Fish Passage Center

Weekly Report #05 - 15

June 17, 2005

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Highlights:

- **Since April 3rd, 2005, flows at Lower Granite have averaged 67.1 Kcfs; over the last week flows have averaged 50.0 Kcfs.**

- **Flows at McNary Dam have averaged 195.5 Kcfs since April 10th and flows at Priest Rapids have averaged 117.7 Kcfs; over the last week flows have averaged 183.3 Kcfs at McNary and 128.0 at Priest Rapids.**

- **Grand Coulee Reservoir is currently at an elevation of 1283.9 feet (6-16-05), 6.1 feet from full.**

- **Hungry Horse, Dworshak, and Brownlee are all less than 1.2 feet from full.**

- **Spill at The Dalles Dam averaged only 37% of average daily flow as compared to the 40% specified in the Biological Opinion due to facility restrictions.**

- **Judge Redden's June 10, 2005 opinion in NWF v. NMFS granted the spill portion of the National Wildlife Federation's requested injunctive relief.**

Summary of Events:

Water Supply: Precipitation has been above average over the first thirteen days of June at most Columbia Basin locations. Of the sites in Table 1, ten recorded precipitation that was greater than average over the first thirteen days of June. Over the entire water year, precipitation remains slightly below average at most locations.

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

Location	Water Year 2005 June 1-13		Water Year 2005 October 1, 2004 to June 13, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.91	184	17.47	91
Snake River Above Ice Harbor	0.91	143	14.36	101
Columbia Above The Dalles	1.12	145	16.52	88
Kootenai	2.20	207	17.27	88
Clark Fork	1.33	159	11.16	85
Flathead	3.29	288	17.52	101
Pend Oreille/Spokane	0.99	105	22.38	86
Central Washington	0.27	97	6.03	79
Snake River Plain	0.67	161	11.44	126
Salmon/Boise/ Payette	0.56	89	13.57	82
Clearwater	1.17	109	21.9	86
SW Washington Cascades/Cowlitz	1.08	84	46.4	73
Willamette Valley	1.57	161	37.78	69

Snowpack in the Columbia River for basins above the Snake River confluence is 27% of average, for Snake River Basins the average snowpack 20% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack 14% of average.

Water Supply Forecasts have increased between 1% and 15% of average between the May Final and June Final Forecasts. Table 2 displays the May Final and June Final runoff volume forecasts for multiple reservoirs along with runoff volumes that actually occurred in 2001 for comparison. All forecasts are currently above the actual runoff volumes recorded in 2001.

Table 2. May Final and the June Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins along with 2001 actual runoff volumes over the same periods.

	May Final		June Final		Actual 2001
Location	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)	Actual Runoff Volume (Kaf)
The Dalles (Jan-July)	70	74700	74	79800	58200
Grand Coulee (Jan-July)	83	52200	84	53000	37400
Libby Res. Inflow, MT (Jan-July)	78	4910	85	5350	3341
Hungry Horse Res. Inflow, MT (Jan-July)	77	1720	75	1660	1300
Lower Granite Res. Inflow (Apr- July)	55	11800	68	14600	10300
Brownlee Res. Inflow (Apr-July)	39	2440	54	3410	1970*
Dworshak Res. Inflow (Apr-July)	60	1670	68	1800	1470

The Spring Flow Objective period started in the Lower Snake River on April 3rd, 2005. Based on the April Final Forecast at Lower Granite (Apr-July), the flow objective is 85 Kcfs at Lower Granite through June 20th. Since April 3rd, 2005, flows at Lower Granite have averaged 67.1 Kcfs; over the last week flows have averaged 50.0 Kcfs.

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. Flows at McNary Dam have averaged 195.5 Kcfs since April 10th and flows at Priest Rapids have averaged 117.7 Kcfs; over the last week flows have averaged 183.3 Kcfs at McNary and 128.0 at Priest Rapids.

Grand Coulee Reservoir is currently at an elevation of 1283.9 feet (June 16th, 2005 midnight) and has refilled 5.3 feet in the last week.

The Libby Reservoir is currently at elevation 2451.3 feet and refilled 2.7 feet over the last week. Outflows at Libby are currently 24.8 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3558.8 feet and refilled approximately 0.5 feet last week. Outflows at Hungry Horse have ranged 4.3 and 9.2 Kcfs.

