



Fish Passage Center

Weekly Report #04 - 13

June 4, 2004

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Highlights:

📄 **June Early-Bird Water Supply Forecasts have increased at most locations relative to the May Final Forecast.**

📄 **Over the past week Snake River flows have increased dramatically reaching a peak of 132.4 kcfs on May 29. As a result spill has occurred at all Snake River Projects. McNary flows reached a peak of 273.7 kcfs on May 28.**

📄 **At McNary Dam the COE has curtailed tests of turbine operation above the 1% efficiency range because of unacceptably high descaling rates.**

📄 **Passage indices of steelhead and chinook have begun to decline.**

📄 **Release of yearling chinook from hatcheries is complete for the year. 12.8 million spring chinook and 1 million fall chinook yearlings were released in 2004.**

📄 **The season total spring chinook adult count at Bonneville Dam was 170,344, slightly more than half of the pre-season prediction.**

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has increased over the last several weeks, resulting in generally above average precipitation through the first twenty-four days of May. Over the entire water year, precipitation remains slightly below average.

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

Location	Water Year 2004 May 1-24		Water Year 2004 October 1, 2003 to May 24, 2004	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.75	101	16.36	93
SNAKE RIVER Above Ice Harbor	1.73	118	11.77	89
Columbia Above The Dalles	1.78	117	16.38	94
Kootenai	1.30	75	16.42	91
Clark Fork	2.27	143	10.67	90
Flathead	1.74	92	14.25	91
Pend Oreille/Spokane	2.77	137	22.68	93
Central Washington	1.01	169	6.61	93
SNAKE RIVER Plain	0.78	68	6.49	78
Salmon/Boise/ Payette	2.25	162	13.80	88
Clearwater	4.20	179	24.03	102
SW Washington Cascades/Cowlitz	1.85	63	52.52	85
Willamette Valley	2.55	93	48.45	92

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 39% of average, for Snake River Basins the average snowpack is 29% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 38% of average.

June Early-Bird Water Supply Forecasts have increased at most locations relative to the May Final Forecast. All locations in Table 2 remain below average in terms of Water Supply.

Table 2. May Final and June Early-Bird Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	May Final		June Early-Bird	
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	74	79500	78	83400
Grand Coulee (Jan-July)	83	52200	84	52900
Libby Res. Inflow, MT (Jan-July)	79	4960	77	4880
Hungry Horse Res. Inflow, MT (Jan-July)	81	1810	89	1990
Lower Granite Res. Inflow (Apr-July)	61	13100	67	14400
Brownlee Res. Inflow (Apr-July)	40	2500	44	2750
Dworshak Res. Inflow (Apr-July)	76	2010	87	2300

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 67.0 Kcfs at Lower Granite. Over the last week, flows have increased dramatically and have averaged 117.1 Kcfs reaching a peak of 132.4 on May 29, 2004.

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 have averaged 197 Kcfs at McNary Dam and 119 Kcfs at Priest Rapids Dam. Flows at McNary have also increased over the last week, averaging 255 Kcfs and reaching a peak of 273.7 Kcfs on May 28, 2004. 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 May 24th to May 30th, flows averaged 126.7 Kcfs.

Grand Coulee is currently at an elevation of 1280.8 feet (6-3-04) and has refilled approximately 4.2 feet over the last week. Grand Coulee is less than 10 feet from full.

The Libby Reservoir is currently at an elevation of 2432.0 feet (6-3-04). Inflows to Libby over the last week have ranged between 16.7 and 20.4 Kcfs; Libby has been able to refill 8.0 feet in the last week while ramping up project outflows to 13.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3551.2 feet (6-3-04), and is less than nine feet from full. Over the last week, inflows to Hungry Horse have ranged between 6.3 and 11.5 Kcfs, enabling Hungry Horse to refill 3.5 feet. Outflows over the last week have ranged between 2.1 and 4.6 Kcfs.

The Dworshak Reservoir is currently at an elevation of 1594.8 feet (6-3-04). Inflows to Dworshak were high over the past week ranging

between 17.9 and 28.8 Kcfs; outflows have increased and have ranged between 16.1 and 19.1 Kcfs. Dworshak has refilled 2.6 feet in the last week, and needs to refill approximately five feet to refill.

The Brownlee Reservoir is currently at an elevation of 2075.5 feet (6-3-04). Inflows to Brownlee have ranged between 18.1 and 21.7 Kcfs; outflows have ranged between 15.2 and 22.5 Kcfs. Brownlee has remained relatively steady in the last week and is currently 1.5 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. Spill has occurred at Lower Granite, Little Goose and Lower Monumental dams for the past week due to river flows exceeding 100 kcfs. Flows in the Snake River ranged from a daily average of 140 to 107 kcfs at Ice Harbor Dam. As a result daily spill for the past week averaged 22% of daily average flow at Lower Granite Dam, 5% at Little Goose and 11% at Lower Monumental Dam. Spill at the lower Columbia River projects was provided in accord with the Biological Opinion measures. Daily spill at Bonneville Dam averaged 35% of daily average flow, at The Dalles 40% of daily average flow, at John Day 27% of daily average flow and at McNary Dam 38% of daily average flow. Over the past week spill has occurred daily at about 9 kcfs per day at Dwoshak Dam as inflow has increased. Over the past week only two fish have been noted with slight gas bubble symptoms at Rock Island Dam.

Smolt Monitoring: Yearling chinook were down at all sites while steelhead numbers were down at Lower Granite Dam but higher at other sites. Small increases in steelhead numbers were still being seen at Little Goose and Lower Monumental dams as spill occurred in the past week, causing lower collection efficiency at the projects upstream which resulted in more in-river migrants. Coho and sockeye indices are still relatively high in the Lower Columbia River while subyearling chinook indices continued to increase throughout the system.

At Snake River Basin traps only Lewiston

and Imnaha traps were in operation this week. Sampling is planned to end this week at the Snake River Trap at Lewiston. At the Imnaha Trap small numbers of yearling chinook and steelhead were still being captured this past week. At the Lewiston Trap steelhead collection declined to 30 per day average this week compared to 90 per day average last week.

