

SALMON TECHNICAL TEAM REPORT 1:  
PRELIMINARY ANALYSIS OF TENTATIVE  
2023 OCEAN SALMON FISHERY MANAGEMENT MEASURES

TABLE 1. 2023 Commercial troll management measures for non-Indian ocean salmon fisheries – STT analyzed. (Page 1 of 7)

<b>A. SEASON DESCRIPTIONS</b>
<b>North of Cape Falcon</b>
<b>Supplemental Management Information</b>
<p>1. Overall non-Indian TAC: 80,000 Chinook and 200,000 coho marked with a healed adipose fin clip (marked).</p> <p>2. Non-Indian commercial troll TAC: 40,000 Chinook and 32,000 marked coho.</p> <p>3. For fisheries scheduled <u>prior</u> to May 16, 2023: See 2022 management measures, which are subject to inseason action and the 2023 season description described below.</p>
<p><i>Model run: Coho-2314, Chinook-1723</i></p>
<p><b>U.S./Canada Border to Cape Falcon</b></p> <ul style="list-style-type: none"> <li>• May 1-15. See 2022 management measures, which are subject to inseason action and the 2023 season described below.</li> <li>• May 16 through the earlier of June 29, or 26,700 Chinook. No more than 7,080 of which may be caught in the area between the U.S./Canada border and the Queets River, and no more than 6,200 of which may be caught in the area between Leadbetter Pt. and Cape Falcon (C.8). <ul style="list-style-type: none"> <li>• May 16 – June 21; open seven days per week (C.1); then</li> <li>• June 22 – June 29.</li> </ul> </li> </ul> <p>In the area between the U.S./Canada border and the Queets River the landing and possession limit is 70 Chinook per vessel per landing week (Thurs.-Wed.) and June 22-29. Landing limits will be evaluated weekly, inseason (C.1, C.6).</p> <p>In the area between the Queets River and Leadbetter Pt. the landing and possession limit is 150 Chinook per vessel per landing week (Thurs.-Wed.) and June 22-29. Landing limits will be evaluated weekly, inseason (C.1, C.6).</p> <p>In the area between Leadbetter Pt. and Cape Falcon the landing and possession limit is 60 Chinook per vessel per landing week (Thurs.-Wed.) and June 22-29. Landing limits will be evaluated weekly inseason (C.1, C.6).</p> <p>All salmon, except coho (C.4, C.7). Chinook minimum size limit of 27 inches total length (B). See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3).</p> <p>When it is estimated that approximately 50% of the overall Chinook quota or any Chinook subarea guideline has been landed, inseason action may be considered to ensure the quota and subarea guidelines are not exceeded.</p> <p>If the Chinook quota is exceeded, the excess will be deducted from the all-salmon season (C.5).</p> <p>In 2024, the season will open May 1 consistent with all preseason regulations in place in this area and subareas during May 16-June 30, 2023, including subarea salmon guidelines and quotas and weekly vessel limits except as described below for vessels fishing or in possession of salmon north of Leadbetter Point. This opening could be modified following Council review at its March and/or April 2024 meetings.</p>
<p><b>U.S./Canada Border to Cape Falcon</b></p> <ul style="list-style-type: none"> <li>• July 1 through the earlier of September 30, or 13,300 Chinook or 32,000 marked coho (C.8).</li> </ul> <p>Open seven days per week. All salmon. Chinook minimum size limit of 27 inches total length. Coho minimum size limit of 16 inches total length (B, C.1). All coho must be marked with a healed adipose fin clip (C.8.d). No chum retention north of Cape Alava, Washington in August and September (C.4, C.7). See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3).</p> <p>Landing and possession limit of 150 marked coho per vessel per landing week (Thurs.-Wed.). Landing limits will be evaluated weekly inseason (C.1).</p> <p>When it is estimated that approximately 50% of the overall Chinook quota has been landed, inseason action may be considered to ensure the quota is not exceeded.</p> <p>An impact neutral, non-selective coho fishery may be considered through inseason management action later in the season.</p>

TABLE 1. 2023 Commercial troll management measures for non-Indian ocean salmon fisheries – STT analyzed. (Page 2 of 7)

<b>A. SEASON DESCRIPTIONS</b>
<b>North of Cape Falcon</b>
<p><b>For all commercial troll fisheries north of Cape Falcon:</b></p> <p>Mandatory closed areas include Salmon Troll Yelloweye Rockfish Conservation Area, Cape Flattery, and Columbia Control Zones.</p> <p>Vessels must land and deliver their salmon within 24 hours of any closure of this fishery.</p> <p>Vessels may not land fish east of the Sekiu River or east of Tongue Point, Oregon.</p> <p>Vessels fishing or in possession of salmon <u>north</u> of Leadbetter Point must land and deliver all species of fish in a Washington port and must possess a Washington troll and/or salmon delivery license. <u>For delivery to Washington ports south of Leadbetter Point</u>, vessels must notify the Washington Department of Fish and Wildlife at 360-249-1215 prior to crossing the Leadbetter Point line with area fished, total Chinook, coho, and halibut catch aboard, and destination with approximate time of delivery. <b>During any single trip, only one side of the Leadbetter Point line may be fished</b> (C.11).</p> <p>Vessels fishing or in possession of salmon while fishing <u>south</u> of Leadbetter Point must land and deliver all species of fish within the area and south of Leadbetter Point, except that Oregon permitted vessels may also land all species of fish in Garibaldi, Oregon. All Chinook caught north of Cape Falcon and being delivered by boat to Garibaldi must meet the minimum legal total length of 28 inches for Chinook for south of Cape Falcon seasons unless the season in waters off Garibaldi have been closed for Chinook retention for more than 48 hours (C.1.).</p> <p>Under state law, vessels must report their catch on a state fish receiving ticket. Oregon State regulations require all fishers landing salmon into Oregon from any fishery between Leadbetter Point, Washington and Cape Falcon, Oregon to notify ODFW within one hour of delivery or prior to transport away from the port of landing by either calling 541-857-2546 or sending notification via e-mail to <a href="mailto:nfalcon.trollreport@odfw.oregon.gov">nfalcon.trollreport@odfw.oregon.gov</a>. Notification shall include vessel name and number, number of salmon by species, port of landing and location of delivery, and estimated time of delivery. Inseason actions may modify harvest guidelines in later fisheries to achieve or prevent exceeding the overall allowable troll harvest impacts (C.8).</p> <p>Vessels in possession of salmon <u>north of the Queets River</u> may not cross the Queets River line without first notifying WDFW at 360-249-1215 with area fished, total Chinook, coho and halibut catch aboard, and destination. Vessels in possession of salmon <u>south of the Queets River</u> may not cross the Queets River line without first notifying WDFW at 360-249-1215 with area fished, total Chinook, coho and halibut catch aboard, and destination (C.11). Inseason actions may modify harvest guidelines in later fisheries to achieve or prevent exceeding the overall allowable troll harvest impacts (C.8).</p>
<b>A. SEASON DESCRIPTIONS</b>
<b>South of Cape Falcon</b>
<b>Supplemental Management Information</b>
<ol style="list-style-type: none"> <li>1. Sacramento River fall Chinook spawning escapement of 164,964 hatchery and natural area adults.</li> <li>2. Sacramento Index exploitation rate of 2.8 %.</li> <li>3. Klamath River recreational fishery allocation: 1,804 adult Klamath River fall Chinook.</li> <li>4. Klamath tribal allocation: 1,872 adult Klamath River fall Chinook.</li> <li>5. CA/OR share of Klamath River fall Chinook commercial ocean harvest: NA.</li> <li>6. Overall commercial troll coho TAC: 10,000.</li> </ol>
<p><b>Cape Falcon to Humbug Mt.</b></p> <ul style="list-style-type: none"> <li>• September 1-October 31 (C.9.a).</li> </ul> <p>Open seven days per week. All salmon, through the earlier of September 30 or reaching the 10,000 non mark-selective coho quota; all salmon except coho thereafter. (C.4, C.7). Coho minimum size limit of 16 inches total length, and Chinook minimum size limit of 28 inches total length (B, C.1). All vessels fishing in the area must land their salmon in the State of Oregon. See gear restrictions and definitions (C.2, C.3). Beginning October 1, open shoreward of the 40-fathom regulatory line (C.5.f).</p> <p>No more than 75 Chinook allowed per vessel per landing week (Thurs.-Wed.). (C.8.f).</p> <p>Coho quota of 10,000 non-mark selective. No more than 75 coho allowed per vessel per landing week (Thurs.-Wed.). Vessel limits may be modified inseason (C.8.f).</p> <p>Any remainder of the mark-selective coho quota from Cape Falcon to Humbug Mt. recreational fishery may be transferred inseason to the Cape Falcon to Humbug Mt. <u>troll</u> fishery on an impact neutral basis. Recreational fishery needs will be prioritized for this transfer (C.8.h).</p> <p>In 2024, the season will open March 15 for all salmon except coho. Chinook minimum size limit of 28 inches total length. Gear restrictions same as in 2023. This opening could be modified following Council review at its March 2024 meeting.</p>