The Dworshak reservoir is currently at an elevation of 1599.0 feet refilled 0.5 feet over the last week. Outflows at Dworshak are currently 5.1 Kcfs.

The Brownlee Reservoir was at an elevation of 2076.3 feet on June 16th, 2005 with outflows ranging between 7.8 and 14.5 Kcfs over the last week.

Spill: Spill at IHR was provided according to the protocol determined for RSW testing. Spill averaged 69% of daily average flows over the past 7 days, and ranged from 36% to 86%.

Biological Opinion spill in the lower Columbia River was initiated at McNary and John Day dams on April 10 and at The Dalles Dam on April 11, 2005. Spill at McNary Dam averaged 37% of daily average flow and spill at John Day Dam averaged 27% of daily average flow. Spill at both McNary and John Day dams are called for during nighttime hours. Spill at The Dalles Dam is being provided via fixed spill gate openings (dogged off) and variable gate operations of spillbays 1 and 2. This past week volumes have continued to average less (37%) than the 40% specified in the Biological Opinion. . Spill at Bonneville Dam averaged 50% of average daily flow over the past week.

Judge Redden's June 10, 2005 opinion in NWF v. NMFS granted the spill portion of the National Wildlife Federation's requested injunctive relief. Spill is expected to start at Lower Granite, Little Goose, Lower Monumental, and Ice Harbor

on June 20. Spill will begin at McNary Dam on July 1. Spill will accommodate planned research projects and will not exceed the state water quality waiver standards.

A few fish with minor signs of gas bubble trauma in fins were observed in the monitoring program over the past week at Rock Island Dam.

Smolt Monitoring: Passage indices for subyearling Chinook took a big jump upward at McNary Dam and remained steady at other Lower Columbia sites, while at Rock Island and Lower Granite dams indices were steady or down compared to last week. Numbers of spring migrants decreased again this week at most SMP sites.

At Lower Granite Dam in the Lower Snake River the subyearling Chinook average passage index dropped to 33,000 this week compared to 68,000 the previous week. Passage indices for yearling Chinook and steelhead decreased significantly this past week. The daily index for yearling Chinook averaged 1,100 this week compared to 6,000 last week while steelhead indices averaged 1,900 this week compared to 6,800 last week. Sockeye indices averaged 100 this past week, while coho indices were at 180 this week.

In the Mid-Columbia, at Rock Island Dam, subyearling indices were down this week, with the weekly average index 230 compared to 330 last week. Spring migrants were captured in relatively low numbers at the site. Yearling Chinook indices averaged 70 per day compared to 50 per day last week. Steelhead averaged 26 per day this week -- identical to last week. Coho were down to 40 per day this week compared to 50 per day last week and only a few sockeye were captured at the site this past week.

At McNary Dam indices for subyearlings increased substantially this week with the index averaging 148,000 per day compared to 57,000 per day last week. McNary saw a big one day index on June 16 of 430,000. As at most other sites, the spring migrant indices declined again this week across the board at McNary Dam. The yearling Chinook average index was down to 5,000 this week, while steelhead indices averaged 250 per day this week compared to 700 per day the previous week. The coho indices which were at 3,300 per day last week, declined to 570 per day this week. Sockeye indices were also down this week averaged 300 per day.

John Day Dam and Bonneville Dam also saw decreasing indices for all spring migrants while subyearling indices remained relatively steady at 9,000 per day at John Day on average and indices for subs at Bonneville averaged 13,000 this past week.

Hatchery Releases - Releases of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam are estimated near 84.1 million for the 2005 migration season. The Zone Release Report below summarizes "planned" hatchery releases from State, Federal or Tribal hatcheries or acclimation ponds for this year's migration. These totals will be updated and finalized through the year.

Hatchery Zone Release Report

	Friday 17-Jun-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,907,703	12,656,000	21,598,277	39,161,980
Spring Chinook	9,440,350	4,633,185	5,173,723	19,247,258
Summer Chinook	2,348,012	3,410,357		5,758,369
Coho	816,300	2,462,395	5,149,846	8,428,541
Sockeye	209,046	592,459		801,505
Summer Steelhead	8,908,004	1,167,754	522,206	10,597,964
Winter Steelhead			118,300	118,300
Total	26,629,415	24,922,150	32,562,352	84,113,917

Hatcheries in the Columbia/Snake River basin released about 14.6 million fish during the past two weeks with approximately 12 million fish to be released during the upcoming two weeks. See the Hatchery Release Summary Tables for further details.

