal Community that apply to such fishery.

Chinook	Ceremonial and Subsistence – 1975 fish (30 spring and 1945 summer/fall) total Swinomish, Sauk-Suiattle, and Upper Skagit Tribes.
Spring Chinook	Area 78C <u>Swinomish and Sauk-Suiattle Tribes fishing pattern:</u> wk 19 (wb 5/4) thru wk 21 (wb 5/18);2,2,2;

		<u>Upper Skagit Tribe fishing pattern:</u> wk 20 (wb 5/11) thru wk 22 (wb 5/25);1,1,1.
	Area 78D	<u>Upper Skagit Tribe fishing pattern:</u> wk 20 (wb 5/11) thru wk 22 (wb 5/25);1,1,1.
Sockeye	Area 78C	<u>Swinomish and Sauk-Suiattle Tribes fishing pattern:</u> wk 25 (wb 6/15) thru wk 28 (wb 7/6);3,4,5,5; <u>Upper Skagit Tribe fishing pattern:</u> wk 27 (wb 6/29) thru wk 29 (wb 7/13);0.667,0.667,0.5. Additional fishing dependent on ISU, per MOU.
	Area 78D	<u>Swinomish Tribe fishing pattern (Area 78D-4 and Baker River):</u> Wk 29 (wb 7/13):1. Fishery will be managed so as not to exceed the Swinomish sockeye share based on preseason forecast until such time as an in-season update becomes available. Additional fishing dependent on ISU, per MOU.; <u>Upper Skagit Tribe fishing pattern:</u> Areas 78D-2, 78D-3, 78D-4, and 78O (Baker River): wk 27 (wb 6/29) thru wk 29 (wb 7/13);0.667,0.667,0.5.
Coho	Terminal Treaty HR target 20% as a response to "Normal" abundance. If ISU changes abundance status, HR target may be modified following co-manager discussions.	
	Area 78C:	<u>Swinomish and Sauk-Suiattle Tribes fishing pattern:</u> wk 38 (wb 9/14) thru wk 41 (wb 10/5);1,3,4,2; <u>Upper Skagit Tribe fishing pattern:</u> wks 40 (wb 9/28) thru wk 43 (wb 10/19);1.167,1.167,1.417,1.167.
	Area 78D	<u>Upper Skagit Tribe fishing pattern:</u> wks 40 (wb 9/28) thru wk 43 (wb 10/19);1.167,1.167,1.417,1.167.
Chum	Area 78C	<u>Swinomish and Sauk-Suiattle Tribes fishing pattern:</u> No preseason harvestable. Placeholder modeled schedule wk 46 (wb 11/9);1. Fishery dependent on ISU and harvestable fish. <u>Upper Skagit Tribe fishing pattern:</u> No preseason harvestable.
	Area 78D	<u>Upper Skagit Tribe fishing pattern:</u> No preseason harvestable.
River Test	Chinook	Area 78C - Blakes wk 19 (wb 5/4) thru wk 35 (wb 8/24);1 boat, 6 hours/wk.
	Sockeye	Area 78C – Blakes wk 24 (wb 6/8) thru wk 29 (wb 7/13); 1 boat, 12 hours/wk; Area 78D-3 - Upper Skagit - wk 23 (wb 6/1) thru wk 30 (wb 7/20);1 boat, 4 hrs/wk.

Coho	Area 78C - Blakes Drift wk 34 (wb 8/17) thru wk 45 (wb 11/2), 12 hours/wk; Area 78C - Spudhouse Drift, Upper Skagit, wk 34 (wb 8/17) thru wk 44 (wb 10/26); 1 boat, 12 hours/wk; Area 78D-3 wk 35 (wb 8/24) thru wk 44 (wb 10/26); 1 boat, 4 hours/wk.
Chum	Area 78C - Blakes Drift wk 44 (wb 10/26) and wk 45 (wb 11/2); 1 boat, 12 hours/wk.

**Swinomish Channel Treaty Net (Ntrty net closed)**

Coho	No separate openings. Area opens during Area 8 openings.
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**Area 8-1 Recreational**

5/1-7/31	Closed
8/1-9/30	2 fish limit, release Chinook.
10/1- 10/31	2 fish limit, release Chinook.
11/1 - 4/30	2 fish limit (Chinook 22" min size). Release wild Chinook.

**Baker River/Lake Recreational**

(mouth to Hwy 20 Bridge)	Closed.
From Hwy 20 Bridge upstream to Dam	Closed.
Baker Lake	7/10-9/7 3 fish limit, sockeye only, 18" min. size.

**Cascade River Recreational**

(mouth to Rockport-Cascade Road Bridge)	6/1 - 7/15	4 fish limit, only 2 may be adults, hatchery Chinook only, 12" min. size. Co-managers will consult on harvest guidelines and fishery may close early.
	9/16 - 11/30	4 fish limit, Coho only, 12" min size.

**Skagit River Recreational**

(mouth to Memorial Hwy. Bridge (Hwy 536 at Mt. Vernon))	9/1 - 12/31	4 fish limit, no more than 2 wild Coho, 12" min size, release Chum and Chinook.
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(From Memorial Hwy Bridge to Gilligan Creek)	6/14-6/29	2 fish limit, sockeye only (12" min size). Release Chinook.
	9/1 – 12/31	4 fish limit, no more than 2 wild Coho, 12" min size, release Chum and Chinook.
(From Gilligan Creek to Dalles Bridge at Concrete)	9/1 – 12/31	4 fish limit, no more than 2 wild coho, 12" min size, release Chum and Chinook.
Rockport Bridge to Marblemount Bridge	6/1-7/15	4 hatchery Chinook, only 2 may be adults, 12" min size, open only from Highway 530 bridge at Rockport to Cascade River.
(From Dalles Bridge at Concrete to Cascade River)	9/1 – 12/31	4 fish limit, no more than 2 wild coho, 12" min size, release Chum and Chinook.
	6/1- 8/31	Closed waters – between a line projected across the thread of the river 200' above the east bank of the Baker River and a line projected across the thread of the river 200' below the west bank of the Baker River.

**All other SKAGIT TERMINAL REGION freshwater recreational closed to salmon angling.**

## 2.6 Stillaguamish/Snohomish Terminal Region

Note: Co-managers will meet during the week of 8/24-8/30 to discuss previous, current and expected conditions in the Stillaguamish River (flow pattern, water quality, spawning habitat) and to review results from the smolt trap (out-migrant smolt mortality and other relevant biological and environmental information). In-season adjustments to all fishery schedules and openings affecting the Stillaguamish stocks will also be discussed and agreed-to by co-managers.

### Area 8A Net

Chinook	Trty	Closed (Ceremonial set-aside of up to 100 Chinook, July-September period).
	Ntrty	Closed
Coho	Trty	Tulalip Tribes: (8/31 – 9/13) 5 days per week (Evaluation Fishery); (9/14 – 10/18) 5 days per week. Update fishery through 10/4. Manage for Comprehensive Coho Management Plan breakpoints and rates.
	Test	Tulalip Tribes: (8/31 – 10/18) 2 days per week.

	Ntrty	Wks 38 (wb 9/14) – 39 (wb 9/21): PS limited participation (2 boats per day): Chinook and Chum NR; fishing pattern: 1,1. GN wk 38 limited participation 2 boats only. GN fishing pattern: 1-2, GN fish night hours. Closed south of a line from the Clinton ferry dock to the Mukilteo ferry dock.
Chum	Trty	Evaluation Fishery, 10/11 – 11/22: Dependent on Co-manager agreement on ISU indicating increased run size. Port Susan closed; Max 2,000 Chum. Commercial fishery depending on evaluation fishery, 10/19 – 11/22, manage for Stillaguamish and Snohomish harvest rates and minimum escapement goals.
	Test	10/19 – 11/22; 1 day per week; 2 GN landings per week.
	Ntrty	Closed. May open pending co-manager agreement on ISU that indicates harvestable run size.

**Area 8D Net**

Chinook	Trty	BS, RH, GN gear outside Tulalip Bay may be open during the following periods: 4/27 – 5/31 12:01 AM Sun – 11:59 PM Sat 6/1 – 8/23 12:01 PM Mon – 11:59 PM Thu 8/24 – 9/13 12:01 AM Mon – 11:59 PM Fri Setnets inside Tulalip Bay may be open during the following period: 4/27 – 9/13 12:01 AM Sun – 11:59 PM Sat
	Ntrty	Closed (see recreational SAF)
Coho	Trty	9/14 – 11/1; BS, RH, GN gear outside Tulalip Bay open Sun, Mon, Thu, Fri; open to target Tulalip hatchery Coho.
	Ntrty	Wks 39 (wb 9/21)- 44 (wb 10/26); PS Chinook NR; PS fishing pattern: 1,1,1,1,1,2,1; GN fish each night Sunday through Thursday night(5,5,5,5,5,5); also open daylight hours Tuesdays and Wednesdays (2,2,2,2,2,2). Closed east of the line from Mission Point to Hermosa Point.
Chum	Trty	11/2 – 12/13; open to target Tulalip hatchery Chum. Managed to allow for hatchery egg take needs based on Tulalip hatchery escapement updates and projections. All Area 8D fisheries will close concurrently as agreed to by Tulalip and WDFW to ensure egg take requirements are met.

Ntrty	Wks 46 (wb 11/9) - 48 (wb 11/23); PS fishing pattern: 2,1,1; GN fishing pattern: 3,3,3 daylight hours. Closed east of the line from Mission Point to Hermosa Point. Managed to allow for hatchery egg take needs based on Tulalip hatchery escapement updates and projections. All Area 8D fisheries will close concurrently as agreed to by co-managers to ensure egg take requirements are met.
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**Stillaguamish River Treaty Net (Ntrty net closed)**

Chinook	C&S fishery; Wb 6/29 – wb 8/31; maximum catch of 30 Chinook; Open from mouth of Hatt Slough (RM 0) to Danielson Hole (RM 14).
Coho	Comm. Fishery; Wb 9/7 - wb 10/19; Up to 5 days per week; Open from mouth of Hatt Slough (RM 0) to Danielson Hole (RM 14).
Chum	C&S fishery; wb 10/26- wb 11/30; Up to 3 days per week; max catch of 300 Chum; Open from mouth of Hatt Slough (RM 0) to Danielson Hole (RM 14).

**Snohomish River Treaty Net (Ntrty net closed)**

Chinook, Pink, Coho, Chum	Closed
Coho Test	Closed

**Area 8-2 Recreational**

5/1-7/31	Closed
8/1-9/30	2 fish limit, release Chinook.
10/1 – 10/31	2 fish limit, release Chinook.
11/1 – 4/30	2 fish limit (Chinook 22" min size). Release wild Chinook.

**Tulalip Special Area Recreational Fishery**

Same as Area 8-2 Recreational, except during the period 5/30-9/21:	5/30-9/1	Open 12:01 AM Friday – 11:59 AM Monday each week. Closed June 21. Open within Tulalip Special Area boundaries only. Closed to all angling east of the line from Mission Point to Hermosa Point. 2 fish limit salmon, 2 pole endorsement (Chinook 22" min. size).
	9/6-9/21	Open Saturday and Sunday each week. Open within Tulalip Special Area boundaries only. Closed to all angling east of the line from Mission Point to Hermosa Point. 2 fish limit salmon, 2 pole endorsement (Chinook 22" min. size).

**Snohomish River Recreational**

(mouth to confluence of Skykomish and Snoqualmie rivers, including all channels)	9/1 – 12/31	3 fish limit, Release Chinook, Chum, and Pink, 12" min. size.
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**Snoqualmie River Recreational**

(mouth to Snoqualmie Falls, including all channels)	9/1 – 12/31	3 fish limit, Release Chinook, Chum, and Pink, 12" min size.
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**Skykomish River Recreational**

(From mouth to Wallace River)	6/1 – 7/31	4 fish limit, only 2 may be adults, hatchery Chinook only 12" min. size. Chinook fishery dependent on agreed ISU of Chinook abundance sufficient to meet the hatchery escapement goal.
(From mouth to Lewis St. Bridge in Monroe)	9/1 – 12/31	3 fish limit, 12" min size. Release Chinook, Chum and Pink.
From Lewis St Bridge in Monroe to River at forks.	9/1 – 12/31	3 fish limit, 12" min size. Release Chinook, Chum, and Pink.

**Wallace River Recreational**

Mouth to 200' upstream of water intake of salmon hatchery	9/16 – 11/30	3 fish limit, 12" min size. Release Chinook, Chum and Pink.
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**Stillaguamish River Recreational**

(river and all sloughs downstream of Marine Drive)	9/1 – 12/31	2 fish limit, Release Chinook, Chum and Pink, 12" min size.
(Marine Drive upstream to forks)	9/1 - 12/31	2 fish limit, Release Chinook, Chum and Pink, , 12" min size

All other STILLAGUAMISH/SNOHOMISH TERMINAL REGION freshwater recreational closed to salmon angling.

## 2.7 Admiralty Inlet Area

### Area 9 Net

Note: The Tribes with chum stocks affected by Area 9 fisheries or with fishery jurisdiction in Area 9 commit to establish a chum technical workgroup to evaluate the available data, identify data gaps, and review and revise the Area 9 research plan. The chum technical workgroup will be directed by an oversight committee of tribal policy representatives, with the ultimate goal of developing a management framework for chum salmon originating from the watersheds and hatchery programs of the Hood Canal, North Puget Sound, Mid-Puget Sound, and South Puget Sound production regions. A meeting will be held on May 21, 2014 to develop work plans and schedules for the policy and technical groups.

Chinook	Trty	Ceremonial and Subsistence – Up to 500 Chinook as agreed upon by those Tribes with U&A in Area 9, (PS and Hook & Line, release all Chum 6/1 – 9/30).
Chum	Research	Wks 43 (wb 10/19) – 46 (wb 11/9) research fishery to develop stock composition/timing information. Research catch quota of 2,400 Chum. Details of research program will be based on previously agreed sampling design and a review of prior years' sampling results. Reference 2013 Area 9 Chum Salmon Research Fishery Plan.
Chum	Trty	<b>[Wk 43 (wb 10/19) – Wk 46 (wb 11/9) Tribal gillnet only fishery. 2 days each wk, maximum of 6 fishing days. Fishery will be managed to not exceed 15,000 chum.]</b>  <b>[No commercial fishery, unless prior agreement by all affected Tribes and WDFW.]</b>
	Ntrty	Closed

### Area 9 Recreational

5/1-6/30	Closed
7/1-7/15	2 fish limit. Release Chinook and Chum
7/16-8/15	2 fish limit, only 1 may be a hatchery Chinook (Chinook 22" min size). Release wild Chinook and Chum. Closed south and west of a line from Foulweather Bluff to Olele Point, except angling allowed from shore between Hood Canal Bridge and the northern boundary of Salisbury Point Park, daily limit 2 Coho only. Fishery will convert to Chinook non-retention upon attainment of Chinook impact guideline.

8/16-8/31	2 fish limit, Release Chinook and Chum. Closed south and west of a line from Foulweather Bluff to Olele Point, except angling allowed from shore between Hood Canal Bridge and the northern boundary of Salisbury Point Park, daily limit 2 Coho only.
9/1-9/30	2 fish limit, release Chinook and Chum.
10/1-10/31	2 fish limit, release Chinook
11/1-11/30	2 fish limit, release wild Chinook (Chinook 22" min size).
12/1-1/15	Closed
1/16-4/15	2 fish limit, Chinook 22" min size, release wild Chinook.
4/16 – 4/30	Closed
<b>Edmonds Pier Recreational</b>	
Year-Round	2 fish limit, 1 Chinook (22" min size), release Chum 8/1-9/30.

### 3.0 South Sound Region

#### 3.1 Area 10 Sub region

##### Area 10 Net

Chinook	Closed	
Sockeye	Trty	Fishery dependent upon ISU (Ballard lock counts)
	Ntrty	Closed
Coho	Test	Gillnet: Wks 37 (wb 9/7) - Wk 39 (wb 9/21); 3 boats, 3 sites; fishing pattern: 2,2,2.
	Trty	Fishery based on ISU beginning Wk 37 (wb 9/7). Treaty allocation based on intertribal sharing agreement. Fishing schedule for Area 10 shall be set consistent with the MST agreement (1983).
	Ntrty	Closed
Chum	In order to allow fishing opportunity that allows both the treaty and non-treaty fleets to have the ability to catch their shares; better communication and cooperation is expected from both non-treaty and treaty co-managers to allow both parties the opportunity to access their shares.	
	Test	Purse Seine: Wks 41 (wb 10/5) - Wk 46 (wb 11/9); 1 site, fishing pattern: 1,1,1,1,1,1.

Trty	Treaty allocation based on intertribal sharing agreement; Wks 41 (wb 10/5) – Wk 48 (wb 11/23) fishing pattern – ISU dependent; Fishing schedule for Area 10 shall be set consistent with the MST agreement (1983).
Ntrty	Wks 42 (wb 10/12) - 48 (wb 11/23); PS Chinook and Coho NR; PS fishing pattern: 1,1,1,1,2,1,1; GN fishing pattern: 2,2,2,2,2,2. ISU Dependent. Area east of a line from Four Mile Rock south to Alki Point will be closed.

**Area 10A Treaty Net (Ntrty net closed): That portion of Elliott Bay east of the line from Pier 91 to the light at Duwamish Head.**

Chinook	Trty Test	Gillnet: Wk 29 (wb 7/13) – Wk 31 (wb 7/27); three consecutive weeks (Wednesday nights) 7/16, 7/23, and 7/30; 5 fishing sites (one boat per site). 8 PM to 8 AM. The structure/correlation of this fishery is under review and may be modified or temporarily discontinued based on co-manager agreement.
	Trty	Closed
Coho	Trty	Gillnet: wk 37 (wb 9/7)-Wk 44 (wb 10/26); fishing pattern: 5 days per week (Sun – Fri)
Chum	Trty	Gillnet: wk 45 (wb 11/2)-Wk 48 (wb 11/23); fishing pattern: up to 5 days per week (Sun – Fri).

**Duwamish/Green River (Area 80B) Treaty Net (Ntrty net closed)**

Chinook	Trty	Closed
Coho	Trty	Wk 37 (wb 9/7) – Wk 44 (wb 10/26) Starting September 7 fishery will open up to 1 <sup>st</sup> Avenue Street Bridge, starting September 14 fishery will open up to 16 <sup>th</sup> Avenue Street Bridge, , starting September 21 fishery will open up to Boeing St. Bridge. Starting September 28 fishery will open up to Hwy 99 Bridge; fishing pattern: Sunday – Friday; 5 days per week.
Chum	Trty	Gillnet Wk 45 (wb 11/2)-Wk 48 (wb 11/23); fishing pattern: 5 days per week (Sun – Fri).

**Area 10E Treaty Net (Ntrty net closed; see below for recreational SAF)**

Chinook	Trty	Wk 30 (wb 7/20)-Wk 38 (wb 9/14); fishing pattern: 7 days/wk. Possible extension for Sinclair Inlet
Coho	Trty	On-Reservation only; Wk 38 (wb 9/14)-Wk 43 (wb 10/19); gillnet/beach seine; 7 days/wk.

Chum	Trty	Wk 43 (wb 10/19)-Wk 50 (wb 12/7); schedule dependent upon ISU.
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**Lake Washington System (includes Lake, Lake Union, Ship Canal, & Lake Sammamish)**

**Areas 10F, 10G, 10C, 10D Treaty Net (Ntrty net closed)**

Sockeye	Dependent upon ISU (lock counts).	
Chinook	Dependent on ISU and co-manager agreement.	
Coho	The Coho fisheries in the four following areas are dependent upon the ISU (if lock counts project run size <10,000 Coho entering the lake, then no Coho fishery):	
	Lower ship canal (below Ballard Locks)	Closed until Chinook clearance as seen in lock counts; anticipated pattern 5-7 days/wk dependent on in-season information, with a potential start date for fisheries beginning Wk 38 (9/14).
	Upper ship canal (above Ballard Locks):	Fishing pattern 5 days/wk (Sun – Fri) with a potential start date for fisheries beginning Wk 38 (9/14).
	North end Lake Washington (North of Hwy. 520 bridge):	Starting Wk 40 (wb 9/28): fishing pattern 5 days/wk (Sun – Fri).