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<p><b>Humbug Mt. to OR/CA Border (Oregon KMZ)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, the season will open March 15 for all salmon except coho. Chinook minimum size limit of 28 inches total length. Gear restrictions same as in 2023. This opening could be modified following Council review at its March 2024 meeting.</p>
<p><b>OR/CA Border to Humboldt South Jetty (California KMZ)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, the season will open May 1 through the earlier of May 31, or a 3,000 Chinook quota. Chinook minimum size limit of 27 inches total length. Landing and possession limit of 20 Chinook per vessel per day (C.8.f). Open five days per week (Fri.-Tue.). All salmon except coho (C.4, C.7). Any remaining portion of Chinook quotas may be transferred inseason on an impact neutral basis to the next open quota period (C.8.b). All fish caught in this area must be landed within the area, within 24 hours of any closure of the fishery (C.6), and prior to fishing outside the area (C.10). See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). Klamath Control Zone closed (C.5.e). See California State regulations for an additional closure adjacent to the Smith River. This opening could be modified following Council review at its March or April 2024 meetings.</p>
<p><b>Humboldt South Jetty to Latitude 40°10' N</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>When the fishery is closed between the OR/CA border and Humbug Mountain and open to the south, vessels with fish on board caught in the open area off California may seek temporary mooring in Brookings, Oregon prior to landing in California only if such vessels first notify the Chetco River Coast Guard Station via VHF channel 22A between the hours of 0500 and 2200 and provide the vessel name, number of fish on board, and estimated time of arrival (C.6)..</p>
<p><b>Latitude 40°10' N. to Point Arena (Fort Bragg)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, the season will open April 16 for all salmon except coho (C.4, C.7). Chinook minimum size limit of 27 inches total length (B); See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). All salmon must be landed in California and north of Point Arena (C.6, C.11). Landing and possession limits may be considered inseason (C.8.g). This opening could be modified following Council review at its March 2024 meeting.</p>
<p><b>Pt. Arena to Pigeon Pt. (San Francisco)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, the season will open May 1 for all salmon except coho (C.4, C.7). Chinook minimum size limit of 27 inches total length (B, C.1); See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). Landing and possession limits may be considered inseason (C.8.g). This opening could be modified following Council review at its March or April 2024 meeting.</p> <p><b>Point Reyes to Point San Pedro (Fall Area Target Zone)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul>
<p><b>Pigeon Point to U.S./Mexico Border (Monterey)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, the season will open May 1 for all salmon except coho (C.4, C.7). Chinook minimum size limit of 27 inches total length (B). See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). Landing and possession limits may be considered inseason (C.8.g). This opening could be modified following Council review at its March or April 2024 meeting.</p>
<p>California State regulations require all salmon be made available to a CDFW representative for sampling immediately at port of landing. Any person in possession of a salmon with a missing adipose fin, upon request by an authorized agent or employee of the CDFW, shall immediately relinquish the head of the salmon to the State (California Fish and Game Code §8226).</p>

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**B. MINIMUM SIZE (Inches) (See C.1)**

Area (when open)	Chinook		Coho		Pink
	Total Length	Head-off	Total Length	Head-off	
North of Cape Falcon	27	20.5	16	12	None
Cape Falcon to Humbug Mt.	28	21.5	16	12	None
Humbug Mt. to OR/CA Border	28	21.5	-	-	None
OR/CA Border to Humboldt South Jetty	-	-	-	-	-
Latitude 40°10' N. to Pt. Arena	-	-	-	-	-
Pt. Arena to Pigeon Pt.	-	-	-	-	-
Pigeon Pt. to U.S./Mexico Border (Alt. 3)	-	-	-	-	-

**C. REQUIREMENTS, DEFINITIONS, RESTRICTIONS, OR EXCEPTIONS**

C.1. **Compliance with Minimum Size or Other Special Restrictions:** All salmon on board a vessel must meet the minimum size, landing/possession limit, or other special requirements for the area being fished and the area in which they are landed if the area is open or has been closed less than 48 hours for that species of salmon. Salmon may be landed in an area that has been closed for a species of salmon more than 48 hours only if they meet the minimum size, landing/possession limit, or other special requirements for the area in which they were caught. Salmon may not be filleted prior to landing.

Any person who is required to report a salmon landing by applicable state law must include on the state landing receipt for that landing both the number and weight of salmon landed by species. States may require fish landing/receiving tickets be kept on board the vessel for 90 days or more after landing to account for all previous salmon landings.

C.2. **Gear Restrictions:**

- a. Salmon may be taken only by hook and line using single point, single shank, barbless hooks.
- b. Cape Falcon, Oregon, to the OR/CA border: No more than 4 spreads are allowed per line.
- c. OR/CA border to U.S./Mexico border: No more than 6 lines are allowed per vessel, and barbless circle hooks are required when fishing with bait by any means other than trolling.

C.3. **Gear Definitions:**

*Trolling defined:* Fishing from a boat or floating device that is making way by means of a source of power, other than drifting by means of the prevailing water current or weather conditions.

*Troll fishing gear defined:* One or more lines that drag hooks behind a moving fishing vessel engaged in trolling. In that portion of the fishery management area off Oregon and Washington, the line or lines must be affixed to the vessel and must not be intentionally disengaged from the vessel at any time during the fishing operation.

*Spread defined:* A single leader connected to an individual lure and/or bait.

*Circle hook defined:* A hook with a generally circular shape and a point which turns inward, pointing directly to the shank at a 90° angle.

C.4. **Vessel Operation in Closed Areas with Salmon on Board:**

- a. Except as provided under C.4.b below, it is unlawful for a vessel to have troll or recreational gear in the water while in any area closed to fishing for a certain species of salmon while possessing that species of salmon; however, fishing for species other than salmon is not prohibited if the area is open for such species, and no salmon are in possession.
- b. When Genetic Stock Identification (GSI) samples will be collected in an area closed to commercial salmon fishing, the scientific research permit holder shall notify NOAA OLE, USCG, CDFW, WDFW, ODFW, and OSP at least 24 hours prior to sampling and provide the following information: the vessel name, date, location, and time collection activities will be done. Any vessel collecting GSI samples in a closed area shall not possess any salmon other than those from which GSI samples are being collected. Salmon caught for collection of GSI samples must be immediately released in good condition after collection of samples.

TABLE 1. 2023 Commercial troll management Alternatives for non-Indian ocean salmon fisheries – STT analyzed. (Page 5 of 7)

**C. REQUIREMENTS, DEFINITIONS, RESTRICTIONS, OR EXCEPTIONS (continued)**

**C.5. Control Zone Definitions:**

- a. *Cape Flattery Control Zone* - The area from Cape Flattery (48°23'00" N. lat.) to the northern boundary of the U.S. EEZ; and the area from Cape Flattery south to Cape Alava (48°10'00" N. lat.) and east of 125°05'00" W. long.
- b. *Salmon Troll Yelloweye Rockfish Conservation Area* – The area in Washington Marine Catch Area 3 from 48°00.00' N. lat.; 125°14.00' W. long. to 48°02.00' N. lat.; 125°14.00' W. long. to 48°02.00' N. lat.; 125°16.50' W. long. to 48°00.00' N. lat.; 125°16.50' W. long. and connecting back to 48°00.00' N. lat.; 125°14.00' W. long.
- c. *Grays Harbor Control Zone* - The area defined by a line drawn from the Westport Lighthouse (46° 53'18" N. lat., 124° 07'01" W. long.) to Buoy #2 (46° 52'42" N. lat., 124° 12'42" W. long.) to Buoy #3 (46° 55'00" N. lat., 124° 14'48" W. long.) to the Grays Harbor north jetty (46° 55'36" N. lat., 124° 10'51" W. long.).
- d. *Columbia Control Zone* - An area at the Columbia River mouth, bounded on the west by a line running northeast/southwest between the red lighted Buoy #4 (46°13'35" N. lat., 124°06'50" W. long.) and the green lighted Buoy #7 (46°15'09" N. lat., 124°06'16" W. long.); on the east, by the Buoy #10 line which bears north/south at 357° true from the south jetty at 46° 14'00" N. lat., 124°03'07" W. long. to its intersection with the north jetty; on the north, by a line running northeast/southwest between the green lighted Buoy #7 to the tip of the north jetty (46°15'48" N. lat., 124°05'20" W. long.), and then along the north jetty to the point of intersection with the Buoy #10 line; and, on the south, by a line running northeast/southwest between the red lighted Buoy #4 and tip of the south jetty (46°14'03" N. lat., 124°04'05" W. long.), and then along the south jetty to the point of intersection with the Buoy #10 line.
- e. *Klamath Control Zone* - The ocean area at the Klamath River mouth bounded on the north by 41°38'48" N. lat. (approximately 6 nautical miles north of the Klamath River mouth); on the west by 124°23'00" W. long. (approximately 12 nautical miles off shore); and on the south by 41°26'48" N. lat. (approximately 6 nautical miles south of the Klamath River mouth).
- f. Waypoints for the 40 fathom regulatory line from Cape Falcon to Humbug Mt. (50 CFR 660.71 (k) (12)-(70), when in place.

