

Pre-update SAF Impacts  $\geq 0.22\%$   
 Pre-update Above Bonneville Sport Fishery = 25%

**OPTION 1a**  
**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. Ten percent of the pre-update impacts, not to be less than 0.22%, are assigned to select area and winter sturgeon fisheries. Sport fisheries include areas downstream and upstream 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
<b>Forecasted run size</b>	24,600	134,000	364,600	333,700	145,400	360,700	254,100	88,400	78,500	269,300	225,411	300,000
<b>Total allowable impact</b>	0.000%	1.700%	2.300%	2.300%	1.900%	2.300%	2.000%	1.600%	1.500%	2.000%	2.000%	2.200%
<b>Pre-update allowable impact (total impact minus 40% buffer)</b>	0.000%	1.020%	1.380%	1.380%	1.140%	1.380%	1.200%	0.960%	0.900%	1.200%	1.200%	1.320%
<b>Pre-update sport fishery impact (75% of pre-update allowable)</b>	0.000%	0.765%	1.035%	1.035%	0.855%	1.035%	0.900%	0.720%	0.675%	0.900%	0.900%	0.990%
<b>Pre-update commercial fisheries impact (25% of pre-update allowable)</b>	0.000%	0.255%	0.345%	0.345%	0.285%	0.345%	0.300%	0.240%	0.225%	0.300%	0.300%	0.330%
<b>Pre-update commercial fisheries impact assigned to Select Area and winter sturgeon fisheries</b>	0.000%	0.220%	0.230%	0.230%	0.220%	0.230%	0.220%	0.220%	0.220%	0.220%	0.220%	0.220%
<b>Pre-update commercial fisheries impact assigned to mainstem salmon fisheries</b>	0.000%	0.035%	0.115%	0.115%	0.065%	0.115%	0.080%	0.020%	0.005%	0.080%	0.080%	0.110%
<b>Pre-update sport fishery harvest of upriver fish (assuming 75% mark rate)</b>	0	7,688	28,302	25,903	9,324	27,999	17,152	4,774	3,974	18,178	15,215	22,275
<b>Pre-update select area fishery harvest of upriver fish</b>	0	295	839	768	320	830	559	194	173	592	496	660
<b>Pre-update mainstem commercial fishery harvest of upriver fish (assuming 75% mark rate)</b>	0	239	2,139	1,958	482	2,116	1,037	90	20	1,099	920	1,684