At Lower Granite Dam, despite the highest flows of the year, the numbers of yearling chinook, coho and steelhead decreased rapidly this past week. The average weekly passage index for yearling chinook was down to 6,000 compared to 23,000 last week. The steelhead average daily index was at 30,000 this week compared to 157,000 last week. Coho indices were down as well with the average daily index at 3,000 this week compared to 14,000 per day last week. Little Goose Dam saw a drop in yearling chinook numbers over the past week with the average daily index of yearling chinook at 6,500 this week compared to 17,000 last week, while the steelhead index increased, averaging 37,000 compared to 29,000 last week. Lower Monumental Dam had a decrease in the yearling chinook indices with an average daily value of 3,000 compared to 6,000 per day last week. Steelhead indices were up to 9,000 per day this week compared to 6,000 per day the week past.

In the Mid-Columbia River the Entiat Trap sampled only one day this past week.

At Rock Island Dam the numbers of yearling chinook decreased with an average yearling chinook index of 50 this week compared to 210 last week, while steelhead averaged 130 per day compared to 220 last week, and sockeye averaged 30 per day this week compared to 50 per day last week. Subyearling chinook increased this week with the average daily index at 120 per day compared to 55 last week, while coho indices decreased to 770 per day compared to over 1,200 per day average the previous week.

In the Lower Columbia, at McNary Dam, based on full samples taken every other day, yearling chinook indices averaged 18,000 per day this week compared to 28,000 last week, while steelhead indices averaged 2,700 per day com-

pared to 1,800 per day last week. Coho indices were up to 7,500 per day, up from 4,500 last week. Sockeye indices also increased from 16,000 per day last week to 22,000 this week. Subyearling chinook indices also continued to increase this past week, with the average daily index at 39,000 per day this week compared to 9,900 last week. Testing of the vertical barrier screens was halted last week as results continued to raise concern that operations outside 1% were increasing descaling and mortality associated with the tests.

At John Day Dam the numbers of yearling chinook continued to decline with the average daily index at 10,000 this week, compared to 23,000 last week. Steelhead indices also decreased over the past week with the average daily value at 4,600 compared to 13,000 last week. Coho indices were at 4,800 per day this past week compared to 5,500 last week, while sockeye indices rose to 8,700 and subyearling chinook indices rose to 5,800 per day.

At Bonneville Dam, the average daily index for yearling chinook was 15,000 compared to 20,000 last week. The steelhead index averaged 1,500 this week compared to 3,800 last week. The indices for coho were down sharply with an average index of 6,700 per day versus 25,000 per day last week. Sockeye indices continued increasing with the average daily index at 6,600 this week. The subyearling chinook indices rose to 16,000 compared to 8,400 last week.

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 will be released during June and up to early July before all fish are planted for the season. Supplemental and planned releases that were released during fall 2003 are considered to be 2004 migrants. The Zone Release Report below summarizes "planned" hatchery releases from State, federal or Tribal hatcheries or acclimation ponds for the 2004 Migration Season. These totals are updated after release information is

received from the hatcheries and numbers finalized.

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 a whopping 96 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 5.1 million juvenile salmon during the past two weeks. Releases of yearling spring, summer, and fall chinook, coho, sockeye, and steelhead from hatcheries were completed for the 2004 migration year in the Columbia River basin. About 13 million fish are scheduled for release during the next two weeks. See the Hatchery Release Summary Tables for details of individual release groups.

Race/ Species	Friday 4-June-2004			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,602,935	12,430,000	21,738,594	36,771,529
Spring Chinook	10,492,303	3,940,197	5,175,531	19,608,031
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	62,096	315,790		377,886
Summer Steelhead	9,214,049	1,222,395	476,912	10,913,356
Winter Steelhead			90,000	90,000
Total	26,112,544	22,364,590	33,441,265	81,918,399

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 another 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. In addition, about 1.4 million subyearling and yearling coho were released in the Snake River. Release of subyearling fall chinook was initiated from some of the hatchery facilities and acclimation ponds

during May and all releases should be completed by late June.

Mid-Columbia: Releases of yearling spring chinook from hatcheries and acclimation ponds are completed for the 2004 migration with about 3.95 million exonerated and given freedom from the easy life of raceways or pond feeding for over a year in the hatcheries. About 1.2 million juvenile steelhead were released from State hatcheries; the Wenatchee, Methow, and Okanogan River basins received the majority of the juvenile steelhead. The large yearling summer chinook releases from Dryden, Similkameen, and Carlton ponds as well as Wells H were completed 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. The subyearling fall chinook from Priest Rapids and Ringold hatcheries should be released during the upcoming two weeks and account for greater than 10-million of the 12-million released in the Mid-Columbia River. As well, subyearling releases of summer chinook are scheduled for June and up to 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 H 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 will be released from Little White Salmon H and 4-million from Klickitat H in late June.

Adult Fish Passage: At Bonneville Dam, the spring chinook run ended on May 31. The season total for adult spring chinook was 170,344, about 1/2 of the early season projected total for the Columbia River above Bonneville Dam. This year's count compares to 192,010 in 2003 and 130,296 for the 10-year average. Greater than 95% of the adult chinook salmon (excluding jack chinook) returning this season are comprised of 4-year old fish that migrated to the ocean in 2002, spending two years at sea. Of the spring chinook past Bonneville Dam, approximately 76.5% were counted at The Dalles Dam with 101,811 past McNary Dam through June 3. The majority of chinook salmon passing McNary Dam this year are migrating up the Snake River with 71,802 counted at Ice Harbor Dam. The count at Priest Rapids Dam (Mid-upper Columbia River) totaled 11,335. Through June 2, about 10,800 adult chinook have been 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.

About 200 to 500 jack chinook salmon were counted per day at Bonneville Dam for the week with the season total now at 8,885. This compares to 14,258 in 2003 and 7,371 for the 10-year average. The jack totals are normally an indicator of the following year's projected run total.