**Lake Sammamish Treaty Net**

Chinook and Coho	Fisheries will be based on ISU from the Ballard Lock counts.
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**Area 10 Recreational**

5/1-5/31	Closed
6/1-6/30	Catch-and-release in waters N of Meadow Pt./Pt. Monroe line.
7/1-7/15	2 fish limit, release Chinook.
7/16-8/15	2 fish limit, only 1 may be a hatchery Chinook (Chinook 22" min size). Release wild Chinook and Chum. Fishery will convert to Chinook non-retention upon attainment of Chinook impact guideline.
8/16-8/31	2 fish limit, Release Chinook and Chum.
9/1-9/30	2 fish limit, release Chinook for the entire period and release Chum through 9/15.
10/1-1/31	2 fish limit, release wild Chinook (Chinook 22" min size).

2/1-4/30 | Closed

Shilshole Bay (East of Meadow Point/West Point line) closed 7/1-8/31.

Outer Elliott Bay (E of West Pt./Alki Pt line to Pier 91/Duwamish Head line) Closed to salmon angling 7/1-8/31.

Inner Elliott Bay (E of Pier 91/Duwamish Head line) closed to salmon angling 7/1-8/31.

**Area 10 Piers Recreational**

Seacrest Pier, Pier 86, Waterman Pier, Bremerton Boardwalk, Illahee State Park Pier	Year-Round	2 fish limit, 1 Chinook (22" min size), release Chum 8/1-9/15.
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**Elliott Bay Recreational SAF**

5/1 – 6/30	Same as Area 10
7/1 – 8/31	Closed
9/1-4/30	Same as Area 10.

**Sinclair Inlet Recreational SAF**

5/1-6/30	Same regulations as Area 10.
7/1-9/30	Open S of Manette Bridge, S of line drawn true W from Battle Point, and W of line drawn true S from Point White; 3 fish limit (Chinook 22" min size), release wild Chinook and release Chum 8/1-9/15, 2 pole endorsement.
10/1-4/30	Same regulations as Area 10.

**Green River Recreational**

(1st Ave South Bridge to Old Hwy.99/ Tukwila Intl. Blvd.)	9/1 – 12/31	Daily limit 6. No more than 3 adults may be retained, 12" min size, release Chinook.
(Old highway 99/Tukwila Intl. Boulevard to I-405)	9/1 – 12/31	Daily limit 6. No more than 3 adults may be retained, 12" min size, release Chinook.
(I-405 to the S. 277 <sup>th</sup> Bridge in Auburn)	10/1 – 12/31	Daily limit 6. No more than 3 adults may be retained, 12" min size, release Chinook.

(S. 277 <sup>th</sup> Bridge to Auburn Black Diamond Rd Bridge)	10/16 – 12/31	Daily limit 6. No more than 3 adults may be retained, 12" min size, release Chinook.
(from Auburn-Black Diamond Rd Bridge to mouth of Cristy Creek at Flaming Geyser Park))	9/16-10/31	Closed to all fishing.
(from Auburn-Black Diamond Rd Bridge to Tacoma Headworks Dam)	11/1 – 12/31	Daily limit 6. No more than 3 adults may be retained, 12" min size, release Chinook Closed waters- within 150' of the Palmer Ponds outlet rack and within 150' of the mouth of Keta (Crisp) Creek.

The 2014/2015 WDFW sport pamphlet will reflect the following season end dates for trout and other game fish fall/winter season. These end dates are subject to change based on State-Tribal agreement:

Mouth to S. 277<sup>th</sup> Bridge in Auburn: Jan. 15

S. 277<sup>th</sup> Bridge to Tacoma Headworks Dam: Jan. 31

**Soos Creek Recreational**

Closed

**Lake Washington Recreational**

East of the Montlake Bridge	July-August	Dependent upon ISU (lock counts). Potential fishery starting date to be determined. 2 fish limit, sockeye only, 12" min. size . If fishery occurs, other NT chinook impacts will be adjusted.
North of Hwy 520 Bridge	9/16 – 10/31	4 fish limit, Coho only; 12" min size

**Lake Sammamish Recreational**

8/16 – 11/30	4 fish limit, only 2 Chinook, 12" min size, release sockeye. Closed: waters within 100 yards of the mouth of Issaquah Creek are closed to salmon fishing.
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All other SOUTH SOUND AREA 10 REGION freshwater: Closed to salmon angling.

### 3.2 Area 11 Sub region

#### Area 11 Net

Chinook	All	Closed
Coho	Trty:	Commercial fishery open beginning Wk 37 (wb 9/7) - Wk 41 (wb 10/5); ISU dependent; gillnets 7 days/wk, could close any time. Beach seine daylight hours only, 7 days/wk.
	Ntrty:	Closed
Chum	In order to allow fishing opportunity that allows both the treaty and non-treaty fleets to have the ability to catch their shares; better communication and cooperation is expected from both non-treaty and treaty co-managers to allow both parties the opportunity to access their shares.	
	Trty:	Commercial fishery open Wk 42 (wb 10/12)-Wk 49 (wb 11/30); gillnets 7 nights/wk, could close at anytime. Beach seine daylight hours only, 7 days/wk.
	Ntrty	Wks 42 (wb 10/12) - 48 (wb 11/23); PS Chinook and Coho NR; PS fishing pattern: 1,1,1,1,2,1,1; GN fishing pattern: 2,2,2,2,2,2. ISU dependent.

#### Area 11A Net Treaty Net (Ntrty net closed)

Chinook	Closed
Coho	Commercial fishery open Wk 37 (wb 9/7) - Wk 42 (wb 10/12); 3 nights/wk
Chum	Commercial fishery open Wk 46 (wb 11/9) – Wk 53 (wb 12/28) 3 nights/wk.

#### Puyallup River (Area 81B) Treaty Net (Ntrty net closed)

Chinook	Spring Chinook	Ceremonial and Subsistence 5/1 – 6/30
	Summer - Fall	Commercial fishery 8/10, fishing pattern: 6 hours.
Coho	Commercial fishery Wk 36 (wb 8/31)-Wk 42 (wb 10/12) fishing pattern: 1,2,2,3,3,3,3.	
Chum	Test fishery Wk 43 (wb 10/19)-Wk 46 (wb 11/9) 1 day/wk, drift net only.	
Winter Chum	Commercial fishery Wk 46 (wb 11/9) – Wk 2 (wb 1/6) 1 to 3 days a week per annual River Chum/Steelhead management plan.	

**White River Treaty Net**

Sp. Chinook	Ceremonial and subsistence fisheries.
Coho/Chum	Fishing pattern 7 days/wk.

**Area 11 Recreational**

5/1-5/31	Closed
6/1-6/30	2 fish limit (Chinook 22" min. size), release wild Chinook; Commencement Bay (E. of Cliff House Restaurant/Sperry Ocean Dock line) closed to salmon angling.
7/1-9/30	2 fish limit (Chinook 22" min. size), release wild Chinook; Single-point barbless hooks only. Commencement Bay (E. of Cliff House Restaurant/Sperry Ocean Dock line) closed to salmon angling through 7/31.
10/1-12/31	2 fish limit, release wild Chinook (Chinook 22" min size).
1/1-1/31	Closed
2/1-4/30	2 fish limit (Chinook 22" min size), release wild Chinook. Commencement Bay (E. of Cliff House Restaurant/Sperry Ocean Dock line) closed to salmon angling 4/1-4/30.
Dash Point Dock, Point Defiance Boathouse Dock, Les Davis Pier, Des Moines Pier and Redondo Pier	Year-Round 2 fish limit, 1 Chinook (22" min size).

**Puyallup River Recreational**

(from 11 <sup>th</sup> St. Bridge to Freeman Rd.	8/16 – 12/31	6 fish limit, 2 adults, 12" min size, release wild adult Chinook. Closed August 31, September 1, 7-9, 14-16, 21-24, 28-30, October 1, 5-8, 12-15.
Freeman Rd. to White River	8/11 – 12/31	6 fish limit, 2 adults, 12" min size, release wild adult Chinook. Closed August 31, September 1, 7-9, 14-16, 21-24, 28-30
White River to Carbon River	8/1 – 12/31	6 fish limit, 2 adults, 12" min size, release wild adult Chinook.

**Carbon River Recreational**

(mouth to Voight Creek)	9/1 – 11/30	6 fish limit, 4 adults; no more than 2 adult Chinook may be retained; 12" min size, release Chum and wild adult Chinook.
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All other SOUTH SOUND AREA 11 REGION freshwater recreational Closed to salmon angling

### 3.3 Area 13 Sub region

#### Fox Island/Ketron Island (Area 13)

Chinook	Treaty:	8/1-9/15, 7 days/wk
	Ntrty:	Closed
Coho	Treaty:	9/15-10/20, 7 days/wk
	Ntrty:	Closed
Chum	Treaty:	Closed unless opened by Medicine Creek Treaty Tribes' agreement
	Ntrty:	Closed

#### Area 13 Treaty Net (Ntrty net closed)

Chinook	Closed
Coho	Closed
Chum	Closed

#### Carr Inlet (Area 13A) Treaty Net <sup>1</sup>(Ntrty net closed) <sup>1</sup> Based on Medicine Creek Treaty Tribal proposal annual regulations. Individual Tribal regulations may deviate from this schedule.

Chinook	8/1 - 9/20, 7 days/wk, opens in sections.
Coho	9/14 – 10/25, 7 days/wk, in-season monitoring to meet hatchery escapement need.
Chum	10/26 – 12/6, 7 days/wk.

#### Chambers Bay (Area 13C) Treaty Net<sup>1</sup> (Ntrty net closed)

Chinook	7/27 – 10/11; Beach seines Sunday noon to Tuesday noon. Set nets Wednesday noon to Friday noon.
Coho	10/12 – 11/1; Beach seines Sunday noon to Monday noon. Set nets Monday noon to Tuesday noon.
Chum	11/2 – 11/29; Beach seines Sunday noon to Tuesday noon. Set nets Wednesday noon to Friday noon.

#### Area 13D Treaty Net (Ntrty net closed)

Chinook	7/15 - 9/9 or earlier date dependent on in-season management needs; 7 days/wk
Coho	9/10 -12/31 or earlier date dependent on in-season management needs.
<b>Dana Pass (13D-1)</b>	7 days/wk
<b>Pickering Pass (13D-2)</b>	7 days/wk
<b>Peale Pass (13D-3)</b>	7 days/wk

<b>Southern Case (13D-4)</b>	7 days/wk
Chum	Open approximately 10/19; 2-3 days per week; managed weekly by updates (~10/12).
<b>Area 13E Net</b>	Closed to all fishing
<b>Budd Inlet (Area 13F) Treaty Net (Ntrty net closed)</b>	
Chinook	7/15-9/9 or earlier date dependent on in-season management needs; 7 days/wk 9/10-9/23 open dependent on in-season monitoring to meet hatchery escapement needs.
Coho	Closed
Chum	Open approximately 11/2, 2-3 days per week, managed by weekly in-season updates
<b>Eld Inlet (Area 13G) Treaty Net (Ntrty net closed)</b>	
Chinook	7/15-9/9; opening dependent upon in-season data, outer portion only.
Coho	Closed
Chum	Open approximately 11/2, 2-3 days per week, managed by weekly escapement updates
<b>Totten Inlet (Area 13H) Treaty Net (Ntrty net closed)</b>	
Chinook	8/1-9/9; schedule dependent on in-season data
Coho	Closed
Chum	Open approximately 10/5, 2-3 days per week; managed by weekly escapement updates
<b>Little Skookum Inlet (Area 13I) Treaty Net (Ntrty net closed)</b>	
Chinook	8/1-9/9; schedule dependent upon in-season data
Coho	Closed
Chum	Open approximately 11/30, 2-3 days per week; managed by weekly escapement updates
<b>Hammersley Inlet (Area 13J) Treaty Net (Ntrty net closed)</b>	
Chinook	8/1-9/9 or earlier date dependent on in-season management needs
Coho	Closed
Chum	Open approximately, 9/14 – 12/25, 2-3 days/wk; managed by weekly escapement updates

**Northern Case Inlet (Area 13K) Treaty Net (Ntrty net closed)**

Chinook	7/15-9/9
Coho	9/10-10/31 or earlier date dependent on in-season management needs
Chum	Open approximately 9/14-12/25; 2-3 days/wk; managed by weekly escapement updates

**Nisqually River (Area 83D) Treaty Net (Ntrty net closed)**

Chinook	<p>Gill Net 2 days/wk during the following weeks: Wk 31 (wb 7/27) through Wk 34 (wb 8/17). One day Wk 35 (wb 8/24).</p> <p>Beach Seine (all freshwater immersion beaches from Luhr Beach to East Bank of Red Salmon Slough, McAllister Creek, Red Salmon Slough, and the Nisqually River) 3 days/wk during the following weeks: Wk 36 (wb 8/31) through wk 39 (wb 9/21). Release all unmarked Chinook.</p> <p>Tangle Net 3 daylight days a week Wk 36 (wb 8/31) and Wk 37 (wb 9/7). 2 daylight days a week Wk 38 (wb 9/14) and Wk 39 (wb 9/21). Release all unmarked Chinook.</p>
Coho	<p>Beach Seine (all freshwater immersion beaches from Luhr Beach to East Bank of Red Salmon Slough, McAllister Creek, Red Salmon Slough, and the Nisqually River) 3 daylight days a week Wk 40 (wb 9/28) and Wk 41 (wb 10/5). Release all unmarked Chinook.</p> <p>Tangle Net 2 daylight days a week Wk 40 (wb 9/28) and Wk 41 (wb 10/5). Release all unmarked Chinook.</p> <p>Gill Net 3 days/wk during the following weeks: Wk 42 (wb 10/12) through wk 47 (wb 11/16).</p>
Chum	<p>Proposed schedule: Gill Net 3-4 days/wk during the following weeks: Wk 48 (wb 11/23) through Wk 5 (wb 1/25/2015) per annual Nisqually River Chum/steelhead management plan.</p>

**McAllister Creek (Area 83F) Treaty Net (Ntrty net closed)**

Chinook	Wk 27 (wb 6/29)-Wk 40 (wb 9/28); 3 days/wk
Coho	Wk 41 (wb 10/5)-Wk 48 (wb 11/23); 3-4 days/wk

Chum	Proposed schedule: Wk 49 (wb 11/30) - Wk 5 (wb 1/25/2015); 4 days/wk per annual Nisqually River Chum/steelhead management plan.
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**Area 13 Recreational**

5/1-6/30	2 fish limit (Chinook 22" min. size), Release wild Chinook, Minter Creek mouth closed. 2 pole endorsement
7/1-10/31	2 fish limit (Chinook 22" min. size), Release wild Chinook and wild Coho. Minter Creek mouth closed through 9/30; Lower Budd Inlet closure zone 7/16-10/31. 2 pole endorsement
11/1-4/30	2 fish limit, (Chinook 22" min size). Release wild Chinook. Minter Creek mouth closure begins 4/16. 2 pole endorsement

**Fox Island Pier Recreational**

Year-Round	2 fish limit, 1 Chinook (22" min size)
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**Chambers Creek Estuary Recreational**

(downstream of markers 400' below Boise-Cascade Dam to Burlington Northern Railroad Bridge)	7/1 – 11/15	6 fish limit, 2 adults; 12" min size, release unmarked Coho.
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**Deschutes River Recreational**

Capitol Lake (from outlet to 400' below lowest Tumwater Falls (Deschutes River) fish ladder).	7/1 – 10/15	Closed
(from Old Hwy 99 Bridge on Capitol Blvd in Tumwater to Henderson Blvd Bridge)	7/1 – 10/15	6 fish limit, 2 adults, 12" min size, release Coho.
(upstream of Henderson Blvd Bridge)	7/1 – 10/15	6 fish limit, 2 adults, 12" min size, release Coho.

**Kennedy Creek Recreational**

(mouth to northbound Hwy. 101 Bridge)	10/1 – 11/30	6 fish limit, 2 adults, 12" min size, release unmarked Coho.
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**McAllister Creek Recreational**

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(mouth to Olympia-Steilacoom Rd Bridge)	7/1 – 11/30	6 fish limit, 2 adults, 12" min size.
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**McLane Creek Recreational**

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(from a line 50' north of and parallel to the Mud Bay Rd. Bridge to a line 100' upstream of and parallel to the south bridge on Hwy.101)	Same as Area 13	Same as Area 13
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**Minter Creek Recreational**

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(mouth to 50' downstream of hatchery rack)	11/1 – 12/31	4 fish limit, 12" min size, Chum only.
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**Nisqually River Recreational**

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(mouth to the military tank crossing bridge, one mile upstream of the mouth of Muck Creek)	7/1 – 10/31	6 fish limit, 3 adults, only 2 adults may be any combination of Coho, and Chum; 12" min. size; release wild Chinook. Closed: Aug. 11-13, 18-20, 25-27, Sept. 3-5, 8-10, 15-16, 22-23, 29-30.
	11/1-1/31	6 fish limit, 2 adults, 12" min. size; release wild Chinook.

All other SOUTH SOUND AREA 13 REGION freshwater recreational closed to salmon angling.

#### 4.0 Hood Canal Region (All fisheries modeled in FRAM #2814 (Chinook) & #1416 (Coho))

##### Hood Canal Mainstem (Areas 12, 12B, 12C, 12D)

Treaty: 1,000 foot closure around streams that are closed to net fishing. Beach seines and hook and line gear release Chum through 9/30 (through 10/10 if within 500' of western shore of Areas 12B and 12C).

Nontreaty: See WAC 220-47-307 for Nontreaty exclusion zones.

