

2019 Adult Returns and 2020 Expectations Columbia River Updated Draft – January 13, 2020

	2019 Results	2020 Expectations
Willamette Spring Chinook	40,200 predicted adult return to CR (20% wild) 27,292 actual adult return (68% of forecast; 34% wild) 2,022 jack return (recent 5-year average 2,048) 28,772 return to Willamette R (26,759 adult) 18,883 adult/1,734 jack count at falls 2,489 adult return to Clackamas	40,750 CR adult return 2,680 jacks 33,000 hatchery adults 10,000 harvestable 24% wild adults 2,980 to Clackamas
Sandy River	5,500 predicted adult CR return vs. 3,260 actual to CR	5,200 CR return
Cowlitz River	1,340 predicted adult CR return vs. 1,563 actual to CR	1,440 CR return
Kalama River	1,440 predicted adult CR return vs. 997 actual to CR	1,030 CR return
Lewis River	1,550 predicted adult CR return vs. 1,047 actual to CR	1,370 CR return
Wind River	2,800 predicted adult trib return vs. 1,598 actual to trib	2,000 to trib.
Drano (LWS)	5,600 predicted adult trib return vs. 3,571 actual to trib	4,600 to trib.
Klickitat	1,100 predicted adult trib return vs. 404 actual to trib	1,800 to trib.
Upriver Spring Chinook	99,300 predicted adult return 73,101 actual return (74% of forecast; lowest since 1999) 9,092 BON jacks (improved from 2018; 29% of recent 10-yr ave)	81,700 predicted 43% of recent 10-year ave return
Upper Columbia Summer Chinook	36,345 predicted adult return 34,619 actual return (95% of forecast; lowest since 2000) 6,521 BON jacks (44% of recent 10-yr ave) Adult mark rate ~76% @ BON	38,300 predicted 29,000 escapement goal (at CR mouth)
Sockeye	94,400 predicted return 63,223 actual return (67% of forecast)	246,300 CR return 2,300 SR stock
Upriver Summer Steelhead	126,950 predicted return at BON 75,600 at BON (60% of forecast; 27% of 10-yr (282K))	TBD
Bright Fall Chinook	246,180 predicted adult return Prelim. return ~113% of forecast 2019 jack count at BON (44.4K) highest since 2016	Return may be improved from 2019 actual
Tule Fall Chinook	103,510 predicted adult return Prelim. return ~76% of forecast; jacks higher than 2019	Less than recent 10-year average
Coho	611,300 predicted adult return Prelim. return well below forecast ($\leq 1/3^{\text{rd}}$)	Jack return <50% of 3-yr ave
Shad	7.7 million run (record) vs. 10-yr ave of 2.5 million	Strong run expected
Smelt	Estimated return (4.2 M lbs based on spawning stock biomass) exceeded expectations; 66% of 2011-18 ave	Similar to 2019 return
White Sturgeon	Abundance down 30% for juveniles (54-95 cm FL), up 11% for sub-adults, and up 95% for adults vs. 2018; YOY recruitment mixed (LCR fifth lowest; LWR above average)	38-54 inch fish projected to decrease; adults projected to increase

Recreational Fisheries

	2019 Results	2020 Expectations
Oregon Tributary Spring Chinook		
Lower Willamette River	Open 7 d/week under permanent regs 62,525 trips (3/4-6/16) 4,459 adults kept (1,743 rel; 72% mark rate)	Permanent regulations likely
Clackamas River	1,956 trips <River Mill Dam (4/29-6/30) 0 adults kept (6 rel)	Permanent regulations likely
Sandy River	~200 adults kept	Permanent regulations likely
Washington Tributary Spring Chinook		
Cowlitz River	7 d/wk 1/1-2/28; closed 3/1-7/31	Closure likely. Forecast ~ = broodstock need
Kalama River	7 d/wk 1/1-7/31; 2 fish bag 1/1-2/28; 1 fish 3/1-7/31 1,000 adults kept	Modified fisheries likely. Potential harvestable fish
Lewis River	7 d/wk 1/1-2/28; closed 3/1-7/31	Closure likely. Forecast < broodstock need
Columbia River Fisheries		
Spring Season LCR	Spring Chinook open: B10-I-5 Bridge; Jan-Feb; 7 d/wk; 2 Chinook bag Closed 3/1 due to low Cowlitz/Lewis forecasts Warrior Rock-BON: 3/1-4/10, 4/13-14, 4/20-21, 4/27-28 Bank only Beacon R to BON 2 fish/1 hatchery Chinook bag 39,409 trips (lowest since 2000) 1,677 adult Chinook kept (480 rel) 594 STH kept (172 rel); 91 SOK rel	Season TBD LCR escapement concerns
Spring Season BON to McN	Spring Chinook open: 4/1-5/5 and 5/11-12 2 fish/1 hatchery Chinook bag 2,458 trips; 274 adult Chinook kept (81 rel)	Season TBD
Spring Season McN-OR/WA	Spring Chinook open: 4/1-5/5 and 5/11-12 2 fish/1 hatchery Chinook bag 5 adult Chinook kept (2 rel)	Season TBD
Spring Season Snake River	Spring Chinook open: Two sections; 1-2d/wk; 5/11-5/27 6,050 angler hours; 326 adult Chinook kept (49 rel)	Season TBD
Summer Season LCR	Astoria Bridge to BON (6/15-7/31) Chinook/SOK closed all season (no harvestable surplus) STH open; 2 fish bag thru 6/30; 1 thereafter 19,756 trips (lowest since 1998) 492 adult Chinook/159 SOK rel 2,228 STH kept (2,101 rel)	Season TBD at NOF