Snake River - Yearling Chinook, coho, sockeye and steelhead salmon releases from hatcheries in the Snake River basin are completed for the 2005 season. All subyearling fall Chinook have been released for the season.

Mid-Columbia - All yearling spring and summer

Chinook, coho, and steelhead juvenile migrants were released from hatcheries during this spring for 2005. The first group of subyearling Chinook from Wells Hatchery was released on May 18th with the remaining subyearling summer Chinook scheduled for June and early July from Wells and Turtle Rock facilities. All subyearling fall Chinook in the Yakima River basin have been released to date. Priest Rapids Hatchery began releasing their first pond of fish on Thursday June 9 with an every other day release for the 5-ponds. Total release will be near 6.7 million for the year. Ringold Hatchery subyearling fall Chinook were released mid-week with near 3.5 million on hand.

Lower Columbia - Yearling Bright fall and Tule fall Chinook, yearling and subyearling spring Chinook, coho salmon, and steelhead hatchery releases are completed for the season. Subyearling fall Chinook from the Umatilla River were released in mid-May with subyearling fall Chinook scheduled for release in the Klickitat River (initial 1.9 million on June 13-15 and remaining 2.1 million on the 16-20. Subyearling fall Chinook from Little White Salmon Hatchery will be split between on-site release of 1.5 million on June 23 and the remaining 550k released at Williard Hatchery, upstream in the Little White Salmon River from June 24 through the next week.

Juvenile Sockeye were released mainly last summer and fall; the majority of these fish reside in the lake and then migrate from the lake and to the ocean the next spring (2005). In the Snake River basin, about 80,000 juvenile sockeye were released in the upper Salmon River in early May. A release of juvenile sockeye from the Canadian fisheries into Lake Skaha (located above Lake Osoyoos) was completed last summer with the 2006 migrant Sockeye released three weeks ago in Lake Skaha.

Adult Fish Passage -At Bonneville Dam, traditional counting of adult summer Chinook began on June 1st. The weekly count averaged 1,926 fish/day through the week ending June 16th with the season total of 24,500. This total is about 82% and 144% of the respective 2004 and 10-year average. The peak daily count was 2,471 on June 15th, with the low count of 1,597 on June 12th. The adult summer Chinook count at The Dalles Dam was 17,952 and these fish appear to be moving upstream at a consistent rate. Above McNary Dam, adult Chinook counts into the Snake River ranged between 300-600 for the week at Ice Harbor Dam while in the Mid-Columbia River, daily counts ranged between 200 and 1,100 at Priest Rapids Dam. In the Yakima River, about 5,000 adult spring Chinook were tallied at the Prosser site through June 6. The majority of PIT tagged fish detected at Bonneville Dam are primarily from the mid-Columbia River - different release sites from the Survival Studies that were conducted in the Mid-Columbia River in recent years. As a point of interest, there are fairly good numbers of 4-ocean fish in the mix of adult Summer Chinook bound for the Mid-Columbia based on the PIT tag returns. There was one PIT tagged summer Chinook that was marked as a juvenile (subyearling fish) at Rock Island Dam in 2000, migrated past McNary Dam on August 2000 and then returned on June 15th of 2005; spending 5-years in the ocean.

At Bonneville Dam, steelhead counts continued to rise through the week with the average daily count for the week of 258 per day. These June steelhead will migrate to the mid-Columbia tributaries above McNary Dam, some to the Snake River, with at least one half of the fish remaining in the Bonneville Pool tributaries.

Adult sockeye salmon continue passing Bonneville with passage increasing at the upstream projects in the Mid-Columbia and at present, even three have been counted at Ice Harbor Dam in the Snake River. The count at Bonneville through June 16 is 8,082, about 37% and 125% of the respective 2004 and 10-year average count through June 16th.

Approximately 2.6 million adult Shad have been counted at Bonneville Dam and a huge 3.9 million upstream at The Dalles Dam this season.