Chinook	Trty	Areas 12, 12B and 12D: Closed
		Area 12C: Beach seines open wb 7/15 - 8/31; 5 days/wk; release Chum 8/1-8/31. Open wb 7/15 - 8/24 for gillnets 5 days/wk; restricted to 7" min mesh starting 8/1.
		Area 12H: Open wb 7/13 through 9/20; hook and line gear continuous; beach seines daylight hours Tues and Thur each week; possible in-season modifications; Chum release.
	Ntrty	Closed
Coho	Trty	Area 12: Open 9/25 through 10/11 for gillnets. Beach seines for Coho only (release all Chinook and Chum through 9/30) may start no earlier than 9/16. Both gear types open 7 days/wk.
		Area 12B: Open 10/1 through 10/18 for gillnets; 500 foot closure along western shore through 10/10; beach seines for Coho only (release all Chinook and Chum through 9/30) may start no earlier than 9/16. Both gear types open 7 days/wk.
		Area 12C: Open 10/1 through 10/18 for gillnets; with 500 foot beach closure from Ayock Pt. to approx. 2,000 feet south of Lilliwaup (at the large house, north of Octopus Hole) through 10/10; beach seines for Coho (release all Chum through 9/30) may start no earlier than 9/21. Both gear types may fish 7 days/wk when open.
		Area 12D (west of Madrona Pt. - local name): Open for gillnets no earlier than 10/1. Weekly schedules identical to Area 12C.
	Ntrty	Closed

Chum	<p>The Co-Managers have reached agreement on a co-management process to assess and agree on in-season abundance estimation methods, and to define a process for addressing harvest of catch shares ("2012 Co-Management Agreement for Hood Canal Chum Salmon Fisheries"). In order to allow fishing opportunity that allows both the treaty and non-treaty fleets to have the ability to catch their shares, the Chum fishing schedules may be modified if pre-season harvestable abundance and catch shares are changed using the agreed ISU, based on Non-Treaty purse seine cumulative CPUE for October 15 through October 31. Better communication and cooperation is expected from both non-treaty and treaty co-managers to allow both parties the opportunity to access their shares.</p>	
	Trty	<p>Area 12: Open 10/12 through 11/20; 7 d/wk</p> <p>Area 12B: Open 10/19 through 11/20; 7d/wk; except north of an East-West line from Zelatched Point to Seal Rock open through 11/27.</p> <p>Area 12C: Open 10/19 through 11/27; 7d/wk.</p> <p>Area 12D: Closed.</p> <p>Area 12H: Hook and line gear open from 10/12 through 11/29; beach seines open Tuesday and Thursday of each week. Then Monday and Wednesday for the week beginning 11/09; possible in-season adjustments to 3 days/wk. Starting 11/1, hatchery escapement control measures will go into effect.</p>
	Ntrty	<p>Area 12, 12B. Fisheries scheduled wks 42 (wb 10/12) - 47 (wb 11/16): PS Chinook NR; PS fishing pattern: 1,1,1,1,2,1; GN fishing pattern: 2,2,2,2,2 daylight hours. Area closures: PS closed within 2 miles south of Hood Canal Bridge in Wk 44-45. Hazel/Misery point closure open to PS on Wk 44-45 and open to GN for the duration of the season.</p> <p>Area 12C Fisheries scheduled wks 45 (wb 11/2) - 48 (wb 11/23): PS Chinook NR; PS fishing pattern: 1,2,1,1; GN fishing pattern: 2,2,2,2 daylight hours. Fishing is contingent upon the results from the agreed to ISU.</p> <p>Area 12H: BS (Hoodsport Hatchery Zone) fishery in wks 45 – 48 pending discussions with the Co-Managers.</p> <p>Area 12D Closed</p>
<b>Port Gamble (Area 9A)</b>		
Chinook	All	Closed

Coho	Trty	Open wb 8/17 through wb 10/26; 7 days/wk; gillnet only. Ceremonial Harvest of 20 Chinook in August.
	Test	Open wb 8/4 through wb 9/29, gillnet only. 2 days per week.
	Ntrty	Open Wks 35 (wb 8/17) - 44 (wb 10/19) skiff GN limited to 100 fathoms length and 60 meshes in depth; 7 days/wk; Chinook NR; Chum NR through 9/30; release NR fish by cutting ensnaring meshes. The beach area of the Port Gamble Indian Reservation, between Pt. Julia and the boundary marker at the south end of the reservation - closed to all fishing.
Chum	Trty	Open 11/2 through 11/29; 7 days/wk; gillnet only.
	Ntrty	Closed

**Quilcene / Dabob (Area 12A)**

Coho	Trty	Open 8/21 through 10/11; Chum and Chinook release from hook and line and beach seine gear through 9/30; beach seines 5 days/wk, daylight hours. Hook and line fisheries for Coho only, open continuously. Gillnets closed until Summer Chum escapement exceeds 1500. Beach seine advance notification required prior to fishing.
	Ntrty	Beach seine open wks 34 (wb 8/17) – 39 (wb 9/21); Limited participation (4 permits/day); Chinook and Chum NR; fishing pattern 2,5,5,5,5,5; Fishery will be managed consistent with SCSCI, opening no sooner than 8/21. GN closed unless Treaty GN opening.
Chum	Trty	Open to set and drift gillnets wb 10/12 through 11/20, South of an E-W line through Pt. Whitney.
	Ntrty	Closed

**Big Quilcene River (Area 82F) Treaty (Ntrty net closed)**

Coho	Openings to be determined in-season, for Coho only, from 9/1 through 10/15. Closed below Rogers St. From Rogers St. to U.S. Hwy 101, hook and line gear only, release all other salmon. The hatchery area, from U.S. Hwy 101 to the Quilcene Hatchery rack, may be opened for short periods to take surplus Coho. Hand held gear only (dipnets, hand lines, etc.).
Chum	Closed

**Skokomish River (Area 82G) Treaty (Ntrty net closed)  
Purdy Creek (Area 82J) Treaty Net (Ntrty net closed)**

The Skokomish Tribe may develop an evaluation fishery from the mouth of the Skokomish River to the HWY 106 Bridge, to assess Summer Chum incidence during the Tribal Chinook fishery. The study design will be reviewed and agreed to by the co-managers before implementation. The Skokomish Tribe will continue to sample all agreed to fisheries in order to provide weekly in-season updates (i.e. CWT, species, mark status and mark rates). The WDFW will provide weekly in-season updates for Chinook returns to the George Adams Hatchery rack. Note: Hook and line gear and beach seines release Chum through 10/15 above Hwy 106 Bridge.

**Skokomish River – Mouth to HWY 106 Bridge (Area 82G) Treaty (Ntrty net closed)**

Chinook	Open wb 7/13 – wb 7/27, 3 days/wk.
Coho	Open 10/1 – 10/11, 2 days/wk; wb 10/12 – wb 11/02, 7 days/wk.
Chum	Open 11/09 through wb 11/23, 7 days/wk.

**Skokomish River – HWY 106 Bridge to HWY 101 Bridge (Area 82G) Treaty (Ntrty net closed)**

Chinook	Open wb 8/3, 3 days/wk; Open wb 8/10 – wb 8/17, 4 days/wk.
Coho	Open wb 9/14 – wb 10/05, 2 days/wk; wb 10/12 – wb 11/02, 7 days/wk.
Chum	Open 11/09 through wb 11/23; 7 days/wk.

**Purdy Creek (Area 82J) Treaty Net (Ntrty net closed) 250 feet from the confluence/mouth of Purdy Creek to the HWY 101 Bridge (fishing nets may not be attached to any abutment or railings on the HWY 101 Bridge).**

Chinook	Gill Nets only: Open every Saturday beginning July 5 – September 6. In-season adjustments will occur to ensure weekly broodstock targets are achieved.
Chum	Gill Nets, Dip Nets and Hook & Line: Open beginning 11/15 as necessary to reach tribal share.

**Misc. Hood Canal Rivers (Dosewallips, Duckabush, Hamma Hamma, Tahuya, Dewatto, Union)**

All species	Closed to commercial harvest.
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**Area 12 Recreational**

5/1-6/30	Closed
7/1-8/31	North of Ayock Pt. – Closed to salmon angling except see Quilcene/Dabob Bay Recreational below.

9/1-10/15	North of Ayock Pt. (including Quilcene/Dabob Bay) – 4 fish limit, Coho only. Closed in Tarboo Bay N of Broad Spit starting 9/16.
7/1-10/15	South of Ayock Pt. - 4 fish limit, 2 Chinook (Chinook 22" min size); release Chum and wild Chinook.
10/16-12/31	4 fish limit, 2 Chinook (Chinook 22" min size). Release wild Chinook. Closed in Tarboo Bay N of Broad Spit.
1/1-1/31	Closed
2/1-4/30	2 fish limit (Chinook 22" min size), release wild Chinook

**Quilcene/Dabob Bay Recreational**

5/1-8/15	Same as Area 12
8/16-8/31	4 fish limit, Coho only.
9/1-4/30	Same as Area 12

**Hoodspout Hatchery Zone Recreational**

Same as Area 12 except:

7/1-12/31	4 fish limit, no minimum size, only 2 Chinook greater than 24"; Release wild Chinook and Chum 7/1-10/15.
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**Dewatto River Recreational**

(mouth to Dewatto-Holly Rd. Bridge)	10/1 – 10/31	2 fish limit, 12" min size, Coho only.
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**Dosewallips River Recreational**

(mouth to Hwy. 101 Bridge)	11/1 – 12/15	2 fish limit, 12" min size, Chum only.
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**Duckabush River Recreational**

(mouth to Mason Co. PUD #1 overhead electrical distribution line)	11/1 – 12/15	2 fish limit, 12" min size, Chum only.
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**Quilcene River Recreational**

(from Rodgers St. to Hwy 101 Bridge)	8/16 – 10/31	4 fish, 12" min size, Coho only.
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**Skokomish River Recreational**

(mouth to Hwy. 101 Bridge)	8/1 – 9/1	2 fish limit, 12" min size, release wild Chinook and Chum. Closed upstream of Highway 106 bridge Monday through Thursday weekly, except open 7 days per week 8/25 - Labor Day (9/1).
	9/15 – 12/15	6 fish limit, 4 adults, 12" min size, release Chinook and release Chum through 10/15. Terminal gear (hooks, weights, lures or baits) and line must not be within 25' of Tribal gillnets.

**Tahuya River Recreational**

(mouth to marker 1 mile above N. Shore Rd. Bridge)	10/1 – 10/31	2 fish limit, 12" min size, Coho only.
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All other HOOD CANAL REGION freshwater recreational closed to salmon angling.

## 2013 7/7A Chum Fishing Plan

04/08/14

CR 3/16/14  
Revised 5/16/14

In recent years, the U.S. has only landed a small portion of the 130,000 chum salmon allowed to be caught in Area 7/7A under the current Chapter 6 of the Pacific Salmon Treaty (Table 1). In 2013, the co-managers enacted a fishing plan that allowed treaty fishing to open on October 10, and remain open throughout the season. Non-treaty fisheries opened on October 12, 13 and 15 with potential openings on October 17<sup>th</sup> and beyond dependent on the non-treaty catch through the first three days open to fishing. This approach led to the largest percentage of the share harvested under the 2008 PST chum agreement, with treaty catch of 49,400 and non-treaty catch of 30,200. To continue to promote fishing opportunity that allows both the treaty and non-treaty fleets to catch a greater portion of their shares, the co-managers will use the management approach below for the 2014 season. This approach is based on thresholds and treaty schedules identical to those used in 2013, but alternates the dates fished to allow the first three non-treaty openings to occur earlier after October 10 this year.

- Treaty and non-treaty reefnet fisheries will remain open continuously from the end of Fraser management to the end of the chum season or until their respective shares are harvested, whichever comes first. Reefnets release all chum, unmarked coho and unmarked Chinook through September 30. Release all Chinook beginning October 1.
- Treaty purse seine (PS) and gillnet (GN) fisheries will open on Friday October 10, and remain open continuously until the end of the season or until the share is harvested, whichever comes first.
- Non-treaty PS and GN fisheries will open on Saturday October 11, Sunday October 12 and Tuesday October 14.

- The co-managers will meet by conference call on Wednesday, October 15 to exchange and discuss catches through that date. The non-treaty catch will be compared to the thresholds below, with decisions on dates for re-opening purse seine and gillnet fisheries based on those comparisons.
  - If total non-treaty catch is < 15,000, the non-treaty fishery will reopen on Thursday, October 16 and remain open continuously until the end of the season or until the share is harvested, whichever comes first.
  - If total non-treaty catch is >15,000 and <25,000, the non-treaty fishery will reopen Friday, October 17 and remain open continuously until the end of the season or until the share is harvested, whichever comes first.
  - If total non-treaty catch is >25,000, the non-treaty fishery will reopen Saturday, October 18 and remain open continuously until the end of the season or until the share is harvested, whichever comes first.
- The co-managers will also exchange data on bycatch throughout the season, and take appropriate management actions should levels of bycatch greatly exceed expectations.
- The co-managers will meet by conference call and adjust schedules if needed in response to in-season notification by CDFO that returns are below the thresholds identified in Chapter 6, paragraph 10 of the Pacific Salmon Treaty.

Year	NT catch	T catch	Total US catch	Uncaught share
2009	16,406	7,667	24,073	105,927
2010	6,062	17,342	23,404	106,596
2011	24,084	36,401	60,485	69,515
2012	32,157	40,709	72,866	57,134
2013	30,239	49,411	79,650	50,350

April, 2014

**Mark-Selective Chinook Sport Fishery  
Ocean Areas 1 - 4  
2014**

*Handwritten:*  
5-16-14  
CB 5/16/14

The Washington Coastal Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a mark-selective sport fishery in the Pacific Ocean Areas 1 - 4 for the 2014 season. The fishery will be implemented consistent with management objectives defined by the co-managers and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

For 2014, the co-managers further agree that:

- The mark-selective fishing will be limited to the period from May 16-17, May 23-24, (Areas 3 & 4 Only), and May 31 – June 13 (Areas 1-4);
- WDFW will monitor the total Chinook catch and incidental mortalities in Areas 1 – 4 as the fishery progresses and, consistent with federal in-season management procedures for Pacific Fishery Management Council fisheries, will regulate the fishery to ensure that the total catch does not exceed 9000 Chinook.
- Total encounters of marked and unmarked legal and sub legal-size Chinook will be estimated through a monitoring and sampling program (*See OSP Sampling and Monitoring Plan*).

The Fishery Intent

This fishery has been implemented as a mark-selective fishery to provide season stability and increased harvest opportunity for marked Chinook. In addition, the 2014 fishery sampling program is designed to demonstrate the capability to provide data necessary for estimation of impacts on stocks affected by the fishery.

Data Needs for Evaluating the Fishery

WDFW will carry out the monitoring and sampling program described in Attachment A, employing on the water as well as shore-based surveys and sampling techniques, with the intention of collecting data that will form the basis of post-season analyses and evaluation of performance. These monitoring and sampling programs are designed to provide data to estimate, with acceptable levels of accuracy and precision, the following parameters:

- the mark rate in the fishery - marked and unmarked encounters will be estimated for legal and sublegal by both on-water and shore-based programs ;
- the number of fish retained or landed - marked and unmarked fish will be estimated using a shore-based program, including CWT and scale-age sampling;
- the number of unmarked fish released - estimated by on-water and shore-based programs;
- the number of unmarked fish retained - estimated by a shore-based program;
- the number of marked fish released - estimated by a shore-based program in conjunction with on-water programs estimates of mark and encounter rates estimates
- the number of the Chinook encounters that are of sub-legal size - estimated by on water and shore based programs;
- the stock composition of the marked and unmarked mortalities - estimated by CWT data.
- Estimate of the marked and unmarked mortalities of double-index tagged (DIT) and other CWT stocks.

### Post-Season Report

WDFW will provide a post-season report with results of monitoring and sampling programs for the Areas 1-4 mark-selective fishery to the Tribes March 15, 2104. Prior to the 2015 season, WDFW and the tribes will jointly review and analyze available results of the sampling and monitoring program for this fishery, make any necessary changes to the calibration of the fishery assessment model, and evaluate the effectiveness of this fishery program at achieving the intended objectives.

The post-season report will include the estimates described above together with the supporting information collected from monitoring and sampling program. In addition, the report will include estimates of marked and unmarked mortalities of double index-tagged (DIT) and other CWT stocks as described in the section below. The post-season report will include a comparison of independent on-water and shore-based estimates of mark rate, unmarked fish released and sub-legal size fish encountered.

### Data Needs for Post-Season Estimation of Stock-Specific Unmarked Fish Mortalities

The co-managers agree to implement this fishing with the understanding that the capability to estimate stock-specific unmarked fish mortalities is preserved. Methods for estimating unmarked mortalities of double-index tagged CWT stocks within Area 1-4 mark-selective Chinook fishery will be determined jointly by co-managers, considering recommendations of the Selective Fisheries Evaluation Committee of the Pacific Salmon Commission. WDFW will be responsible for reporting the necessary fishery information and data to the PSMFC that allows these estimates to be generated.

In the postseason report (see previous section), WDFW will provide estimates of unmarked mortalities, by DIT group (by stock and age). Unmarked DIT recoveries will be estimated based on estimated recoveries of marked DIT fish and assuming:

1. DIT release numbers provide a reasonable estimate of the unmarked to marked fish ratio; and,
2. the mortality rate for Chinook caught and released in the fishery (sfm) is known.

The assumption that the DIT release numbers provide a reasonable estimate of the unmarked to marked fish ratio will be evaluated through post-season comparisons of DIT tag groups. A design for these comparisons will be developed jointly by the co-managers following the method used in analyzing coho DIT groups. All information from this fishery necessary for making these comparisons is assumed to be included in the sampling design and will be included in the post-season report.

Estimates of total fishery related mortalities, including the total exploitation rate or pre-terminal southern US exploitation rate, that represent the co-managers' management objectives for Washington coastal Chinook management units, are made by combining mortality estimates in mark-selective fisheries with mortality estimates in non-selective fisheries. To ensure that all information necessary to make these estimates is collected, plans for sampling and monitoring of the ocean selective fishery in Areas 1-4 will be included as a component of the ocean regulation management package.

# 2014 OCEAN SAMPLING PROGRAM OPERATING PLAN

## Introduction

The Washington Department of Fish and Wildlife's Ocean Sampling Program (OSP) documents ocean fishery impacts on the salmon and marine fish resources. The program is responsible for monitoring the non-treaty commercial salmon troll fisheries and all sport fisheries in the ocean.

The OSP has historically had three main functions: to estimate catch and effort in quota fisheries and recommend closures when quotas are projected to be met, to estimate catch and effort in non-quota sport fisheries, and to collect biological data such as tags, scales, and length frequency samples from the ocean fisheries. The current structure of the dockside sampling program has consistently produced estimates of catch and effort with coefficients of variation (CVs) less than 5 percent on commonly observed species. In 2014, the OSP intends to continue dockside sampling at the same rate and with similar staff levels as in the past several years.

## Mark-selective fisheries

In response to mass marking and possible selective fisheries, the OSP added an on-water observer program in 1996. A number of on-water data collection techniques have been employed, including (1) ride-along trips on charter boats, (2) observing private boat fisheries from a remote platform, (3) collecting data through catch and release by WDFW biologists, and (4) collecting voluntary angler-completed trip reports (VTRs).

In 2014, the OSP plans to continue an on-water charter boat observer program in the larger coastal ports (Ilwaco and Westport) and a VTR program in all coastal ports in association with dockside sampling. Information collected will include:

- Encounters of marked and unmarked legal and sub legal-size Chinook and coho
- Number of Chinook and coho retained by mark status and size class
- Number of Chinook and coho released by mark status and size class
- Coded wire tags from any sampled tagged Chinook and coho
- DNA from Chinook (collected onboard from both legal and sublegal fish during all fisheries, and collected dockside during non mark-selective Chinook fisheries)

## Post-Season Report

WDFW will provide a post-season report with results of monitoring and sampling programs for the Areas 1-4 mark-selective fishery by March 15, 2015. The post-season report will include the following estimates for mark-selective fisheries:

- the mark rate in the fishery;
- the number of marked fish retained - estimated by the dockside sampling program;
- the number of unmarked fish retained - estimated by the dockside sampling program;
- the number of marked fish released - estimated by the dockside sampling program in conjunction with on-water program estimates of mark and encounter rates estimates;
- the number of unmarked fish released - estimated by on-water and dockside sampling programs;

- the number of the Chinook encounters that are of sub-legal size - estimated by on water and dockside sampling programs;
- the stock composition of the marked and unmarked mortalities - estimated by CWT and (if available) DNA data;
- Estimate of the marked and unmarked mortalities of double-index tagged (DIT) and other CWT stocks;
- Estimate of total fishery mortality.

## **GOALS OF THE OCEAN SAMPLING PROGRAM**

The goals of the Ocean Sampling Program are:

- 1) To generate in-season estimates of total catch used to keep quota non-treaty troll and sport fisheries within their assigned catch quotas.
- 2) To generate post-season estimates of total catch and effort for all species.
- 3) To collect coded wire tags (CWTs) from salmon used to estimate stock contribution by fishery, area, and time period.
- 4) To collect scale samples used to estimate age distribution of Chinook in the ocean fisheries.
- 5) To estimate the unmarked coho and Chinook retention rates in the selective fisheries.
- 6) To estimate ratios of released to retained coho and Chinook.
- 7) To estimate the total number of handled coho and Chinook (marked plus unmarked) in the selective fisheries.
- 8) To estimate the ratio of marked to unmarked coho and Chinook encountered in selective fisheries.
- 9) To estimate the drop-off rates in selective fisheries.
- 10) To estimate the ratio of Chinook to coho encountered.
- 11) To estimate the ratio of sublegal to legal size Chinook encountered by mark status.
- 12) To estimate a recall error rate for the release of sublegal and unmarked salmon by comparing on-water and VTR data to dockside reports for the sport fishery.
- 13) To collect genetic tissue samples from Chinook landed in the recreational fisheries used to estimate stock composition.