Steelhead passage at Bonneville Dam averaged about 170 per day. Many of these fish are still destined for the Bonneville Pool area; however, about 80/per day were passing The Dalles Dam at week's end and are heading for upstream tributaries. At present, the steelhead run is about 1.4 times greater than the respective 2003 and 10-year average through June 3 at Bonneville Dam.

Sockeye are now beginning to pass Bonneville Dam with 600 counted through June 3. Last year, only 22 had been counted by June 3.

Already, about 1.3 million Shad have passed Bonneville and The Dalles dams. Wow.

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
05/21/04	103.8	0.0	99.6	0.0	112.3	8.0	114.0	30.6	122.6	26.7	123.6	19.2	122.0	75.7
05/22/04	77.8	0.0	87.6	0.0	103.9	7.9	106.9	25.8	115.3	21.0	119.5	9.2	125.6	77.8
05/23/04	72.8	0.0	71.6	0.0	85.4	6.5	86.1	22.8	94.0	20.5	104.5	0.0	123.5	76.6
05/24/04	100.3	0.0	99.5	0.0	116.0	7.6	117.1	32.4	125.6	27.7	118.0	11.1	95.3	59.2
05/25/04	105.5	0.0	107.0	0.0	121.9	7.8	123.9	29.7	130.7	26.9	136.9	20.1	138.2	85.3
05/26/04	119.8	0.0	113.2	0.0	126.0	8.4	120.7	29.6	127.5	25.5	129.0	19.8	133.2	82.8
05/27/04	112.6	0.0	117.5	0.0	133.4	8.5	134.9	30.9	142.3	27.1	146.3	20.7	144.6	89.6
05/28/04	87.7	0.0	95.5	0.0	111.2	8.1	116.0	28.2	125.1	24.4	136.9	19.9	139.1	84.7
05/29/04	92.6	0.2	92.9	0.0	101.3	7.1	101.3	25.0	108.9	24.0	109.1	19.6	111.5	66.6
05/30/04	99.9	0.2	94.5	1.7	111.8	7.9	114.8	24.7	122.3	22.0	124.9	20.3	125.3	74.9
05/31/04	82.2	0.1	86.1	0.0	97.9	7.4	96.1	21.6	104.9	20.0	114.6	19.4	117.9	70.8
06/01/04	100.7	0.2	101.6	0.0	112.7	8.3	111.1	26.8	115.6	27.2	131.7	18.8	137.9	82.5
06/02/04	120.5	0.1	120.3	0.0	129.4	8.2	127.4	28.0	131.2	25.6	115.9	19.2	110.5	67.0
06/03/04	137.6	0.1	133.6	0.0	142.9	8.9	142.1	26.1	147.7	23.2	147.3	22.6	146.3	87.9

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
05/21/04	4.1	0.0	16.5	17.0	77.6	0.0	78.2	0.0	83.1	0.0	84.5	75.6		
05/22/04	2.2	0.0	15.8	15.0	83.6	0.0	83.5	0.0	88.7	0.0	86.4	75.5		
05/23/04	2.2	0.0	17.3	17.0	84.6	0.0	83.0	0.0	86.4	0.0	88.8	53.9		
05/24/04	7.5	0.0	16.7	19.6	89.7	0.0	89.9	0.0	97.0	0.0	96.7	45.0		
05/25/04	9.6	0.0	17.8	19.6	86.7	0.0	87.4	0.0	94.0	0.0	95.9	73.6		
05/26/04	9.6	0.0	15.8	19.0	84.2	0.0	84.8	0.0	90.5	0.0	92.8	84.6		
05/27/04	11.8	2.2	15.8	19.0	92.8	4.4	93.7	0.0	99.9	0.0	101.3	51.2		
05/28/04	16.1	6.5	18.1	16.0	122.4	29.9	117.3	4.4	124.2	3.9	121.7	45.3		
05/29/04	19.0	9.5	21.6	17.8	132.4	39.4	133.5	17.6	138.8	17.8	140.3	82.4		
05/30/04	19.0	9.5	21.7	22.9	125.8	34.2	124.3	12.7	130.1	14.6	128.9	90.5		
05/31/04	19.1	9.5	20.9	23.3	120.8	28.4	119.2	5.5	124.5	24.3	126.5	53.3		
06/01/04	19.2	9.6	20.4	22.3	114.8	22.2	115.0	4.5	123.2	22.7	121.8	44.8		
06/02/04	19.1	9.6	20.4	23.2	103.1	11.4	105.1	3.5	108.8	8.6	107.6	75.1		
06/03/04	17.9	8.3	---	---	100.4	18.9	100.3	0.0	105.8	6.1	106.8	81.0		

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		
05/21/04	215.3	92.2	210.5	55.6	218.8	87.4	253.4	95.8	32.0	114.2
05/22/04	214.9	90.1	217.4	59.8	215.7	85.2	232.2	96.7	12.5	111.5
05/23/04	212.6	91.9	211.9	65.8	215.4	83.5	252.4	99.1	28.5	113.4
05/24/04	209.0	91.9	223.7	63.2	230.6	90.8	261.9	101.3	35.9	113.2
05/25/04	207.3	91.4	215.0	56.7	221.7	87.0	244.4	101.0	20.9	111.1
05/26/04	234.3	106.6	231.2	58.5	237.3	92.9	249.6	99.5	21.1	117.7
05/27/04	240.0	91.4	240.4	62.6	257.7	100.4	286.0	98.4	49.4	126.7
05/28/04	273.7	103.2	260.8	70.1	258.3	102.1	292.8	100.1	57.0	124.6
05/29/04	269.8	111.6	280.3	69.8	289.0	119.0	311.7	101.7	66.2	132.4
05/30/04	238.4	94.2	233.7	69.6	237.7	93.3	269.9	105.1	40.2	113.2
05/31/04	265.6	112.5	263.8	69.1	279.9	115.0	308.9	104.2	63.1	130.2
06/01/04	257.9	107.0	259.5	65.4	260.4	101.8	275.0	97.4	47.9	118.4
06/02/04	246.9	81.2	246.2	69.4	264.6	103.8	292.3	100.8	57.3	123.5
06/03/04	201.8	78.1	228.1	65.5	233.3	92.1	270.3	94.5	53.2	111.2