Summer Season	BON to McN (6/15-7/31) Chinook/SOK closed all season (no harvestable surplus) STH open; 2 fish bag thru 6/30; 1 thereafter 837 trips; 38 adult Chinook/3 SOK rel 40 STH kept (0 rel) Hwy 395 to PRD: No Fishery Upstream of PRD (7/16-10/15; includes tribs): 13,353 trips; 5,791 adults kept; 1,563 rel	Season TBD at NOF
Fall Season Buoy 10	Open 8/1-12/31 Chinook open 8/1-20 (2 fish/1 Chinook bag) Coho open 8/1-12/31 (2 fish bag) STH retention closed Aug-Sep, 1 STH bag when open 76,977 trips; 11,274 Chinook kept (15,276 rel) 22,775 Coho kept (24,353 rel) SRW HR w/in preseason expectations; LRH exceeded	Season TBD at NOF
Fall Season LCR Sport TP/RP - BON	Tongue/Rocky Pnt.-BON: Open to hatchery Coho 8/1-9/25 and 10/18-12/31 One salmonid bag when Chinook open; 2 fish thereafter STH retention closed Aug-Oct, 1 STH bag when open West Puget Isl.- Warrior R: Chinook open 8/1-27 Warrior R. to BON: Chinook open 8/1-9/5 58,675 trips (lowest since 1996) 7,165 adult Chinook kept (lowest since 1998; 6,737 rel) 1,046 Coho kept (1,075 rel); 0 STH kept (366 rel) SRW HR w/in preseason expectations; LRH exceeded	Season TBD at NOF
Fall Season BON - McNary	Chinook and Coho open 8/1 – 9/25; one salmonid bag BON Pool open for hatchery Coho 10/18-31; 2 fish bag STH retention closed Aug-Dec BON-TD; Sep-Dec in JD 11,621 trips; 3,351 Chinook kept (390 rel) 729 Coho kept (182 rel) SRW HR exceeded preseason expectations	Season TBD at NOF
Fall Season McNary-Hwy 395	Chinook, Coho, and STH open 8/1 – 9/25; one salmonid bag 300 trips; 12 Chinook kept	Season TBD at NOF
Fall Season Hanford Reach	Fall Chinook open 8/16-10/15; 6 fish/2 adult Chinook thru 9/19; 6 fish/1 adult thereafter 30,700 trips; 11,822 adults and 1,327 jack Chinook kept; 313 adult Chinook rel; 56 Coho kept; STH closed	TBD
Sturgeon LCR B10-BON	Below Wauna: 2,960 fish guideline; 44-50" FL; 2 PM closure 11 retention days (5/13-6/5) 22,000 trips; 2,838 kept (96% of guideline) Above Wauna: 1,230 fish guideline; 44-50" FL 5 retention days (9/21, 9/28, 10/12, 10/19, and 10/24) 12,100 trips; 685 kept (56% of guideline)	2020 season and guidelines TBD
Sturgeon BON-McNary	BO Pool: 1/1-4/12; 448 kept (90% of guideline) TD Pool: 1/1-1/6; 79 kept (59% of guideline) JD Pool: 1/1-4/2; 129 kept (123% of guideline)	Reopen 1/1/2020 Guidelines TBD
Shad	LCR: 17,068 trips; 186,280 kept in LCR LWR: 8,302 trips (5/6-6/16); 41,900 kept	Large population No changes to fishery
Smelt	No retention seasons	TBD