## **DOCKSIDE SAMPLING**

### **Sampling Objectives**

The specific objectives of the OSP dockside monitoring are as follows:

- 1) Collect catch and effort data sufficient to generate in-season and post-season estimates of total catch, released fish, and effort for all sport fisheries with CVs of 5% or less on commonly observed species. In-season catch estimates will be produced for all quota fisheries on a weekly (or more frequent) basis; post-season final catch estimates will be produced for these fisheries as well as all non-quota sport fisheries. Time strata will be statistical week periods for all salmon and halibut fisheries, statistical month periods for non-quota fisheries.
- 2) Examine, using electronic detection devices, a minimum of 20 percent of the landed

- catch of from the selective sport fisheries for the presence of CWTs and collect any CWTs encountered.
- 3) Collect scales from a minimum of 5% of landed Chinook per stratum, with one stratum defined as a period of one statistical week per fishery, area, and gear.
  - 4) From the recreational fishery, collect genetic tissue samples from Chinook with accompanying scale samples as possible.

### **Sampling Unit**

The standard unit of sample is one boat trip for sport fisheries.

### **Assumptions**

- 1) All boats exiting or entering the port are included in the exit/entrance count.
- 2) Catch and effort from sampled boats is representative of the entire port.
- 3) Anglers answer questions accurately and do not conceal fish.

### **Data Collected**

The following data will be collected by the OSP:

- 1) The dockside sampling scheme is designed to sample charter boats, and private boats at an overall rate of no less than 20 percent. Weekend and weekday days are stratified in the sport fishery. Data collected include number of anglers, landed catch by species, released catch by species (sport fisheries only), mark status of both landed and released salmon, and CWT status for all salmon (using electronic detection devices).
- 2) Scales will be collected from a minimum of 5% of landed Chinook per stratum in sport fisheries.
- 3) Tissue samples for genetic stock identification with accompanying scales will be collected from Chinook as possible in the non-mark selective recreational fishery.

### **Methods**

Dockside samplers will be stationed in the four major landing ports for the ocean fisheries: Neah Bay, La Push, Westport, and Ilwaco (including the port of Chinook and the Cape Disappointment launching ramp). Staff levels for the Chinook mark selective fishery will be 5 dockside samplers in Neah Bay, 2 samplers in La Push, 5 dockside samplers in Westport, and 5 samplers in Ilwaco collecting dockside data; staff levels will be increased in Neah Bay, Westport, and Ilwaco for the higher-effort all-species salmon fishery. Each port will be sampled a minimum of 4 to 5 days per week, with weekend and weekday days stratified. On each sample day, a total sport boat count will be obtained either by counting boats exiting the port or entering the port. A minimum of 20% of the boats returning to the port within each boat type (charter and private) will be included in the sample, which has historically provided weekly catch estimates with CVs no higher than 5%. The data described above will be collected for each boat sampled.

## **Analysis**

The 1991 Washington Department of Fisheries Progress Report number 289, by Lai et. al., details the methodologies used to estimate ocean catch and effort statistics from the data collected dockside by the OSP.

The Chinook tissue samples collected for genetic stock identification will be stored for processing and analysis when funding is available.

## **ON-WATER MONITORING AND VTR PROGRAM**

### **SAMPLING OBJECTIVES:**

The specific objectives of the OSP on-water monitoring and VTR program are as follows:

1. Ride along on charter vessels in Areas 1 & 2 four days per week during the mark-selective Chinook fisheries to collect information on Chinook encounters by mark status and size class, drop-offs, and encounters of other salmon and non-salmon species. Charter boat ride-along trips may also occur in Area 4 if opportunity exists. The goal is to collect 100 total Chinook encounters per stratum. Stratum will initially be defined as one statistical month in one area, but may be modified if fishing patterns warrant.
2. Distribute and collect VTRs in all coastal ports throughout the Chinook mark selective fisheries with the goal of collecting 100 total Chinook encounters per stratum. Stratum will initially be defined as one statistical month in one area, but may be modified if fishing patterns warrant.
3. Provide post-season comparison of data observed through on-water observation and VTRs with parameters used preseason in the Chinook FRAM models.

### **SAMPLING UNITS AND SAMPLE SIZES**

For on-water Chinook mark selective fishery monitoring, the standard unit of sample is one coho or Chinook encounter to the boat. A total of 100 total encounters of each species are planned per stratum for on-water monitoring, with the goal being to define a stratum as a period of one statistical month per catch record card area. This level of sampling should provide estimates within +/- 10% with a 95% confidence interval.

### **ASSUMPTIONS**

- 1) The on-water sample of observed salmon encounters is representative of the fleet.
- 2) On-water samplers do not record the outcome of a hookup if it is not observed.
- 3) The presence of on-water observers does not change angler behavior.
- 4) On-water observers are able to correctly categorize each observed hookup.
- 5) Volunteers completing trip reports fish in a manner representative of the fishing fleet.
- 6) Volunteers are able to correctly identify and record salmon and mark status.

### **METHODS**

A number of strategies will be employed to meet the mark selective fishery monitoring goals:

- 1) **Dockside interviews:** Dockside interviews will be used in all major coastal ports (Neah Bay, La Push, Westport, and Ilwaco) in the sport fisheries to estimate the unmarked coho and Chinook retention rates and ratios of released to retained coho and Chinook. This method will be employed in all ports. See methods described above.
- 2) **Voluntary angler trip reports:** Sport anglers, including WDFW staff, will be approached and requested to complete a trip report while fishing in selective fisheries. Sport fishing volunteers will record the date, area fished, number of anglers aboard the vessel, and for each hookup: species hooked, result of hookup (fish kept, released, or dropped off), mark status, and size class (legal vs. sublegal). This method will be employed in all ports, and is the primary source of MSF data in the La Push and Neah Bay areas.
- 3) **Charter boat ride-along trips:** WDFW observers will ride along aboard charter boats, collecting the following data for each encounter on the boat: date, area fished, species hooked, result of hookup (fish kept, released, or dropped off), mark status, and size class (legal vs. sublegal). DNA, length, and scale samples will be collected from as many Chinook as possible, with sublegal Chinook taking priority over legal sized Chinook. Any non-salmon by-catch encountered will also be documented. This method will be employed in Ilwaco and Westport, and possibly in Neah Bay during the selective sport fisheries.
- 4) **Non-selective fisheries:** Ratios of marked to unmarked coho and Chinook from non-selective fisheries could be applied to concurrent selective fisheries, when appropriate. These could include Treaty and non-Treaty troll fisheries and any non-selective recreational fisheries.

Voluntary trip reports will be issued to and collected from as many recreational private boat anglers as possible and to charter boat operators in Areas 3 (La Push) and 4 (Neah Bay). Three staff coast-wide will be dedicated specifically to VTR distribution, splitting their between Ilwaco, Westport, La Push, and Neah Bay dependent on effort and need. In La Push and Neah Bay, one sampler will be dedicated 5 days per week to handing out and explaining VTRs beginning at 5:00 AM as boats prepare to exit port. In Westport and Ilwaco, samplers will begin handing out and explaining VTRs at 5:00 AM on an average of one weekend day and 2 weekdays per week. In all ports, salmon anglers will be asked for completed VTRs as they are sampled upon return, and will be offered a blank VTR if they plan to fish for salmon the following day.

One dedicated charter on-board observer will be stationed in each of Area 2 (Westport), and Area 1 (Ilwaco). Two to 4 ride-along trips per week will be conducted, depending on encounter levels and need, with observers collecting data as described above. Ride-alongs may also occur in Area 4 (Neah Bay) if sizeable charter vessels are available.

## ANALYSIS

Mark selective fishery data will be analyzed post-season and compared to the PFMC Chinook Fishery Regulation Assessment Model (FRAM) assumptions used pre-season. Specifically, the combination of dockside data, observer data, and voluntary trip reports will be used to estimate the following:

- actual mark rate in the fishery,

- the number of fish retained or landed by mark status,
- the number of fish released by size class and mark status,
- the MSF compliance rate (proportion of unmarked Chinook landed) ,
- the total number of Chinook encounters by size class and mark status,
- the total number of Chinook mortalities by size class and mark status,
- the stock composition of mortalities by mark status using CWT recoveries, and
- the number of double-index tagged mortalities by mark status.

Total Chinook encounters in the Area 1-4 Chinook mark-selective fishery will be estimated using the bias-corrected approach developed by Conrad and McHugh (2008). Briefly, with the Conrad and McHugh (2008) method, Chinook encounters are estimated by dividing the estimate of legal-marked Chinook harvest by the estimated proportion of the fishable Chinook population that is of legal size and marked –this constitutes our former “Method 2” approach (WDFW 2008a). Given that the former “Method 2” approach yields negatively biased estimates if anglers release any of the legal-marked Chinook they encounter, Conrad and McHugh estimated a “correction” factor to account for this phenomenon and incorporated it into their estimator. Applying Conrad and McHugh’s (2008) approach, total Chinook encounters is estimated by dividing the estimate of legal-marked Chinook harvest by the estimated proportion of the fishable Chinook population that is of legal size and marked.

April 23, 2014

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## 2014 Summer Mark-Selective Sport Fishery Marine Area 6

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 6 during the 2014 summer season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The summer Chinook MSF in Marine Area 6 will occur from July 1, 2014 through August 15, 2014, only in the portion of the area west of a true north/south line through buoy #2 near the tip of Ediz Hook. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

Sampling efforts will be conducted consistent with the 'Baseline Sampling Design' (see Attachment A). The size and mark-status of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). Total Chinook encounters and associated mortalities resulting from the Area 6 summer MSF will be estimated using the 'CRC for Encounters' methodology, described in Attachment A. WDFW will employ the appropriate number of staff during the Area 6 summer MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will compile a comprehensive post-season report for all summer Chinook MSFs conducted in Marine Areas 5-13 by February 1, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 6 summer MSF. A full analysis of impact estimates (total encounters and mortalities by size and mark-status) resulting from the Area 6 MSF, in addition to estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A will be provided at a later date, as Catch Record Card estimates become available (see Attachment A).

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CB 5/16/14

## 2014 Summer Mark-Selective Sport Fishery Marine Area 5

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 5 during the 2014 summer season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The summer Chinook MSF in Marine Area 5 will occur from July 1, 2014 through August 15, 2014. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

The preseason modeled expected catch is 6,296 Chinook in Area 5 (FRAM 2814). WDFW plans to manage this fishery as a season, beginning and ending on the agree-to dates (above). However, if in-season catch estimates indicate that the magnitude of this fishery is deviating significantly from expectations, WDFW will modify the fishery to control impacts on stocks of concern.

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Reduced Murthy' sampling design to monitor the Area 5 summer MSF and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). WDFW will employ the appropriate number of staff during the Area 5 summer MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with bi-weekly in-season catch and effort estimates beginning the week ending July 18, 2014.

WDFW will compile a comprehensive post-season report for all summer Chinook MSFs conducted in Marine Areas 5-13 by February 1, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 5 summer MSF, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

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CB 5/16/14

## 2014 Summer Mark-Selective Sport Fishery Marine Areas 9 & 10

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement Chinook salmon mark-selective fisheries (MSFs) in Marine Areas 9 and 10 during the 2014 summer season. These fisheries will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of these fisheries on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate these mark-selective fisheries.

### Fishery Regulations

The summer Chinook MSF in Marine Areas 9 and 10 will occur between July 16 and August 15, 2014. Anglers will be allowed a daily limit of one hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

The preseason modeled expected catch is 3,218 Chinook in Area 9 and 1,112 Chinook in Area 10 (FRAM 2814). WDFW will manage these fisheries not to exceed the above catch quotas. Upon reaching the quota, each area will convert to Chinook non-retention.

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Full Murthy' sampling design to monitor the Areas 9 and 10 summer MSFs and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using test fishing data. WDFW will employ the appropriate number of staff during the Areas 9 and 10 summer MSFs in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with weekly in-season catch and effort estimates beginning the week ending July 25, 2014.

WDFW will compile a comprehensive post-season report for all summer Chinook MSFs conducted in Marine Areas 5-13 by February 1, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Areas 9 and 10 summer MSFs, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

April 23, 2014

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## 2014 Summer Mark-Selective Sport Fishery Marine Area 11

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 11 during the 2014 summer season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The summer Chinook MSF in Marine Area 11 will occur from June 1, 2014 through September 30, 2014. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

The preseason modeled estimate of total legal-sized encounters for the Area 11 summer MSF is 5,472 Chinook (FRAM 2814). If at any time during the fishery in-season estimates indicate that total legal-sized encounters for the fishery will exceed this preseason modeled estimate by more than 10%, WDFW will modify the fishery to control impacts on stocks of concern.

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Reduced Murthy' sampling design to monitor the Area 11 summer MSF and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). WDFW will employ the appropriate number of staff during the Area 11 summer MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with bi-weekly in-season catch and effort estimates beginning the week ending June 20, 2014.

WDFW will compile a comprehensive post-season report for all summer Chinook MSFs conducted in Marine Areas 5-13 by February 1, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 11 summer MSF, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

April 23, 2014

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## 2014 Summer Mark-Selective Sport Fishery Marine Area 12

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 12 during the 2014 summer season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The summer Chinook MSF in Marine Area 12 will occur from July 1, 2014 through September 30, 2014, only in the portion of the area located south of Ayock Point. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

Sampling efforts will be conducted consistent with the 'Baseline Sampling Design' (see Attachment A). The size and mark-status of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). Total Chinook encounters and associated mortalities resulting from the Area 12 summer MSF will be estimated using the 'CRC for Encounters' methodology, described in Attachment A. WDFW will employ the appropriate number of staff during the Area 12 summer MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will compile a comprehensive post-season report for all summer Chinook MSFs conducted in Marine Areas 5-13 by February 1, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 12 summer MSF. A full analysis of impact estimates (total encounters and mortalities by size and mark-status) resulting from the Area 12 MSF, in addition to estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A will be provided at a later date, as Catch Record Card estimates become available (see Attachment A).

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## 2014 Summer Mark-Selective Sport Fishery Marine Area 13

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 13 during the 2014 summer season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The summer Chinook MSF in Marine Area 13 will occur from May 1, 2014 through September 30, 2014. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

Sampling efforts will be conducted consistent with the 'Baseline Sampling Design' (see Attachment A). The size and mark-status of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). Total Chinook encounters and associated mortalities resulting from the Area 13 summer MSF will be estimated using the 'CRC for Encounters' methodology, described in Attachment A. WDFW will employ the appropriate number of staff during the Area 13 summer MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will compile a comprehensive post-season report for all summer Chinook MSFs conducted in Marine Areas 5-13 by February 1, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 13 summer MSF. A full analysis of impact estimates (total encounters and mortalities by size and mark-status) resulting from the Area 13 MSF, in addition to estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A will be provided at a later date, as Catch Record Card estimates become available (see Attachment A).

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 5

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 5 during the 2014-2015 winter season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 5 will occur from October 1 to October 31, 2014 and from February 16 to April 10, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

#### *October 1 – October 31, 2014:*

Due to concerns regarding high angler participations, WDFW will employ the 'Reduced Murthy' sampling design during the October portion of the Area 5 winter MSF and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). WDFW will employ the appropriate number of staff in an effort to meet or exceed the sampling rate goal of 20%.

#### *February 16 – April 10, 2015:*

Sampling efforts during the February through April portion of the fishery will be conducted consistent with the 'Baseline' sampling design (see Attachment A). Total Chinook encounters and associated mortalities resulting from this segment of the Area 5 winter MSF will be estimated using the 'CRC for Encounters' methodology, described in Attachment A. WDFW will employ the appropriate number of staff during the Area 5 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with preliminary catch and effort estimates from the October Area 5 winter MSF during the week following the October 31, 2014 closure.

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 5 winter MSF. A full analysis of impact estimates (total encounters and mortalities by size and mark-status) resulting from the Area 5 MSF, in addition to estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A will be provided at a later date, as Catch Record Card estimates become available (see Attachment A).

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 6

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 6 during the 2014-2015 winter season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 6 will occur from December 1, 2014 to April 10, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Aerial Access' sampling design to monitor the Area 6 winter MSF and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). WDFW will employ the appropriate number of staff during the Area 6 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with bi-weekly in-season catch and effort estimates beginning the week ending December 19, 2014.

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 6 winter MSF, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 7

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 7 during the 2014-2015 winter season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 7 will occur from October 1 to October 31, 2014 and from December 1, 2014 to April 30, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

The preseason modeled estimate of total encounters for the Area 7 winter MSF is 7,774 Chinook (FRAM 2814). If at any time during the fishery in-season estimates indicate that total encounters for the fishery will significantly exceed this preseason modeled estimate, WDFW will modify the fishery to control impacts on stocks of concern.

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Aerial Access' sampling design to monitor the Area 7 winter MSF and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using test fishing data. WDFW will employ the appropriate number of staff during the Area 7 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with bi-weekly in-season catch and effort estimates beginning the week ending December 19, 2014.

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 7 winter MSF, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

## 2014-15 Winter Mark-Selective Sport Fishery Marine Areas 8-1 and 8-2

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement Chinook salmon mark-selective fisheries (MSFs) in Marine Areas 8-1 & 8-2 during the 2014-2015 winter season. This fisheries will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of these fisheries on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate these mark-selective fisheries.

### Fishery Regulations

The winter Chinook MSFs in Marine Areas 8-1 & 8-2 will occur from November 1, 2014 through April 30, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

The preseason modeled estimate of total encounters for the Areas 8-1 & 8-2 winter MSFs is 8,341 Chinook (FRAM 2814). If at any time during the fishery in-season estimates indicate that total encounters for the fishery will significantly exceed this preseason modeled estimate, WDFW will modify the fishery to control impacts on stocks of concern.

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Reduced Murthy' sampling design to monitor the Area 8-1 & 8-2 winter MSFs and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). WDFW will employ the appropriate number of staff during the Area 8-1 & 8-2 winter MSFs in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with bi-weekly in-season catch and effort estimates beginning the week ending November 21, 2014.

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring programs during the Area 8-1 & 8-2 winter MSFs, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 9

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 9 during the 2014-2015 winter season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 9 will occur from November 1 to November 30, 2014 and from January 16 to April 15, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

The preseason modeled estimate of total encounters for the Area 9 winter MSF is 6,518 Chinook (FRAM 2814). If at any time during the fishery in-season estimates indicate that total encounters for the fishery will exceed this preseason modeled estimate by more than 10%, WDFW will modify the fishery to control impacts on stocks of concern.

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Aerial Access' sampling design to monitor the Area 9 winter MSF and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using test fishing data. WDFW will employ the appropriate number of staff during the Area 9 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with bi-weekly in-season catch and effort estimates beginning the week ending November 21, 2014.

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 9 winter MSF, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 10

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 10 during the 2014-2015 winter season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 10 will occur from October 1, 2014 through January 31, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

The preseason modeled estimate of total encounters for the Area 10 winter MSF is 3,679 Chinook (FRAM 2814). If at any time during the fishery in-season estimates indicate that total encounters for the fishery will exceed this preseason modeled estimate by more than 10%, WDFW will modify the fishery to control impacts on stocks of concern.

