



Fish Passage Center

Weekly Report #04 - 15

June 18, 2004

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Highlights:

- **Precipitation throughout the Columbia Basin was well above average in most basins in May and the first half of June.**
- **June Final and June Mid-Month Water Supply Forecasts have increased at most locations relative to the May Final Forecast.**
- **Most large storage reservoirs, with the exception of Libby, are close to being full and should not have a problem refilling by June 30th, 2004.**

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin was well above average in most basins in May. Precipitation throughout the first fourteen days of June has continued to be above average precipitation in most basins. Over the entire water year, precipitation remains slightly below average in most basins.

Table 1. Summary of June precipitation and cumulative October through June precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2004 June 1-14		Water Year 2004 October 1, 2003 to June 14, 2004	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.18	105	18.55	96
SNAKE RIVER ABOVE ICE HARBOR	0.62	91	13.40	94
Columbia Above The Dalles	0.95	114	18.32	98
Kootenai	1.30	113	18.52	94
Clark Fork	0.79	87	12.49	95
Flathead	1.16	94	16.30	93
Pend Oreille/Spokane	1.21	119	25.46	98
Central Washington	0.57	191	7.30	96
SNAKE RIVER PLAIN	0.27	59	7.49	82
Salmon/Boise/Payette	0.39	57	15.32	91
Clearwater	1.19	103	27.09	106
SW Washington Cascades/Cowlitz	2.40	174	58.29	91
Willamette Valley	2.03	193	52.35	96

Snowpack within the Columbia Basin is below average for this time of year. Average snowpack in the Columbia River for basins above the Snake River confluence is 23% of average, for Snake River Basins the average snowpack is 33% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 44% of average.

June Final Water Supply Forecasts have increased at most locations relative to the May Final Forecast. The June Mid-Month Water Supply

Forecasts are very similar to the June Final forecasts. All locations in Table 2 remain below average in terms of Water Supply.

Table 2. June Final and June Mid-Month Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	June Final		June Mid-Month	
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	79	85100	79	84800
Grand Coulee (Jan-July)	84	53000	84	53000
Libby Res. Inflow, MT (Jan-July)	76	4820	76	4820
Hungry Horse Res. Inflow, MT (Jan-July)	91	2020	90	2010
Lower Granite Res. Inflow (Apr- July)	71	15400	71	15300
Brownlee Res. Inflow (Apr-July)	44	2790	43	2630
Dworshak Res. Inflow (Apr-July)	91	2400	91	2400

The spring flow objective period started in the Lower Snake River on April 3rd, 2004. Based on the April Final Forecast at Lower Granite (Apr-July), the flow objective is 85 Kcfs at Lower Granite through June 20th. Over the spring flow objective period, flows have averaged 70.9 Kcfs at Lower Granite. Over the last week, flows have been decreasing at Lower Granite, averaging 73.4 Kcfs last week.

The Spring Flow Objective Periods at McNary Dam and Priest Rapids Dam began on April 10th. The flow objectives at McNary and Priest Rapids are 220 Kcfs and 135 Kcfs, respectively. Over the spring flow objective period, flows

at McNary have averaged 206.1 Kcfs; flows over the last week have averaged 239.5 Kcfs. SOR 2004-12 was submitted to the Action Agencies on May 25, 2004 and asked for flows at Priest Rapids to be reduced to a minimum of 125 Kcfs (week average) on June 1, 2004 and gave the operators flexibility to provide up to 135 Kcfs if they felt more water was available than indicated by current modeling. From June 11th to June 17th, flows averaged 155.6 Kcfs at Priest Rapids.

Grand Coulee is currently at an elevation of 1286.5 feet (6-17-04) and has refilled less than one foot over the last week. Grand Coulee is 3.5 feet from full.

The Libby Reservoir is currently at an elevation of 2441.0 feet (6-17-04). Inflows to Libby over the last week have ranged between 17.8 and 31.0 Kcfs; Libby has been able to refill 3.6 feet in the last week while maintaining outflows of 14.0 to 15.0 Kcfs. On June 14, 2004 the State of Montana submitted SOR 2004 MT-1 to the Action Agencies, which asked for flows at Libby to be reduced to 12 Kcfs and held through the end of August. This operation would effectively shorten flows at Libby for the USFWS sturgeon pulse (SOR 2004 FWS1). At the 6-16-04 TMT meeting, it was decided that the sturgeon pulse at Libby would continue and TMT would discuss summer flow levels at Libby at the next TMT meeting.

The Hungry Horse Reservoir is currently at an elevation of 3557.9 feet (6-17-04), and is 2.1 feet from full. Over the last week, inflows to Hungry Horse have ranged between 5.7 and 9.6 Kcfs, enabling Hungry Horse to refill 1.8 feet. Outflows over the last week have ranged between 2.1 and 5.7 Kcfs.

The Dworshak Reservoir is currently at an elevation of 1595.5 feet (6-17-04). Inflows to Dworshak have decreased over the last week from 13.0 and 8.5 Kcfs; outflows have dropped over the last week from 13.9 to 1.8 Kcfs. Dworshak has refilled 2.3 feet in the last week and is 4.5 feet from full.

The Brownlee Reservoir is currently at an elevation of 2074.9 feet (6-17-04). Inflows to Brownlee have ranged between 15.6 and 11.5 Kcfs; outflows have ranged between 12.6 and 20.4 Kcfs. Brownlee has drafted approximately 1.4 feet in the last week and is currently 2.1 feet from full.

Spill: Spill for fish passage has continued at Mid-Columbia projects for the past week. Spill for fish passage for the past week has been provided at Ice Harbor Dam according to the Biological Opinion and has averaged 73% of average daily flow. No other spill occurred in the Snake River system as flows have receded in the Snake River to below powerhouse capacity. Spill at Dworshak Dam ended on June 12, 2004.

Spill at the lower Columbia River projects was provided in accord with the Biological Opinion spring spill measures. Over the past week spill averaged 33%, 28%, 38% and 38% of daily flow at McNary, John Day, The Dalles and Bonneville dams, respectively.

Gas bubble trauma monitoring is occurring at the Mid and Lower Columbia sites. No fish were observed with signs of GBT this past week.