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary									
From:	5/21/2004		to		6/3/2004				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Oxbow-Idaho	CH0	FA	2004	9,957	05-24-04	05-24-04	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Oxbow-Idaho	CH0	FA	2004	166,623	05-28-04	05-28-04	Pittsburg Landing Acclim Pond	Snake River
Idaho Dept. of Fish and Game Total					176,580				
Nez Perce Tribe	Cherry Lane Hatchery	CH0	FA	2004	330,000	06-01-04	06-30-04	Cherry Lane Hatchery	Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2004	200,000	05-21-04	05-31-04	Pittsburg Landing Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2004	500,000	05-21-04	05-31-04	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2004	500,000	05-31-04	06-10-04	Big Canyon (Clearwater R)	Clearwater River M F
Nez Perce Tribe Total					1,530,000				
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2004	304,000	05-20-04	05-31-04	Thornhollow Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2004	304,000	05-20-04	05-31-04	Umatilla River	Umatilla River
Umatilla Tribe Total					608,000				
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CO	UN	2004	943,000	05-17-04	05-28-04	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife Total					943,000				
Yakama Tribe	Little White Salmon NFH	CH0	FA	2004	1,700,000	05-17-04	05-31-04	Prosser Acclim Pond	Yakama River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2004	180,000	05-12-04	05-31-04	Prosser Acclim Pond	Yakama River
Yakama Tribe Total					1,880,000				
Grand Total					5,137,580				

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

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 6/4/2004 to 6/17/2004

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2004	500,000	05-31-04	06-10-04	Big Canyon (Clearwater R)	Clearwater River M F
Nez Perce Tribe Total					500,000				
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 Hatchery	Little White Salmon River
U.S. Fish and Wildlife Service Total					2,000,000				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2004	98,509	06-16-04	06-16-04	White River	Wenatchee River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2004	6,700,000	06-14-04	06-25-04	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2004	3,450,000	06-14-04	06-30-04	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2004	228,000	06-14-04	06-18-04	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					10,476,509				
Grand Total					12,976,509				

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											
	05/30/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/03/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	05/25/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/28/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/02/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	05/27/04	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	05/31/04	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/03/04	Chinook + Steelhead	94	1	1	1.06%	0.00%	1	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	Hungry H. Dnst			#	Boundary			#	Grand Coulee			#	Grand C. Tlwr			#	Chief Joseph			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
5/21	---	---	---	0	115	118	121	24	109	109	109	24	108	108	109	24	107	108	108	23
5/22	---	---	---	0	115	118	122	24	109	109	110	24	108	108	109	24	108	108	108	23
5/23	---	---	---	0	113	114	116	24	108	108	109	24	107	108	108	24	107	107	108	23
5/24	---	---	---	0	116	119	121	21	108	108	108	24	107	107	108	24	106	107	107	23
5/25	---	---	---	0	116	118	120	24	108	109	109	24	107	108	109	24	107	108	108	23
5/26	---	---	---	0	117	118	119	24	109	109	110	24	108	108	110	24	108	108	109	23
5/27	---	---	---	0	118	121	121	24	109	109	109	24	108	108	110	24	107	108	108	23
5/28	---	---	---	0	120	120	121	24	109	109	110	24	108	108	110	24	107	107	108	23
5/29	---	---	---	0	118	120	120	24	108	108	109	24	107	108	110	24	106	107	107	23
5/30	---	---	---	0	119	120	121	24	108	108	109	24	107	108	109	24	107	107	108	23
5/31	---	---	---	0	120	120	121	24	108	108	108	24	107	108	110	24	106	107	107	23
6/1	---	---	---	0	121	121	122	24	108	108	108	24	107	108	109	24	107	107	108	23
6/2	---	---	---	0	121	121	122	24	108	108	108	24	107	107	109	24	107	107	108	23
6/3	---	---	---	0	120	122	123	24	108	109	109	24	107	108	109	24	108	108	108	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			#	Wells			#	Wells Dwnstrm			#	Rocky Reach			#	Rocky R. Tlwr			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
5/21	108	108	109	23	107	108	108	24	109	110	110	24	110	110	110	24	112	113	113	24
5/22	109	109	110	23	107	108	108	23	109	109	110	23	110	110	110	24	111	112	113	24
5/23	108	108	109	23	106	107	110	24	108	108	109	24	108	108	109	24	110	110	111	24
5/24	107	107	108	23	107	107	108	24	108	109	109	24	107	108	108	23	111	111	112	23
5/25	107	108	109	23	107	107	108	24	109	109	109	24	109	109	110	24	111	112	113	24
5/26	108	108	109	23	108	108	108	24	109	109	110	24	110	110	110	24	112	113	113	24
5/27	108	109	110	23	107	107	108	22	109	109	109	22	109	109	109	24	111	112	114	24
5/28	108	109	110	23	107	107	107	24	108	109	111	24	108	109	109	24	111	111	113	24
5/29	107	107	108	23	106	106	107	24	109	110	112	24	107	108	108	24	110	110	112	24
5/30	108	109	110	23	106	107	107	24	108	108	109	24	107	107	108	24	109	110	110	24
5/31	107	108	109	23	106	107	108	24	107	108	109	24	107	107	107	24	109	109	110	24
6/1	108	108	109	23	107	107	108	23	108	109	109	23	107	107	107	24	109	110	110	24
6/2	107	107	108	23	107	108	109	22	108	109	110	22	108	108	109	24	110	111	112	24
6/3	108	108	108	23	108	108	108	24	109	110	110	24	109	110	110	24	111	111	112	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Rock Island			#	Rock I. Tlwr			#	Wanapum			#	Wanapum Tlwr			#	Priest Rapids			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
5/21	111	112	113	24	116	117	118	24	113	114	115	23	117	117	118	23	115	115	116	23
5/22	111	111	112	24	116	116	117	24	112	112	113	23	114	116	117	23	113	114	115	23
5/23	110	110	111	24	115	116	118	24	111	112	112	23	111	111	112	23	111	112	113	23
5/24	110	110	111	23	115	116	118	23	---	---	---	0	---	---	---	0	---	---	---	0
5/25	111	112	112	24	116	117	119	24	113	113	114	23	117	117	118	23	115	117	119	23
5/26	112	112	112	24	116	117	119	23	112	112	113	23	116	116	117	23	115	115	117	23
5/27	111	111	112	24	116	117	118	24	111	111	112	23	116	116	118	23	113	114	115	23
5/28	110	111	111	24	115	116	118	24	110	111	111	23	115	116	117	23	111	112	113	23
5/29	110	110	111	24	115	116	118	24	108	109	109	23	114	115	116	23	110	111	112	23
5/30	109	110	110	24	115	115	116	24	108	108	108	23	114	114	115	23	110	111	112	23
5/31	109	110	110	24	114	115	117	24	109	109	110	23	114	115	116	23	109	110	111	23
6/1	109	110	110	24	115	116	117	24	110	111	113	23	113	114	116	23	111	112	114	22
6/2	110	111	111	24	115	116	117	24	112	114	116	23	115	116	117	23	111	112	114	23
6/3	111	111	112	24	115	115	116	24	114	115	118	23	117	117	117	23	115	116	117	23