### Sampling Design and Estimation Methodologies

WDFW will employ the 'Reduced Murthy' sampling design to monitor the Area 10 winter MSF and estimate total encounters and associated mortalities of legal, sublegal, marked and unmarked Chinook (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using test fishing data. WDFW will employ the appropriate number of staff during the Area 10 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will provide the co-managers with bi-weekly in-season catch and effort estimates beginning the week ending October 17, 2014.

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 10 winter MSF, a full analysis of impact estimates (total encounters and mortalities by size and mark-status), and estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A.

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 11

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 11 during the 2014-2015 winter season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 11 will occur from October 1 to December 31, 2014 and from February 1 to April 30, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

Sampling efforts will be conducted consistent with the 'Baseline Sampling Design' (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). Total Chinook encounters and associated mortalities resulting from the Area 11 winter MSF will be estimated using the 'CRC for Encounters' methodology, described in Attachment A. WDFW will employ the appropriate number of staff during the Area 11 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 11 winter MSF. A full analysis of impact estimates (total encounters and mortalities by size and mark-status) resulting from the Area 11 MSF, in addition to estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A will be provided at a later date, as Catch Record Card estimates become available (see Attachment A).

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 12

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 12 during the 2014-2015 winter season. period October 1 to December 31, 2014 and February 1 to April 30, 2015. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan (March, 2004), the WDFW-Tulalip management plan for hatchery origin fish (2005 Memorandum of Understanding), and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 12 will occur from October 1 to December 31, 2014 and from February 1 to April 30, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

Sampling efforts will be conducted consistent with the 'Baseline Sampling Design' (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). Total Chinook encounters and associated mortalities resulting from the Area 12 winter MSF will be estimated using the 'CRC for Encounters' methodology, described in Attachment A. WDFW will employ the appropriate number of staff during the Area 12 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 12 winter MSF. A full analysis of impact estimates (total encounters and mortalities by size and mark-status) resulting from the Area 12 MSF, in addition to estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A will be provided at a later date, as Catch Record Card estimates become available (see Attachment A).

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## 2014-15 Winter Mark-Selective Sport Fishery Marine Area 13

The Northwest Treaty Tribes and the Washington Department of Fish and Wildlife (WDFW) have reached agreement to implement a Chinook salmon mark-selective fishery (MSF) in Marine Area 13 during the 2014-2015 winter season. This fishery will be implemented consistent with management objectives defined by the co-managers' Puget Sound Chinook Harvest Management Plan, the WDFW-Tulalip management plan for hatchery origin fish, and established principles concerning the allocation of harvestable salmon and the exercise of treaty rights. The co-managers will seek to minimize or eliminate any unintended effects of this fishery on individual treaty fisheries, including dislocation and/or disruption. Therefore, treaty fisheries will not be modified in order to accommodate this mark-selective fishery.

### Fishery Regulations

The winter Chinook MSF in Marine Area 13 will occur from October 1, 2014 to April 30, 2015. Anglers will be allowed a daily limit of up to two hatchery Chinook. All sub-area closures included in the 2014-15 Co-Managers' List of Agreed Fisheries will remain in effect for the agreed-to dates.

### Fishery Thresholds

WDFW will manage this fishery as a season, beginning and ending on the agreed-to dates (above).

### Sampling Design and Estimation Methodologies

Sampling efforts will be conducted consistent with the 'Baseline Sampling Design' (see Attachment A). The size and mark-status composition of the targeted Chinook population will be estimated using Voluntary Trip Reports (VTRs). Total Chinook encounters and associated mortalities resulting from the Area 13 winter MSF will be estimated using the 'CRC for Encounters' methodology, described in Attachment A. WDFW will employ the appropriate number of staff during the Area 13 winter MSF in an effort to meet or exceed the sampling rate goal of 20%.

### Reporting Schedule

WDFW will compile a comprehensive post-season report for all winter Chinook MSFs conducted in Marine Areas 5-13 by November 30, 2015. This report will include a summary of the information collected as part of our sampling and monitoring program during the Area 13 winter MSF. A full analysis of impact estimates (total encounters and mortalities by size and mark-status) resulting from the Area 13 MSF, in addition to estimates of marked and unmarked mortalities of Double Index-Tagged (DIT) and other CWT stocks as described in Attachment A will be provided at a later date, as Catch Record Card estimates become available (see Attachment A).

## Puget Sound Chinook Mark-Selective Sport Fisheries

### Attachment A

Based on agreements between the State of Washington and the Northwest Treaty Tribes, the Washington Department of Fish and Wildlife (WDFW) has been conducting recreational mark-selective Chinook fisheries (MSFs) in the marine catch areas of Puget Sound since 2003. This attachment outlines the general intent, data needs, sampling and monitoring plans, estimation methodologies, and reporting schedules associated with these fisheries.

#### *Fishery Intent*

Agreed-to Chinook MSFs (see attached Fishery Management Plans for specific fisheries and dates) will be conducted in Marine Areas 5-13 during the summer and winter seasons to provide recreational fishing opportunity directed at hatchery Chinook salmon, while limiting impacts on wild stocks of conservation concern, particularly ESA-listed Puget Sound Chinook. Sampling and monitoring programs will be implemented along with these fisheries in order to provide the information necessary to evaluate and plan potential future Chinook MSFs. Prior to next fishing season, WDFW and the tribes will jointly review and analyze results of the sampling and monitoring programs for these fisheries to evaluate the effectiveness at achieving the intended objectives.

#### *Data Needs for Evaluating the Fishery*

Monitoring, sampling and reporting programs will be implemented by WDFW for the purpose of providing the data necessary to estimate the impact of these MSFs on unmarked Chinook and to support the evaluation of future MSFs.

These monitoring and sampling programs are designed to provide data to estimate the following parameters:

- Mark rate in the fishery – marked and unmarked encounters will be estimated using test fishing, voluntary trip reporting (VTR) or dockside sampling programs.
- Number of marked Chinook retained – estimated using dockside sampling programs
- Number of unmarked Chinook retained – estimated using dockside sampling programs
- Number of marked Chinook released – estimated using dockside sampling and test fishing or VTR programs
- Number of unmarked Chinook released – estimated using dockside sampling and test fishing or VTR programs
- Number of Chinook encounters of sublegal size - estimated using dockside sampling and test fishing or VTR programs
- Stock composition of mortalities – estimated using CWT data collected during dockside sampling
- Mortalities of marked and unmarked double-index tagged (DIT) and other CWT stocks

The co-managers agree to implement these fisheries with the understanding that the capability to estimate stock-specific unmarked fish mortalities is preserved. Methods for estimating unmarked mortalities of DIT-CWT stocks within these MSFs have been determined jointly by the co-managers, considering recommendations of the Selective Fisheries Evaluation Committee of the Pacific Salmon Commission.

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WDFW will be responsible for reporting the necessary fishery information and data to the Pacific States Marine Fishery Commission that allows these estimates to be generated.

Estimates of total fishery related mortalities, including the total exploitation rate or the Southern US exploitation rate, that represents the management objective for Puget Sound Chinook management units under the co-managers' Harvest Management Plan, will be made by combining the mortality estimate for each Marine Area's mark-selective fishery with mortality estimates in other selective and non-selective fisheries. To ensure that all information necessary to make these estimates is collected, plans for sampling and monitoring of all fisheries will be included as a component of the co-managers' annual pre-season agreement.

## ***Sampling Components***

### Dockside Sampling

WDFW samplers collect biological data and information regarding effort and catch by conducting angler interviews at assigned access sites. During interviews, samplers acquire data on the number of anglers fishing in each boat, the Marine Catch Area(s) fished, trip duration, trip intent (targeted species) and fish encounter composition (kept and/or released by species). When an interviewed party possesses Chinook or coho salmon, samplers inspect the fish for CWTs using wand detectors and collect snouts from CWT-positive individuals for later lab processing. Samplers also take length measurements and collect scale samples from landed Chinook. Lastly, samplers attempt to obtain information on fishing method in order to inform test-fishing methodologies.

### Effort Surveys

#### *On-the-Water Surveys*

On-the-water Interviews (Boat Surveys) are conducted to provide information on the proportion of effort in a fishery originating from certain access sites. During these surveys, samplers attempt to intercept all anglers on the water in a given fishery and determine where they intend to tie up or exit the fishery upon completing their trip. This provides us with a list of sites (ramps/launches) used to access the fishery as well as information on the relative amount of use (# of anglers) each site receives. Based on this information we designate a "sample-frame" of 5-6 of the highest use access sites for each fishery, from which we select sample sites for dockside creel sampling. Information from the boat surveys also allows us to estimate the total effort that originates from non-sampled sites and include it in our estimates.

#### *Aerial Surveys*

Aerial effort surveys are conducted in fisheries where Boat Surveys are infeasible due to large survey areas and unsafe boating conditions. During these surveys flights are conducted to count the total number of boats on the water in a fishery. The sample-frame (sites where we station samplers) consists of the three to four access sites expected to be of highest use in the fishery. Paired with interviews conducted at these sites, the aerial surveys provide information on the proportion of total fishery effort that originates from non-sampled sites, enabling expansion of observed dockside counts to fishery-wide totals.

### Size/Mark-status Composition Estimates

#### *Test Fishing*

Test fishing is used to obtain accurate estimates of the size and mark-status composition of the Chinook population being targeted by a fishery. When included in the sampling design for a given fishery, it is

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conducted for the duration of the fishery. Test fishers spend approximately five days per week on the water attempting to mimic the behavior of the recreational fishing fleet. Fishing method information from dockside interviews is used to inform the methods used by test fishers and efforts are focused at locations that mirror choices made by the at-large private fleet. For each fish brought to the boat, test fishers record the encounter number, time sampled, species and mark-status. For all Chinook, test fishers record the fork length and total length and collect DNA and scale samples.

### *Voluntary Trip Reports*

Voluntary Trip Reports (VTRs) are completed and returned by a subset of private fleet anglers to obtain additional information on Chinook encounter rates by size class and mark-status. Anglers are asked to record the date, number of anglers, target species, Marine Catch Area, and for each Chinook or coho hooked, whether the fish was kept or released, legal or sublegal sized, and marked (adipose clipped) or unmarked.

### *Sampling and Monitoring Plans*

For complete details regarding the following sampling plans and associated assumptions, see the WDFW Methods Report (WDFW 2012).

#### Full Murthy

The Full Murthy sampling design is the most intensive of the four sampling plans. It utilizes intensive dockside sampling, on-the-water effort surveys and test fishing data to provide precise estimates of Chinook catch and effort, along with total encounters and associated mortalities. VTRs are also collected to be used as supplements to test fishing data, if necessary.

Dockside sampling is conducted on five days during each week. Sampling strata are divided into weekday (Monday through Thursday) and weekend (Friday, Saturday and Sunday) strata. During each week,  $n=2$  out of  $N=4$  days are randomly selected for sampling from the Monday through Thursday stratum. In addition, every Friday, Saturday, and Sunday is sampled. Samplers are stationed at two ramps on each of the selected sampling days. Samplers achieve 100% sampling coverage at the assigned ramps from approximately dawn until dark in order to intercept all boats. All anglers and fish exiting the fishery through the sampled sites will be counted. Any boats that are missed at the sampled sites will be counted and recorded on the sampling forms.

Sites from the sample frame for a given fishery are selected for sampling via a weighted-random site selection process (probability proportional to size). Initially, site selection is based on site size measures calculated from on-the-water survey data obtained during the previous year's fishery. Once the initial surveys are completed during the current year, updated size measures of sites in our sample frame are calculated based on the current year's data.

#### Reduced Murthy

The Reduced Murthy sampling design is a scaled-back version of the Full Murthy sampling design. It utilizes intensive dockside sampling, on-the-water effort surveys and test fishery or VTR data, depending on the fishery.

The main difference between the Reduced Murthy and Full Murthy is a reduced dockside sampling frequency. Dockside sampling is conducted on  $n=6$  out of  $N=14$  days during each two week period. Sampling strata are divided into weekday (Monday through Thursday) and weekend (Friday, Saturday and Sunday) strata. During each two-week period,  $n=2$  out of  $N=8$  days are randomly selected for sampling. In addition,  $n=2$  out of  $N=3$  days are randomly selected for sampling during each weekend.

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Samplers are stationed at two ramps on each of the selected sampling days. Samplers achieve 100% sampling coverage at the assigned ramps from approximately dawn until dark in order to intercept all boats. All anglers and fish exiting the fishery through the sampled sites will be counted. Any boats that are missed at the sampled sites will be counted and recorded on the sampling forms.

Sites from the sample frame for a given fishery are selected for sampling via a weighted-random site selection process (probability proportional to size). Initially, site selection is based on site size measures calculated from on-the-water survey data obtained during the previous year's fishery. Once the initial surveys are completed during the current year, updated size measures of sites in our sample frame are calculated based on the current and previous year's data.

Unlike the Full Murthy sampling design, where test fishing is a mandatory component, some fisheries sampled with the Reduced Murthy sampling design will utilize a test fishery while others will use VTR data to estimate the size and mark-status composition of the targeted Chinook population. For details regarding a specific fishery, see the attached management plan for that fishery.

### Aerial Access

The Aerial Access sampling design is a modified version of the Reduced Murthy sampling design that uses aerial effort surveys in place of on-the-water effort surveys. Dockside sampling frequencies are the same as those for the Reduced Murthy, however, instead of sampling at two sites (selected from the sampling-frame) on each sample day, samplers are stationed at all sites designated in the sample-frame (three to four sites of moderate to high effort). For each flight, the sample fraction is estimated by pairing the aerial total boat counts with the sample-frame total for boats active during the flight period (determined from dockside interviews). This allows for an expansion of estimates to account for out-of-frame effort.

As with the Reduced Murthy, fisheries monitored using the Aerial Access design may or may not include a test fishery. Those with no test fishery will use VTRs to provide an estimate of the size and mark-status composition of the targeted Chinook population.

### Baseline

The Baseline sampling design is a less intensive monitoring program that includes dockside sampling and interviews and the collection of VTR data. Baseline sampling is opportunistic in nature, with overall sampling effort allocated across space and time in a manner that maximizes the number of angler interviews obtained per sample effort. While dockside sampling procedures remain the same as in other sampling designs, the frequency of sample days may be slightly reduced. The main difference between Baseline and other, more intensive, sampling designs is the absence of effort surveys. Due to this, Baseline sampling data cannot be used to produce in-season or immediate post-season estimates absolute catch and effort. These estimates become available at a later date through the WDFW Catch Record Card system, allowing further fishery evaluation including total Chinook encounters and associated mortalities by size and mark-status.

### ***Estimation Methods***

For fisheries monitored using the Full Murthy, Reduced Murthy and Aerial Access sampling designs, WDFW will produce periodic in-season and post-season estimates of catch and effort. To estimate total Chinook encounters and associated mortalities by size and mark-status category, WDFW will use the agreed-to 'bias-corrected M2' methodology (Conrad & McHugh 2008, WDFW 2012).

Fishery-total catch and effort estimates for fisheries monitored using the Baseline sampling design will be available approximately 1 to 1½ years after the close of the fishery, via the WDFW Catch Record Card system. Once these estimates are available, the appropriate methods for estimation of total encounters

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and mortalities will be determined using the decision support schematic provided in the 'CRC for Encounters' report (WDFW & NWIFC 2013). For fisheries with adequate sample sizes of VTR encounters, this involves the 'bias-corrected M2' approach, as mentioned above. In situations where VTR sample sizes are insufficient, total encounters and mortalities will be estimated using an 'M1' approach, where the size and mark-status composition of the Chinook population is estimated using dockside sampling data (see WDFW & NWIFC 2013 for details).

### ***Reporting***

For some fisheries, WDFW will provide the co-managers with in-season updates of fishery performance (see attached Fishery Management Plans for details).

Following each summer and winter season, WDFW will compile a comprehensive post-season report for all Chinook MSFs conducted in Marine Areas 5-13. These reports will include a summary of the information collected as part of each fishery's sampling and monitoring program. In addition, for fisheries sampled using the Full Murthy, Reduced Murthy and Aerial Access sampling designs, the reports will also include:

- Weekly estimates of effort and number of Chinook caught and released, by mark-status
- Estimates of total Chinook encounters and associated mortalities by size and mark-status
- Comparisons of total encounters with pre-season FRAM modeled projections
- Comparisons of mortalities with pre-season FRAM modeled projections
- Estimated fishery-total mortalities of marked and unmarked DIT Chinook, by stock and age

### ***References***

- Conrad R and McHugh P. 2008. Assessment of Two Methods for Estimating Total Chinook Salmon Encounters in Puget Sound/Strait of Juan de Fuca Mark-Selective Chinook Fisheries. Northwest Fishery Resource Bulletin, Manuscript Series Report No 2. <http://wdfw.wa.gov/publications/00492>
- Washington Department of Fish and Wildlife (WDFW). 2012. Methods Report: Monitoring Mark-Selective Recreational Chinook Fisheries in the Marine Catch Areas of Puget Sound (Areas 5 through 13). Revised Draft Report: January 30, 2012. Olympia, Washington. <http://wdfw.wa.gov/publications/01357/>
- Washington Department of Fish and Wildlife (WDFW) and Northwest Indian Fisheries Commission (NWIFC). 2013. Estimating Total Chinook Encounters using Catch Record Card-Based Estimates of Harvest. Draft Report: November 26, 2013. Olympia, Washington.

TABLE 1: DESCRIPTION OF FISHERY REGULATIONS AND SUMMARY OF CHINOOK CATCH TARGETS

Run Number: **FinalChin2814** Version: 2.12  
 Run Description: 2014 Preseason Planning  
 Impacts are expressed as total fishery-related mortality, which includes landed catch, non-retention mortality, and other fishery-related mortality; not to be used for allocation computations.