Smolt Monitoring:

Spring Migrants

Smolt migration of yearling chinook, steelhead, coho, and sockeye are winding down in the Snake River basin as weekly average passage indices have dropped 45% or more from last week's averages at Lower Granite, Little Goose, and Lower Monumental dams for each species except coho and sockeye at Lower Granite Dam. At Lower Granite Dam these two species' average weekly passage indices dropped only 2 to 15%, respectively, but their weekly average was only 607 and 86 fish per day, respectively, compared to a weekly average of 1,200 yearling Chinook and 3,186 steelhead per day.

Likewise, the smolt migration of yearling chinook, steelhead, coho, and sockeye are winding down in the mid-Columbia River basin as weekly average passage indices have dropped between 40 and 86% to magnitudes of 11 yearling Chinook, 17 steelhead, 130 coho, and 5 sockeye per day.

In the lower Columbia River at John Day and Bonneville dams, the smolt migrations of yearling chinook, coho, and sockeye continue at weekly average levels more similar to last week, changing less than 15% from yearling chinook at John Day Dam, coho at both dams and sockeye at Bonneville Dam. Reductions in weekly average

passage indices were closer to 40% for yearling chinook and steelhead at Bonneville Dam and sockeye at John Day Dam, and approximately 55% for steelhead at John Day Dam. This week's average passage indices were in the 4,300-5,000 range for yearling chinook and sockeye, 2,700-3,700 range for coho, and 419-622 range for steelhead for John Day and Bonneville dams.

Summer Migrants

Smolt migration of subyearling chinook showed a moderate increase at the Snake River dams this week with weekly averages higher by 33% at Lower Granite Dam, 13% at Little Goose Dam, and 39% at Lower Monumental Dam. The weekly average passage index this week at Lower Granite Dam rose to 32,936 fish per day.

A 45% drop in the weekly average passage index of subyearling Chinook was observed this week to a level of 272 fish per day.

In the lower Columbia River, the subyearling chinook smolt migration showed a large 75% increase in weekly average level at John Day Dam and a modest 8.7% increase at Bonneville Dam. The weekly average passage indices this week were approximately 17,500 and 23,900 fish per day, respectively, at John Day and Bonneville dams. During the three days of sampling at McNary Dam this week, the subyearling chinook passage index averaged approximately 33,700 fish per day.

Hatchery Releases - The scheduled release of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam for the 2004 migration season will be about 81.9 million for the season with all yearling chinook, coho, and steelhead in river to date. Subyearling summer and fall chinook releases began in mid-May and will continue through June and finish by early July. Supplemental and planned releases made during fall 2003 are considered to be 2004 migrants. The 2004 hatchery release totals are updated after information is received from the hatcheries with numbers finalized by the end of the year. The 2004 Hatchery Zone Report gives the latest numbers received for this year's report.

Juvenile sockeye were released from net pens into Lake Wenatchee last summer and fall (2003); the majority of these fish reside in the lake and migrate from the lake and to the ocean the next spring (2004). In the Snake River basin, juvenile sockeye were released in Redfish, Alturas, and Pettit lakes last fall with near 100 smolts released this spring. Most begin their migration in late April and May from the lakes.

Hatcheries in the Snake and Columbia River basins released about 13.2 million juvenile salmon during the past two weeks. About 15.9 million fish are scheduled for release during the next two weeks. See the Hatchery Release Summary Tables for details of individual release groups.

2004 Hatchery Zone Report

Race/Species	Thursday 17-June-2004			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,602,935	12,430,000	21,738,796	36,771,731
Spring Chinook	10,492,087	3,940,197	5,175,531	19,607,815
Summer Chinook	2,374,050	3,213,145		5,587,195
Coho	1,367,111	1,243,063	5,960,228	8,570,402
Sockeye	76,927	315,790		392,717
Summer Steelhead	9,214,069	1,221,128	476,912	10,912,109
Winter Steelhead			90,000	90,000
Total	26,127,179	22,363,323	33,441,467	81,931,969

Snake River: Release of yearling chinook from hatcheries in the Snake River basin is completed for the 2004 migration season. About 12.8 million yearling spring/summer chinook and an additional 1-million yearling fall chinook were released for the 2004 migration. Juvenile steelhead releases are completed for the year with approximately 9.2 million released in this Basin. About 1.4 million subyearling and yearling coho were also released in the Snake River. Release of subyearling fall chinook is on going with hatchery facilities and acclimation ponds beginning releases during May with all releases completed by late June.

Mid-Columbia - Release of about 3.94 million yearling spring chinook from hatcheries and acclimation ponds is completed for the 2004 migration season. About 1.2 million juvenile steelhead were released from State hatcheries into the Wenatchee, Methow, Okanogan, and Walla Walla rivers, and the mainstem Columbia River from Ringold H. Yearling summer chinook releases were completed from Dryden, Similkameen, and Carlton ponds as well as Wells H by early May. The first group of subyearling chinook was released from Wells H (on-site) with another subyearling release completed in the Yakima River. Approximately 1.2 million yearling coho were released in the Wenatchee, Methow and Yakima River basins this spring. Priest Rapids and Ringold hatcheries began releasing their subyearling fall chinook on June 14, and these hatcheries account for greater than 10-million of the 12-million released in the Mid-Columbia River. Releases of summer chinook from Eastbank and Wells hatchery complexes are scheduled for June and early July.

Lower Columbia - Yearling fall and spring chinook and coho salmon were released from acclimation ponds located in the Umatilla River basin in March and April. Yearling spring chinook were released from Round Butte H, Warm Springs NFH, Carson, Warm Springs, and Little White Salmon NFHs and Hood River Acclimation Ponds mainly in April with Klickitat H releasing their fish in early March. About 2.5 million yearling coho from Washougal Hatchery

were trucked and released by the first week of April with the on-site volitional release of coho from Klickitat H. completed by May 28. Juvenile steelhead releases were completed from mid-April through early May in most of the rivers in this Reach. Upriver bright fall chinook (subyearlings) were released in the Umatilla River in late May. About 2 million fall chinook were released from Little White Salmon H on June 17 and 4-million from Klickitat H are scheduled for release in late June.

Adult Fish Passage: At Bonneville Dam, summer chinook passage ranged from 1,847 to 2,184 per day for the week ending June 17. To date, 31,746 adult summer chinook have been counted, and this total compares to about 38,000 in 2003 and 14,300 for the 10-year average at Bonneville Dam. There are no hatcheries or wild/natural summer chinook tributary spawning areas below McNary Dam so these summer chinook should be passing over the four lower Columbia River dams before splitting off into the Snake or Mid-Columbia rivers (including the Yakima R).