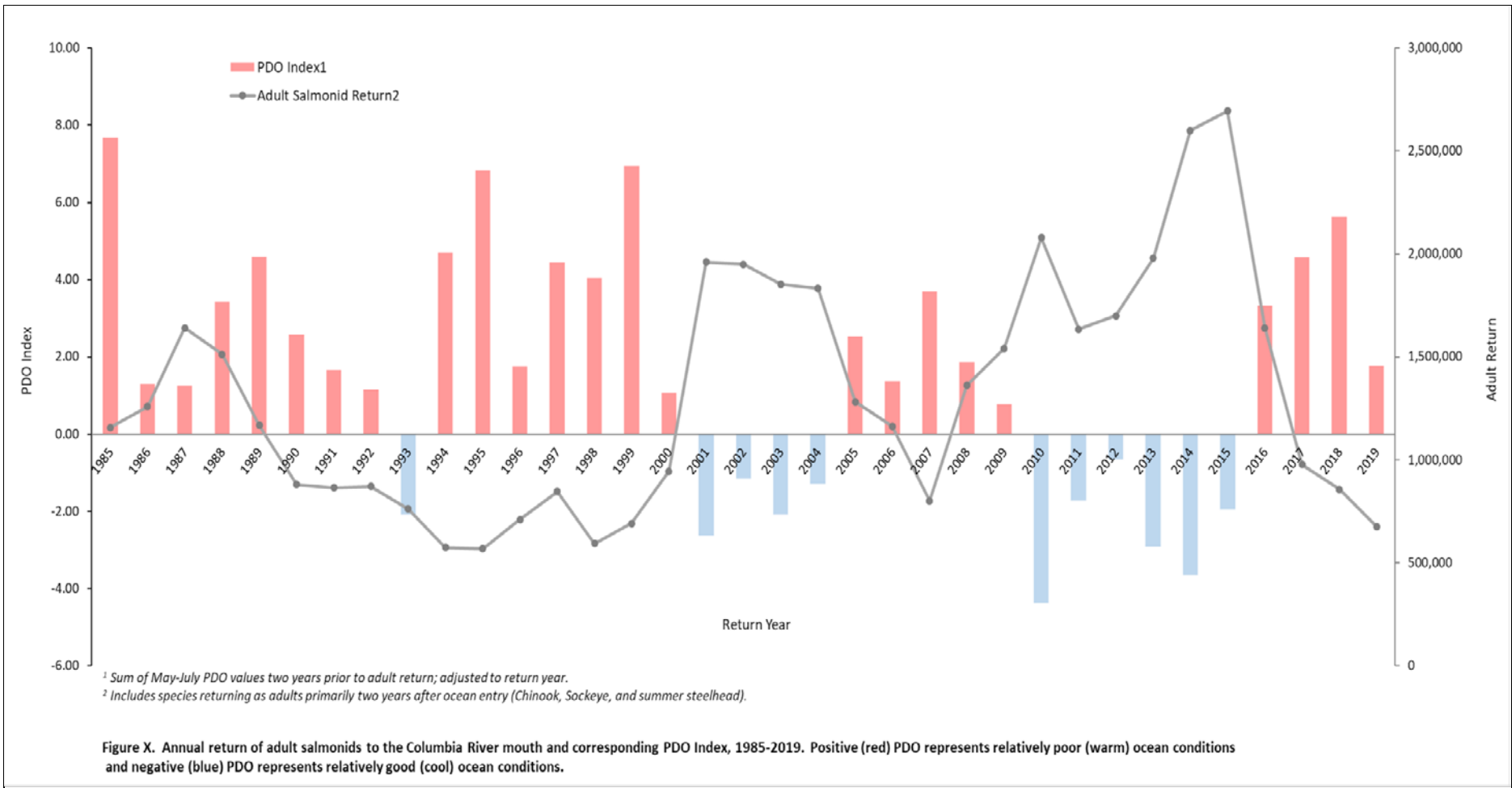
Commercial Fisheries

	2019 Results	2020 Expectations
Columbia River Fisheries		
Winter/Spring	No fishery	TBD
Summer	No fishery	TBD
August (Early Fall)	Aug 14 – 27, 4 periods; 9 hrs each Zones 4-5; 9" min mesh 37-63 deliveries per period 6,462 CHF; 206 Coho; 509 WSTG	TBD
Late Fall	Eleven tangle net periods (Sep 30-Oct 25) 6-37 del/period 2,495 hatchery Coho and 677 CHF One Z4-5 large mesh period (Oct 8-9; 12 del 1,686 CHF and 14 Coho landed	TBD
Seine	No fishery	TBD
Shad	2S fishery open 5/10-6/20 (perm regs) 2,315 shad landed	Area 2S fishery
Smelt	No fishery	TBD
Select Area Fisheries		
Winter/Spring	Below average season (33% of 5-year ave) Winter – 697 Chinook; 20 WSTG Spring – 2,159 Chinook; 381 WSTG	~4,300 Select Area-origin predicted vs 2,548 actual in 2019 Season TBD (likely similar to 2019)
Summer	Below average season (10% of 5-year ave) 4 th year for summer seasons in TP/SC/BS/KS 284 Chinook; 78 WSTG	Season TBD (structure expected to be similar to 2019)
Fall	Below average season 3,371 Chinook (23% of 5-year ave) 19,144 Coho (34% of 5-year ave) 212 WSTG	Season TBD (structure expected to be similar to 2019)

NOAA ocean condition scorecard for outmigrating salmon with ratings from 1 (best) to 22 (worst). The years shown correspond to the years the smolts entered the ocean.

Ecosystem Indicators	Year																					
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
PDO (Sum Dec-March)	19	6	3	13	7	21	12	17	14	9	5	1	16	4	2	8	10	22	20	18	11	15
PDO (Sum May-Sept)	10	4	6	5	11	17	16	18	12	14	2	9	7	3	1	8	20	22	21	15	13	19
ONI (Average Jan-June)	21	1	1	7	14	16	15	17	9	12	3	11	18	4	6	8	10	19	22	13	5	20