TABLE 1  
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Fishery	Fishery-related Mortality	Fishery Description and/or Comments:
<b>CANADIAN (B.C.) FISHERIES:</b>		
WCVI Troll/Sport	223,790	2014 TAC per PSC Abundance Index + IM
Area 20 Net	522	2013 post season catch + projected IM
Georgia St./JDF Troll	0	Incidental mortality
Georgia St./JDF Sport	64,764	Preliminary 2013 post season
<b>SOUTH OF CAPE FALCON:</b>		
		April PFMC Preseason Report
<b>NORTH OF CAPE FALCON OCEAN:</b>		
Treaty Ocean Troll:	77,229	TAC 62,500 chinook
NT Ocean Troll	83,318	TAC 56,900 chinook
NT Ocean Sport	73,877	TAC 54,600 chinook (no MSF = 50,100)
NT NOF Impacts:	157,194	
4B Add-on		Included with Area 4
Canadian License catch	0	(For Areas 4 and 4B)
Buoy 10	>>>>	see In-River models
<b>PUGET SOUND SPORT &amp; TROLL:</b>		
Treaty Strait&Winter Troll	5,748	4,000 for winter troll; 950 JDF summer troll

## Final 2014 PFMC NT 111.5K, T 62.5K

Puget Sound Sport (landed + non-retention mortality):

Area	Mortality	Description
Area 5	11,742	5/1-6/30 clsd; 7/1-8/15, bag 2 plus 2 so, co & ch MSF, cm NR; 8/16-9/18, bag-2 plus 2 so through 8/31, co MSF, ch and cm NR; 9/19-9/25, bag-2, ch NR, cm NR; 9/26-9/30, bag-2, co MSF, ch NR, cm NR; 10/1-10/31 bag 2, ch and co MSF; 11/01-2/15 clsd; 2/16-4/10, bag 2, ch MSF; 4/11-4/30 clsd; Kydaka closure 7/1-10/31
Area 6	7,629	5/1-6/30 clsd; 7/1-8/15 bag 2 plus 2 so, co & ch MSF expt ch NR East of Ediz, cm NR; 8/16-9/30, bag 2 plus 2 so through 8/31, co MSF, ch & cm NR; 10/1-10/31 bag-2, 1 ch; 11/1-11/30 clsd; 12/1-4/10, 2 bag, ch MSF; 4/11-4/30 clsd; Dungeness Bay, 10/1-10/31, 2 bag, coho only; FW Bay closure 7/1-10/31, PA Har clsd 7/1-10/31, Dung Bay clsd 11/1-9/30, Sequim & Disco Bays clsd 10/1-10/31
Area 7	9,642	5/1-6/30 clsd; 7/1-7/31, bag-2 plus 2 so, 1ch; 8/1-9/30, bag-2 plus 2 so through 8/31, 1ch, co MSF, cm NR; 10/1-10/31, bag 2, ch and co MSF; 11/1-11/30 clsd; 12/1-4/30 bag-2, ch MSF; B'Bay, 8/16-9/30, 4- bag, 2 ch; B'Bay, 10/1-10/31, 4 bag, 2 ch, ch MSF; S. Rosario & E. JDF clsd 7/1-9/30; B Bay - clsd 4/1 thru 8/15; Samish Bay - clsd 7/1-10/31; Lummi Res/Bay clsd 9/2-10/15
Areas 8-1,2 8D	4,316	5/1-7/31 clsd; 8/1-9/30, bag-2, ch NR, 10/1-10/31 bag-2, ch NR; 11/1-4/30, bag-2, ch MSF; Area 8-2 5/1-7/31 clsd; 8/1-10/31, bag-2, ch NR; 11/1-4/30, 2 bag, ch MSF; Tulalip, 5/30-6/20 Fri- noon Mon, 2 bag, 6/22-9/1 Fri-noon Mon, 2 bag, 2 pole option, 9/6-9/21 Sat & Sun, 2 bag, 2 pole option
Area 9	8,913	5/1-6/30 clsd; 7/1-7/15, 2, ch&cm NR; 7/16-8/15, bag-2, 1 ch MSF, cm NR; 8/16-9/30, bag-2, ch & cm NR; 10/1-10/31, bag-2, ch NR; 11/1-11/30, bag-2, ch MSF; 12/1-1/15 closed; 1/16-4/15, bag-2, ch MSF; 4/16-4/30 clsd; Edmnds YR, bag 2, 1 ch, 8/1-9/30, cm NR
Ar 10, 10A, 10E	3,766	5/1-5/31, closed; 6/1-6/30 C&R; 7/1-7/15, bag-2, ch NR; 7/16-8/15, bag-2, 1 ch MSF, cm NR; 8/16-9/30, bag-2, ch NR, cm NR through 9/15; 10/1-1/31, bag-2, ch MSF; 2/1-4/30 closed; Shilshole clsd 7/1-8/31; Agate Fly Only 1/1-3/31; Elliot Bay, 7/1-9/31 clsd; Sinc TAF, 7/1-9/30, bag-3, 2 pole option, ch MSF, cm NR 8/1-9/15; Piers Yr-round, bag-2, 1 ch, cm NR 8/1-9/15
Area 11	5,817	5/1-5/31 clsd; 6/1-12/31, bag-2, ch MSF; 1/1-1/31 clsd; 2/1-4/30, bag-2, ch MSF. Commencement Bay closure: 4/1-4/30 and 6/1-7/31. Piers Yr-Round: Dash Pt, Pt Def., Les Davis, Des Moines, & Redondo, bag-2, 1 ch
Area 13	2,050	5/1-6/30, bag-2, ch MSF, 2 pole option; 7/1-10/31, bag-2, ch & co MSF, 2 pole option; 11/1-4/30, bag-2, ch MSF, 2 pole option; Minter closed 4/16-9/30; Budd closures 7/16-10/31; Fox Island Yr-Round: bag-2, 1 ch
Area 12	3,392	Entire Area: 5/1-6/30 clsd; So. Ayock 7/1-10/15, bag-4, 2 ch, cm NR, ch MSF; No. Ayock 7/1-8/31 clsd; 9/1-10/15, bag-4 coho only; Entire Area: 10/16-12/31, bag -4, 2 ch, ch MSF; 1/1-1/31 clsd; 2/1-4/30 bag-2, ch MSF; Hoodsport: 7/1-12/31, bag -4, 2 ch, ch MSF, cm NR through 10/15; Quilcene: 8/16-10/15, bag-4 coho only; northern Dabob Bay 9/16-12/31 clsd

PUGET SOUND NET:	JUL-SEP	Oct-Apr	TOTAL
JDF Net (4B/5/6C/6)	0	0	0
Treaty	1,584	21	1,647
SJI Net (7/7A) NT	3,086	60	3,145
Treaty	4,792	30	4,822
B6/9Net NT			
Treaty	680	1	681

### 2014 Total Mortality (Fraser Panel and other)

JDF Chinook: Trty (GN): 6/22 through 8/16, Set Gillnet Only, 7 days/wk  
 JDF Sockeye/Pink: Trty (GN): wb 7/20 through wb 9/14, Schedule TBD by Fraser Panel  
 JDF Coho: Trty (GN): end of Fraser Panel control through 10/11, 6 days/wk  
 JDF Chum: Trty (GN): 10/12 through 11/8, 6 days/wk  
 SJI Coho: Ntry RN - Open 7 d/wk from end of Fraser Panel control thru chum (wb 11/02), MSF co&ch thru 9/30, cm NR though 9/30, ch NR after 9/30  
 Trty RN - Open 7 d/wk from end of Fraser Panel control thru chum (wb 11/02), MSF co, MSF ch, cm NR through 9/30; co non-MSF, ch NR after 9/30  
 SJI Sockeye/Pink: Ntrty (GN/PS/RN) Schedule TBD by Fraser Panel, modeled as weeks 31-33, 1-2-1, and 35-37, 4-4-4, PS co, cm & ch NR, RN MSF co&ch (ch 300 cap).  
 Trty (GN/PS/RN) Schedule TBD by Fraser Panel, modeled as: wk 32 (wb 8/03) thru wk 37 (wb 9/7).  
 Ntrty (GN/PS/RN): Opens wk 41 (wb 10/5), PS & GN schedule to be determined with co-mgr. modeled wks 41-46, 2-7-7-7-7, PS co&ch NR, RN: 7 days/wk with release requirements per coho fishery.  
 SJI Chum: Trty (GN/PS/RN): Schedule TBD by Co-Managers, modeled as: wk 41 (wb 10/5) - wk 45 (wb 11/2). RN: 7 days/wk with release requirements per coho fishery.

**Table 2.** Total, southern US (SUS), and SUS preterminal (PT) exploitation rates (ER) and natural escapements of Puget Sound chinook stocks (MSF compatible). Management criteria are: LAT = Low Abundance Threshold, ERC = ER Ceiling, and CERC = Critical ER Ceiling.

Stock	Model Prediction				Management Criteria				Notes
	Tot. ER	SUS ER	SUS PT ER	Natural Escapement	Escape-ment LAT	ERC type	ERC type	CERC type	
Spring/Early: Nooksack (n) - Total North Fork South Fork	35.1%	<u>6.35%</u>	2.2%	260 176 85	2,000 1,000 1,000	7% SUS	7% SUS	SUS	Can be >7% but <9% in 1/5 years; last year >7%, 2011
Skagit (n) - Total Upper Sauk Upper Cascade Suiattle	<u>32.8%</u>	19.4%	7.0%	1,243 635 308 300	576 130 170 170	38% Total	18% SUS	SUS	
White	<u>19.3%</u>	17.1%	2.5%	1,516	200	20% Total	15% SUS	SUS	
Dungeness	56.3%	<u>2.8%</u>	2.4%	287	500	10% SUS	6% SUS	SUS	
Summer/Fall: Skagit - Total Upper Skagit Sauk Lower Skagit	<u>42.6%</u>	18.3%	4.7%	15,070 11,606 649 2,556	4,800 2,200 400 900	50% Total	15% SUS	SUS	CERC = 17%/15% odd/even years
Stillaguamish (n) - Total North Fork Summer South Fork Fall	18.3%	<u>7.4%</u>	4.7%	823 682 141	700 500 200	25% Total	15% SUS	SUS	
Snohomish (n) - Total Skykomish Snoqualmie	<u>20.3%</u>	9.8%	8.0%	4,427 2,790 1,637	2,800 1,745 521	21% Total	15% SUS	SUS	**Can manage to CERC b/c North ER > (ERC-CERC)
Lake Wa. (Cedar R.)	40.0%	<u>20.0%</u>	9.7%	654	200	20% SUS	10% PT SUS	PT SUS	
Green	32.7%	12.8%	<u>9.7%</u>	2,746	1,800	15% PT SUS	12% PT SUS	PT SUS	Managed to 12% in 2014
Puyallup	<u>49.5%</u>	29.6%	9.7%	1,683	500	50% Total	12% PT SUS	PT SUS	
Nisqually	<u>52.0%</u>	34.41%	14.8%	3,542	700	52% Total	17% SUS	SUS	50% red. SUS LAT 500 weir, 700 total (H+N)
Western Strait-Hoko	29.3%	<u>7.4%</u>	7.4%	2,448	500	10% SUS	6% SUS	SUS	
Elwha	55.1%	<u>2.4%</u>	2.3%	5,518	1,000	10% SUS	6% SUS	SUS	LAT 500 N+500 H
Mid-Hood Canal tribs. (n)	26.5%	10.9%	<u>10.7%</u>	469	400	15% PT SUS	12% PT SUS	PT SUS	
Skokomish	<u>49.8%</u>	34.3%	11.1%	1,544	800	50% Total	12% PT SUS	PT SUS	LAT also incl. 500 to hatch.

SRFI = 0.478 (0.70 ceiling)  
Lower Col Nat Tule ER = 41.0 (0.41 ceiling)

FRAM Version: 2.12  
FRAM Description: 2014 Preseason Planning  
FRAM Run Number: FinalChin2814

**Table 2A. Model projected impact rates relative to 2014 ESA conservation objectivesFinalChin2814.**

Model Run Name: FinalChin2814 Run Date & Time: 04/16/14 09:44

Model Run Guideline Summary**					
Stock	ESA ER Limit	Model ER Projection	Difference (ESA - Model)	ER Limit Type	Comments
<b>Spring/Early Stocks:</b>					
Nooksack	7.0%	6.4%	0.6%	SUS	
Skagit	38.0%	32.8%	5.2%	Total	
White	20.0%	19.3%	0.7%	Total	
Dungeness	6.0%	2.8%	3.2%	SUS	
<b>Summer/Fall Stocks:</b>					
Skagit	50.0%	42.6%	7.4%	Total	
Stillaguamish	15.0%	7.4%	7.6%	SUS	
Snohomish	15.0%	9.8%	5.2%	SUS	Can manage to SUS limit in 2014 due to high Northern ER
Lake WA (Cedar R.)	20.0%	20.0%	0.0%	SUS	
Green	12.0%	9.7%	2.3%	PT SUS	Managed to 12% PT SUS in 2014
Puyallup	50.0%	49.5%	0.5%	Total	
Nisqually	52.0%	52.0%	0.0%	Total	
Western Strait-Hoko	10.0%	7.4%	2.6%	SUS	
Elwha	10.0%	2.4%	7.6%	SUS	
Mid-Hood Canal tribs.	15.0%	10.7%	4.3%	PT SUS	Higher escapement allows for 15% vs. 12% of recent past
Skokomish	50.0%	49.8%	0.2%	Total	

\*\*ESA Limit Definitions

- (1) Exploitation Rate (ER): the fraction of total mortality (i.e., in fisheries and on spawning grounds) that occurs in fisheries; fishery mortality includes landed and non-landed components and accounts for the likelihood that a fish, had it not been killed in a fishery, would have survived to maturity
- (2) Total ER: The exploitation rate across all fisheries, Alaska, Canada, Southern US, freshwater and marine.
- (3) Southern US ER (SUS): The exploitation rate across all fisheries, excluding mortality in Canadian and Alaskan fisheries.
- (4) Preterminal Southern US ER (PT SUS): The SUS ER excluding fishing mortality in terminal net and freshwater sport and net fisheries.

**TABLE 1: DESCRIPTION OF FISHERY REGULATIONS AND SUMMARY OF COHO CATCH TARGETS**

Fishery Regulation Assessment Model Run Number: coho1416  
 Run Description: PFMC 2014 April Final Col Riv updated  
 Impacts expressed as total fishery-related mortality, including landed catch, non-retention mortality, and other fishery-related mortality, except where noted.

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Fishery	Catch + Mortality	Comments
<b>CANADIAN (B.C.) FISHERIES:</b>		
WCVI Troll	3,189	Incidental
Area 20 Net	1,627	Incidental and Test Fishery
Georgia St. Sport	21,986	Selective fishery
Georgia St. Troll	0	Assumes no Gulf troll fishery
<b>SOUTH OF CAPE FALCON 140,139</b>		
		Sport TAC 80,000 selective and 20,000 non-selective
<b>NORTH OF CAPE FALCON OCEAN:</b>		
Treaty Ocean Troll	61,768	TAC 57,500
NT Ocean Troll	50,223	Troll TAC 35,200 selective
NT Ocean Sport	216,834	Sport TAC 184,800 coho, selective
NT North-of-Falc. total:	267,057	
4B Add-on	0	4B Add-on fishery of 0
Canadian License catch	50	(For Areas 4 and 4B) Landed catch only
Buoy 10	58,049	Sport 50,000 selective

**Final 2014 PFMC Coho  
 NT 220K, T 57.5K**

**PUGET SOUND SPORT & TROLL:**  
 Treaty Strait Troll 262 Source data for treaty troll are from 2008-2013.

Puget Sound Sport: Area 5	39,404	5/1-6/30 clsd; 7/1-8/15, bag 2 plus 2 so, co & ch MSF, cm NR; 8/16-9/18, bag-2 plus 2 so through 8/31, co MSF, ch and cm NR; 9/19-9/25, bag-2, ch NR, cm NR; 9/26-9/30, bag-2, co MSF, ch NR, cm NR; 10/1-10/31 bag 2, ch and co MSF; 11/01-2/15 clsd; 2/16-4/10, bag 2, ch MSF; 4/11-4/30 clsd; Kydaka closure 7/1-10/31
Area 6	3,553	5/1-6/30 clsd; 7/1-8/15 bag 2 plus 2 so, co & ch MSF expt ch NR East of Ediz, cm NR; 8/16-9/30, bag 2 plus 2 so through 8/31, co MSF, ch & cm NR; 10/1-10/31 bag-2, 1 ch; 11/1-11/30 clsd; 12/1-4/10, 2 bag, ch MSF; 4/11-4/30 clsd; Dungeness Bay, 10/1-10/31, 2 bag, coho only; FW Bay closure 7/1-10/31, PA Har clsd 7/1-10/31, Dung Bay clsd 11/1-9/30, Sequim & Disco Bays clsd 10/1-10/31
Area 7	806	5/1-6/30 clsd; 7/1-7/31, bag-2 plus 2 so, 1ch; 8/1-9/30, bag-2 plus 2 so through 8/31, 1ch, co MSF, cm NR; 10/1-10/31, bag 2, ch and co MSF; 11/1-11/30 clsd; 12/1-4/30 bag-2, ch MSF; B'Bay, 8/16-9/30, 4- bag, 2 ch; B'Bay, 10/1-10/31, 4 bag, 2 ch, ch MSF; S. Rosario & E. JDF clsd 7/1-9/30; B Bay - clsd 4/1 thru 8/15; Samish Bay - clsd 7/1-10/31; Lummi Res/Bay clsd 9/2-10/15
Area 8-1	1,147	5/1-7/31 clsd; 8/1-9/30, bag-2, ch NR, 10/1-10/31 bag-2, ch NR; 11/1-4/30, bag-2, ch MSF;
Area 8-2	6,076	5/1-7/31 clsd; 8/1-10/31, bag-2, ch NR; 11/1-4/30, 2 bag, ch MSF; Tutalip, 5/30-6/20 Fri- noon Mon, 2 bag, 6/22-9/1 Fri-noon Mon, 2 bag, 2 pole option, 9/6-9/21 Sat & Sun, 2 bag, 2 pole option
Area 9	15,981	5/1-6/30 clsd; 7/1-7/15, 2, ch&cm NR; 7/16-8/15, bag-2, 1 ch MSF, cm NR; 8/16-9/30, bag-2, ch & cm NR; 10/1-10/31, bag-2, ch NR; 11/1-11/30, bag-2, ch MSF; 12/1-1/15 closed; 1/16-4/15, bag-2, ch MSF; 4/16-4/30 clsd; Edmds YR, bag 2, 1 ch, 8/1-9/30, cm NR
Area 10	10,679	5/1-5/31, closed; 6/1-6/30 C&R; 7/1-7/15, bag-2, ch NR; 7/16-8/15, bag-2, 1 ch MSF, cm NR; 8/16-9/30, bag-2, ch NR, cm NR through 9/15; 10/1-1/31, bag-2, ch MSF; 2/1-4/30 closed; Shilshole clsd 7/1-8/31; Agate Fly Only 1/1-3/31; Elliot Bay, 7/1-9/31 clsd;
Area 11	2,815	Sinc TAF, 7/1-9/30, bag-3, 2 pole option, ch MSF, cm NR 8/1-9/15; Piers Yr-round, bag-2, 1 ch, cm NR 8/1-9/15, 5/1-5/31 clsd; 6/1-12/31, bag-2, ch MSF; 1/1-1/31 clsd; 2/1-4/30, bag-2, ch MSF. Commencement Bay closure: 4/1-4/30 and 6/1-7/31. Piers Yr-Round: Dash Pt, Pt Def., Les Davis, Des Moines, & Redondo, bag-2, 1 ch
Area 13	510	5/1-6/30, bag-2, ch MSF, 2 pole option; 7/1-10/31, bag-2, ch & co MSF, 2 pole option; 11/1-4/30, bag-2, ch MSF, 2 pole option; Minter closed 4/16-9/30; Budd closures 7/16-10/31; Fox Island Yr-Round: bag-2, 1 ch
Area 12	1,540	Entire Area: 5/1-6/30 clsd; So. Ayock 7/1-10/15, bag-4, 2 ch, cm NR, ch MSF; No. Ayock 7/1-8/31 clsd; 9/1-10/15, bag-4 coho only; Entire Area: 10/16-12/31, bag -4, 2 ch, ch MSF; 1/1-1/31 clsd; 2/1-4/30 bag-2, ch MSF; Hoodspout: 7/1-12/31, bag -4, 2 ch, ch MSF, cm NR through 10/15; Quilcene: 8/16-10/15, bag-4 coho only; northern Dabob Bay 9/16-12/31 clsd

PUGET SOUND NET:	JUL	AUG	SEP	OCT-DEC	TOTAL
JDF 4B/5/6C Net NTrty	0	0	0	0	0
Trty	734	1,602	510	2,179	5,025
SJI 6/7/7A Net NTrty	0	272	941	2,012	3,225
Trty	0	307	928	4,384	5,619

2014 Total Mortality (Fraser Panel and other)

JDF Chinook: Trty (GN): 6/22 through 8/16, Set Gillnet Only, 7 days/wk  
 JDF Sockeye/Pink: Trty (GN): wb 7/20 through wb 9/14, Schedule TBD by Fraser Panel  
 JDF Coho: Trty (GN): end of Fraser Panel control through 10/11, 6 days/wk  
 JDF Chum: Trty (GN): 10/12 through 11/8, 6 days/wk  
 SJI Coho: Ntrty RN - Open 7 d/wk from end of Fraser Panel control thru chum (wb 11/02), MSF co&ch thru 9/30, cm NR though 9/30, ch NR after 9/30  
 Trty RN - Open 7 d/wk from end of Fraser Panel control thru chum (wb 11/02), MSF co, MSF ch, cm NR through 9/30; co non-MSF, ch NR after 9/30  
 SJI Sockeye/Pink: Ntrty (GN/PS/RN) Schedule TBD by Fraser Panel, modeled as weeks 31-33, 1-2-1, and 35-37, 4-4-4, PS co, cm & ch NR, RN MSF co&ch (ch 300 cap).  
 Trty (GN/PS/RN) Schedule TBD by Fraser Panel, modeled as: wk 32 (wb 8/03) thru wk 37 (wb 9/7).  
 Ntrty (GN/PS/RN): Opens wk 41 (wb 10/5), PS & GN schedule to be determined with co-mgr. modeled wks 41-46, 2-7-7-7-7, PS co&ch NR, RN: 7 days/wk with release requirements per coho fishery.  
 SJI Chum: Trty (GN/PS/RN): Schedule TBD by Co-Managers, modeled as: wk 41 (wb 10/5) - wk 45 (wb 11/2). RN: 7 d/wk with release requirements per coho fishery

TABLE 2A: COHO FISHERY IMPACT SUMMARY HIGHLIGHTS

Estimated fishery impacts from regulations described by the following FRAM run:

FRAM Run Number: coho1416  
 Run Description: PFMC 2014 April Final CR updated

04/09/14  
 1:30 PM

Impacts are expressed as total fishery-related mortality, incl. landed catch, non-retention mort., and other fishery-related mort. Trty/NonTrty splits are NOT based on CWT recovery data.