The final count of adult spring chinook salmon at McNary Dam was 107,497 this year, about 12% and 62% greater than the respective 2003 and 10-year average. The majority of spring chinook past McNary Dam is migrating up the Snake River with 77,000 counted at Ice Harbor Dam. The count at Priest Rapids Dam (Mid-upper Columbia River) totaled near 13,500. Through the end of May, about 10,800 adult chinook were counted at Prosser Dam on the Yakima River. The Snake, Mid-Columbia, and Yakima rivers account for about 92% of the passage past McNary Dam.

Steelhead passage at Bonneville Dam continues to increase at Bonneville with daily passage counts that averaged 430 for the week ending June 17. It appears that about one half of these fish are passing upstream The Dalles Dam with the other half likely destined for the Bonneville Pool area. At present, the steelhead run is about 1.6 times greater than the respective 2003 and 10-year average through June 17 at Bonneville Dam.

Sockeye numbers increased through the week (range = 1,579 to 5,786 per day) at

Bonneville Dam with the total through June 17 at 27,459. This total compares to 3,646 and 4,383 for the respective 2003 and 10-year average. With no sockeye spawning below McNary Dam, the fish passing Bonneville should be moving directly through these four lower Columbia River projects with minimal dropout of numbers. The majority of sockeye are destined for the Wenatchee and Okanogan River basins. A small number would be expected to return to the Snake River.

Daily Average Flow and Spill (in kcfs) at Mid-Columbia Projects

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/04/04	125.6	0.2	132.3	0.0	147.2	8.9	147.3	30.5	151.0	24.7	155.9	22.4	158.6	93.5
06/05/04	90.1	0.2	97.0	0.0	107.8	7.6	110.5	28.5	118.5	22.4	128.7	21.8	129.7	75.5
06/06/04	84.1	0.1	81.5	0.0	95.4	7.0	98.9	25.2	108.0	20.5	114.8	21.5	118.8	69.1
06/07/04	89.9	0.2	96.1	0.0	105.9	7.5	102.1	11.8	111.2	26.6	120.3	19.6	120.9	70.3
06/08/04	101.2	0.0	100.8	0.0	112.3	7.7	113.6	12.5	119.6	28.1	115.7	20.8	115.3	66.7
06/09/04	110.0	0.2	104.3	0.0	113.8	7.8	112.9	11.3	120.5	27.7	121.6	21.8	122.9	71.4
06/10/04	143.2	0.2	142.3	0.0	153.3	8.7	146.7	11.7	151.4	27.5	149.8	22.1	150.7	87.3
06/11/04	130.3	0.2	131.4	0.0	144.8	9.4	145.5	11.7	154.2	26.8	165.9	22.3	171.5	100.2
06/12/04	127.2	0.2	129.1	0.0	142.5	9.3	137.2	9.9	143.9	25.2	146.7	21.6	148.3	89.2
06/13/04	121.4	0.2	122.2	0.0	134.8	9.1	132.4	9.3	139.8	23.0	143.6	21.6	146.1	88.4
06/14/04	157.1	0.2	152.8	0.0	165.1	10.0	159.3	13.6	166.0	30.2	165.2	21.5	170.3	102.5
06/15/04	124.8	0.1	138.2	0.0	153.8	10.0	155.4	14.6	162.1	31.7	168.9	21.8	171.4	103.5
06/16/04	118.8	0.1	118.7	0.0	128.1	8.1	126.3	13.6	132.8	30.7	138.6	19.8	140.0	83.5
06/17/04	132.7	0.0	132.6	0.0	141.9	8.6	138.4	13.4	143.8	30.0	140.4	21.1	141.3	83.9

Daily Average Flow and Spill (in kcfs) at Snake Basin Projects

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/04/04	19.0	9.4	17.5	20.5	105.1	22.5	104.1	0.0	108.4	0.0	107.7	52.5
06/05/04	21.0	11.4	16.1	14.3	108.9	19.0	109.5	0.9	118.1	0.0	116.6	45.1
06/06/04	21.0	11.4	18.8	13.7	108.3	20.5	108.2	0.0	113.3	0.8	111.6	75.1
06/07/04	21.0	11.4	19.4	19.9	110.6	21.7	111.2	0.0	118.4	6.0	120.8	82.9
06/08/04	19.8	10.2	17.5	19.2	102.0	9.5	101.6	0.0	106.9	0.0	109.4	52.6
06/09/04	16.0	6.4	16.4	18.4	97.6	5.6	102.0	0.0	107.4	0.0	104.4	45.0
06/10/04	13.7	7.0	16.7	16.3	90.5	0.0	92.1	0.0	95.9	0.0	96.9	73.6
06/11/04	13.9	4.3	15.4	15.2	88.1	0.0	88.4	0.0	91.3	0.0	94.7	81.1
06/12/04	12.1	2.5	15.6	15.4	83.8	0.0	84.3	0.0	89.8	0.0	91.3	52.9
06/13/04	9.6	0.0	15.6	17.6	77.2	0.0	76.3	0.0	79.0	0.0	80.5	44.9
06/14/04	7.6	0.0	15.0	20.6	76.5	0.0	75.7	0.0	80.4	0.0	81.8	68.6
06/15/04	4.6	0.0	13.4	17.7	72.6	0.0	74.5	0.0	78.3	0.0	80.0	67.9
06/16/04	2.0	0.0	12.6	12.6	60.7	0.0	60.3	0.0	63.0	0.0	65.6	45.5
06/17/04	1.8	0.0	---	---	55.2	0.0	53.8	0.0	55.2	0.0	55.7	40.6