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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 <sup>a</sup>	2005 <sup>a</sup>	2006	2007	2008	Average (1999-2008)	Hypothetical w/ low Willamette run size
<b>Final run size</b>	38,700	178,600	416,500	295,100	208,900	193,400	106,900	132,100	86,200	178,700	199,600	300,000
<b>Total allowable impact</b>	1.000%	1.900%	2.500%	2.200%	1.900%	1.900%	1.600%	1.700%	1.600%	1.900%	1.900%	2.200%
<b>Post-update allowable impact (total minus impact used before the run-size update, adjusted for difference in pre- and post-update run size)</b>	1.000%	1.135%	1.292%	0.639%	1.107%	0%	0%	1.058%	0.780%	0.092%	0.545%	0.880%
<b>Post-update sport fishery impact (50% of post-update allowable)</b>	0.500%	0.567%	0.646%	0.320%	0.553%	0%	0%	0.529%	0.390%	0.046%	0.272%	0.440%
<b>Post-update commercial fisheries impact (50% of post-update allowable)</b>	0.500%	0.567%	0.646%	0.320%	0.553%	0%	0%	0.529%	0.390%	0.046%	0.272%	0.440%
<b>Post-update sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery uses all its impacts)</b>	1,451	7,600	20,179	7,077	8,668	0	0	5,239	2,523	614	4,078	9,900
<b>Post-update mainstem commercial fishery harvest of upriver fish (assuming 75% mark rate and commercial fishery uses all its impacts)</b>	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 <sup>a</sup>	2005 <sup>a</sup>	2006	2007	2008	Average (1999-2008)	Hypothetical w/ low Willamette run size
<b>Forecasted run size</b>	24,600	134,000	364,600	333,700	145,400	360,700	254,100	88,400	78,500	269,300	225,411	300,000
<b>Final run size</b>	38,700	178,600	416,500	295,100	208,900	193,400	106,900	132,100	86,200	178,700	199,600	300,000
<b>Total allowable impact</b>	1.000%	1.900%	2.500%	2.200%	1.900%	1.900%	1.600%	1.700%	1.600%	1.900%	1.900%	2.200%
<b>Total sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery uses all its impacts)</b>	1,451	15,288	48,481	32,980	17,992	27,999	17,152	10,013	6,497	18,792	19,293	32,175
<b>Projected closing date for sport fishery downstream from Bonneville Dam pre-update (assumes open 7 days/ week)</b>	1-Jan	7-Apr	16-Apr	16-Apr	8-Apr	10-May	14-May	6-Apr	7-Apr	20-Apr	14-Apr	16-Apr
<b>Projected closing date for sport fishery downstream from Bonneville Dam pre-update (assumes open 3 days/ week)</b>	1-Jan	12-Apr	14-May	14-May	16-Apr	14-May	14-May	11-Apr	12-Apr	14-May	30-Apr	14-May
<b>Total commercial fishery harvest of upriver fish (assuming 75% mark rate and commercial fishery uses all its impacts)</b>	363	2,434	8,023	4,495	2,969	2,946	1,596	1,594	823	1,845	2,435	4,819
<b>Total sport fisheries impact</b>	0.500%	1.141%	1.552%	1.490%	1.148%	1.930%	2.139%	1.011%	1.005%	1.402%	1.289%	1.430%
<b>Total commercial fisheries impact</b>	0.500%	0.759%	0.948%	0.710%	0.752%	0.643%	0.713%	0.689%	0.595%	0.498%	0.611%	0.770%
<b>Final sport fisheries share of impacts used</b>	50%	60%	62%	68%	60%	75%	75%	59%	63%	74%	68%	65%
<b>Final commercial fisheries share of impacts used</b>	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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**A near-term management scenario for sport and commercial spring Chinook fisheries in the Columbia River**

**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 <sup>a</sup>	2005 <sup>a</sup>	2006	2007	2008	Average (1999-2008)	Hypothetical w/ low Willamette run size
<b>Final run size</b>	38,700	178,600	416,500	295,100	208,900	193,400	106,900	132,100	86,200	178,700	199,600	300,000
<b>Total allowable impact</b>	1.000%	1.900%	2.500%	2.200%	1.900%	1.900%	1.600%	1.700%	1.600%	1.900%	1.900%	2.200%
<b>Post-update impacts unused by sport fisheries after run-size update</b>	0.256%	0.332%	0.423%	0.129%	0.301%	0.000%	0.000%	0.294%	0.181%	0.006%	0.095%	0.258%
<b>Additional number of upriver fish harvested in commercial fishery if unused sport fishery impacts are available</b>	186	1,111	3,305	713	1,179	0	0	728	292	22	356	1,451
<b>Total sport fishery harvest of upriver fish (assuming 75% mark rate and sport fishery cannot use all its impacts)</b>	708	10,622	34,892	29,967	13,223	27,951	16,773	7,054	5,269	18,616	17,724	25,965
<b>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)</b>	549	3,545	11,328	5,208	4,148	2,946	1,596	2,322	1,115	1,867	2,791	6,270
<b>Total sport fisheries impact</b>	0.244%	0.793%	1.117%	1.354%	0.844%	1.927%	2.092%	0.712%	0.815%	1.389%	1.184%	1.154%
<b>Total commercial fisheries impact</b>	0.756%	1.107%	1.383%	0.846%	1.056%	0.643%	0.713%	0.988%	0.785%	0.511%	0.716%	1.046%
<b>Final sport fisheries share of impacts used</b>	24%	42%	45%	62%	44%	75%	75%	42%	51%	73%	62%	53%
<b>Final commercial fisheries share of impacts used</b>	76%	58%	55%	38%	56%	25%	25%	58%	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.