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			#	Clrwtr-Peck			#	Anatone			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
5/21	118	119	120	23	114	115	116	24	100	100	101	24	101	101	102	24	103	103	104	24
5/22	118	118	119	23	112	113	114	24	100	100	101	24	101	101	102	24	103	103	104	24
5/23	117	118	118	23	111	112	113	24	100	100	101	24	101	101	102	24	103	103	103	24
5/24	---	---	---	0	112	113	113	24	100	102	103	24	101	102	103	24	103	104	105	24
5/25	118	119	120	23	112	113	113	24	102	102	103	17	102	103	103	24	104	104	105	24
5/26	119	119	120	23	112	112	113	24	103	103	103	24	102	102	102	24	103	103	104	24
5/27	118	119	119	23	112	113	113	24	106	110	112	24	102	104	104	24	103	103	104	24
5/28	118	118	119	23	110	111	111	24	113	114	118	21	103	104	104	21	103	103	103	24
5/29	115	116	117	23	109	110	110	24	117	117	118	24	104	105	105	24	103	104	104	24
5/30	116	117	117	23	108	109	109	24	117	117	118	24	105	106	106	24	103	104	104	24
5/31	116	117	117	23	110	112	112	24	117	118	118	24	105	106	106	24	103	104	105	24
6/1	117	118	119	22	112	112	113	24	117	118	118	24	106	107	107	24	103	104	105	24
6/2	117	117	118	23	113	114	115	24	117	118	118	24	106	107	108	24	103	104	105	24
6/3	119	120	120	23	113	114	114	21	116	117	118	24	106	106	107	24	104	104	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwtr-Lewiston			#	Lower Granite			#	L. Granite Tlwr			#	Little Goose			#	L. Goose Tlwr			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
5/21	101	101	102	24	103	103	104	24	102	103	103	24	103	103	104	24	103	103	104	24
5/22	101	101	102	24	103	104	104	24	103	103	103	24	103	103	103	24	103	103	103	24
5/23	100	101	102	24	102	103	103	24	102	103	103	24	102	102	103	24	102	102	103	24
5/24	101	102	103	24	102	102	104	24	101	101	102	24	101	102	102	24	101	102	102	24
5/25	102	103	104	24	102	103	104	24	102	102	103	24	102	103	103	24	102	102	103	24
5/26	101	102	102	24	104	104	104	24	103	104	104	24	103	103	103	24	102	103	103	24
5/27	101	102	103	24	104	104	105	24	105	106	107	24	102	102	104	24	102	102	103	24
5/28	102	102	103	21	102	103	104	24	113	115	116	24	103	103	103	24	104	105	107	24
5/29	104	104	104	24	101	101	102	24	116	116	116	24	103	104	104	24	107	107	108	24
5/30	104	105	105	24	102	103	103	24	115	115	116	24	106	108	108	24	108	109	109	24
5/31	104	105	106	24	103	104	105	24	113	115	116	24	108	109	109	24	109	109	110	24
6/1	105	105	106	24	105	105	106	24	111	113	114	24	109	109	109	24	109	109	109	24
6/2	105	106	106	24	105	106	107	24	107	109	111	24	110	110	112	24	110	110	111	24
6/3	105	105	106	24	106	107	108	24	111	115	124	24	110	110	111	24	109	110	112	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 Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
5/21	104	104	104	24	104	104	105	24	103	103	104	24	117	119	120	24	112	114	115	24
5/22	104	104	105	24	104	104	104	24	103	104	104	24	119	119	120	24	111	111	112	24
5/23	103	104	104	24	103	103	103	24	104	104	105	24	115	116	120	24	110	111	112	24
5/24	102	103	105	24	102	102	102	22	103	103	104	24	113	113	114	24	111	113	115	24
5/25	102	102	103	24	102	102	103	24	103	103	104	24	118	119	120	24	112	114	116	24
5/26	103	103	103	24	103	103	103	24	103	103	104	24	119	120	121	24	111	111	111	24
5/27	102	103	103	24	102	103	103	24	102	102	102	24	115	116	118	24	110	110	111	24
5/28	102	102	102	24	104	106	111	24	101	101	102	24	114	114	114	24	110	110	110	24
5/29	102	102	103	24	111	112	113	24	101	101	101	24	119	121	121	24	107	107	108	24
5/30	104	104	105	24	110	113	121	24	103	103	104	24	120	121	121	24	106	106	106	24
5/31	105	106	107	24	115	118	122	24	103	104	105	24	115	117	121	24	107	108	109	24
6/1	108	109	110	24	114	117	117	24	108	109	110	24	114	114	114	24	112	114	117	24
6/2	109	110	112	24	110	112	113	24	110	111	113	24	118	119	120	24	111	112	114	24
6/3	110	111	112	24	111	112	115	23	110	110	111	24	119	120	120	24	111	112	114	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	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>						
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24h</u>	<u>12h</u>	High	#	<u>24h</u>	<u>12h</u>	High	#	<u>24h</u>	<u>12h</u>	High
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg	
5/21	111	112	112	24	115	119	119	24	110	110	110	23	113	117	118	24	111	112	113
5/22	111	111	112	24	115	119	120	24	109	109	110	23	113	117	119	24	109	111	113
5/23	110	110	110	24	114	119	119	24	107	107	108	23	112	117	118	24	110	112	114
5/24	111	111	113	24	115	119	120	24	108	108	109	23	113	117	119	24	111	115	116
5/25	112	113	114	24	116	119	121	21	109	109	109	23	113	116	118	24	111	114	116
5/26	112	112	113	24	117	120	121	24	109	109	109	23	113	117	119	24	110	112	113
5/27	110	110	111	24	116	120	121	24	108	109	110	23	113	117	119	23	110	112	115
5/28	109	110	110	24	117	120	121	24	109	109	110	23	114	118	120	24	111	113	115
5/29	107	107	108	24	116	120	121	24	107	108	108	23	112	118	120	24	109	110	112
5/30	105	106	106	24	115	119	121	24	106	106	106	23	114	117	119	24	110	113	115
5/31	107	108	109	24	117	120	121	24	105	105	105	23	112	118	119	24	109	111	113
6/1	110	111	113	24	117	120	121	24	104	104	105	23	111	117	119	24	108	112	115
6/2	111	113	114	24	115	120	120	24	105	106	107	23	111	117	118	24	109	113	116
6/3	113	115	116	24	116	120	120	24	107	107	108	23	112	117	119	24	111	115	117