Daily Average Flow and Spill (in kcfs) at Lower Columbia Projects

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
06/04/04	255.5	91.3	253.2	62.8	251.3	101.4	270.3	93.2	53.8	111.9
06/05/04	279.9	111.6	260.6	66.4	265.7	106.6	285.2	92.8	62.3	118.6
06/06/04	225.4	76.6	228.2	66.9	234.9	92.9	263.1	94.2	46.3	111.4
06/07/04	239.9	79.3	235.7	64.2	240.7	94.9	280.8	95.6	45.6	128.2
06/08/04	239.0	74.6	238.9	68.2	239.4	94.8	273.1	98.8	36.1	126.8
06/09/04	234.0	73.7	232.0	67.7	239.7	94.7	259.1	97.9	35.3	114.4
06/10/04	236.9	85.1	222.7	64.8	219.4	87.3	265.5	98.0	35.6	120.5
06/11/04	253.3	88.3	252.7	64.9	261.0	103.3	276.3	98.9	47.5	118.5
06/12/04	253.6	85.8	251.2	66.5	260.3	103.5	285.8	99.3	55.3	119.6
06/13/04	242.1	72.8	229.0	66.0	232.6	92.1	268.1	100.3	47.7	108.7
06/14/04	234.2	71.5	238.3	67.1	244.2	96.3	273.8	100.6	50.1	111.7
06/15/04	241.2	74.9	240.0	67.9	241.4	95.1	261.1	101.3	39.7	108.7
06/16/04	247.0	75.4	249.3	72.6	251.1	79.6	271.5	100.0	46.2	113.9
06/17/04	201.8	75.4	189.5	52.6	191.6	76.0	232.5	99.1	19.1	102.9

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary								
From:	6/4/2004	to	6/17/2004					
Agency	Hatchery	Species	Race	MiqYr	NumRel	RelStart	RelEnd	RelSite
Nez Perce Tribe	Cherry Lane Hatchery	CH0	FA	2004	330,000	06-01-04	06-30-04	Cherry Lane Hatchery
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2004	500,000	05-31-04	06-10-04	Big Canyon (Clearwater R)
Nez Perce Tribe Total					830,000			
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2004	2,000,000	06-17-04	06-17-04	Little White Salmon H
U.S. Fish and Wildlife Service Total					2,000,000			
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2004	6,700,000	06-14-04	06-23-04	Priest Rapids Hatchery
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2004	3,450,000	06-14-04	06-30-04	Ringold Springs Hatchery
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2004	228,000	06-14-04	06-18-04	Wells Hatchery
Washington Dept. of Fish and Wildlife Total					10,378,000			
Grand Total					13,208,000			

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 6/18/2004 to 7/1/2004

Agency	Hatchery	Species	Race	MiqYr	NumRel	RelStart	RelEnd	RelSite
Nez Perce Tribe	Cherry Lane Hatchery	CHO	FA	2004	330,000	06-01-04	06-30-04	Cherry Lane Hatchery
Nez Perce Tribe	Clearwater Hatchery	CHO	SP	2004	390,303	06-30-04	07-03-04	Meadow Creek - SELW
Nez Perce Tribe Total					720,303			
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CHO	SU	2004	300,000	06-28-04	07-08-04	Turtle Rock Hatchery
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CHO	SU	2004	527,000	06-28-04	07-08-04	Turtle Rock Hatchery
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CHO	FA	2004	4,000,000	06-21-04	06-30-04	Klickitat Hatchery
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CHO	FA	2004	6,700,000	06-14-04	06-23-04	Priest Rapids Hatchery
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CHO	FA	2004	3,450,000	06-14-04	06-30-04	Ringold Springs Hatchery
Washington Dept. of Fish and Wildlife	Wells Hatchery	CHO	SU	2004	228,000	06-14-04	06-18-04	Wells Hatchery
Washington Dept. of Fish and Wildlife Total					15,205,000			
Grand Total					15,925,303			

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank				
								Rank 1	Rank 2	Rank 3	Rank 4	
McNary Dam												
	06/11/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
	06/13/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
	06/17/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
Bonneville Dam												
	06/08/04	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0	
	06/12/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
	06/15/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
Rock Island Dam												
	06/11/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
	06/13/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
	06/17/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			#	<u>Boundary</u>			#	<u>Grand Coulee</u>			#	<u>Grand C. Tlwr</u>			#	<u>Chief Joseph</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
6/4	---	---	---	0	120	122	122	24	109	110	110	24	107	108	110	24	107	108	108	23
6/5	---	---	---	0	119	122	122	24	110	110	111	24	107	108	109	24	108	108	109	23
6/6	---	---	---	0	118	120	121	24	111	111	111	24	107	108	109	24	108	108	108	23
6/7	---	---	---	0	119	121	122	24	110	110	111	24	107	107	108	24	108	108	108	24
6/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/9	---	---	---	0	120	122	124	24	109	109	110	24	107	107	109	24	108	108	108	23
6/10	---	---	---	0	119	122	123	24	110	110	111	21	107	107	108	24	107	108	108	23
6/11	---	---	---	0	120	123	124	24	110	110	111	24	106	107	107	24	106	107	107	23
6/12	---	---	---	0	119	121	123	21	109	110	110	24	106	107	108	24	107	107	107	23
6/13	---	---	---	0	119	120	122	24	109	110	111	24	106	107	108	24	107	107	107	23
6/14	---	---	---	0	119	121	123	24	110	110	111	24	106	107	108	24	106	107	107	23
6/15	---	---	---	0	118	119	120	24	110	110	110	24	106	107	107	24	106	107	107	23
6/16	---	---	---	0	118	121	125	24	109	110	110	24	106	107	108	24	107	107	108	23
6/17	---	---	---	0	118	120	121	24	109	110	110	24	107	107	108	24	107	108	109	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			#	<u>Wells</u>			#	<u>Wells Dwnstrm</u>			#	<u>Rocky Reach</u>			#	<u>Rocky R. Tlwr</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
6/4	108	108	109	23	108	109	109	21	110	110	110	21	110	111	111	24	112	113	114	24
6/5	109	109	110	23	108	109	109	24	110	110	110	24	110	111	111	24	113	113	113	24
6/6	108	109	110	23	107	108	108	24	109	109	109	24	110	111	111	24	113	113	114	24
6/7	108	109	109	24	107	107	107	24	108	109	109	24	109	109	110	24	110	111	112	24
6/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/9	108	109	110	23	107	108	108	24	109	110	110	24	109	110	110	24	110	110	111	24
6/10	107	108	108	23	107	108	108	24	109	109	110	24	109	109	110	24	110	110	111	24
6/11	107	107	108	23	107	107	107	24	108	109	109	24	108	108	108	24	109	109	109	24
6/12	107	108	108	23	106	107	107	24	108	108	109	24	108	109	109	24	109	110	110	24
6/13	107	108	108	23	106	106	107	24	108	108	108	24	108	108	109	24	109	109	110	24
6/14	107	107	108	23	106	106	106	24	107	107	108	24	106	107	108	24	108	108	108	24
6/15	107	107	108	23	106	106	106	24	107	108	108	24	106	106	107	24	107	107	108	24
6/16	107	108	109	23	107	107	108	24	108	109	110	24	107	108	109	24	108	109	110	24
6/17	107	108	108	23	107	108	108	24	109	109	110	24	108	109	110	24	110	110	111	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			#	<u>Rock I. Tlwr</u>			#	<u>Wanapum</u>			#	<u>Wanapum Tlwr</u>			#	<u>Priest Rapids</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
6/4	112	112	113	24	116	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
6/5	112	113	113	24	116	117	119	24	113	113	114	23	117	118	120	23	115	115	116	23
6/6	112	112	113	24	117	117	120	24	112	113	114	23	118	118	119	23	114	115	116	23
6/7	111	111	112	24	116	117	119	24	111	111	112	10	115	116	118	23	112	114	115	23
6/8	---	---	---	0	---	---	---	0	---	---	---	0	116	116	118	23	113	113	115	23
6/9	109	109	110	24	115	116	118	24	---	---	---	0	---	---	---	0	---	---	---	0
6/10	109	109	110	24	115	115	116	24	110	111	112	23	114	116	117	23	114	115	115	23
6/11	108	109	109	24	114	114	116	24	108	108	108	23	112	112	113	23	109	110	111	23
6/12	109	109	110	24	114	115	116	24	109	109	110	23	113	113	115	23	110	111	112	23
6/13	109	109	110	24	114	114	115	24	110	110	110	23	114	114	116	23	112	112	113	23
6/14	108	108	109	24	113	114	114	24	108	108	109	23	112	112	113	23	110	110	111	22
6/15	107	108	109	24	113	114	115	24	---	---	---	0	---	---	---	0	---	---	---	0
6/16	108	109	110	24	114	115	116	24	---	---	---	0	---	---	---	0	---	---	---	0
6/17	110	110	110	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Lower Columbia and Snake River Sites