FISHERY	ALL STOCKS MORTALITY			SKAGIT				STILLY	SNOHOM	STILLAGUAMISH/SNOHOMISH		
	Marked	UnMarked	Total	Wild	Marked	UnMarked	Total	Wild	Wild	Marked	UnMarked	Total
Projected Spawning Escapement				69,804	6,873	71,354	78,226	22,147	104,765	36,585	129,760	166,345
Spawning Low/Normal Esc. Breakpoint				25,000				10,000	50,000			
Projected Exploitation Rate (all fisheries)				38.1%				32.0%	30.4%			
Exploitation Rate Ceiling				60%				50%	60%			
Exploitation in Southern U.S. Fisheries				37%				31%	30%			
CANADIAN	69,910	767,242	837,152	1,184	761	1,209	1,970	174	802	2,123	1,001	3,124
ALASKA	99,697	3,093,270	3,192,967	2	0	2	2	0	0	0	0	0
S. of Falcon Troll	6,596	6,552	13,148	28	3	29	32	8	36	18	45	63
S. of Falcon Sport	92,281	34,709	126,990	70	30	71	101	25	115	196	141	337
NORTH OF CAPE FALCON OCEAN:												
Treaty Troll	31,629	30,138	61,767	3,953	448	4,035	4,483	736	3,407	1,629	4,240	5,869
NT Troll N. Leadbtr	17,945	5,151	23,096	341	105	348	453	95	438	495	545	1,040
NT Troll S. Leadbtr	22,883	4,245	27,128	94	27	96	123	26	121	137	150	287
Sport: Area 1	97,304	8,448	105,752	48	26	49	75	10	46	108	58	166
Buoy 10	52,542	5,507	58,049	3	2	3	5	0	1	2	1	3
Area 2	72,184	9,134	81,318	213	113	217	330	48	223	505	278	783
Area 3	5,033	761	5,794	42	23	43	66	16	75	171	93	264
Area 4 *	20,059	3,912	23,971	711	383	725	1,108	110	510	1,135	635	1,770
PUGET SOUND:												
Treaty Troll	122	140	262	17	2	18	20	12	55	27	69	96
Sport: Areas 5	28,854	10,550	39,404	1,920	677	1,960	2,637	430	1,991	2,613	2,478	5,091
Area 6	2,192	1,361	3,553	336	75	343	418	45	207	215	258	473
Area 7	587	218	805	48	21	49	70	3	16	28	20	48
Area 8-1,2	1,384	5,839	7,223	849	94	867	961	714	3,919	782	4,736	5,518
Area 9	7,369	8,612	15,981	1,820	197	1,858	2,055	482	2,233	1,012	2,779	3,791
Area 12	819	722	1,541	3	0	3	3	0	0	0	0	0
Area 10	6,609	4,070	10,679	414	46	422	468	45	209	98	260	358
Area 11	1,470	1,345	2,815	23	3	24	27	8	35	16	44	60
Area 13	396	113	509	6	2	6	8	0	1	1	1	2
Freshwater Sport	n/a	n/a	n/a	4,339	n/a	n/a	5,852	1,100	4,984	301	6,197	6,498
Pre-terminal net:												
6/7/7A NTrty	1,759	1,466	3,225	156	18	159	177	6	27	14	33	47
6/7/7A Trty	3,206	2,413	5,619	228	25	232	257	7	32	15	39	54
4B/5/6C NTrty	0	0	0	0	0	0	0	0	0	0	0	0
4B/5/6C Trty	2,364	2,662	5,026	411	45	419	464	89	409	186	509	695
6B/9 NTrty	0	0	0	0	0	0	0	0	0	0	0	0
6B/9 Trty	0	0	0	0	0	0	0	0	0	0	0	0
Terminal net:												
Skagit Bay (8) NTrty	0	0	0	0	0	0	0	0	0	0	0	0
Skagit Bay (8) Trty	80	621	701	597	72	612	684	1	4	2	5	7
Area 8A NTrty	564	468	1,032	86	9	88	97	57	296	259	363	622
Area 8A Trty	14,259	22,540	36,799	4,053	432	4,137	4,569	2,772	14,385	12,435	17,659	30,094
Hood Canal NTrty	5,483	3,788	9,271	25	2	25	27	6	31	12	38	50
Hood Canal Trty	23,734	14,856	38,590	44	4	44	48	15	71	28	88	116
South Pgt Snd NTrty	1,731	1,066	2,797	20	2	20	22	5	25	10	31	41
South Pgt Snd Trty	36,949	8,545	45,494	120	12	122	134	31	143	64	179	243
B'ham Bay(7B) NTrty	7,744	3,144	10,888	171	18	18	18	5	21	10	27	37
B'ham Bay(7B) Trty	19,483	8,678	28,161	749	80	765	845	20	90	40	113	153
Local Extreme Terminal Net:												
Nontreaty	Refer to TAMMs for individual stocks			0	0	0	0	32	147	265	187	452
Treaty	"			18,469	1,499	18,741	20,240	3,269	10,607	18,973	14,394	33,367
Test	"			1,440	208	1,485	1,693	n/a	n/a			

\* Area 4 Sport numbers include 4B add-on, if any, and a number of fish caught on Canadian licenses in areas 4 and 4B.  
 FRAM assumes that there are no changes in the relative exploitation rates of model stocks estimated from the base period (1986-91). The possibility exists that with the changes to the structure of a fishery the relative exploitation rates of the stock may change as well, though an analysis of the data has yet to be done.

RECAPITULATION OF IMPACTS ACCOUNTING:	WILD	TOTAL	WILD	WILD	TOTAL
Nontreaty Total Wild Impacts:	11,766	15,133	3,276	15,707	27,801
Treaty Total Wild Impacts:	28,641	31,744	6,952	29,203	70,694
Amt NT above (or below) T:	(16,875)	(16,611)	(3,676)	(13,496)	(42,893)
Nontreaty Wild Impacts w/o SOF:	11,668	15,000	3,243	15,556	27,401
Treaty Wild Impacts w/o SOF:	28,641	31,744	6,952	29,203	70,694
Amt NT above (or below) T w/o SOF:	(16,973)	(16,744)	(3,709)	(13,647)	(43,293)

**TABLE 2B: COHO FISHERY IMPACT SUMMARY HIGHLIGHTS**

Estimated fishery impacts from regulations described by the following FRAM run:

FRAM Run Number:

coho1416

1

04/09/14

1:30 PM

Run Description:

PFMC 2014 April Final CR updated

Impacts are expressed as total fishery-related mortality, incl. landed catch, non-retention mort., and other fishery-related mort. Trty/NonTrty splits are NOT based on CWT recovery data.

FISHERY	HOOD CANAL				JUAN DE FUCA TRIBUTARIES			
	Wild	Marked	UnMarked	Total	Wild	Marked	UnMarked	Total
Projected Spawning Escapement	21,161	16,109	23,215	39,324	11,073	5,609	12,388	17,997
Spawning Low/Normal Esc. Breakpoint	10,750			39,324	7,000			17,997
Projected Exploitation Rate (all fisheries)	55.7%				12.0%			
Exploitation Rate Ceiling	65%				40%			
Exploitation in Southern U.S. Fisheries	54%				10.78%			
CANADIAN	636	5,252	744	5,996	86	529	108	637
ALASKA	13	19	15	34	67	75	80	155
S. of Falcon Troll	19	27	24	51	10	9	10	19
S. of Falcon Sport	35	227	42	269	71	125	85	210
NORTH OF CAPE FALCON OCEAN:								
Treaty Troll	1,688	2,453	1,974	4,427	357	400	428	828
NT Troll N. Leadbtr	198	645	231	876	39	127	46	173
NT Troll S. Leadbtr	38	118	44	162	14	42	17	59
Sport: Area 1	28	193	33	226	8	43	9	52
Buoy 10	7	46	8	54	0	0	0	0
Area 2	115	764	135	899	25	128	30	158
Area 3	67	449	78	527	4	25	5	30
Area 4 *	340	2,345	398	2,743	22	121	27	148
PUGET SOUND:								
Treaty Troll	11	15	12	27	1	1	1	2
Sport: Areas 5	1,344	5,460	1,572	7,032	385	1,108	462	1,570
Area 6	300	638	343	981	52	110	62	172
Area 7	6	32	7	39	0	0	0	0
Area 8	39	56	45	101	0	0	0	0
Area 9	1,901	2,330	2,212	4,542	17	18	20	38
Area 12	586	726	685	1,411	0	0	0	0
Area 10	911	1,203	1,063	2,266	5	5	6	11
Area 11	62	77	73	150	0	0	0	0
Area 13	3	12	4	16	0	0	0	0
Freshwater Sport	1,184	2,774	1,548	4,322	0	707	110	817
Pre-terminal net:								
6/7/7A NTrty	16	24	19	43	7	7	8	15
6/7/7A Trty	24	34	28	62	13	14	16	30
4B/5/6C NTrty	0	0	0	0	0	0	0	0
4B/5/6C Trty	383	455	440	895	267	268	319	587
6B/9 NTrty	0	0	0	0	0	0	0	0
6B/9 Trty	0	0	0	0	0	0	0	0
Terminal net:								
Skagit Bay (8) NTrty	0	0	0	0	0	0	0	0
Skagit Bay (8) Trty	1	1	1	2	0	0	0	0
Area 8A NTrty	3	3	3	6	0	0	0	0
Area 8A Trty	130	141	151	292	1	1	1	2
Hood Canal NTrty	2,620	2,101	2,868	4,969	14	14	16	30
Hood Canal Trty	9,332	4,405	9,998	14,403	24	26	29	55
South Pgt Snd NTrty	143	165	163	328	3	3	3	6
South Pgt Snd Trty	709	869	824	1,693	9	10	11	21
B'ham Bay(7B) NTrty	3	2	3	5	0	0	0	0
B'ham Bay(7B) Trty	12	10	13	23	0	0	0	0
Local Extreme Terminal Net:								
Nontreaty	374	3,077	706	3,783	0	2912	443	3,355
Treaty	3,282	21,867	6,657	28,524	8	2469	384	2,853
Test	n/a			n/a	n/a			n/a
<b>Total</b>	<b>26563</b>			<b>92179</b>	<b>1509</b>			<b>12033</b>

\* Area 4 Sport numbers include 4B add-on, if any, and a number of fish caught on Canadian licenses in areas 4 and 4B.

RECAPITULATION OF IMPACTS ACCOU	WILD	TOTAL	WILD	TOTAL
Nontreaty Total Wild Impacts:	10,342	35,801	676	6,863
Treaty Total Wild Impacts:	15,572	50,348	680	4,378
Amt NT above (or below) T:	(5,230)	(14,547)	(4)	2,485
Nontreaty Wild Impacts w/o SOF:	10,288	35,481	595	6,634
Treaty Wild Impacts w/o SOF:	15,572	50,348	680	4,378
Amt NT above (or below) T w/o SOF:	(5,284)	(14,867)	(85)	2,256

**TABLE 2C: COHO FISHERY IMPACT SUMMARY HIGHLIGHTS**  
Estimated fishery impacts from regulations described by the following FRAM run:  
FRAM Run Number: coh01416  
PFMC 2014 April Final CR updated

Run Description: Projected Ocean Escapement, Spawning Escapement Objective, Projected Marine Exploitation Rate, Projected Exploitation Rate (all fisheries), Exploitation in Southern U.S. marine Fisheries

Impacts are expressed as total fishery-related mortality, incl. landed catch, non-retention mort., and other fishery-related mort. Try/NonTry splits are NOT based on CWT recovery data.

FISHERY	QUIL FALL		HOH		QUILLAYUTE FALL H&W		WILD		SUPPL.		HATCHERY		MARKED		UNMARKED		TOTAL		WILD		MARKED		UNMARKED		TOTAL	
	Wild	UnMarked	Wild	UnMarked	Marked	UnMarked	Total	Wild	UnMarked	Suppl.	UnMarked	Marked	UnMarked	Total	Wild	UnMarked	Total	Wild	UnMarked	Total	Wild	UnMarked	Total	Wild	UnMarked	Total
Projected Ocean Escapement	17,140	19,367	7,508	8,808	8,808	19,367	28,175	8,450	0	0	9,923	8,428	9,945	18,373	96,472	47,577	102,640	35,400	0	150,217	8%	52%	7%	8%	52%	7%
Spawning Escapement Objective	6,300	6%	2,000	15%	2,000	15%	16%	5,800	44%	14%	14%	16%	44%	14%	16%	44%	14%	16%	44%	14%	16%	44%	14%	16%	44%	14%
Projected Marine Exploitation Rate	42%	5%	51%	14%	51%	14%	44%	44%	14%	14%	44%	44%	14%	14%	44%	14%	14%	44%	14%	14%	44%	14%	14%	44%	14%	
Exploitation in Southern U.S. marine Fisheries	5%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%	
CANADIAN	61	117	132	255	132	255	201	138	0	0	854	829	163	992	711	1,351	756	2,107	2,107	711	1,351	756	2,107	711	1,351	
ALASKA	14	37	8	15	8	15	23	19	0	0	26	22	22	44	470	241	499	740	740	470	241	499	740	470	241	
S. of Falcon Trawl	33	20	18	37	18	37	55	34	0	0	53	46	41	87	91	49	97	146	146	91	49	97	146	91	49	
S. of Falcon Sport	37	61	96	43	96	43	139	129	0	0	544	522	152	674	675	904	718	1,622	1,622	675	904	718	1,622	675	904	
NORTH OF CAPE FALCON OCEAN:																										
Treaty Trawl	474	614	255	536	255	536	791	498	0	0	660	589	587	1,176	3,025	1,555	3,217	4,772	4,772	3,025	1,555	3,217	4,772	3,025	1,555	
NT Troll N. Leadbtr	154	130	210	174	210	174	384	193	0	0	604	569	229	798	442	639	470	1,109	1,109	442	639	470	1,109	442	639	
NT Troll S. Leadbtr	46	47	71	53	71	53	124	69	0	0	242	230	81	311	277	396	295	691	691	277	396	295	691	277	396	
Coastal terminal area "dip-ins"	104	53	56	118	56	118	174	332	0	0	552	469	417	886	861	423	916	1,339	1,339	861	423	916	1,339	861	423	
Sport:	37	24	94	41	94	41	135	71	0	0	416	403	83	486	288	726	306	1,032	1,032	288	726	306	1,032	288	726	
Area 1	4	2	9	4	9	4	13	4	0	0	20	20	5	25	49	117	52	169	169	49	117	52	169	49	117	
Buoy 10	77	131	199	87	199	87	286	220	0	0	1,244	1,204	260	1,464	1,532	3,686	1,630	5,316	5,316	1,532	3,686	1,630	5,316	1,532	3,686	
Area 2	12	25	30	13	30	13	43	31	0	0	172	166	36	202	48	118	51	169	169	48	118	51	169	48	118	
Area 3	42	51	107	47	107	47	154	55	0	0	329	319	65	384	120	306	128	434	434	120	306	128	434	120	306	
Area 4 *	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	0	0	1	0	1	
Areas 5	53	49	119	59	119	59	178	38	0	0	159	152	44	196	192	301	204	505	505	192	301	204	505	192	301	
Area 6	0	9	1	0	1	0	1	3	0	0	3	3	3	6	4	4	5	9	9	4	4	5	9	4	5	
Areas 7-13	1	7	4	1	4	1	5	1	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	
Nontreaty Net	0	0	0	0	0	0	0	9	0	0	14	10	13	23	5	3	5	8	8	5	3	5	8	5	3	
Treaty Net	25	30	13	28	13	28	41	54	0	0	67	57	63	120	99	50	104	154	154	99	50	104	154	99	50	
LOCAL TERMINAL																										
Nontreaty Net	4850	2411					7972	2177	0	0	4276			6453	4841		5971	5971	5971	4841						
Treaty Net	1708	767					3111	444	0	0	521			965	8908		17281	17281	17281	8908						

\* Area 4 Sport numbers include 4B add-on, if any, and a number of fish caught on Canadian licenses in areas 4 and 4B.

TABLE 2D: COHO FISHERY IMPACT SUMMARY HIGHLIGHTS

Estimated fishery impacts from regulations described by the following FRAM run:  
 FRAM Run Number: coho1416  
 Run Description: PFMC 2014 April Final CR updated

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Impacts are expressed as total fishery-related mortality, incl. landed catch, non-retention mort., and other fishery-related mort. Trty/NonTrty splits are NOT based on CWT recovery data.

FISHERY	SOUTH PUGET SOUND				NOOKSACK-SAMISH			
	Wild	Marked	UnMarked	Total	Wild	Marked	UnMarked	Total
Projected Spawning Escapement	24,913	45,010	26,694	71,704	7,121	15,192	7,262	22,454
Spawning Escapement Objective	n/a			71,704	n/a			
Projected Exploitation Rate (all fisheries)	60.5%				66.0%			
Exploitation in Southern U.S. Fisheries	60%				64%			
CANADIAN	508	7,779	550	8,329	418	6,309	430	6,739
ALASKA	4	10	4	14	3	10	3	13
S. of Falcon Troll	21	56	23	79	5	12	5	17
S. of Falcon Sport	43	381	47	428	9	120	9	129
NORTH OF CAPE FALCON OCEAN:								
Treaty Troll	1,978	5,043	2145	7,188	746	2,079	766	2,845
NT Troll N. Leadbtr	213	1,474	229	1,703	43	333	45	378
NT Troll S. Leadbtr	54	359	58	417	8	66	9	75
Sport: Area 1	30	371	33	404	6	88	7	95
Buoy 10	1	8	1	9	0	4	0	4
Area 2	119	1,423	129	1,552	33	440	34	474
Area 3	26	317	28	345	11	145	11	156
Area 4 *	338	4,133	367	4,500	125	1,645	128	1,773
PUGET SOUND:								
Treaty Troll	10	24	10	34	1	2	1	3
Sport: Areas 5	1,372	9,779	1489	11,268	232	2,099	238	2,337
Area 6	138	761	150	911	34	184	35	219
Area 7	6	61	6	67	16	170	17	187
Area 8	0	251	110	361	78	202	79	281
Area 9	1,519	3,698	1649	5,347	29	75	30	105
Area 12	0	0	0	0	33	93	34	127
Area 10	2,090	5,187	1039	6,226	12	32	12	44
Area 11	994	1,371	2264	3,635	0	0	0	0
Area 13	99	382	102	484	0	0	0	0
Freshwater Sport	5,968	8,145	6399	14,544	602	903	612	1,515
Pre-terminal net:								
6/7/7A NTrty	32	84	34	118	150	401	154	555
6/7/7A Trty	45	107	49	156	260	653	266	919
4B/5/6C NTrty	0	0	0	0	0	0	0	0
4B/5/6C Trty	244	604	265	869	37	100	38	138
6B/9 NTrty	0	0	0	0	0	0	0	0
6B/9 Trty	0	0	0	0	0	0	0	0
Terminal net:								
Skagit Bay (8) NTrty	0	0	0	0	0	0	0	0
Skagit Bay (8) Trty	0	0	0	0	1	3	1	4
Area 8A Ntrty	11	26	12	38	0	1	0	1
Area 8A Trty	499	1,199	542	1,741	11	29	12	41
Hood Canal NTrty	110	253	119	372	6	14	6	20
Hood Canal Trty	238	555	258	813	9	22	9	31
South Pgt Snd NTrty	765	1,534	820	2,354	4	9	4	13
South Pgt Snd Trty	6,491	35,928	7330	43,258	18	47	19	66
B'ham Bay(7B) Ntrty	20	47	21	68	2,592	7,547	2,661	10,208
B'ham Bay(7B) Trty	82	193	89	282	6,475	18,640	6,649	25,289
Local Extreme Terminal Net:								
Nontreaty	n/a			n/a	n/a			n/a
Treaty	14,126	32868	15496	48,364	1,833	4484	1884	6,368
Test	25				n/a			n/a

\* Area 4 Sport numbers include 4B add-on, if any, and a number of fish caught on Canadian licenses in areas 4 and 4B.

