

Pre-update SAF Impact = 0%

Pre-update Above Bonneville Sport Fishery = 0%

OPTION 1b
A near-term management scenario for sport and commercial spring Chinook fisheries in the Columbia River
Assumes sport and commercial fisheries use all impacts available to them

Table 1. Allowable impacts assigned to and estimated numbers of upriver spring Chinook harvested by sport and commercial fisheries before the run-size forecast is updated (pre-update) for run sizes forecast in 1999-2008, and for a hypothetical run-size forecast with a low Willamette return. These impacts equal sixty percent of those allowed under the U.S. v Oregon harvest rate schedule and are shared 75% sport/25% commercial. Forty percent of the impacts allowed under U.S. v. Oregon are held in reserve as a “buffer” until the run-size forecast is updated to account for uncertainty. No pre-update impacts are assigned to select area and winter sturgeon fisheries. Sport fisheries open during this period only include areas downstream of Bonneville Dam. Harvest estimates assume the mainstem commercial fishery uses tangle-net gear.

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Average (1999-2008)	Hypothetical w/ low Willamette run size
Forecasted run size	24,600	134,000	364,600	333,700	145,400	360,700	254,100	88,400	78,500	269,300	225,411	300,000
Total allowable impact	0.000%	1.700%	2.300%	2.300%	1.900%	2.300%	2.000%	1.600%	1.500%	2.000%	2.000%	2.200%
Pre-update allowable impact (total impact minus 40% buffer)	0.000%	1.020%	1.380%	1.380%	1.140%	1.380%	1.200%	0.960%	0.900%	1.200%	1.200%	1.320%
Pre-update sport fishery impact (75% of pre-update allowable)	0.000%	0.765%	1.035%	1.035%	0.855%	1.035%	0.900%	0.720%	0.675%	0.900%	0.900%	0.990%
Pre-update commercial fisheries impact (25% of pre-update allowable)	0.000%	0.255%	0.345%	0.345%	0.285%	0.345%	0.300%	0.240%	0.225%	0.300%	0.300%	0.330%
Pre-update commercial fisheries impact assigned to Select Area and winter sturgeon fisheries	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
Pre-update commercial fisheries impact assigned to mainstem salmon fisheries	0.000%	0.255%	0.345%	0.345%	0.285%	0.345%	0.300%	0.240%	0.225%	0.300%	0.300%	0.330%
Pre-update sport fishery harvest of upriver fish (assuming 75% mark rate)	0	7,688	28,302	25,903	9,324	27,999	17,152	4,774	3,974	18,178	15,215	22,275
Pre-update select area fishery harvest of upriver fish	0	0	0	0	0	0	0	0	0	0	0	0
Pre-update mainstem commercial fishery harvest of upriver fish (assuming 75% mark rate)	0	1,743	6,418	5,874	2,114	6,349	3,889	1,082	901	4,122	3,450	5,051

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Table 2. Allowable impacts assigned to and estimated numbers of upriver spring Chinook harvested by sport and commercial fisheries after the run-size forecast is updated (post-update) for run sizes occurring in 1999-2008, and for a hypothetical run-size forecast with a low Willamette return. These impacts equal those allowed under the U.S. v Oregon harvest rate schedule for the final run size minus the impact used before the run size update adjusted for the difference between pre- and post-update run size. Available impacts are shared 50% sport/50% commercial. None of the commercial share of the post-update impacts needs to be assigned to select area fisheries because their season is over. Sport fisheries include areas downstream and upstream of Bonneville Dam. Harvest estimates assume the mainstem commercial fishery uses large-mesh gear.

Year	1999	2000	2001	2002	2003	2004 ^a	2005 ^a	2006	2007	2008	Average (1999-2008)	Hypothetical w/ low Willamette run size
Final run size	38,700	178,600	416,500	295,100	208,900	193,400	106,900	132,100	86,200	178,700	199,600	300,000
Total allowable impact	1.000%	1.900%	2.500%	2.200%	1.900%	1.900%	1.600%	1.700%	1.600%	1.900%	1.900%	2.200%
Post-update allowable impact (total minus impact used before the run-size update, adjusted for difference in pre- and post-update run size)	1.000%	1.135%	1.292%	0.639%	1.107%	0%	0%	1.058%	0.780%	0.092%	0.545%	0.880%
Post-update sport fishery impact (50% of post-update allowable)	0.500%	0.567%	0.646%	0.320%	0.553%	0%	0%	0.529%	0.390%	0.046%	0.272%	0.440%
Post-update commercial fisheries impact (50% of post-update allowable)	0.500%	0.567%	0.646%	0.320%	0.553%	0%	0%	0.529%	0.390%	0.046%	0.272%	0.440%
Post-update sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery uses all its impacts)	1,451	7,600	20,179	7,077	8,668	0	0	5,239	2,523	614	4,078	9,900
Post-update mainstem commercial fishery harvest of upriver fish (assuming 75% mark rate and commercial fishery uses all its impacts)	363	1,900	5,045	1,769	2,167	0	0	1,310	631	153	1,020	2,475

a: final run size and total allowable impact were less than forecasted and impacts used by the fisheries pre-update would have exceeded those allowed under the final run size. As a result, no impacts would be available for fisheries post-update.

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Table 3. Summary of allowable impacts assigned to and estimated numbers of upriver spring Chinook harvested by sport and commercial fisheries for run sizes occurring in 1999-2008, and for a hypothetical run-size forecast with a low Willamette return. Assumes fisheries are able to use all the impacts assigned to them. Total allowable impacts equal those allowed under the U.S. v Oregon harvest rate schedule for the final run size. Sport fisheries include areas downstream and upstream of Bonneville Dam. Commercial fisheries include select areas and winter sturgeon.