Date	Priest R. Dnst			Pasco			Dworshak			Clrwrtr-Peck			Anatone			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
6/4	---	---	---	0	114	116	116	24	117	119	119	24	106	108	108	24	104	104	105	24
6/5	118	119	120	23	113	114	115	24	119	119	119	22	107	107	107	24	103	104	104	24
6/6	117	118	119	23	109	110	110	24	119	119	119	24	106	107	107	24	104	104	105	24
6/7	117	118	118	23	110	111	112	24	119	119	119	24	107	108	108	24	104	104	105	24
6/8	116	117	117	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/9	---	---	---	0	110	110	111	24	113	116	117	24	105	105	106	24	104	104	104	24
6/10	119	119	119	23	110	111	112	24	115	121	122	24	104	106	106	24	103	104	104	24
6/11	117	117	118	23	110	111	112	24	109	109	109	24	103	104	104	24	104	104	105	24
6/12	117	118	118	23	111	112	113	24	106	109	109	24	103	103	104	24	104	105	105	24
6/13	118	118	118	23	110	111	111	24	101	102	102	24	102	102	102	24	104	104	105	24
6/14	118	118	119	22	110	112	113	24	101	102	105	24	101	102	103	24	103	104	105	24
6/15	---	---	---	0	112	113	113	24	106	106	107	24	102	103	104	24	103	104	104	24
6/16	---	---	---	0	113	114	115	24	103	106	108	24	102	103	104	24	103	104	105	24
6/17	---	---	---	0	113	114	114	24	106	107	109	24	102	103	104	24	103	104	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwrtr-Lewiston			Lower Granite			L. Granite Tlwr			Little Goose			L. Goose Tlwr			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
6/4	105	106	106	24	106	106	108	24	111	113	116	24	108	109	111	24	107	108	108	24
6/5	105	105	106	24	105	105	106	24	110	112	116	24	109	110	111	24	109	110	111	24
6/6	105	105	106	24	105	105	105	24	111	113	115	24	108	108	109	24	108	108	109	24
6/7	105	106	107	24	104	104	104	24	111	113	114	24	106	107	107	24	106	106	107	24
6/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/9	104	104	105	24	104	104	104	24	105	107	108	24	107	108	108	24	107	108	108	24
6/10	103	104	104	24	104	104	104	24	104	104	104	24	105	105	106	24	105	105	106	24
6/11	102	103	103	24	102	103	103	24	102	102	103	24	103	103	104	24	103	103	104	24
6/12	103	104	105	24	102	103	103	24	102	102	102	24	102	102	102	24	102	102	102	24
6/13	102	102	103	24	103	103	104	24	103	103	103	24	102	102	102	24	102	102	105	24
6/14	101	102	103	24	103	103	104	24	103	103	103	24	101	102	102	24	101	101	102	24
6/15	102	103	104	24	103	103	103	24	102	103	104	24	101	101	102	24	101	101	101	24
6/16	102	103	104	24	104	105	107	24	102	103	103	24	104	105	108	24	102	102	103	24
6/17	102	104	105	24	105	106	107	24	103	103	104	24	106	107	108	24	103	104	104	24

Total Dissolved Gas Saturation Data at Snake and Lower Columbia River Sites

Date	Lower Mon.			L. Mon. Tlwr			Ice Harbor			Ice Harbor Tlwr			McNary-Oregon			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
6/4	110	111	112	24	109	110	110	21	110	111	112	24	115	116	119	24	115	118	125	24
6/5	109	109	111	24	109	109	110	24	110	110	111	24	114	114	114	24	115	115	115	24
6/6	107	107	108	24	107	107	109	23	108	109	109	24	118	119	120	24	112	113	113	24
6/7	108	108	110	24	109	110	112	24	106	106	107	24	120	120	120	24	110	111	114	24
6/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/9	105	105	105	24	105	105	106	24	106	106	106	24	113	114	114	24	110	111	113	24
6/10	106	106	106	24	106	106	106	24	105	105	105	24	117	118	119	24	109	110	111	24
6/11	105	105	105	24	104	105	105	24	103	103	103	24	118	119	119	24	106	107	107	24
6/12	103	103	104	24	103	103	104	24	104	104	105	24	114	115	118	24	107	108	108	24
6/13	103	103	103	24	103	103	103	24	103	104	104	24	113	113	113	24	109	110	110	24
6/14	102	102	102	24	102	102	104	24	102	102	103	24	116	118	118	24	109	109	110	24
6/15	101	102	102	24	101	102	102	24	102	102	103	24	117	118	119	24	108	109	111	24
6/16	102	103	105	24	102	102	103	24	102	102	103	24	114	115	118	24	110	112	115	24
6/17	104	105	106	24	103	103	104	24	104	104	106	24	112	113	113	24	114	116	118	24