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashugal</u>						
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24h</u>	<u>12h</u>	High	#	<u>24h</u>	<u>12h</u>	High	#
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg		
5/21	115	116	118	24	110	110	110	23	112	113	115	23	110	111	112	24
5/22	114	115	116	24	109	110	110	23	112	114	116	23	109	110	111	24
5/23	115	116	117	24	110	110	111	23	112	113	115	23	110	111	113	24
5/24	115	117	118	24	111	112	112	23	114	115	117	23	112	114	116	24
5/25	117	117	118	24	114	114	115	23	115	116	119	23	113	116	118	24
5/26	115	116	117	24	113	113	113	23	114	116	118	23	113	113	114	24
5/27	115	116	118	24	111	111	111	23	113	114	116	23	111	112	113	24
5/28	115	116	117	24	111	112	112	23	113	114	117	23	110	111	111	24
5/29	115	116	117	24	110	111	112	23	112	115	118	23	110	111	113	24
5/30	114	116	117	24	111	111	112	23	113	115	118	23	110	112	114	24
5/31	115	116	117	24	111	111	112	23	113	115	118	23	111	113	115	24
6/1	114	116	117	24	112	113	113	23	114	116	119	23	112	115	117	24
6/2	115	117	118	24	112	113	114	23	114	115	118	23	113	115	117	24
6/3	115	117	118	24	113	114	115	23	114	116	118	23	113	116	117	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)
05/21/2004 *	0	8	0	63	43	28,805	30,207	11,360	172	36,593	47,401	27,752
05/22/2004 *	---	---	---	---	---	31,792	18,503	6,441	102	---	43,582	29,123
05/23/2004 *	---	---	---	---	---	27,762	13,701	7,761	126	21,871	28,706	28,851
05/24/2004 *	---	5	---	29	35	38,656	11,301	5,419	155	---	10,118	21,835
05/25/2004 *	0	7	---	21	68	16,268	14,801	4,381	129	34,029	6,911	1,548
05/26/2004 *	1	2	6	36	139	15,424	20,600	3,150	125	---	7,595	15,656
05/27/2004 *	0	0	10	15	103	8,132	9,600	2,900	79	19,641	17,130	19,283
05/28/2004 *	0	1	2	94	86	9,991	5,407	6,200	87	---	15,371	18,563
05/29/2004 *	---	---	---	---	---	15,447	9,149	7,324	44	17,920	13,954	19,586
05/30/2004 *	---	---	---	---	---	3,587	6,076	4,106	36	---	11,097	16,425
05/31/2004 *	---	---	7	---	54	5,679	9,403	1,516	21	18,989	9,359	11,129
06/01/2004 *	0	---	4	---	272	3,286	8,678	1,206	23	---	8,645	16,098
06/02/2004	---	---	20	---	1,216	2,974	4,864	882	39	18,405	7,710	11,712
06/03/2004 *	---	---	---	---	319	2,945	2,085	646	81	---	5,033	13,265

Total:	1	23	49	258	2,335	210,748	164,375	63,292	1,219	167,448	232,612	250,826
# Days:	6	6	7	6	10	14	14	14	14	7	14	14
Average:	0	4	7	43	234	15,053	11,741	4,521	87	23,921	16,615	17,916
YTD	827	29,063	72,960	9,904	3,881	5,129,860	2,619,850	907,625	11,865	1,017,224	936,764	1,364,835

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)
05/21/2004 *	26	0	0	1	35	0	0	478	34	5,545	810	8,697
05/22/2004 *	---	---	---	---	---	0	0	628	58	---	892	6,472
05/23/2004 *	---	---	---	---	---	299	100	1,445	30	5,555	1,047	8,192
05/24/2004 *	---	0	---	0	73	149	200	2,162	30	---	1,189	10,190
05/25/2004 *	64	0	---	1	38	149	100	502	83	10,870	707	583
05/26/2004 *	55	0	0	0	33	448	100	100	57	---	446	12,351
05/27/2004 *	5	0	0	0	36	149	200	250	95	17,879	1,235	12,165
05/28/2004 *	32	0	0	2	37	671	100	280	29	---	2,263	18,092
05/29/2004 *	---	---	---	---	---	9,444	109	458	48	41,969	3,164	18,727
05/30/2004 *	---	---	---	---	---	4,219	225	432	53	---	6,855	14,460
05/31/2004 *	---	---	0	---	57	3,651	0	379	55	26,122	5,481	14,067
06/01/2004 *	23	---	0	---	44	1,547	0	585	270	---	8,164	10,796
06/02/2004	---	---	0	---	35	700	413	653	106	47,982	8,536	18,882
06/03/2004 *	---	---	---	---	0	924	2,382	714	281	---	6,563	16,213