45°46.00' N. lat., 124°04.49' W. long.;	44°41.68' N. lat., 124°15.38' W. long.;	43°17.96' N. lat., 124°28.81' W. long.;
45°44.34' N. lat., 124°05.09' W. long.;	44°34.87' N. lat., 124°15.80' W. long.;	43°16.75' N. lat., 124°28.42' W. long.;
45°40.64' N. lat., 124°04.90' W. long.;	44°33.74' N. lat., 124°14.44' W. long.;	43°13.97' N. lat., 124°31.99' W. long.;
45°33.00' N. lat., 124°04.46' W. long.;	44°27.66' N. lat., 124°16.99' W. long.;	43°13.72' N. lat., 124°33.25' W. long.;
45°32.27' N. lat., 124°04.74' W. long.;	44°19.13' N. lat., 124°19.22' W. long.;	43°12.26' N. lat., 124°34.16' W. long.;
45°29.26' N. lat., 124°04.22' W. long.;	44°15.35' N. lat., 124°17.38' W. long.;	43°10.96' N. lat., 124°32.33' W. long.;
45°20.25' N. lat., 124°04.67' W. long.;	44°14.38' N. lat., 124°17.78' W. long.;	43°05.65' N. lat., 124°31.52' W. long.;
45°19.99' N. lat., 124°04.62' W. long.;	44°12.80' N. lat., 124°17.18' W. long.;	42°59.66' N. lat., 124°32.58' W. long.;
45°17.50' N. lat., 124°04.91' W. long.;	44°09.23' N. lat., 124°15.96' W. long.;	42°54.97' N. lat., 124°36.99' W. long.;
45°11.29' N. lat., 124°05.20' W. long.;	44°08.38' N. lat., 124°16.79' W. long.;	42°53.81' N. lat., 124°38.57' W. long.;
45°05.80' N. lat., 124°05.40' W. long.;	44°08.30' N. lat., 124°16.75' W. long.;	42°50.00' N. lat., 124°39.68' W. long.;
45°05.08' N. lat., 124°05.93' W. long.;	44°01.18' N. lat., 124°15.42' W. long.;	42°49.13' N. lat., 124°39.70' W. long.;
45°03.83' N. lat., 124°06.47' W. long.;	43°51.61' N. lat., 124°14.68' W. long.;	42°46.47' N. lat., 124°38.89' W. long.;
45°01.70' N. lat., 124°06.53' W. long.;	43°42.66' N. lat., 124°15.46' W. long.;	42°45.74' N. lat., 124°38.86' W. long.;
44°58.75' N. lat., 124°07.14' W. long.;	43°40.49' N. lat., 124°15.74' W. long.;	42°44.79' N. lat., 124°37.96' W. long.;
44°51.28' N. lat., 124°10.21' W. long.;	43°38.77' N. lat., 124°15.64' W. long.;	42°45.01' N. lat., 124°36.39' W. long.;
44°49.49' N. lat., 124°10.90' W. long.;	43°34.52' N. lat., 124°16.73' W. long.;	42°44.14' N. lat., 124°35.17' W. long.;
44°44.96' N. lat., 124°14.39' W. long.;	43°28.82' N. lat., 124°19.52' W. long.;	42°42.14' N. lat., 124°32.82' W. long.;
44°43.44' N. lat., 124°14.78' W. long.;	43°23.91' N. lat., 124°24.28' W. long.;	42°40.50' N. lat., 124°31.98' W. long.;
44°42.26' N. lat., 124°13.81' W. long.;	43°20.83' N. lat., 124°26.63' W. long.;	

- C.6. **Notification When Unsafe Conditions Prevent Compliance with Regulations:** If prevented by unsafe weather conditions or mechanical problems from meeting special management area landing restrictions, vessels must notify the U.S. Coast Guard and receive acknowledgment of such notification prior to leaving the area. This notification shall include the name of the vessel, port where delivery will be made, approximate number of salmon (by species) on board, the estimated time of arrival, and the specific reason the vessel is not able to meet special management area landing restrictions.

In addition to contacting the U.S. Coast Guard, vessels fishing south of the Oregon/California border must notify CDFW within one hour of leaving the management area by calling 800-889-8346 and providing the same information as reported to the U.S. Coast Guard. All salmon must be offloaded within 24 hours of reaching port.

**C. REQUIREMENTS, DEFINITIONS, RESTRICTIONS, OR EXCEPTIONS (continued)**

C.7. Incidental Pacific Halibut Harvest: License applications for incidental harvest for Pacific halibut during commercial salmon fishing must be obtained from NMFS.

- a. Pacific halibut retained must be no less than 32 inches in total length (with head on).
- b. During the salmon troll season, incidental harvest is authorized only during April, May, and June, and after June 30 if quota remains and if announced on the NMFS hotline (phone: 800-662-9825 or 206-526-6667). WDFW, ODFW, and CDFW will monitor landings. If the landings are projected to exceed the preseason allocation for this fishery or the total Area 2A non-Indian commercial halibut allocation, NMFS will take inseason action to prohibit retention of halibut in the non-Indian salmon troll fishery. See the most current Pacific Halibut Catch Sharing Plan for more details.
- c. Incidental Pacific halibut catch regulations in the commercial salmon troll fishery adopted for 2023, prior to any 2023 inseason action, will be in effect when incidental Pacific halibut retention opens on April 1, 2023 unless otherwise modified by inseason action at the March 2023 Council meeting.
- d. At the 2023 March meeting, the Council adopted the following options for public review:  
Beginning May 16, 2023, through the end of the 2023 salmon troll fishery, and beginning April 1, 2024, until modified through inseason action or superseded by the 2024 management measures license holders may land or possess no more than one Pacific halibut per two Chinook, except one Pacific halibut may be possessed or landed without meeting the ratio requirement, and:  
Option I - no more than 35 halibut may be possessed or landed per trip.  
Option II - no more than 30 halibut may be possessed or landed per trip.  
Option III - no more than 25 halibut may be possessed or landed per trip.
- e. "C-shaped" yelloweye rockfish conservation area is an area to be voluntarily avoided for salmon trolling. NMFS and the Council request salmon trollers voluntarily avoid this area in order to protect yelloweye rockfish. The area is defined in the Pacific Council Halibut Catch Sharing Plan in the North Coast subarea (Washington marine area 3), with the following coordinates in the order listed:  
  
48°18' N. lat.; 125°18' W. long.;  
48°18' N. lat.; 124°59' W. long.;  
48°11' N. lat.; 124°59' W. long.;  
48°11' N. lat.; 125°11' W. long.;  
48°04' N. lat.; 125°11' W. long.;  
48°04' N. lat.; 124°59' W. long.;  
48°00' N. lat.; 124°59' W. long.;  
48°00' N. lat.; 125°18' W. long.;  
and connecting back to 48°18' N. lat.; 125°18' W. long.

C.8. Inseason Management: In addition to standard inseason actions or modifications already noted under the season description, the following inseason guidance is provided to NMFS:

- a. Chinook remaining from the May through June non-Indian commercial troll harvest guideline north of Cape Falcon may be transferred to the July through September harvest guideline if the transfer would not result in exceeding preseason impact expectations on any stocks.
- b. Chinook remaining from May, June, and/or July non-Indian commercial troll quotas in the Oregon or California KMZ may be transferred to the Chinook quota for the next open period if the transfer would not result in exceeding preseason impact expectations on any stocks.
- c. NMFS may transfer salmon between the recreational and commercial fisheries north of Cape Falcon if there is agreement among the areas' representatives on the Salmon Advisory Subpanel (SAS), and if the transfer would not result in exceeding preseason impact expectations on any stocks.
- d. The Council will consider inseason recommendations for special regulations for any experimental fisheries annually in March; proposals must meet Council protocol and be received in November the year prior.
- e. If retention of unmarked coho (adipose fin intact) is permitted by inseason action, the allowable coho quota will be adjusted to ensure preseason projected impacts on all stocks is not exceeded.
- f. Landing limits may be modified inseason to sustain season length and keep harvest within overall quotas.
- g. Landing limits in California may be implemented and/or modified inseason to sustain season length and keep harvest within preseason expectations.
- h. Deviations from the allocation of allowable ocean harvest of coho salmon in the area south of Cape Falcon may be allowed to meet consultation standards for ESA-listed stocks (FMP 5.3.2). Therefore, should any rollovers result in a deviation from the south of Cape Falcon coho allocation schedule between sectors would still fall underneath this exemption.

TABLE 1. 2023 Commercial troll management Alternatives for non-Indian ocean salmon fisheries – STT analyzed. (Page 7 of 7)

C.9. State Waters Fisheries: Consistent with Council management objectives:

- a. The State of Oregon may establish additional late-season fisheries in state waters.
- b. The State of California may establish limited fisheries in selected state waters.
- c. Check state regulations for details

C.10. For the purposes of California Fish and Game Code, Section 8232.5, the definition of the Klamath Management Zone (KMZ) for the ocean salmon season shall be that area from Humbug Mountain, Oregon, to the Southern KMZ Boundary.

C.11. Latitudes for geographical reference of major landmarks along the west coast. Majority of information from source: 2020 West Coast federal salmon regulations.

<https://www.govinfo.gov/content/pkg/FR-2020-05-08/pdf/2020-09903.pdf>.

Cape Flattery, WA	48°23'00" N lat.	Humboldt South Jetty, CA	40°45'53" N lat.
Cape Alava, WA	48°10'00" N lat.	40°10' line (near Cape Mendocino, CA)	40°10'00" N lat
Queets River, WA	47°31'42" N lat.	Horse Mountain, CA	40°05'00" N lat.
Leadbetter Point, WA	46°38'10" N lat.	Point Arena, CA	38°57'30" N lat.
Cape Falcon, OR	45°46'00" N lat.	Point Reyes, CA	37°59'44" N lat.
South end Heceta Bank line, OR	43°58'00" N lat.	Point San Pedro, CA	37°35'40" N lat.
Humbug Mountain, OR	42°40'30" N lat.	Pigeon Point, CA	37°11'00" N lat.
Oregon-California border	42°00'00" N lat.	Point Sur, CA	36°18'00" N lat.
		Point Conception, CA	34°27'00" N lat.