Total Dissolved Gas Saturation (%) - Average of 12 Highest Hours, 24 h Average and 24 h High

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	McNary-Wash			McNary Tlwr			John Day			John Day Tlwr			The Dalles			#				
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High					
6/4	115	117	120	24	118	120	121	24	108	109	110	23	113	117	119	24	111	114	116	23
6/5	115	116	119	24	119	121	121	24	111	111	112	23	115	118	119	24	111	112	113	23
6/6	111	112	112	24	116	120	121	24	111	111	112	23	114	118	119	24	112	114	116	23
6/7	110	110	112	24	115	120	121	24	109	109	110	24	113	118	119	24	112	114	114	24
6/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/9	112	112	112	24	115	119	120	24	108	108	108	23	113	118	119	24	112	115	116	23
6/10	110	112	112	24	115	119	119	24	106	107	107	23	112	118	119	24	109	111	112	23
6/11	107	107	107	24	115	119	120	24	105	105	105	23	111	117	119	24	108	110	112	23
6/12	108	108	109	24	115	119	120	24	104	105	105	23	110	114	118	21	108	112	114	23
6/13	109	109	110	24	114	119	120	24	104	104	105	19	111	117	118	24	109	113	114	23
6/14	108	108	109	24	114	119	119	24	103	103	104	7	110	117	118	24	108	112	113	23
6/15	109	111	112	24	114	119	120	24	---	---	---	0	111	117	119	24	109	113	116	23
6/16	112	114	116	24	116	120	121	24	105	106	108	23	110	114	119	24	110	114	116	23
6/17	115	116	117	24	116	118	119	24	107	108	109	23	109	114	117	24	109	112	115	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	The Dalles Dnst			Bonneville			Warrendale			CamasWashugal			#			
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr		24h Avg	12h Avg	High
6/4	115	117	118	24	113	114	114	23	114	116	118	23	113	115	117	24
6/5	115	116	116	24	111	112	113	23	113	114	116	23	111	112	113	24
6/6	115	117	118	24	111	111	112	23	113	114	116	23	110	111	112	24
6/7	116	117	118	24	112	113	113	24	113	115	117	24	111	113	114	24
6/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/9	116	117	117	24	111	112	112	23	113	115	119	23	111	112	114	24
6/10	114	115	116	24	109	110	111	23	111	114	117	23	109	110	112	24
6/11	113	115	115	24	107	108	108	23	111	113	118	23	108	110	113	24
6/12	114	116	117	24	109	109	110	23	112	114	118	23	109	111	114	24
6/13	114	115	116	24	110	110	111	23	112	115	119	23	109	111	113	24
6/14	114	115	116	24	109	110	111	23	112	114	119	23	110	112	115	24
6/15	114	116	118	24	110	110	111	21	113	115	120	23	111	113	117	24
6/16	113	117	119	24	112	112	113	23	114	115	119	23	111	114	115	24
6/17	115	116	117	24	113	114	115	23	115	116	119	23	112	114	115	24

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK													
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
06/04/2004	*	0	---	30	---	172	3,701	1,907	420	159	12,807	3,754	9,415
06/05/2004	*	0	---	34	---	---	4,409	2,208	630	188	---	9,732	10,883
06/06/2004	*	0	---	---	---	---	3,473	11,387	220	80	8,438	6,012	5,542
06/07/2004	*	0	---	2	---	---	2,830	6,500	838	86	---	3,773	5,622
06/08/2004		0	---	15	---	---	3,701	6,450	750	23	8,041	2,648	7,869
06/09/2004	*	0	---	8	---	---	3,852	1,100	260	10	---	2,375	4,487
06/10/2004	*	0	---	---	---	---	1,823	400	200	10	6,985	2,765	5,944
06/11/2004	*	---	---	---	---	---	2,500	750	400	22	---	4,300	4,706
06/12/2004	*	0	---	---	---	---	2,300	700	620	17	13,999	4,978	3,913
06/13/2004	*	0	---	---	---	---	1,300	700	340	22	---	3,914	5,149
06/14/2004	*	---	---	---	---	---	400	250	220	5	3,097	6,600	4,856
06/15/2004	*	---	---	---	---	---	400	50	140	5	---	5,735	4,407
06/16/2004		---	---	---	---	---	800	50	15	1	4,260	6,628	4,316
06/17/2004	*	---	---	---	---	---	700	175	30	4	---	2,176	2,793
<hr/>													
Total:		0	0	89	0	172	32,189	32,627	5,083	632	57,627	65,390	79,902
# Days:		9	0	5	0	1	14	14	14	14	7	14	14
Average:		0	0	18	0	172	2,299	2,331	363	45	8,232	4,671	5,707
YTD		828	29,063	73,065	9,904	4,053	5,162,049	2,652,743	912,708	12,497	1,074,851	1,002,154	1,461,120

COMBINED SUBYEARLING CHINOOK													
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
06/04/2004	*	14	---	0	---	14	2,196	2,200	510	251	32,195	2,947	18,947
06/05/2004	*	66	---	0	---	---	8,243	3,312	720	590	---	6,255	19,913
06/06/2004	*	100	---	---	---	---	21,315	3,266	780	494	35,963	9,674	16,683
06/07/2004	*	11	---	0	---	---	30,311	18,101	2,409	689	---	15,450	17,606
06/08/2004		33	---	0	---	---	47,934	15,303	3,508	838	48,556	11,358	24,563
06/09/2004	*	24	---	0	---	---	29,603	29,753	6,380	264	---	11,371	24,627
06/10/2004	*	24	---	---	---	---	34,219	27,800	4,720	358	63,019	12,565	31,629
06/11/2004	*	---	---	---	---	---	45,350	28,700	5,660	569	---	10,845	23,212
06/12/2004	*	32	---	---	---	---	32,000	22,500	5,260	568	37,752	18,547	22,284
06/13/2004	*	71	---	---	---	---	22,700	17,500	3,760	184	---	18,661	25,253
06/14/2004	*	---	---	---	---	---	24,600	14,850	3,840	156	14,856	10,299	21,588
06/15/2004	*	---	---	---	---	---	45,900	11,250	3,860	110	---	21,995	25,313
06/16/2004		---	---	---	---	---	46,600	10,950	2,429	153	48,571	31,393	24,217
06/17/2004	*	---	---	---	---	---	13,400	6,675	1,650	163	---	10,587	25,421
<hr/>													
Total:		375	0	0	0	14	404,371	212,160	45,486	5,387	280,912	191,947	321,256
# Days:		9	0	5	0	1	14	14	14	14	7	14	14
Average:		42	0	0	0	14	28,884	15,154	3,249	385	40,130	13,711	22,947
YTD		879	0	27	80	935	431,182	218,460	87,341	8,406	462,478	241,408	2,450,772