Total:	205	0	0	4	388	22,350	3,929	9,066	1,229	155,922	47,352	169,887
# Days:	6	6	7	6	10	14	14	14	14	7	14	14
Average:	34	0	0	1	39	1,596	281	648	88	22,275	3,382	12,135
YTD	487	0	27	80	921	26,811	6,566	41,855	3,019	181,566	49,461	2,117,828

* 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)
05/21/2004	*	0	0	0	0	5	13,582	1,800	263	1,208	5,681	5,635	23,687
05/22/2004	*	---	---	---	---	---	21,791	1,000	32	1,254	---	3,714	28,823
05/23/2004	*	---	---	---	---	---	12,687	1,300	238	1,512	2,907	9,616	53,726
05/24/2004	*	---	0	---	0	2	20,747	4,700	45	1,337	---	9,439	27,508
05/25/2004	*	0	0	---	0	2	9,552	10,400	364	1,353	4,012	3,426	2,873
05/26/2004	*	0	0	0	0	0	14,179	6,000	450	1,259	---	3,120	18,710
05/27/2004	*	0	0	0	0	0	6,568	4,400	350	820	5,375	3,731	22,067
05/28/2004	*	0	0	0	0	2	5,524	1,900	860	1,244	---	5,018	10,585
05/29/2004	*	---	---	---	---	---	4,722	11,434	2,174	1,193	7,685	5,294	8,546
05/30/2004	*	---	---	---	---	---	2,953	12,930	1,945	662	---	4,807	10,256
05/31/2004	*	---	---	0	---	0	4,259	3,606	632	667	8,120	8,524	4,329
06/01/2004	*	0	---	0	---	0	1,932	3,598	585	316	---	2,264	5,841
06/02/2004		---	---	0	---	0	1,399	6,094	425	677	6,780	2,685	4,738
06/03/2004	*	---	---	---	---	0	289	5,074	1,157	616	---	5,434	2,494

Total:		0	0	0	0	11	120,184	74,236	9,520	14,118	40,560	72,707	224,183
# Days:		6	6	7	6	10	14	14	14	14	7	14	14
Average:		0	0	0	0	1	8,585	5,303	680	1,008	5,794	5,193	16,013
YTD		0	0	0	0	45	247,014	87,470	12,673	25,147	59,115	124,692	873,918

		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)
05/21/2004	*	0	8	0	72	149	72,985	26,613	4,407	164	1,621	10,233	3,796
05/22/2004	*	---	---	---	---	---	349,702	6,302	2,769	208	---	8,592	4,655
05/23/2004	*	---	---	---	---	---	196,268	8,902	8,741	284	2,116	21,752	5,551
05/24/2004	*	---	2	---	21	125	294,925	28,605	5,128	259	---	26,979	3,468
05/25/2004	*	0	5	---	18	121	76,567	59,403	13,276	247	1,871	10,483	157
05/26/2004	*	0	0	102	28	27	50,896	37,805	3,500	241	---	5,493	4,909
05/27/2004	*	2	7	197	19	17	58,507	35,905	2,650	129	1,601	6,478	4,575
05/28/2004	*	0	5	12	162	61	52,729	14,303	9,820	183	---	7,155	1,905
05/29/2004	*	---	---	---	---	---	43,933	68,291	21,114	215	1,203	5,722	1,581
05/30/2004	*	---	---	---	---	---	26,159	47,694	10,590	193	---	4,744	2,391
05/31/2004	*	---	---	34	---	32	54,762	34,230	5,685	125	4,814	5,477	1,635
06/01/2004	*	0	---	48	---	17	18,166	36,627	6,730	65	---	3,842	1,329
06/02/2004		---	---	76	---	16	9,271	44,567	4,609	66	2,153	2,478	1,003
06/03/2004	*	---	---	---	---	4	8,489	16,907	6,227	64	---	3,294	510

Total:		2	27	469	320	569	1,313,359	466,154	105,246	2,443	15,379	122,722	37,465
# Days:		6	6	7	6	10	14	14	14	14	7	14	14
Average:		0	5	67	53	57	93,811	33,297	7,518	175	2,197	8,766	2,676
YTD		192	2,106	34,978	1,857	8,416	5,724,505	1,794,156	316,937	10,138	116,088	242,057	143,923

* See sampling comments

<http://www.fpc.org/currentDaily/smpcomments.htm>

Two-Week Summary of Passage Indices

COMBINED SOCKEYE													
	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)	
5/21/2004	*	0	0	0	0	2	448	100	102	42	18,166	7,627	6,874
5/22/2004	*	---	---	---	---	---	747	200	30	53	---	6,677	7,151
5/23/2004	*	---	---	---	---	---	597	0	6	93	8,380	10,728	10,285
5/24/2004	*	---	0	---	0	1	298	100	3	46	---	13,235	7,000
5/25/2004	*	0	0	---	0	1	0	800	42	54	22,920	7,304	449
5/26/2004	*	0	0	0	0	0	299	400	0	44	---	4,194	4,690
5/27/2004	*	0	0	0	0	0	149	100	50	30	15,000	5,390	7,403
5/28/2004	*	0	0	0	0	0	167	100	60	49	---	5,113	5,410
5/29/2004	*	---	---	---	---	---	205	0	57	36	26,343	8,825	6,313
5/30/2004	*	---	---	---	---	---	0	225	0	22	---	9,718	7,742
5/31/2004	*	---	---	0	---	1	0	0	126	23	23,074	8,977	4,616
6/01/2004	*	1	---	0	---	2	0	317	73	3	---	12,830	7,009
6/02/2004		---	---	0	---	0	0	0	0	30	17,605	8,467	7,225
6/03/2004	*	---	---	---	---	1	0	0	34	56	---	7,316	7,596
total:		1	0	0	0	8	2,910	2,342	583	581	131,488	116,401	89,763
Days:		6	6	7	6	10	14	14	14	14	7	14	14
Average:		0	0	0	0	1	208	167	42	42	18,784	8,314	6,412
TD		2	9	0	0	25	5,892	3,866	878	6,788	202,103	144,364	103,928