TABLE 2. 2023 Recreational management measures for non-Indian ocean salmon fisheries – STT analyzed. (Page 1 of 5)

<b>A. SEASON DESCRIPTIONS</b>
<b>North of Cape Falcon</b>
<b>Supplemental Management Information</b>
<p>1. Overall non-Indian TAC: 80,000 Chinook and 200,000 coho marked with a healed adipose fin clip (marked).                      2. Recreational TAC: 40,000 Chinook and 168,000 marked coho; all retained coho must be marked.                      3. Buoy 10 fishery opens August 1 with an expected landed catch of 40,000 marked coho in August and September</p>
<p><b>U.S./Canada Border to Cape Alava (Neah Bay Subarea)</b></p> <ul style="list-style-type: none"> <li>June 17 through earlier of September 30, or 17,470 marked coho subarea quota, with a subarea guideline of 8,930 Chinook (C.5).</li> </ul> <p>Open seven days per week. All salmon, except no chum beginning August 1; two salmon per day, of which only one may be a Chinook. All coho must be marked with a healed adipose fin clip. See minimum size limits (B). See gear restrictions and definitions (C.1, C.2, C.3).</p> <p>An impact neutral non-selective coho fishery may be considered through inseason management action later in the season.</p> <p>Beginning August 1, no Chinook retention east of the Bonilla-Tatoosh line (C.4.a) during Council managed ocean fishery. Inseason management may be used to sustain season length and keep harvest within the overall Chinook and coho recreational TACs for north of Cape Falcon (C.5).</p>
<p><b>Cape Alava to Queets River (La Push Subarea)</b></p> <ul style="list-style-type: none"> <li>June 17 through earlier of September 30, or 4,370 marked coho subarea quota, with a subarea guideline of 1,480 Chinook (C.5).</li> </ul> <p>Open seven days per week. All salmon, except no chum beginning August 1; two salmon per day, of which only one may be a Chinook. All coho must be marked with a healed adipose fin clip. See minimum size limits (B). See gear restrictions and definitions (C.1, C.2, C.3).</p> <p>Inseason management may be used to sustain season length and keep harvest within the overall Chinook and coho recreational TACs for north of Cape Falcon (C.5).</p> <p>An impact neutral non-selective coho fishery may be considered through inseason management action later in the season.</p> <ul style="list-style-type: none"> <li>October 3 through earlier of October 7, or 150 Chinook quota (C.5) in the area north of 47°50'00" N. lat. and south of 48°00'00" N. lat.</li> </ul> <p>Fishery may be closed if extreme freshwater temperature and/or flow events occur in the Quillayute basin in September. Chinook only, one Chinook per day. See minimum size limits (B). See gear restrictions and definitions (C.1, C.2, C.3).</p>
<p><b>Queets River to Leadbetter Point (Westport Subarea)</b></p> <ul style="list-style-type: none"> <li>June 24 through earlier of September 30, or 62,160 marked coho subarea quota, with a subarea guideline of 17,650 Chinook (C.5).</li> </ul> <p>Open seven days per week. All salmon, two salmon per day, no more than one of which may be a Chinook. All coho must be marked with a healed adipose fin clip. See gear restrictions and definitions (C.1, C.2, C.3). Chinook minimum size limit of 22 inches total length (B).</p> <p>An impact neutral non-selective coho fishery may be considered through inseason management action later in the season.</p> <p>Inseason management may be used to sustain season length and keep harvest within the overall Chinook and coho recreational TACs for north of Cape Falcon (C.5).</p>
<p><b>Leadbetter Point to Cape Falcon (Columbia River Subarea)</b></p> <ul style="list-style-type: none"> <li>June 24 through earlier of September 30, or 84,000 marked coho subarea quota, with a subarea guideline of 11,790 Chinook (C.5).</li> </ul> <p>Open seven days per week. All salmon; two salmon per day, no more than one of which may be a Chinook. All coho must be marked with a healed adipose fin clip. See gear restrictions and definitions (C.1, C.2, C.3). Chinook minimum size limit of 22 inches total length (B).</p> <p>An impact neutral non-selective coho fishery may be considered through inseason management action later in the season.</p> <p>Columbia Control Zone closed (C.4.c). Inseason management may be used to sustain season length and keep harvest within the overall Chinook and coho recreational TACs for north of Cape Falcon (C.5).</p>

TABLE 2. 2023 Recreational management measures for non-Indian ocean salmon fisheries – STT analyzed. (Page 2 of 5)

<b>South of Cape Falcon</b>
<b>Supplemental Management Information</b>
<p>Sacramento River fall Chinook spawning escapement of 164,964 hatchery and natural area adults.</p> <p>2. Sacramento Index exploitation rate of 2.8 %.</p> <p>3. Klamath River recreational fishery allocation: 1,804 adult Klamath River fall Chinook.</p> <p>4. Klamath tribal allocation: 1,872 adult Klamath River fall Chinook.</p> <p>5. Overall recreational coho TAC: 110,000 coho marked with a healed adipose fin clip (marked), and 25,000 coho in the non-mark-selective coho fishery.</p> <p>6. Fisheries may need to be adjusted to meet NMFS ESA consultation standards, FMP requirements, other management objectives, or upon receipt of new allocation recommendations from the CFGC.</p>
<b>A. SEASON DESCRIPTIONS</b>
<b>South of Cape Falcon</b>
<p><b>Cape Falcon to OR/CA Border</b>  Mark-selective coho fishery:  <ul style="list-style-type: none"> <li>• June 17 through the earlier of August 31, or 110,000 marked coho quota (C.6).</li> </ul> <p>Open seven days per week. All salmon except Chinook, two salmon per day. All retained coho must be marked with a healed adipose fin clip (C.1). See minimum size limits (B). See gear restrictions and definitions (C.2, C.3).</p> <p>Any remainder of the mark-selective coho quota may be transferred inseason on an impact neutral basis to the recreational and/or commercial troll quotas for the non-selective coho fishery from Cape Falcon to Humbug Mountain. Recreational needs will be prioritized for this transfer (C.5).</p> </p>
<p><b>Cape Falcon to Humbug Mt.</b>  <ul style="list-style-type: none"> <li>• September 1-October 31 (C.6).</li> </ul> <p>Open seven days per week. All salmon except coho, except as described in the non-mark-selective coho fishery (C.5), one fish per day (C.1). Chinook minimum size limit of 24 inches total length (B). See gear restrictions and definitions (C.2, C.3). Beginning October 1, open only shoreward of the 40-fathom regulatory line (C.5.g).</p> <p>In 2024, the season will open March 15 for all salmon except coho, two salmon per day (C.1). Chinook minimum size limit of 24 inches total length (B); and the same gear restrictions as in 2023 (C.2, C.3). This opening could be modified following Council review at its March 2024 meeting.</p> </p>
<p><b>Cape Falcon to Humbug Mt.</b>  Non-mark-selective coho fishery:  <ul style="list-style-type: none"> <li>• September 1 through the earlier of September 30, or 25,000 non-mark-selective coho quota (C.6). Open days may be modified inseason.</li> </ul> <p>Open seven days per week. All salmon, two salmon per day only one of which may be a Chinook (C.1). See minimum size limits (B). See gear restrictions and definitions (C.2, C.3).</p> </p>
<p><b>For Recreational Fisheries from Cape Falcon to Humbug Mt.:</b> Fishing in the Stonewall Bank yelloweye rockfish conservation area restricted to trolling only on days the all depth recreational halibut fishery is open (call the halibut fishing hotline 1-800-662-9825 for specific dates) (C.3.b, C.4.d).</p>

TABLE 2. 2023 Recreational management measures for non-Indian ocean salmon fisheries – STT analyzed. (Page 3 of 5)

<b>A. SEASON DESCRIPTIONS</b>
<p><b>OR/CA Border to latitude 40°10' N. (California KMZ)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, season opens May 1 for all salmon except coho, two salmon per day (C.1). Chinook minimum size limit of 20 inches total length (B); See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). Bag limits may be modified in season. This opening could be modified following Council review at its March or April 2024 meeting.</p>
<p><b>Latitude 40°10' N. to Point Arena (Fort Bragg)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, season opens April 6 for all salmon except coho, two salmon per day (C.1). Chinook minimum size limit of 20 inches total length (B); See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). Bag limits may be modified in season. This opening could be modified following Council review at its March or April 2024 meeting.</p>
<p><b>Point Arena to Pigeon Point (San Francisco)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, season opens April 6 for all salmon except coho, two salmon per day (C.1). Chinook minimum size limit of 24 inches total length (B); See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). Bag limits may be modified in season. This opening could be modified following Council review at its March 2024 meeting.</p>
<p><b>Pigeon Point to U.S./Mexico Border (Monterey)</b></p> <ul style="list-style-type: none"> <li>• Closed.</li> </ul> <p>In 2024, season opens April 6 for all salmon except coho, two salmon per day (C.1). Chinook minimum size limit of 24 inches total length (B); See compliance requirements (C.1) and gear restrictions and definitions (C.2, C.3). Bag limits may be modified in season. This opening could be modified following Council review at its March 2024 meeting.</p>
<p>California State regulations require all salmon be made available to a CDFW representative for sampling immediately at port of landing. Any person in possession of a salmon with a missing adipose fin, upon request by an authorized agent or employee of the CDFW, shall immediately relinquish the head of the salmon to the State (California Code of Regulations Title 14 Section 1.73).</p>

**B. MINIMUM SIZE (Inches) (See C.1)**

Area (when open)	Chinook	Coho	Pink
North of Cape Falcon (Westport and Col R)	22	16	None
North of Cape Falcon (Neah Bay and La Push)	24	16	None
Cape Falcon to Humbug Mt.	24	16	None
Humbug Mt. to OR/CA Border	24	16	None
OR/CA Border to Pt. Arena	-	-	-
Pt. Arena to Pigeon Pt.	-	-	-
Pigeon Pt. to U.S./Mexico Border	-	-	-

**C. REQUIREMENTS, DEFINITIONS, RESTRICTIONS, OR EXCEPTIONS**

- C.1. **Compliance with Minimum Size and Other Special Restrictions:** All salmon on board a vessel must meet the minimum size or other special requirements for the area being fished and the area in which they are landed if that area is open. Salmon may be landed in an area that is closed only if they meet the minimum size or other special requirements for the area in which they were caught. Salmon may not be filleted, or salmon heads removed prior to landing.  
*Ocean Boat Limits:* Off the coast of Washington, Oregon, and California, each fisher aboard a vessel may continue to use angling gear until the combined daily limits of Chinook and coho salmon for all licensed and juvenile anglers aboard have been attained (additional state restrictions may apply).
- C.2. **Gear Restrictions:** Salmon may be taken only by hook and line using barbless hooks. All persons fishing for salmon, and all persons fishing from a boat with salmon on board must meet the gear restrictions listed below for specific areas or seasons.
- a. *U.S./Canada Border to Pt. Conception, California:* No more than one rod may be used per angler; and no more than two single point, single shank, barbless hooks are required for all fishing gear.
  - b. *Latitude 40°10' N. to Pt. Conception, California:* Single point, single shank, barbless circle hooks (see gear definitions below) are required when fishing with bait by any means other than trolling, and no more than two such hooks shall be used. When angling with two hooks, the distance between the hooks must not exceed five inches when measured from the top of the eye of the top hook to the inner base of the curve of the lower hook, and both hooks must be permanently tied in place (hard tied). Circle hooks are not required when artificial lures are used without bait.