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>
 this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

Two-Week Summary of Passage Indices

COMBINED COHO												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/04/2004 *	0	---	0	---	0	439	5,100	570	428	5,027	1,473	2,267
06/05/2004 *	0	---	0	---	---	320	3,162	360	493	---	12,401	6,136
06/06/2004 *	0	---	---	---	---	419	1,759	250	245	3,617	2,073	1,847
06/07/2004 *	0	---	0	---	---	880	1,150	230	236	---	2,634	3,180
06/08/2004	0	---	0	---	---	597	1,800	507	183	5,779	1,951	2,499
06/09/2004 *	0	---	0	---	---	935	3,450	280	95	---	3,742	2,035
06/10/2004 *	0	---	---	---	---	729	2,100	140	115	2,823	1,624	1,486
06/11/2004 *	---	---	---	---	---	850	2,400	120	209	---	5,973	6,044
06/12/2004 *	0	---	---	---	---	1,300	2,300	0	139	5,577	4,955	2,382
06/13/2004 *	0	---	---	---	---	100	850	0	211	---	3,844	3,126
06/14/2004 *	---	---	---	---	---	200	200	60	82	1,593	2,321	2,340
06/15/2004 *	---	---	---	---	---	400	1,550	0	86	---	1,991	1,608
06/16/2004	---	---	---	---	---	600	850	90	64	909	1,830	1,065
06/17/2004 *	---	---	---	---	---	800	375	70	117	---	1,176	627
<hr/>												
Total:	0	0	0	0	0	8,569	27,046	2,677	2,703	25,325	47,988	36,642
# Days:	9	0	5	0	1	14	14	14	14	7	14	14
Average:	0	0	0	0	0	612	1,932	191	193	3,618	3,428	2,617
YTD	0	0	0	0	45	255,583	114,516	15,350	27,850	84,440	172,680	930,263

COMBINED STEELHEAD												
	ENT	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/04/2004 *	1	---	230	---	2	8,720	14,208	6,426	32	2,221	1,332	930
06/05/2004 *	0	---	251	---	---	6,965	17,715	4,234	40	---	2,076	695
06/06/2004 *	0	---	---	---	---	3,233	8,845	1,781	65	1,550	1,175	952
06/07/2004 *	1	---	53	---	---	6,100	8,904	1,697	77	---	1,139	454
06/08/2004	0	---	61	---	---	7,939	10,554	1,602	31	1,196	697	319
06/09/2004 *	0	---	32	---	---	10,069	17,852	1,960	51	---	2,015	522
06/10/2004 *	0	---	---	---	---	5,677	6,400	980	22	149	1,140	902
06/11/2004 *	---	---	---	---	---	5,800	4,701	760	49	---	1,241	1,604
06/12/2004 *	0	---	---	---	---	4,600	3,001	780	16	1,870	645	170
06/13/2004 *	0	---	---	---	---	3,300	2,700	460	8	---	839	184
06/14/2004 *	---	---	---	---	---	2,400	2,402	320	7	291	508	234
06/15/2004 *	---	---	---	---	---	2,800	1,154	340	10	---	284	179
06/16/2004	---	---	---	---	---	1,600	1,502	435	6	436	578	336
06/17/2004 *	---	---	---	---	---	1,800	775	220	21	---	256	228
<hr/>												
Total:	2	0	627	0	2	71,003	100,713	21,995	435	7,713	13,925	7,709
# Days:	9	0	5	0	1	14	14	14	14	7	14	14
Average:	0	0	125	0	2	5,072	7,194	1,571	31	1,102	995	551
YTD	195	2,106	35,709	1,857	8,418	5,795,508	1,894,869	338,932	10,573	123,801	255,982	154,128

* See sampling comments

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
06/04/2004 *	0	---	0	---	0	63	100	0	21	21,774	4,135	4,708
06/05/2004 *	0	---	0	---	---	0	201	0	17	---	11,808	7,641
06/06/2004 *	0	---	---	---	---	60	50	0	7	20,664	10,918	4,703
06/07/2004 *	0	---	0	---	---	189	0	21	3	---	5,838	3,805
06/08/2004	0	---	0	---	---	179	0	0	3	15,857	7,247	4,094
06/09/2004 *	0	---	0	---	---	55	100	20	3	---	6,693	4,122
06/10/2004 *	0	---	---	---	---	156	0	0	0	11,471	6,962	8,703
06/11/2004 *	---	---	---	---	---	100	100	0	6	---	9,364	9,092
06/12/2004 *	1	---	---	---	---	300	50	0	4	12,712	9,216	5,897
06/13/2004 *	0	---	---	---	---	200	0	20	5	---	5,801	5,884
06/14/2004 *	---	---	---	---	---	0	0	0	0	4,203	3,989	4,973
06/15/2004 *	---	---	---	---	---	0	0	0	4	---	2,464	4,705
06/16/2004	---	---	---	---	---	0	50	0	9	5,605	1,840	2,859
06/17/2004 *	---	---	---	---	---	0	50	0	4	---	720	1,083
Total:	1	0	0	0	0	1,302	701	61	86	92,286	86,995	72,269
# Days:	9	0	5	0	1	14	14	14	14	7	14	14
Average:	0	0	0	0	0	93	50	4	6	13,184	6,214	5,162
YTD	3	9	0	0	25	7,194	4,567	939	6,874	294,389	231,359	182,117

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's), subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

Definitions for Smolt Index Counts

- WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
- IMN (Collection) = Imnaha River Trap : Collection Counts
- GRN (Collection) = Grande Ronde River Trap : Collection Counts
- LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
- ENT (Collection) = Entiat River Trap : Collection Counts
- LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
- BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
 RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
 LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
 LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
 IMN data collected for the FPC by the Nez Perce Tribe. ENT data collected for the FPC by USFWS.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