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), sub-yearling 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

- VTB (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)}

DA 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.
 GR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
 GS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
 MN 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:

6/4/04 8:06 AM

05/22/04 TO 06/04/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	16,922	201,320	115,623	2,836	1,266,902	1,603,603
	Sum of NumberBarged	16,231	179,943	105,772	2,548	1,126,306	1,430,800
	Sum of NumberBypassed	646	20,561	9,655	278	139,896	171,036
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	45	816	196	10	700	1,767
LGS	Sum of NumberCollected	3,800	161,454	71,000	2,300	448,382	686,936
	Sum of NumberBarged	3,798	161,135	70,899	2,299	447,811	685,942
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	2	321	4	1	571	899
LMN	Sum of NumberCollected	8,655	61,382	8,693	533	98,295	177,558
	Sum of NumberBarged	8,643	60,160	8,692	533	97,580	175,608
	Sum of NumberBypassed	0	1,022	0	0	503	1,525
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	12	200	1	0	212	425
MCN	Sum of NumberCollected	93,243	96,229	23,856	76,838	8,974	299,140
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	93,044	95,808	23,836	76,469	8,932	298,089
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	199	421	20	369	42	1,051
Total Sum of NumberCollected		122,620	520,385	219,172	82,507	1,822,553	2,767,237
Total Sum of NumberBarged		28,672	401,238	185,363	5,380	1,671,697	2,292,350
Total Sum of NumberBypassed		93,690	117,391	33,491	76,747	149,331	470,650
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		258	1,758	221	380	1,525	4,142

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/4/04 8:06 AM

TO: 06/04/04

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	20,416	4,804,226	241,014	5,683	5,580,842	10,652,181
	Sum of NumberBarged	19,475	4,586,116	227,185	5,187	5,275,042	10,113,005
	Sum of NumberBypassed	740	151,020	13,352	285	287,303	452,700
	Sum of NumberTrucked	129	43,991	220	181	15,496	60,017
	Sum of TotalProjectMortalities	72	23,099	257	30	3,001	26,459
LGS	Sum of NumberCollected	6,228	2,534,527	84,234	3,815	1,748,216	4,377,020
	Sum of NumberBarged	6,208	2,531,168	84,126	3,812	1,745,766	4,371,080
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	2,096	0	2	1,333	3,431
	Sum of TotalProjectMortalities	20	1,329	11	1	1,116	2,477
LMN	Sum of NumberCollected	34,049	837,206	11,655	825	261,880	1,145,615
	Sum of NumberBarged	34,025	828,111	11,653	825	258,638	1,133,252
	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	14	1,422	2	0	513	1,951
MCN	Sum of NumberCollected	108,169	619,842	34,529	117,501	70,245	950,286
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	107,904	607,545	34,500	116,955	69,608	936,512
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	266	2,685	29	546	241	3,767
Total Sum of NumberCollected		168,862	8,795,801	371,432	127,824	7,661,183	17,125,102
Total Sum of NumberBarged		59,708	7,945,395	322,964	9,824	7,279,446	15,617,337
Total Sum of NumberBypassed		108,644	764,886	47,852	117,240	359,036	1,397,658
Total Sum of NumberTrucked		139	47,439	220	183	17,433	65,414
Total Sum of TotalProjectMortalities		372	28,535	299	577	4,871	34,654

Cumulative Adult Passage at Mainstem Dams Through: 06/03

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	4,477	620	5,825	597	1,567	166	0	0	0	0	0	0
TDA	130,226	7,717	131,207	11,522	86,560	5,125	0	0	0	0	0	0	0	0	0	0	0	0
JDA	107,677	6,114	99,466	9,965	70,795	3,941	0	0	0	0	0	0	0	0	0	0	0	0
MCN	101,811	6,338	91,153	10,269	62,593	3,802	0	0	0	0	0	0	0	0	0	0	0	0
IHR	71,802	3,798	71,100	6,798	40,455	2,296	0	0	0	0	0	0	0	0	0	0	0	0
LMN	64,653	2,959	60,430	5,806	37,528	2,112	0	0	0	0	0	0	0	0	0	0	0	0
LGS	55,180	2,429	57,231	5,340	35,604	2,093	0	0	0	0	0	0	0	0	0	0	0	0
LWG	61,504	3,041	54,972	5,703	33,411	2,011	0	0	0	0	0	0	0	0	0	0	0	0
PRD	11,335	876	16,876	562	13,613	322	0	0	0	0	0	0	0	0	0	0	0	0
RIS	8,436	89	15,605	610	10,013	454	0	0	0	0	0	0	0	0	0	0	0	0
RRH	3,451	108	3,548	339	3,533	107	0	0	0	0	0	0	0	0	0	0	0	0
WEL	2,255	43	1,553	86	1,770	73	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.	10-Yr Avg.		Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2004	2003	Avg.	2004	2003	Avg.	2004
BON	0	0	0	0	0	0	600	22	43	6,511	4,644	4,670	1,624
TDA	0	0	0	0	0	0	282	16	18	1,938	1,150	1,274	760
JDA	0	0	0	0	0	0	185	16	10	2,136	1,608	3,451	998
MCN	0	0	0	0	0	0	25	4	1	1,744	1,474	1,772	694
IHR	0	0	0	0	0	0	0	0	0	1,815	1,623	1,730	777
LMN	2	0	0	0	0	0	0	0	0	1,609	1,918	1,791	861
LGS	0	0	0	0	0	0	0	0	0	1,899	2,111	1,863	1,050
LWG	0	0	0	0	0	0	0	0	0	7,630	15,803	5,924	2,630
PRD	0	0	0	0	0	0	0	0	14	104	9	3	0
RIS	0	0	0	0	0	0	0	8	0	148	34	21	0
RRH	0	0	0	0	0	0	0	0	0	284	47	50	0
WEL	0	0	0	0	0	0	0	0	0	70	21	8	51

MCN, RIS, RRH, WEL are through 6/2.

**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: 06/04/04

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