**C. REQUIREMENTS, DEFINITIONS, RESTRICTIONS, OR EXCEPTIONS (continued)**

**C.3. Gear Definitions:**

- a. *Recreational fishing gear defined:* Off Oregon and Washington, angling tackle consists of a single line that must be attached to a rod and reel held by hand or closely attended; the rod and reel must be held by hand while playing a hooked fish. No person may use more than one rod and line while fishing off Oregon or Washington. Off California, the line must be attached to a rod and reel held by hand or closely attended; weights directly attached to a line may not exceed four pounds (1.8 kg). While fishing off California north of Pt. Conception, no person fishing for salmon, and no person fishing from a boat with salmon on board, may use more than one rod and line. Fishing includes any activity which can reasonably be expected to result in the catching, taking, or harvesting of fish.
- b. *Trolling defined:* Angling from a boat or floating device that is making way by means of a source of power, other than drifting by means of the prevailing water current or weather conditions.
- c. *Circle hook defined:* A hook with a generally circular shape and a point which turns inward, pointing directly to the shank at a 90° angle.

**C.4. Control Zone Definitions:**

- a. *The Bonilla-Tatoosh Line:* A line running from the western end of Cape Flattery to Tatoosh Island Lighthouse (48°23'30" N. lat., 124°44'12" W. long.) to the buoy adjacent to Duntze Rock (48°24'37" N. lat., 124°44'37" W. long.), then in a straight line to Bonilla Pt. (48°35'39" N. lat., 124°42'58" W. long.) on Vancouver Island, British Columbia.
- b. *Grays Harbor Control Zone -* The area defined by a line drawn from the Westport Lighthouse (46° 53'18" N. lat., 124° 07'01" W. long.) to Buoy #2 (46° 52'42" N. lat., 124°12'42" W. long.) to Buoy #3 (46° 55'00" N. lat., 124°14'48" W. long.) to the Grays Harbor north jetty (46° 55'36" N. lat., 124°10'51" W. long.).
- c. *Columbia Control Zone:* An area at the Columbia River mouth, bounded on the west by a line running northeast/southwest between the red lighted Buoy #4 (46°13'35" N. lat., 124°06'50" W. long.) and the green lighted Buoy #7 (46°15'09" N. lat., 124°06'16" W. long.); on the east, by the Buoy #10 line which bears north/south at 357° true from the south jetty at 46°14'00" N. lat., 124°03'07" W. long. to its intersection with the north jetty; on the north, by a line running northeast/southwest between the green lighted Buoy #7 to the tip of the north jetty (46°15'48" N. lat., 124°05'20" W. long. and then along the north jetty to the point of intersection with the Buoy #10 line; and on the south, by a line running northeast/southwest between the red lighted Buoy #4 and tip of the south jetty (46°14'03" N. lat., 124°04'05" W. long.), and then along the south jetty to the point of intersection with the Buoy #10 line.
- d. *Stonewall Bank Yelloweye Rockfish Conservation Area:* The area defined by the following coordinates in the order listed:  
 44°37.46' N. lat.; 124°24.92' W. long.  
 44°37.46' N. lat.; 124°23.63' W. long.  
 44°28.71' N. lat.; 124°21.80' W. long.  
 44°28.71' N. lat.; 124°24.10' W. long.  
 44°31.42' N. lat.; 124°25.47' W. long.  
 and connecting back to 44°37.46' N. lat.; 124°24.92' W. long.
- e. *Klamath Control Zone:* The ocean area at the Klamath River mouth bounded on the north by 41°38'48" N. lat. (approximately 6 nautical miles north of the Klamath River mouth); on the west by 124°23'00" W. long. (approximately 12 nautical miles offshore); and, on the south by 41°26'48" N. lat. (approximately 6 nautical miles south of the Klamath River mouth).

**C.5. Inseason Management:** Regulatory modifications may become necessary inseason to meet preseason management objectives such as quotas, harvest guidelines, and season duration. In addition to standard inseason actions or modifications already noted under the season description, the following inseason guidance is provided to NMFS:

- a. Actions could include modifications to bag limits, or days open to fishing, and extensions or reductions in areas open to fishing.
- b. Coho may be transferred inseason among recreational subareas north of Cape Falcon to help meet the recreational season duration objectives (for each subarea) after conferring with representatives of the affected ports and the Council's SAS recreational representatives north of Cape Falcon, and if the transfer would not result in exceeding preseason impact expectations on any stocks.
- c. Chinook and coho may be transferred between the recreational and commercial fisheries north of Cape Falcon if there is agreement among the representatives of the SAS, and if the transfer would not result in exceeding preseason impact expectations on any stocks.
- d. Fishery managers may consider inseason action modifying regulations restricting retention of unmarked (adipose fin intact) coho. To remain consistent with preseason expectations, any inseason action shall consider, if significant, the difference between observed and preseason forecasted (adipose-clipped) mark rates. Such a consideration may also include a change in bag limit of two salmon, no more than one of which may be a coho.
- e. Marked coho remaining from the Cape Falcon to OR/CA Border recreational mark-selective coho quota may be transferred inseason to the Cape Falcon to Humbug Mt. non-mark-selective recreational fishery or the Cape Falcon to Humbug Mt. commercial troll fishery if the transfer would not result in exceeding preseason impact expectations on any stocks.
- f. Deviations from the allocation of allowable ocean harvest of coho salmon in the area south of Cape Falcon may be allowed to meet consultation standards for ESA-listed stocks (FMP 5.3.2). Therefore, should any rollovers result in a deviation from the south of Cape Falcon coho allocation schedule between sectors would still fall underneath this exemption.

TABLE 2. 2023 Recreational management measures for non-Indian ocean salmon fisheries – STT analyzed. (Page 5 of 5)

**C. REQUIREMENTS, DEFINITIONS, RESTRICTIONS, OR EXCEPTIONS (continued)**

g. Waypoints for the 40 fathom regulatory line from Cape Falcon to Humbug Mt. (50 CFR 660.71 (k) (12)-(70), when in place.

45°46.00' N. lat., 124°04.49' W. long.;	44°15.35' N. lat., 124°17.38' W. long.;
45°44.34' N. lat., 124°05.09' W. long.;	44°14.38' N. lat., 124°17.78' W. long.;
45°40.64' N. lat., 124°04.90' W. long.;	44°12.80' N. lat., 124°17.18' W. long.;
45°33.00' N. lat., 124°04.46' W. long.;	44°09.23' N. lat., 124°15.96' W. long.;
45°32.27' N. lat., 124°04.74' W. long.;	44°08.38' N. lat., 124°16.79' W. long.;
45°29.26' N. lat., 124°04.22' W. long.;	44°08.30' N. lat., 124°16.75' W. long.;
45°20.25' N. lat., 124°04.67' W. long.;	44°01.18' N. lat., 124°15.42' W. long.;
45°19.99' N. lat., 124°04.62' W. long.;	43°51.61' N. lat., 124°14.68' W. long.;
45°17.50' N. lat., 124°04.91' W. long.;	43°42.66' N. lat., 124°15.46' W. long.;
45°11.29' N. lat., 124°05.20' W. long.;	43°40.49' N. lat., 124°15.74' W. long.;
45°05.80' N. lat., 124°05.40' W. long.;	43°38.77' N. lat., 124°15.64' W. long.;
45°05.08' N. lat., 124°05.93' W. long.;	43°34.52' N. lat., 124°16.73' W. long.;
45°03.83' N. lat., 124°06.47' W. long.;	43°28.82' N. lat., 124°19.52' W. long.;
45°01.70' N. lat., 124°06.53' W. long.;	43°23.91' N. lat., 124°24.28' W. long.;
44°58.75' N. lat., 124°07.14' W. long.;	43°20.83' N. lat., 124°26.63' W. long.;
44°51.28' N. lat., 124°10.21' W. long.;	43°17.96' N. lat., 124°28.81' W. long.;
44°49.49' N. lat., 124°10.90' W. long.;	43°16.75' N. lat., 124°28.42' W. long.;
44°44.96' N. lat., 124°14.39' W. long.;	43°13.97' N. lat., 124°31.99' W. long.;
44°43.44' N. lat., 124°14.78' W. long.;	43°13.72' N. lat., 124°33.25' W. long.;
44°42.26' N. lat., 124°13.81' W. long.;	43°12.26' N. lat., 124°34.16' W. long.;
44°41.68' N. lat., 124°15.38' W. long.;	43°10.96' N. lat., 124°32.33' W. long.;
44°34.87' N. lat., 124°15.80' W. long.;	43°05.65' N. lat., 124°31.52' W. long.;
44°33.74' N. lat., 124°14.44' W. long.;	42°59.66' N. lat., 124°32.58' W. long.;
44°27.66' N. lat., 124°16.99' W. long.;	42°54.97' N. lat., 124°36.99' W. long.;
44°19.13' N. lat., 124°19.22' W. long.;	42°53.81' N. lat., 124°38.57' W. long.;
	42°50.00' N. lat., 124°39.68' W. long.;

C.6. Additional Seasons in State Territorial Waters: Consistent with Council management objectives, the States of Washington, Oregon, and California may establish limited seasons in state waters. Check state regulations for details.