SST NDBC buoys (°C; May-Sept)	17	6	8	4	5	11	22	12	2	14	1	10	3	7	9	16	20	19	18	13	15	21
Upper 20 m T (°C; Nov-Mar)	21	11	8	10	6	15	16	13	12	5	1	9	18	4	3	7	2	22	20	19	14	17
Upper 20 m T (°C; May-Sept)	16	11	13	4	1	3	22	19	8	10	2	5	17	7	6	18	20	9	14	12	15	21
Deep temperature (°C; May-Sept)	22	6	8	4	1	10	12	16	11	5	2	7	14	9	3	15	21	19	13	18	20	17
Deep salinity (May-Sept)	21	3	11	4	5	18	19	12	7	1	2	16	20	15	14	13	22	17	9	8	6	10
Copepod richness anom. (no. species; May-Sept)	20	2	1	7	6	15	14	19	16	10	8	9	18	4	5	3	11	21	22	17	13	12
N. copepod biomass anom. (mg C m ⁻³ ; May-Sept)	20	15	11	12	4	17	14	21	16	13	7	10	9	1	3	5	6	18	22	19	8	2
S. copepod biomass anom. (mg C m ⁻³ ; May-Sept)	22	2	5	4	3	15	16	21	14	10	1	7	17	9	8	6	11	19	20	18	13	12
Biological transition (day of year)	19	11	6	7	8	15	12	20	14	3	1	2	17	4	9	5	10	21	21	18	13	15
Nearshore Ichthyoplankton (mg C 1,000 m ⁻³ ; Jan-Mar)	17	3	11	6	1	21	22	15	8	17	3	13	2	7	5	10	19	14	15	12	9	20
Nearshore & offshore Ichthyoplankton community index (PCO axis 1 scores; Jan-Mar)	11	6	5	9	8	13	16	20	1	14	3	12	15	4	2	7	10	18	21	22	17	19
Chinook salmon juvenile catches (no. km ⁻¹ ; June)	20	4	5	17	8	12	18	21	13	11	1	6	7	16	2	3	10	14	19	22	15	9
Coho salmon juvenile catches (no. km ⁻¹ ; June)	20	8	14	6	7	3	17	21	18	4	5	10	11	16	19	1	13	9	15	22	2	12
Mean of ranks	18.5	6.2	7.3	7.4	5.9	13.9	16.4	17.6	10.9	9.5	2.9	8.6	13.1	7.1	6.1	8.3	13.4	17.7	18.3	16.6	11.8	15.1
Rank of the mean rank	22	4	6	7	2	15	17	19	11	10	1	9	13	5	3	8	14	20	21	18	12	16

*Note: this table is easier to interpret if printed in color. Green represents more favorable indicators. Yellow is intermediate and Red indicates unfavorable. If printed in black and white red will appear very dark.