6/18/04 8:26 AM

		06/05/04	TO	06/18/04			
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	380,550	28,300	7,950	1,200	63,500	481,500
	Sum of NumberBarged	358,191	27,957	7,926	1,189	61,150	456,413
	Sum of NumberBypassed	20,676	309	0	0	2,304	23,289
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,683	34	24	11	46	1,798
LGS	Sum of NumberCollected	212,132	32,562	27,025	700	100,604	373,023
	Sum of NumberBarged	212,020	32,419	27,022	700	99,923	372,084
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	109	143	3	0	679	934
LMN	Sum of NumberCollected	45,329	5,035	2,660	60	21,896	74,980
	Sum of NumberBarged	45,269	5,007	2,658	60	21,786	74,780
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	60	28	2	0	110	200
MCN	Sum of NumberCollected	185,919	37,807	16,630	60,133	5,019	305,508
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	185,841	37,737	16,625	60,036	5,003	305,242
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	78	70	5	97	16	266
Total Sum of NumberCollected		823,930	103,704	54,265	62,093	191,019	1,235,011
Total Sum of NumberBarged		615,480	65,383	37,606	1,949	182,859	903,277
Total Sum of NumberBypassed		206,517	38,046	16,625	60,036	7,307	328,531
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		1,930	275	34	108	851	3,198

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/18/04 8:26 AM

TO: 06/18/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	400,966	4,832,526	248,964	6,883	5,644,342	11,133,681
	Sum of NumberBarged	377,666	4,614,073	235,111	6,376	5,336,192	10,569,418
	Sum of NumberBypassed	21,416	151,329	13,352	285	289,607	475,989
	Sum of NumberTrucked	129	43,991	220	181	15,496	60,017
	Sum of TotalProjectMortalities	1,755	23,133	281	41	3,047	28,257
LGS	Sum of NumberCollected	218,193	2,567,256	111,259	4,515	1,848,820	4,750,043
	Sum of NumberBarged	218,228	2,563,587	111,148	4,512	1,845,689	4,743,164
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	2,096	0	2	1,333	3,431
	Sum of TotalProjectMortalities	129	1,472	14	1	1,795	3,411
LMN	Sum of NumberCollected	79,378	842,241	14,315	885	283,776	1,220,595
	Sum of NumberBarged	79,294	833,118	14,311	885	280,424	1,208,032
	Sum of NumberBypassed	0	6,321	0	0	2,125	8,446
	Sum of NumberTrucked	10	1,352	0	0	604	1,966
	Sum of TotalProjectMortalities	74	1,450	4	0	623	2,151
MCN	Sum of NumberCollected	294,088	657,649	51,159	177,634	75,264	1,255,794
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	293,745	645,282	51,125	176,991	74,611	1,241,754
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	344	2,755	34	643	257	4,033
Total Sum of NumberCollected		992,625	8,899,672	425,697	189,917	7,852,202	18,360,113
Total Sum of NumberBarged		675,188	8,010,778	360,570	11,773	7,462,305	16,520,614
Total Sum of NumberBypassed		315,161	802,932	64,477	177,276	366,343	1,726,189
Total Sum of NumberTrucked		139	47,439	220	183	17,433	65,414
Total Sum of TotalProjectMortalities		2,302	28,810	333	685	5,722	37,852

Cumulative Adult Passage at Mainstem Dams Through: 06/17

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	170,188	8,885	192,010	14,258	130,296	7,371	31,746	3,960	38,145	3,828	14,313	1,497	0	0	0	0	0	0
TDA	130,226	7,717	131,207	11,522	87,249	5,199	22,532	2,209	28,028	2,441	9,974	923	0	0	0	0	0	0
JDA	110,304	6,353	101,436	10,206	72,403	4,083	15,263	1,948	22,465	1,802	7,702	589	0	0	0	0	0	0
MCN	107,497	7,675	95,550	11,123	66,222	4,195	10,818	1,245	18,484	1,920	5,448	520	0	0	0	0	0	0
IHR	77,106	4,658	78,170	8,020	44,313	2,700	4,105	663	8,202	1,034	2,390	247	0	0	0	0	0	0
LMN	71,673	3,786	70,603	7,344	42,703	2,607	2,323	245	5,088	481	1,290	121	0	0	0	0	0	0
LGS	62,458	3,404	69,017	7,079	41,666	2,708	1,013	110	1,696	244	411	50	0	0	0	0	0	0
LWG	70,778	4,482	70,609	8,295	40,262	2,776	0	0	0	0	0	0	0	0	0	0	0	0
PRD	13,521	1,020	18,136	656	14,413	382	2,084	70	2,234	43	421	17	0	0	0	0	0	0
RIS	9,596	235	16,525	732	10,997	584	0	0	0	0	0	0	0	0	0	0	0	0
RRH	3,946	6	3,929	425	3,866	158	0	0	0	0	0	0	0	0	0	0	0	0
WEL	2,546	98	1,930	126	2,048	134	0	0	0	0	0	0	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2004		2003		10-Yr Avg.		2004	2003	10-Yr Avg.	2004	2003	10-Yr Avg.	Wild 2004
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	0	0	0	0	0	27,459	3,646	4,383	11,580	7,110	7,408	3,293
TDA	0	0	0	0	0	0	16,047	2,131	2,390	3,480	1,966	2,103	1,279
JDA	0	0	0	0	0	0	11,270	1,811	1,825	3,456	2,462	4,199	1,386
MCN	0	0	0	0	0	0	6,084	1,070	900	2,569	2,031	2,204	908
IHR	0	0	0	0	0	0	8	6	0	2,038	1,856	1,832	815
LMN	0	0	0	0	0	0	1	4	0	1,848	2,089	1,856	881
LGS	0	0	0	0	0	0	1	4	0	2,005	2,206	1,908	1,062
LWG	0	0	0	0	0	0	0	2	0	7,713	15,868	5,954	2,641
PRD	0	0	0	0	0	0	1,606	222	210	199	23	11	0
RIS	0	0	0	0	0	0	48	23	11	232	41	23	0
RRH	0	0	0	0	0	0	30	7	8	369	50	51	0
WEL	0	0	0	0	0	0	13	0	0	91	21	8	66

RIS/RRH are through 06/15.

WEL is through 06/16.

**PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files, except where otherwise noted.

Wild steelhead numbers are included in the total.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Page last updated on: 06/18/04

BON counts from January 1, 2004 to March 14, 2004 (our traditional counts begin March 15)

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
156	1	1,489	238