TABLE 3. 2023 Treaty Indian troll management Alternatives for ocean salmon fisheries – STT Analyzed. (Page 1 of 2)

<b>A. SEASON ALTERNATIVE DESCRIPTIONS</b>	
<b>Supplemental Management Information</b>	
1. Overall Treaty-Indian TAC: 50,000 Chinook and 60,000 coho. 2. Overall Chinook and/or coho TACs may need to be reduced or fisheries adjusted to meet NMFS ESA guidance, FMP requirements, upon conclusion of negotiations in the North of Falcon forum, or upon receipt of preseason catch and abundance expectations for Canadian and Alaskan fisheries. 3. In 2024, the season will open May 1, consistent with all preseason regulations in place for Treaty Indian Troll fisheries during May 16-June 30, 2023. All catch in May 2024 applies against the 2024 Treaty Indian Troll fisheries quota. This opening could be modified following Council review at its March and/or April 2024 meetings.	
<ul style="list-style-type: none"> <li>• May 1 through the earlier of June 30 or 25,000 Chinook quota.</li> </ul> All salmon may be retained except coho. If the Chinook quota is exceeded, the excess will be deducted from the later all-salmon season (C.5). See size limit (B) and other restrictions (C).	
<ul style="list-style-type: none"> <li>• July 1 through the earlier of September 15, or 25,000 Chinook quota or 60,000 coho quota</li> </ul> All salmon. See size limit (B) and other restrictions (C).	

**B. MINIMUM LENGTH (TOTAL INCHES)**

Area (when open)	Chinook		Coho		Pink
	Total Length	Head-off	Total Length	Head-off	
North of Cape Falcon	24.0 (61.0 cm)	18.0 (45.7 cm)	16.0 (40.6 cm)	12.0 (30.5 cm)	None

**C. REQUIREMENTS, DEFINITIONS, RESTRICTIONS, OR EXCEPTIONS**

C.1. Tribe and Area Boundaries. All boundaries may be changed to include such other areas as may hereafter be authorized by a Federal court for that tribe's treaty fishery.

S'KLALLAM - Washington State Statistical Area 4B (defined to include those waters of Puget Sound easterly of a line projected from the Bonilla Point light on Vancouver Island to the Tatoosh Island light, thence to the most westerly point on Cape Flattery and westerly of a line projected true north from the fishing boundary marker at the mouth of the Sekiu River [WAC 220-301-030]).

MAKAH - Washington State Statistical Area 4B and that portion of the FMA north of 48°02'15" N. lat. (Norwegian Memorial) and east of 125°44'00" W. long.

QUILEUTE - A polygon commencing at Cape Alava, located at latitude 48°10'00" north, longitude 124°43'56.9" west; then proceeding west approximately forty nautical miles at that latitude to a northwestern point located at latitude 48°10'00" north, longitude 125°44'00" west; then proceeding in a southeasterly direction mirroring the coastline at a distance no farther than forty nautical miles from the mainland Pacific coast shoreline at any line of latitude, to a southwestern point at latitude 47°31'42" north, longitude 125°20'26" west; then proceeding east along that line of latitude to the Pacific coast shoreline at latitude 47°31'42" north, longitude 124°21'9.0" west.

HOH - That portion of the FMA between 47°54'18" N. lat. (Quillayute River) and 47°21'00" N. lat. (Quinault River) and east of 125°44'00" W. long.

QUINAULT - A polygon commencing at the Pacific coast shoreline near Destruction Island, located at latitude 47°40'06" north, longitude 124°23'51.362" west; then proceeding west approximately thirty nautical miles at that latitude to a northwestern point located at latitude 47°40'06" north, longitude 125°08'30" west; then proceeding in a southeasterly direction mirroring the coastline no farther than thirty nautical miles from the mainland Pacific coast shoreline at any line of latitude, to a southwestern point at latitude 46°53'18" north, longitude 124°53'53" west; then proceeding east along that line of latitude to the Pacific coast shoreline at latitude 46°53'18" north, longitude 124°7'36.6" west.

C.2. Gear restrictions

- Single point, single shank, barbless hooks are required in all fisheries.
- No more than eight fixed lines per boat.
- No more than four hand-held lines per person in the Makah area fishery (Washington State Statistical Area 4B and that portion of the FMA north of 48°02'15" N. lat. (Norwegian Memorial) and east of 125°44'00" W. long.)

C.3. Quotas

- The quotas include troll catches by the S'Klallam and Makah Tribes in Washington State Statistical Area 4B from May 1 through September 15.
- The **Quileute Tribe may continue a ceremonial and subsistence fishery** during the time frame of October 1 through October 15 in the same manner as in 2004-2015. Fish taken during this fishery are to be counted against treaty troll quotas established for the 2024 season (estimated harvest during the October ceremonial and subsistence fishery: 20 Chinook; 40 coho).

C.4. Area Closures

- a. The area within a six nautical mile radius of the mouths of the Queets River (47°31'42" N. lat.) and the Hoh River (47°45'12" N. lat.) will be closed to commercial fishing.
- b. A closure within two nautical miles of the mouth of the Quinault River (47°21'00" N. lat.) may be enacted by the Quinault Nation and/or the State of Washington and will not adversely affect the Secretary of Commerce's management regime.

C.5. Inseason Management: In addition to standard inseason actions or modifications already noted under the season description, the following inseason guidance is provided to NMFS:

- a. Chinook remaining from the May through June treaty-Indian ocean troll harvest guideline north of Cape Falcon may be transferred to the July through September harvest guideline on a fishery impact equivalent basis.

TABLE 5. Projected key stock escapements (thousands of fish) or management criteria for 2023 ocean fishery Alternatives - STT analyzed<sup>a/</sup> (Page 1 of 5)

Key Stock/Criteria	PROJECTED	2023 Criteria	Spawner Objective or Other Comparative Standard as Noted <sup>b/</sup>
<b>CHINOOK</b>		<b>CHINOOK</b>	
<b>SRKW PREY ABUNDANCE<sup>c/</sup></b>			
North of Falcon	889.9	≥ 623.0	Oct 1 starting abundance of age 3+ Chinook from U.S./Canada Border to Cape Falcon
Oregon Coast	467.1	NA	Oct 1 starting abundance of age 3+ Chinook from Cape Falcon to Horse Mt.
California Coast	249.0	NA	Oct 1 starting abundance of age 3+ Chinook south of Horse Mt.
Southwest WCVI	662.2	NA	Oct 1 starting abundance of age 3+ Chinook off Southwest Vancouver Island
Salish Sea	1,053.3	NA	Oct 1 starting abundance of age 3+ Chinook in the Salish Sea
<b>PUGET SOUND:</b>			
Elwha Summer/Fall	6.3%	≤ 10.0%	Southern U.S. exploitation rate (NMFS ESA consultation standard).
Dungeness Spring	6.1%	≤ 10.0%	Southern U.S. exploitation rate (NMFS ESA consultation standard).
Mid-Hood Canal Summer/Fall	17.1%	TBD	Preterminal Southern U.S. exploitation rate consistent with NMFS guidance.
Skokomish Summer/Fall	<b>53.3%</b>	≤ 50.0%	Total exploitation rate (NMFS ESA consultation standard).
Nooksack Spring	<b>12.8%</b>	≤ 10.9%	Southern U.S. exploitation rate (NMFS ESA consultation standard).
	<b>1.13</b>	≤ 1.00	ISBM obligation applicable, as this stock lacks a CTC agreed escapement goal. Compliance assessed postseason by the PSC.
Skagit Summer/Fall	<b>29.1%</b>	≤ 17.0%	Southern U.S. exploitation rate (NMFS ESA consultation standard).
	<b>1.17</b>	≤ 0.95	ISBM obligation applicable, escapement goal not expected to be met. Compliance assessed postseason by the PSC.
Skagit Spring	25.1%	≤ 36.0%	Total exploitation rate (NMFS ESA consultation standard).
	--	≤ 0.95	ISBM obligation not applicable, escapement goal expected to be met. Compliance assessed postseason by the PSC.
Stillaguamish Summer/Fall	<b>12.3%</b>	≤ 9.0%	Southern U.S. exploitation rate (NMFS ESA consultation standard).
	0.85	≤ 1.00	ISBM obligation applicable, as this stock lacks a CTC agreed escapement goal. Compliance assessed postseason by the PSC.
Snohomish Summer/Fall	<b>9.9%</b>	≤ 8.3%	Southern U.S. exploitation rate limit (NMFS ESA consultation standard).
	1.00	≤ 1.00	ISBM obligation applicable, as this stock lacks a CTC agreed escapement goal. Compliance assessed postseason by the PSC.
Lake Washington Summer/Fall	0.630	≥ 0.500	Natural spawning escapement in the Cedar River (NMFS ESA consultation standard).
Green River Summer/Fall	3.681	≥ 2.744	Natural spawning escapement in the Green River (NMFS ESA consultation standard).
White River Spring	17.3%	≤ 22.0%	Southern U.S. exploitation rate (NMFS ESA consultation standard).
Puyallup Summer/Fall	2.650	> 1.170	Natural spawning escapement in the Puyallup River (NMFS ESA consultation standard).
Nisqually River Summer/Fall	<b>48.7%</b>	≤ 47.0%	Total exploitation rate (NMFS ESA consultation standard).
Puget Sound Spring	2.2%	≤ 3.0%	Exploitation rate in PFMC fisheries (NMFS ESA consultation standard).
Puget Sound Summer/Fall	5.9%	≤ 6.0%	Exploitation rate in PFMC fisheries (NMFS ESA consultation standard).