Year	1999	2000	2001	2002	2003	2004 ^a	2005 ^a	2006	2007	2008	Average (1999-2008)	Hypothetical w/ low Willamette run size
Forecasted run size	24,600	134,000	364,600	333,700	145,400	360,700	254,100	88,400	78,500	269,300	225,411	300,000
Final run size	38,700	178,600	416,500	295,100	208,900	193,400	106,900	132,100	86,200	178,700	199,600	300,000
Total allowable impact	1.000%	1.900%	2.500%	2.200%	1.900%	1.900%	1.600%	1.700%	1.600%	1.900%	1.900%	2.200%
Total sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery uses all its impacts)	1,451	15,288	48,481	32,980	17,992	27,999	17,152	10,013	6,497	18,792	19,293	32,175
Projected closing date for sport fishery downstream from Bonneville Dam pre-update (assumes open 7 days/ week)	1-Jan	10-Apr	23-Apr	23-Apr	11-Apr	14-May	14-May	8-Apr	10-Apr	13-May	18-Apr	23-Apr
Projected closing date for sport fishery downstream from Bonneville Dam pre-update (assumes open 3 days/ week)	1-Jan	19-Apr	14-May	14-May	18-Apr	14-May	14-May	16-Apr	17-Apr	14-May	14-May	14-May
Total commercial fishery harvest of upriver fish (assuming 75% mark rate and commercial fishery uses all its impacts)	363	3,643	11,462	7,643	4,281	6,349	3,889	2,392	1,532	4,275	4,470	7,526
Total sport fisheries impact	0.500%	1.141%	1.552%	1.490%	1.148%	1.930%	2.139%	1.011%	1.005%	1.402%	1.289%	1.430%
Total commercial fisheries impact	0.500%	0.759%	0.948%	0.710%	0.752%	0.643%	0.713%	0.689%	0.595%	0.498%	0.611%	0.770%
Final sport fisheries share of impacts used	50%	60%	62%	68%	60%	75%	75%	59%	63%	74%	68%	65%
Final commercial fisheries share of impacts used	50%	40%	38%	32%	40%	25%	25%	41%	37%	26%	32%	35%

a: final run size and total allowable impact were less than forecasted. As a result, no fishing would have occurred post-update and total impacts used by sport and commercial fisheries would have exceeded those allowed. Sport/commercial shares of impacts used approximate that planned pre-update.

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Assumes lower Columbia River sport fisheries cannot use all the post-update impacts available to them and the balance is transferred to commercial fisheries

Table 4. Summary of allowable impacts assigned to and estimated numbers of upriver spring Chinook harvested by sport and commercial fisheries for run sizes occurring in 1999-2008, and for a hypothetical run-size forecast with a low Willamette return. Assumes lower Columbia River sport fisheries cannot use all the post-update impacts available to them and the balance is transferred to commercial fisheries. Balances were calculated using catch curves developed by the Washington Department of Fish and Wildlife. Total allowable impacts equal those allowed under the U.S. v Oregon harvest rate schedule for the final run size. Sport fisheries include areas downstream and upstream of Bonneville Dam. Sport fisheries post-update are assumed to be open seven days per week. Commercial fisheries include select areas and winter sturgeon.

Year	1999	2000	2001	2002	2003	2004 ^a	2005 ^a	2006	2007	2008	Average (1999-2008)	Hypothetical w/ low Willamette run size
Final run size	38,700	178,600	416,500	295,100	208,900	193,400	106,900	132,100	86,200	178,700	199,600	300,000
Total allowable impact	1.000%	1.900%	2.500%	2.200%	1.900%	1.900%	1.600%	1.700%	1.600%	1.900%	1.900%	2.200%
Post-update impacts unused by sport fisheries after run-size update	0.256%	0.335%	0.417%	0.127%	0.310%	0.000%	0.000%	0.305%	0.184%	0.009%	0.100%	0.256%
Additional number of upriver fish harvested in commercial fishery if unused sport fishery impacts are available	186	1,121	3,260	704	1,216	0	0	756	297	30	376	1,439
Total sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery cannot use all its impacts)	708	10,528	35,298	30,056	12,879	21,453	12,483	6,797	5,224	18,656	17,545	26,078
Total commercial fishery harvest of upriver fish (assuming 75% mark rate and commercial fishery uses its impacts and the balance unused by the sport fishery)	549	4,764	14,772	8,347	5,497	6,349	3,889	3,148	1,829	4,305	4,846	8,965
Total sport fisheries impact	0.244%	0.786%	1.130%	1.358%	0.822%	1.479%	1.557%	0.686%	0.808%	1.392%	1.172%	1.159%
Total commercial fisheries impact	0.756%	1.114%	1.370%	0.842 %	1.078%	0.643%	0.713%	1.014%	0.792%	0.508%	0.728%	1.041%
Final sport fisheries share of impacts used	24%	41%	45%	62%	43%	70%	69%	40%	51%	73%	62%	53%
Final commercial fisheries share of impacts used	76%	59%	55%	38%	57%	30%	31%	60%	49%	27%	38%	47%

a: final run size and total allowable impact were less than forecasted. As a result, no fishing would have occurred post-update and total impacts used by sport and commercial fisheries would have exceeded those allowed. Sport/commercial shares of impacts used approximate that planned pre-update.