2020 Columbia River Process Schedule (Preliminary Draft – Dates are Tentative)

Dec 6, 2019	Oregon Fish and Wildlife Commission • Harvest Reform update	ODFW HQ Salem, OR
Dec 13-14, 2019	Washington Fish and Wildlife Commission • CR Policy update C-3602	Holiday Inn & Suites Bellingham, WA
Dec 17, 2019 1-4p	NSIA Annual Meeting • 2019 results and 2020 expectations	ODFW Clackamas, OR
Jan 14, 2020 10a-2p	Columbia River Commercial Advisor Group Meeting • Sturgeon, smelt, 2020 forecasts, Harvest Reform, etc.	WDFW Ridgefield, WA
Jan 14, 2020 4p-6p	Columbia River Recreational Advisor Group Meeting • Sturgeon, smelt, 2020 forecasts	WDFW Ridgefield, WA
Jan 15, 2020	Policy Review Committee (potentially)	TBD
Jan 16, 2020 7-8:30p	Select Area Commercial Fisheries Meeting • 2019 results; 2020 season structure discussion	Best Western Astoria, OR
Jan 16-18, 2020	Washington Fish and Wildlife Commission • TBD	WDFW Olympia, WA
Jan 17, 2020	Oregon Fish and Wildlife Commission • TBD	ODFW HQ Salem, OR
Jan 28, 2020 10a	CR Compact/Joint State Hearing • Zone 6 sport stg, Treaty, smelt	Teleconference
Feb 5, 2020	Policy Review Committee (potentially)	TBD
Feb 7, 2020	Oregon Fish and Wildlife Commission • Lower Columbia River White Sturgeon - Briefing	TBD Tigard, OR
Feb 6-8	Washington Fish and Wildlife Commission • Sturgeon stock status update	WDFW Olympia, WA
Feb 11 10a	CR Compact • Select Area commercial, Treaty?	Teleconference
Feb 11 4-6:30 p	Columbia River Recreational Advisor Group Meeting • Spring/Summer Chinook	ODFW Clackamas, OR
Feb 12 10a-12p	Columbia River Commercial Advisor Group Meeting • Placeholder meeting	Rainier City Hall Rainier, OR
Feb 19 10a	CR Joint State Hearing • Recreational spring Chinook	Shilo Inn Portland Airport
See Ocean Calendar for NoF planning process		

2020 Ocean Fishery Process Schedule (Preliminary Draft – Dates are Tentative)

Feb 27	Ocean Salmon Industry Group <ul style="list-style-type: none"> • 2020 forecasts • Initial discussions of 2020 season options 	Hallmark Newport, OR
Feb 28	WDFW Public Meeting <ul style="list-style-type: none"> • 2020 forecasts and fishing opportunities 	Olympia, WA
Mar 3-9	Pacific Fishery Management Council (PFMC) <ul style="list-style-type: none"> • Adopt initial 2020 ocean salmon options for public review 	Double Tree One Doubletree Dr. Rohnert Park, CA
Mar 16	North of Falcon #1 (Public Meetings) <ul style="list-style-type: none"> • Puget Sound • Willapa Bay • Grays Harbor • Ocean areas north of Cape Falcon, OR 	Olympia, WA
Mar 17	2020 Columbia R North of Falcon #1	WDFW Ridgefield, WA
March 18-20 (TBD)	Northeast of McNary – North of Falcon	Tri-Cities, Wenatchee, Clarkston (TBD)
Mar 23	PFMC Public Options Hearings <ul style="list-style-type: none"> • Public input on 2020 season options 	Westport, WA Coos Bay, OR
Apr 1	2020 Columbia R North of Falcon #2	WDFW Ridgefield, WA
Apr 3-10	Pacific Fishery Management Council (PFMC) <ul style="list-style-type: none"> • Adopt 2020 ocean salmon fishery regulations 	Hilton 301 W. Sixth St. Vancouver, WA
Apr 17	Oregon Fish and Wildlife Commission <ul style="list-style-type: none"> • Adopt state water ocean salmon fishery regulations 	TBD