TABLE 5. Projected key stock escapements (thousands of fish) or management criteria for 2023 ocean fishery Alternatives - STT analyzed<sup>af</sup> (Page 2 of 5).

Key Stock/Criteria	PROJECTED	2023 Criteria	Spawner Objective or Other Comparative Standard as Noted <sup>b/</sup>
<b>CHINOOK</b>		<b>CHINOOK</b>	
<u>WASHINGTON COAST:</u>			
Hoko Fall	2.362	0.85 FMP MSY spawning escapement objective.	
	2.9%	≤ 10.0% Calendar year exploitation rate ISBM obligation. Compliance assessed postseason by the PSC.	
Quillayute Fall	>3.0	3.0 FMP MSY spawning escapement objective.	
	--	≤ 0.85 ISBM obligation not applicable, escapement goal expected to be met. Compliance assessed postseason by the PSC.	
Hoh Fall	>1.2	1.2 FMP MSY spawning escapement objective.	
	--	≤ 0.85 ISBM obligation not applicable, escapement goal expected to be met. Compliance assessed postseason by the PSC.	
Queets Fall	>2.5	2.5 FMP MSY spawning escapement objective.	
	--	≤ 0.85 ISBM obligation not applicable, escapement goal expected to be met. Compliance assessed postseason by the PSC.	
Grays Harbor Fall	>13.3	13.3 FMP MSY spawning escapement objective.	
	--	≤ 0.85 ISBM obligation not applicable, escapement goal expected to be met. Compliance assessed postseason by the PSC.	
<u>COLUMBIA RIVER:</u>			
Columbia Upriver Brights	277.8	74.0 Minimum ocean escapement to attain 40.0 adults over McNary Dam, with normal distribution and no mainstem harvest. The management goal has been increased to 60.0 by Columbia River managers.	
Mid-Columbia Brights	53.6	14.9 Minimum ocean escapement to attain 7.9 for Little White Salmon egg-take, assuming average conversion and no mainstem harvest.	
Columbia Lower River Hatchery Tules	76.7	25.0 Minimum ocean escapement to attain 14.8 adults for hatchery egg-take, with average conversion and no lower river mainstem or tributary harvest.	
Columbia Lower River Natural Tules <sup>df</sup> (threatened)	<b>38.7%</b>	≤ 38.0% Total adult equivalent fishery exploitation rate (2023 NMFS ESA guidance).	
Columbia Lower River Wild <sup>ef</sup> (threatened)	8.7	6.9 Minimum ocean escapement to attain MSY spawner goal of 5.7 for N. Lewis River fall Chinook (NMFS ESA consultation standard).	
Spring Creek Hatchery Tules	134.6	8.2 Minimum ocean escapement to attain 6.0 adults for Spring Creek Hatchery egg-take, assuming average conversion and no mainstem harvest.	
Upper Columbia River Summer	85.2	29.0 Aggregate escapement to mouth of Columbia River.	
Snake River Fall (threatened) SRFI	50.5%	≤ 70.0% Of 1988-1993 base period exploitation rate for all ocean fisheries (NMFS ESA consultation standard).	

TABLE 5. Projected key stock escapements (thousands of fish) or management criteria for 2023 ocean fishery Alternatives - STT analyzed<sup>a/</sup> (Page 3 of 5).

Key Stock/Criteria	PROJECTED	2023 Criteria	Spawner Objective or Other Comparative Standard as Noted <sup>b/</sup>
<b>CHINOOK</b>		<b>CHINOOK</b>	
<u>OREGON COAST:</u>			
Nehalem Fall	--	≤ 0.85 ISBM obligation applicable when escapement goal is not met. Compliance assessed postseason by the PSC.	
Siletz Fall	--	≤ 0.85 ISBM obligation applicable when escapement goal is not met. Compliance assessed postseason by the PSC.	
Siuslaw Fall	--	≤ 0.85 ISBM obligation applicable when escapement goal is not met. Compliance assessed postseason by the PSC.	
South Umpqua	--	≤ 0.85 ISBM obligation applicable, as this stock lacks a CTC agreed escapement goal. Compliance assessed postseason by the PSC.	
Coquille	--	≤ 0.85 ISBM obligation applicable, as this stock lacks a CTC agreed escapement goal. Compliance assessed postseason by the PSC.	
<u>CALIFORNIA:</u>			
Klamath River Fall	23.614	≥ 23.614 2023 minimum natural area adult escapement (FMP control rule).	
Federally recognized tribal harvest	50.0%	50.0% Equals 1,872 adult Chinook for Yurok and Hoopa Valley tribal fisheries.	
Exploitation (spawner reduction) rate	10.0%	≤ 10.0% FMP control rule.	
Adult river mouth return	39.9	NA Total adults in thousands.	
Age-4 ocean harvest rate	0.3%	≤ 10.0% NMFS guidance.	
KMZ sport fishery share	37.7%		
River recreational fishery share	96.3%	NA Equals 1,804 adult Chinook for recreational inriver fisheries.	
Sacramento River Winter (endangered)	0.0%	≤ 20.0% Age-3 ocean impact rate in fisheries south of Pt. Arena. In addition, the following season restrictions apply: <u>Recreational-</u> Pt. Arena to Pigeon Pt. between the first Saturday in April and the second Sunday in November; Pigeon Pt. to the U.S./Mexico border between the first Saturday in April and the first Sunday in October. Minimum size limit ≥ 20 inches total length. <u>Commercial-</u> Pt. Arena to the U.S./Mexico border between May 1 and September 30, except Pt. Reyes to Pt. San Pedro between October 1 and 15 (Monday-Friday). Minimum size limit ≥ 26 inches total length (NMFS 2023 ESA Guidance).	
Sacramento River Fall	165.0	≥ 122.000 2023 minimum hatchery and natural area adult escapement (FMP).	
Sacramento Index Exploitation Rate	2.8%	≤ 28.1% FMP control rule.	
Ocean commercial impacts	3.0	Includes fall (Sept-Dec) 2022 impacts (3.0 thousand SRFC).	
Ocean recreational impacts	1.8	Includes fall (Sept-Dec) 2022 impacts (1.7 thousand SRFC).	
River recreational impacts	0.0		

TABLE 5. Projected key stock escapements (thousands of fish) or management criteria for 2023 ocean fishery Alternatives - STT analyzed<sup>af</sup> (Page 4 of 5).

Key Stock/Criteria	PROJECTED	2023 Criteria	Spawner Objective or Other Comparative Standard as Noted <sup>b/</sup>
<b>COHO</b>			<b>COHO</b>
Interior Fraser (Thompson River)	9.6%(5.2%)	≤ 10.0%	2023 Southern U.S. exploitation rate ceiling; PSC coho agreement.
Skagit	<b>37.5%(4.7%)</b>	≤ 35.0%	2023 total exploitation rate ceiling; FMP matrix <sup>ef</sup>
Stillaguamish	31.4%(3.3%)	≤ 50.0%	2023 total exploitation rate ceiling; FMP matrix <sup>ef</sup>
Snohomish	34.8%(3.3%)	≤ 40.0%	2023 total exploitation rate ceiling; FMP matrix <sup>ef</sup>
Hood Canal	44.1%(5.2%)	≤ 45.0%	2023 total exploitation rate ceiling; FMP matrix <sup>ef</sup>
Strait of Juan de Fuca	12.3%(4.4%)	≤ 40.0%	2023 total exploitation rate ceiling; FMP matrix <sup>ef</sup>
Quillayute Fall	12.5	6.3	FMP MSY adult spawner estimate. Value depicted is ocean escapement.
	37.8%	≤ 53%	PST total exploitation rate constraint for 2023. <sup>ef/</sup>
Hoh	5.4	2.0	FMP MSY adult spawner estimate. Value depicted is ocean escapement.
	54.0%	≤ 65%	FMP total exploitation rate constraint (MFMT). <sup>ef/</sup>
Queets Wild	10.2	5.8	FMP MSY natural area adult spawner estimate. Value depicted is ocean escapement.
	37.7%	≤ 53%	PST total exploitation rate constraint for 2023. <sup>ef/</sup>
Grays Harbor	102.1	35.4	FMP MSP natural area adult spawner estimate. Value depicted is ocean escapement.
	50.3%	≤ 65%	FMP total exploitation rate constraint (MFMT). <sup>ef/</sup>
Willapa Bay	49.1	17.2	FMP MSY natural area adult spawner estimate. Value depicted is ocean escapement.
Lower Columbia River Natural (threatened)	19.5%	≤23.0%	Total marine and mainstem Columbia R. fishery exploitation rate (2023 NMFS ESA guidance).
Upper Columbia <sup>gf</sup>	59%	≥ 50%	Minimum percentage of the run to Bonneville Dam.
Columbia River Hatchery Early	315.4	77.2	Minimum ocean escapement to attain hatchery egg-take goal of 21.7 early adult coho, with average conversion and no mainstem or tributary fisheries.
Columbia River Hatchery Late	225.4	9.7	Minimum ocean escapement to attain hatchery egg-take goal of 6.4 late adult coho, with average conversion and no mainstem or tributary fisheries.
Oregon Coastal Natural Southern Oregon/Northern California Coast (threatened)	20.0%	≤ 20.0%	Marine and freshwater fishery exploitation rate (NMFS ESA consultation standard).
Trinity Natural	15.0%	≤ 16.0%	Total exploitation rate ceiling.
Klamath Natural	7.7%	≤ 15.0%	Total exploitation rate ceiling.
Rogue Natural	6.7%	≤ 15.0%	Total exploitation rate ceiling.
Other Natural	1.8%	≤ 15.0%	Total exploitation rate ceiling.