RECAPITULATION OF WILD IMPACTS ACCOUNTING:

Nontreaty Total Wild Impacts:	13,969		55,230	4,028	18,713
Treaty Total Wild Impacts:	23,713		102,705	9,391	35,704
Amt NT above (or below) T:	(9,744)		(47,475)	(5,363)	(16,991)
Nontreaty Wild Impacts w/o SOF:	13,905		54,723	4,014	18,567
Treaty Wild Impacts w/o SOF:	23,713		102,705	9,391	35,704
Amt NT above (or below) T w/o SOF:	(9,808)		(47,982)	(5,377)	(17,137)

TABLE 4: SUMMARY OF COHO EXPLOITATION RATES BY FISHERY AGGREGATE

Predicted Exploitation Rates for Total Fishery-Related Mortality

FRAM Run Number: coho1416

Run Description: PFMC 2014 April Final CR updated

NOTE: Landed catch plus all fishery-related mortality - Not AEQ Expl. Rate!!!

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STOCK->	Skagit Wild	Stilly Wild	Snohom Wild	HdCnl Wild	JDF Tribs Wild 12	South Sound Wild	Nooksack Wild	Quillayute Fall/Wild	Hoh Wild	Queets Wild	Grys Hbr Wild
Predicted Spawning Escapement	69,804	22,147	104,765	21,161	11,073	24,913	7,121	n/a	n/a	n/a	n/a
Ocean Escapement *	n/a	n/a	n/a	n/a	n/a	n/a	n/a	17,140	7,509	8,450	96,472
RUN RECONSTRUCTION: 11											
Ocean/Pre-term. Marine Fishery Mortality	12,920	3,089	14,908	8,770	1,450	9,884	2,289	1,070	1,354	1,566	8,029
Nonlocal Mixed-terminal Fishery Mortality	5,268	83	385	1,001	51	960	49	104	53	332	861
Local Mixed Terminal Marine Fishery Mortality	597	2,829	14,681	11,952	0	7,256	9,067	n/a	n/a	n/a	n/a
Extreme Terminal & FW NTRTY	4,339	1,132	5,131	1,568	0	5,968	602	n/a	n/a	n/a	n/a
Extreme Terminal & FW TRTY	18,469	3,269	10,607	3,282	8	14,126	1,833	n/a	n/a	n/a	n/a
Extr. Term. TEST	1,440	0	0	0	0	25	-	n/a	n/a	n/a	n/a
Escapement 12	69,804	22,147	104,765	21,161	11,073	24,913	7,121	17,140	7,509	8,450	96,472
TOTAL ABUNDANCE 13	112,837	32,549	150,477	47,724	12,582	63,132	20,961	18,210	8,862	10,016	104,501
"TOTAL" PREDICTED EXPL. RATE 14	38.1%	32.0%	30.4%	55.7%	12.0%	60.5%	66.0%	5.9%	15.3%	15.6%	7.7%
Canada	1.0%	0.5%	0.5%	1.3%	0.7%	0.8%	2.0%	0.3%	1.3%	1.4%	0.7%
Alaska	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.1%	0.4%	0.2%	0.4%
Subtotal Southern U.S. EXPL. RATE 15	37.1%	31.4%	29.8%	54.3%	10.8%	59.7%	64.0%	5.5%	13.5%	14.1%	6.6%
S. Of Falcon Ocean	0.1%	0.1%	0.1%	0.1%	0.6%	0.1%	0.1%	0.4%	0.9%	1.6%	0.7%
NOF Ocean Troll:	NTrty 0.4%	0.4%	0.4%	0.5%	0.4%	0.4%	0.2%	1.1%	2.0%	2.6%	0.7%
	Trty 3.5%	2.3%	2.3%	3.5%	2.8%	3.1%	3.6%	2.6%	6.9%	5.0%	2.9%
Ntrly NOF Ocean & Buoy10 Spt	0.9%	0.6%	0.6%	1.2%	0.5%	0.8%	0.8%	0.9%	2.6%	3.8%	1.9%
Pgt Snd 5,6C Troll	Trty 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	All Puget Sound Combined: 1.1% 1.0% 0.3%		
Pgt Snd 5,6 Sport	2.0%	1.5%	1.5%	3.4%	3.5%	2.4%	1.3%				
Pgt Snd 7 Sport	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%				
Pgt Snd 8 Sport	0.8%	2.2%	2.6%	0.1%	0.0%	0.0%	0.4%				
Pgt Snd 9 Sport	1.6%	1.5%	1.5%	4.0%	0.1%	2.4%	0.1%				
Pgt Snd 10,11,13	0.4%	0.2%	0.2%	2.0%	0.0%	5.0%	0.1%				
Pgt Snd 12 Sport	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.2%				
Pgt Snd Extr. Term. & FW Sport	3.8%	3.4%	3.3%	2.5%	0.0%	9.5%	2.9%				
PS Preterminal Net**:	Ntrty 0.1%	0.0%	0.0%	0.0%	0.1%	0.1%	0.7%				
	Trty 0.6%	0.3%	0.3%	0.9%	2.2%	0.5%	1.4%				
Nonlocal Term. Net:	Ntrty 0.3%	0.0%	0.1%	0.3%	0.1%	0.2%	0.0%				
	Trty 4.4%	0.2%	0.2%	1.8%	0.3%	1.3%	0.2%				
Local Terminal Net:	Ntrty 0.0%	0.2%	0.2%	5.5%	--	1.2%	12.4%				
	Trty 0.5%	8.5%	9.6%	19.6%	--	10.3%	30.9%				
Extreme Term. Net	Ntrty 0.0%	0.1%	0.1%	0.8%	0.0%	0.0%	0.0%				
	Trty 16.4%	10.0%	7.0%	6.9%	0.1%	22.4%	8.7%				
	TEST 1.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				

\* Model-predicted Escapement for Washington Coastal stock aggregates represents run returning to their terminal area or "Ocean Escapement".

Footnotes:

11 From TAMM Tables 2.

12 Puget Sound Stocks' values are Spawner Escapement; Coastal stocks' values are "escapement from pre-terminal fisheries" equivalent to "Runsize Entering Terminal Area".

13 TOTAL ABUNDANCE is 'Fishery-related Mortality Plus Escapement', does not include 'natural mortality' nor 'dip-in mortality' of non-local stocks in coastal terminal fisheries.

14 For coastal stocks the presented ER is for pre-terminal fisheries only. See Table 2 for Total ER for coastal stocks.

15 Sum of exploitation rates for Southern U.S. only: SoF, Ocean areas 1-4, Col. R., Puget Sound; however does not include WA coastal terminal area impacts.

NT 5.37%  
T 5.40%

**TABLE 7: COHO RUN SIZES FOR SALMON TECHNICAL TEAM REFERENCE**

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FRAM Run Number: coho1416  
 Run Description: PFMC 2014 April Final CR updated  
 Includes landed catch plus all fishery-related mortality

**PUGET SOUND COHO RUN SIZES:**

Stock	Hat +Wild Run Entering Area 4B Net \1	Hat + Wild Terminal Area Abundance \2	Hat + Wild Escape- ment	Wild Run Entering Area 4B Net	Wild Run Entering USJDF-PS	Wild Escape- ment
Skagit		107,038	78,226	90,469	106,148	69,804
Stillag.-Snohomish		247,973	166,345			
	Stilly: Snohom:			25,905	31,301	22,147
				119,323	144,703	104,765
Hood Canal		96,868	39,324	36,701	44,540	21,161
South Puget Sound		191,578	71,704	44,678	59,797	24,913
Nooksack-Samish		68,424	22,454	18,092	19,554	7,121
Strait Tributaries		24,862	17,997	11,341	11,879	11,073

\1 Note: 4B Run sizes differ from exact Status Report frame of reference because Area 6B/9 impacts are accounted for as per FRAM CWT-based stock impacts.  
 \2 RR\_Term compatible PS Runsize: 736,743

**OTHER WA-CA RUNSIZES:** all Truns values

Terminal Area	Ocean Escapement		
	All w/ dip Ins	Local Wild	Local Hatchery
Quillayute	32,835	19,010	13,825
Hoh	8,114	7,508	0
Queets	19,043	8,450	9,923
Quinault	42,972	22,411	19,788
Grays Harbor	150,679	96,472	53,745
Willapa Bay	83,368	52,267	29,621

Stock/Area	Ocean Escapement
Quillayute Summer Hatchery	2,790
Quillayute Summer Natural	1,870
Columbia Early (after B10)	321,311
Columbia Late (after B10)	260,435
Total	581,746
Oregon N. Coast Natural	30,860
Oregon N. Mid Coast Nat.	62,713
Oregon S. Mid Coast Nat.	106,273
Total	199,847

TABLE C: COLUMBIA RIVER COHO FISHERY IMPACT SUMMARY

Estimated fishery impacts from regulations described by the following FRAM run:

FRAM Run Number: coho1416

Run Description: PFMC 2014 April Final CR updated

Impacts are expressed as total fishery-related mortality, incl. landed catch, non-retention mort., and other fishery-related mort.

FISHERY	Columbia Early			Columbia Late			Combined		
	Marked	UnMarked	Total	Marked	UnMarked	Total	Marked	UnMarked	Total
Ocean Escapement (after B10)	206,201	115,110	321,311	203,885	56,550	260,435	410,086	171,660	581,746
Marine Exploitation Rate	47.7%	16.3%	39.6%	45.6%	16.6%	41.1%	46.7%	16.4%	40.3%
Marine ER to Col R before B10 (PFMC Pre Rpts)	37.2%	13.2%	31.0%	42.9%	15.7%	38.7%	40.0%	14.019%	34.5%
PFMC Ocean Fisheries Exploitation Rate	36.0%	12.9%	30.0%	41.7%	15.2%	37.7%	38.8%	13.7%	33.5%
Exploitation in Southern U.S. marine Fisheries	46.7%	16.2%	38.8%	45.1%	16.4%	40.7%	45.9%	16.2%	39.7%
<b>TOTAL ER</b>	<b>64.4%</b>	<b>17.9%</b>	<b>52.4%</b>	<b>56.8%</b>	<b>27.3%</b>	<b>52.3%</b>	<b>60.7%</b>	<b>21.0%</b>	<b>52.3%</b>
CANADIAN	3888	238	4126	1975	84	2059	5,863	322	6,185
ALASKA	4	1	5	0	0	0	4	1	5
S. of Falcon Troll	3923	1432	5355	2033	385	2418	5,956	1,817	7,773
S. of Falcon Sport	57213	6549	63762	28127	1839	29966	85,340	8,388	93,728
NORTH OF CAPE FALCON OCEAN:									
Treaty Troll	4954	2249	7203	7834	1853	9687	12,788	4,102	16,890
NT Troll N. Leadbtr	4666	700	5366	6884	558	7442	11,550	1,258	12,808
NT Troll S. Leadbtr	6809	1055	7864	13702	1121	14823	20,511	2,176	22,687
Sport: Area 1	37809	3323	41132	55226	2532	57758	93,035	5,855	98,890
Buoy 10	41435	4339	45774	10188	563	10751	51,623	4,902	56,525
Area 2	23678	2176	25854	35779	1734	37513	59,457	3,910	63,367
Area 3	1005	87	1092	1931	89	2020	2,936	176	3,112
Area 4 *	1687	148	1835	4867	217	5084	6,554	365	6,919
PUGET SOUND CATCHES:									
Treaty Troll	1	1	2	40	8	48	41	9	50
Sport: Areas 5-13	795	78	873	1696	104	1800	2,491	182	2,673
Nontreaty Net	2	0	2	1	0	1	3	0	3
Treaty Net	42	17	59	56	12	68	98	29	127
COASTAL CATCHES:									
Bay Sport	67	34	101	214	57	271	281	91	372
Nontreaty Net	82	43	125	243	65	308	325	108	433
Treaty Net	0	0	0	0	0	0	0	0	0
LOWER COLUMBIA:									
Mainstem Nontreaty Net	17046	1524	18570	41067	7265	48333	58113	8790	66903
SAFE	46373	367	46740	0	0	0	46373	367	46740
Sport	2433	324	2757	1014	28	1042	3447	352	3799
<b>Total Abundance</b>	<b>394,261</b>	<b>137,580</b>	<b>531,841</b>	<b>374,681</b>	<b>67,771</b>	<b>442,452</b>	<b>768,942</b>	<b>205,351</b>	<b>974,293</b>

TABLE C-Nat: COLUMBIA RIVER COHO FISHERY IMPACT SUMMARY FOR LOWER COL NATURAL COHO

Estimated fishery impacts from regulations described by the following FRAM run:

FRAM Run Number:

coho1416

Run Description:

PFMC 2014 April Final CR updated

Impacts are expressed as total fishery-related mortality, incl. landed catch, non-retention mort., and other fishery-related mort.

FISHERY	Sandy Early Wild Oregon Nat	Clackamas Early Wild WA Early Nat	Clackamas Late Wild WA Late Nat	Total
Ocean Escapement (after B10)	5,321	7,942	14,482	27,745
Marine Exploitation Rate	15.6%	15.6%	16.6%	16.1%
<b>Marine ER to Col R before B10 (PFMC Pre Rpts)</b>	12.9%	12.9%	15.7%	<b>14.37%</b>
PFMC Ocean Fisheries ER	12.6%	12.6%	15.2%	14.00%
PFMC InRivers Ers (incl B10)	4.3%	4.3%	11.6%	8.14%
<b>PFMC TOTAL ER</b>	<b>16.94%</b>	<b>16.97%</b>	<b>26.83%</b>	<b>22.14%</b>
ER in So. U.S. Marine Fisheries	15.5%	15.5%	16.4%	16.0%
<b>TOTAL ER ALL FISHERIES</b>	<b>17.2%</b>	<b>17.2%</b>	<b>27.3%</b>	<b>22.5%</b>
CANADIAN	6	9	22	37
ALASKA	0	0	0	0
S. of Falcon Troll	62	95	98	255
S. of Falcon Sport	276	411	471	1,158
NORTH OF CAPE FALCON OCEAN:				
Treaty Troll	111	165	474	750
NT Troll N. Leadbtr	35	52	143	230
NT Troll S. Leadbtr	49	73	287	409
Sport: Area 1	153	229	648	1,030
Buoy 10	171	255	144	570
Area 2	97	145	444	686
Area 3	4	7	23	34
Area 4 *	8	12	56	76
PUGET SOUND CATCHES:				
Treaty Troll	0	0	2	2
Sport: Areas 5-13	4	6	27	37
Nontreaty Net	0	0	0	0
Treaty Net	1	1	3	5
COASTAL CATCHES:				
Bay Sport	2	2	15	19
Nontreaty Net	2	3	17	22
Treaty Net	0	0	0	0
LOWER COLUMBIA:				
Mainstem Nontreaty Net	70	105	1861	2035
SAFE	17	25	0	42
Sport	15	22	7	44

**Table OR. Total mortality and exploitation rates for OCN and Rogue/Klamath**

Estimated fishery impacts from regulations described by the following FRAM run:

FRAM Run Number: coho1416  
 Run Description: PFMC 2014 April Final CR updated

Fishery	Area	OR Coastal Natural		Rogue/Klam. H Unmrkd	
		Total Mort	Exp. Rt.	Total Mort	Exp. Rt.
Alaska	all	0	0.0%	0	0.0%
BC	all	760	0.3%	3	0.0%
Puget Sound/Straits		149	0.1%	0	0.0%
North of Falcon:					
Troll:	Treaty	1163	0.5%	0	0.0%
	Nontreaty	1086	0.5%	1	0.0%
Sport:		2241	1.0%	5	0.0%
Buoy 10		267	0.1%	0	0.0%
South of Falcon:					
Troll:	Tillmk	145	0.1%	0	0.0%
	Newprt	833	0.4%	3	0.0%
	Coos B	1090	0.5%	11	0.1%
	Brookngs	29	0.0%	2	0.0%
	CaKMZ	74	0.0%	18	0.2%
	Ft Bragg	892	0.4%	99	0.9%
	So. Calif	698	0.3%	21	0.2%
Sport:	Tillmk	3826	1.6%	7	0.1%
	Newprt	9084	3.9%	7	0.1%
	Coos B	6523	2.8%	59	0.6%
	Brookngs	995	0.4%	105	1.0%
	CaKMZ	872	0.4%	200	1.9%
	Ft Bragg	735	0.3%	114	1.1%
	So. Calif	654	0.3%	75	0.7%
Freshwater		20625	8.9%	25	0.2%
AK to CA total		52741	22.7%	755	7.1%
Escapement		179222		9866	

**TABLE T: THOMPSON AND UPPER FRASER COHO FISHERY IMPACT SUMMARY**

Estimated fishery impacts from regulations described by the following FRAM run:

FRAM Run Number: coho1416

Run Description: PFMC 2014 April Final Col Riv updated

Impacts are expressed as total fishery-related mortality, incl. landed catch, non-retention mort., and other fishery-related mortality.

=====

FISHERY	Interior Fraser	
	Wild	
Projected Escapement	46,826	
Projected Pre-Terminal Exploitation Rate	14.1%	
<b>Exploitation in U.S. Fisheries</b>	<b>10.0%</b>	
	Mortality	Expl. Rate
CANADIAN (marine)	2104	3.9%
ALASKA	121	0.2%
SOUTH OF FALCON & COL R	80	0.1%
NORTH OF CAPE FALCON OCEAN:		
Treaty Troll Area 2	19	0.0%
Treaty Troll Area 3	32	0.1%
Treaty Troll Area 4	2011	3.7%
NT Troll Area 1	12	0.02%
NT Troll Area 2	80	0.15%
NT Troll Area 3	65	0.12%
NT Troll Area 4	15	0.03%
NT Sport Buoy 10 & Area 1	39	0.07%
NT Sport Area 2	133	0.24%
NT Sport Area 3	33	0.06%
NT Sport Area 4*	324	0.59%
PUGET SOUND:		
JDF Troll and Net	60	0.1%
SJI 6/7/7A NT Net	228	0.4%
SJI 6/7/7A T Net	246	0.5%
Sport: Area 5	928	1.7%
Area 6	74	0.1%
Area 7	59	0.1%
Area 8-13	59	0.1%
Puget Sound Terminal net	954	1.8%
WA Extreme Terminal Net & FW Sport	6	0.0%
Total:	7682	14.1%

\* Area 4 Sport numbers include 4B add-on, if any, and a number of fish caught on Canadian licenses in areas 4 and 4B.