TABLE 5. Projected key stock escapements (thousands of fish) or management criteria for 2023 ocean fishery Alternatives - STT analyzed<sup>a/</sup> (Page 5 of 5).

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a/ Reflects 2023 fisheries and abundance estimates.

b/ Ocean escapement is the number of salmon escaping ocean fisheries and entering freshwater with the following clarifications. Ocean escapement for Puget Sound stocks is the estimated number of salmon entering Area 4B that are available to U.S. net fisheries in Puget Sound and spawner escapement after impacts from the Canadian, U.S. ocean, and Puget Sound troll and recreational fisheries have been deducted. Numbers in parentheses represent Council area ERs for Puget Sound coho stocks. For Columbia River early and late coho stocks, ocean escapement represents the number of coho after the Buoy 10 fishery. Values reported for Klamath River fall Chinook are natural area adult spawners. Values reported for Sacramento River fall Chinook are hatchery and natural area adult spawners.

c/ The modeled preseason, pre-fishing estimates of abundance for areas other than North of Falcon (NOF) are derived using the Council adopted methodology from the Ad Hoc SRKW Workgroup and are provided for information purposes only. These non-NOF area abundances are not considered in the development of annual Council fishery management measures. Therefore, the "criteria" for these areas are designated as "N/A". The Southwest WCVI and Salish Sea areas are outside Council managed waters although impacts to FMP salmon stocks are taken into account when assessing fishing-related mortality.

d/ Includes projected impacts of inriver fisheries that have not yet been shaped.

e/ Annual management objectives may be different than FMP goals, and are subject to agreement between WDFW and the treaty tribes under U.S. District Court orders. It is anticipated that fishery management will be adjusted by state and tribal comanagers during the preseason planning process to comply with stock management objectives.

f/ Management criteria depicted represent the lower of the FMP and PST Southern Coho Management Plan ER constraints in a given year (see Table III-5 in most recent Preseason Report I). PST ER constraints represent an approximation of the maximum ER associated with achieving the escapement goal. Per the provisions of the PST Southern Coho Management Plan, Parties may request increases to management unit specific ER caps, so long as it occurs prior to March 31 in a given year.

g/ Includes minor contributions from East Fork Lewis River and Sandy River.

TABLE 7. Expected coastwide exploitation rates by fishery for 2023 ocean fisheries management Alternatives for lower Columbia Natural (LCN) coho, Oregon coastal natural (OCN) coho, Lower Columbia River (LCR) tule Chinook, and Southern Oregon Northern California Coastal (SONCC) coho salmon by natural-origin subcomponent - STT Analyzed (Page 1 of 2).

Fishery	Exploitation Rate (Percent)		
	LCN Coho	OCN Coho	LCR Tule Chinook
SOUTHEAST ALASKA	0.0%	0.0%	2.2%
BRITISH COLUMBIA	0.3%	0.4%	14.0%
PUGET SOUND/STRAIT	0.2%	0.0%	0.4%
NORTH OF CAPE FALCON			
Treaty Indian Ocean Troll	2.1%	0.5%	2.4%
Recreational	4.9%	0.9%	4.1%
Non-Indian Troll	1.6%	0.3%	5.5%
SOUTH OF CAPE FALCON			
Recreational:			0.2%
Cape Falcon to Humbug Mt.	4.9%	10.4%	-
Humbug Mt. to OR/CA border (KMZ)	0.1%	0.4%	-
OR/CA border to Latitude 40°10' N. (KMZ)	0.0%	0.0%	-
Fort Bragg	0.0%	0.0%	-
South of Pt. Arena	0.0%	0.0%	-
Troll:			0.2%
Cape Falcon to Humbug Mt.	0.8%	1.4%	-
Humbug Mt. to OR/CA border (KMZ)	0.0%	0.0%	-
OR/CA border to Horse Mt. (KMZ)	0.0%	0.0%	-
Fort Bragg	0.0%	0.0%	-
South of Pt. Arena	0.0%	0.0%	-
BUOY 10	2.0%	0.1%	9.7%
ESTUARY/FRESHWATER	2.6%	5.6%	
<b>TOTAL<sup>al</sup></b>	<b>19.5%</b>	<b>20.0%</b>	<b>38.7%</b>

TABLE 7. Expected coastwide exploitation rates by fishery for 2023 ocean fisheries management Alternatives for lower Columbia Natural (LCN), Oregon coastal natural (OCN), Lower Columbia River (LCR) tule Chinook, and Southern Oregon Northern California Coastal (SONCC) coho salmon by natural-origin subcomponent - STT analyzed (Page 2 of 2).

Fishery	Exploitation Rate (Percent)			
	Trinity Natural	Klamath Natural	Rogue Natural	Other SONCC
SOUTHEAST ALASKA	0.0%	0.0%	0.0%	0.0%
BRITISH COLUMBIA	0.2%	0.2%	0.2%	0.2%
PUGET SOUND/STRAIT	0.0%	0.0%	0.0%	0.0%
NORTH OF CAPE FALCON				
Treaty Indian Ocean Troll	0.0%	0.0%	0.0%	0.0%
Recreational	0.0%	0.0%	0.0%	0.0%
Non-Indian Troll	0.0%	0.0%	0.0%	0.0%
SOUTH OF CAPE FALCON				
Recreational:				
Cape Falcon to Humbug Mt.	0.7%	0.7%	0.7%	0.7%
Humbug Mt. to OR/CA border (KMZ)	0.7%	0.7%	0.7%	0.7%
OR/CA border to Latitude 40°10' N. (KMZ)	0.0%	0.0%	0.0%	0.0%
Fort Bragg	0.0%	0.0%	0.0%	0.0%
South of Pt. Arena	0.0%	0.0%	0.0%	0.0%
Troll:				
Cape Falcon to Humbug Mt.	0.2%	0.2%	0.2%	0.2%
Humbug Mt. to OR/CA border (KMZ)	0.0%	0.0%	0.0%	0.0%
OR/CA border to Horse Mt. (KMZ)	0.0%	0.0%	0.0%	0.0%
Fort Bragg	0.0%	0.0%	0.0%	0.0%
South of Pt. Arena	0.0%	0.0%	0.0%	0.0%
BUOY 10	0.0%	0.0%	0.0%	0.0%
ESTUARY/FRESHWATER	13.2%	5.9%	4.9%	0.0%
<b>TOTAL</b>	<b>15.0%</b>	<b>7.7%</b>	<b>6.7%</b>	<b>1.8%</b>

a/ Totals include estuary/freshwater for SONCC. For LCN, OCN, and LCR Tule Chinook, includes projected impacts of inriver fisheries that have not yet been shaped. Bolded values identify ocean exploitation rates that, when combined with freshwater harvest rates, would exceed the total allowable exploitation rate.

Table A-1. Sacramento River winter Chinook age-3 ocean impact rate south of Pt. Arena by month, area, and fishery. Max rate: 20%.

Commercial										Recreational										
Total																				
Port Area	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year Total	Port Area	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year Total
SF									0.00	SF										0.00
MO									0.00	MO										0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0% total impact rate

SF Pt. Arena to Pigeon Pt. (San Francisco)  
 MO Pigeon Pt. to the U.S./Mexico Border (Monterey)

Table A-2. Klamath River fall Chinook ocean impacts in numbers of fish by month, area, and fishery.

Commercial										Recreational												
Port Area	Fall 2022		Summer 2023						Summer Total	Year Total	Port Area	Fall 2022			Summer 2023						Summer Total	Year Total
	Sep	Oct-Dec	Mar	Apr	May	Jun	Jul	Aug				Sep	Oct	Nov-Dec	Mar	Apr	May	Jun	Jul	Aug		
NO										NO	0	0				0	3	17	20	20		
CO										CO	0	0				0	1	28	29	29		
KO										KO						6	1	9	16	16		
KC										KC	27									27		
FB										FB	20									20		
SF										SF	25	0								25		
MO										MO	0	0								0		
Total										Total	72	0			0	6	5	54	65	137		

26,238 natural area spawners, 10.0% spawner reduction rate, 0.3% age-4 ocean harvest rate



Table A-3. Klamath River fall Chinook age-4 ocean harvest by month, area, and fishery.

Commercial											Recreational												
Port Area	Fall 2022		Summer 2023						Summer Total	Year Total	Port Area	Fall 2022			Summer 2023					Summer Total	Year Total		
	Sep	Oct-Dec	Mar	Apr	May	Jun	Jul	Aug				Sep	Oct	Nov-Dec	Mar	Apr	May	Jun	Jul			Aug	
NO	0	0									NO	0	0								0		
CO	0	0									CO	0	0									0	
KO											KO												
KC											KC	26											26
FB											FB	19											19
SF	0	0									SF	24	0										24
MO											MO	0	0										0
Total	0	0									Total	68											68

Table A-4. Sacramento River fall Chinook ocean impacts in numbers of fish by fishery and Alternative.

Commercial											Recreational											
Alternative I											Alternative I											
Port Area	Fall 2022		Summer 2023						Summer Total	Year Total	Port Area	Fall 2022			Summer 2023						Summer Total	Year Total
	Sep	Oct-Dec	Mar	Apr	May	Jun	Jul	Aug				Sep	Oct	Nov-Dec	Mar	Apr	May	Jun	Jul	Aug		
NO	0	5							5	NO	0	0						7	25	13	45	45
CO	9	0							9	CO	22	0						3	14	5	22	44
KO										KO								5	15	7	27	27
KC										KC	123											123
FB										FB	48											48
SF	2,904	76							2,980	SF	1,228	275										1,503
MO										MO	10	10										20
<b>Total</b>	<b>2,913</b>	<b>81</b>							<b>2,994</b>	<b>Total</b>	<b>1,431</b>	<b>285</b>						<b>14</b>	<b>54</b>	<b>25</b>	<b>93</b>	<b>1,809</b>