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

	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/03/05	120.6	0.1	118.2	0.0	122.0	9.8	117.8	30.6	120.2	26.1	120.1	9.0	122.0	75.2
06/04/05	86.0	0.2	86.4	0.0	92.0	10.7	95.5	0.0	99.2	20.1	112.5	9.1	116.9	72.1
06/05/05	60.7	0.1	67.3	0.0	75.8	7.0	76.9	0.0	83.3	16.5	111.5	8.5	112.1	69.2
06/06/05	112.8	0.1	111.5	0.0	114.0	8.5	110.5	30.3	109.0	26.3	97.3	8.1	100.4	62.0
06/07/05	123.1	0.1	117.0	0.0	123.4	8.5	123.9	31.5	127.3	24.9	110.6	9.0	109.1	67.3
06/08/05	127.1	0.1	129.2	0.0	137.1	8.8	132.9	0.2	135.0	24.0	136.5	9.4	139.5	85.8
06/09/05	119.4	0.1	122.6	0.0	130.3	9.0	129.9	0.0	133.8	24.1	144.7	9.2	150.4	92.4
06/10/05	127.4	0.1	127.5	0.0	134.1	8.8	131.6	11.5	134.9	23.9	136.8	8.8	140.2	86.4
06/11/05	85.7	0.1	90.1	0.0	97.9	8.2	97.5	8.5	102.9	18.7	114.2	8.9	118.3	73.3
06/12/05	71.2	0.1	68.4	0.0	87.5	7.0	90.0	7.3	92.6	15.2	116.3	8.5	115.7	71.4
06/13/05	134.4	0.1	138.4	0.0	131.6	8.5	121.2	11.7	120.6	26.7	125.2	7.8	130.2	80.3
06/14/05	134.6	0.1	130.0	0.0	140.2	9.0	136.5	12.0	139.7	27.3	112.1	8.4	108.6	67.0
06/15/05	133.5	0.2	131.9	0.0	139.0	8.8	134.4	11.7	137.5	26.4	134.3	9.2	133.8	82.8
06/16/05	142.7	0.2	140.9	0.0	148.1	9.2	141.0	11.2	144.0	26.0	146.6	8.6	148.9	91.7

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/03/05	7.4	0.0	20.4	18.5	83.8	1.6	84.7	0.0	89.7	2.7	89.1	27.6
06/04/05	7.4	0.0	19.0	18.8	76.5	0.0	75.2	0.0	78.6	2.3	80.7	25.8
06/05/05	7.4	0.0	18.5	22.6	74.3	0.0	73.8	0.0	75.0	3.2	73.7	23.2
06/06/05	7.4	0.0	17.6	21.7	74.0	11.0	72.8	0.0	77.3	0.8	77.3	61.8
06/07/05	7.2	0.0	16.7	19.8	74.1	16.8	70.6	0.0	71.9	0.0	73.9	66.6
06/08/05	5.3	0.0	14.3	14.3	62.7	0.0	62.0	0.0	64.0	0.0	64.2	30.6
06/09/05	5.3	0.0	15.0	12.5	59.9	2.9	60.7	0.0	62.8	0.0	63.3	23.0
06/10/05	5.3	0.0	13.2	11.9	54.1	0.0	54.1	0.0	56.5	0.0	57.8	44.2
06/11/05	5.3	0.0	12.9	11.2	51.6	0.0	50.4	0.0	51.6	0.0	50.7	43.1
06/12/05	5.3	0.0	12.7	12.5	50.3	0.0	49.0	0.0	51.0	0.0	53.3	25.3
06/13/05	2.2	0.0	12.4	15.4	50.6	0.0	51.2	0.0	51.9	0.0	50.9	18.5
06/14/05	3.0	0.0	10.9	12.6	50.4	0.0	51.5	0.0	53.7	0.0	53.3	37.5
06/15/05	5.2	0.0	10.4	8.8	48.3	0.0	47.3	0.0	49.6	0.0	52.6	45.0
06/16/05	5.1	0.0	---	---	44.8	0.0	42.8	0.0	44.6	0.0	45.0	37.5

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
06/03/05	218.8	102.6	212.6	59.9	213.5	69.5	220.7	95.8	18.5	94.9
06/04/05	225.4	98.1	229.6	55.9	228.1	67.8	216.3	96.1	18.4	90.3
06/05/05	188.7	85.3	163.6	51.8	163.6	63.2	192.8	96.9	0.0	84.5
06/06/05	195.0	63.6	203.6	51.7	202.5	65.7	204.7	97.6	8.9	86.8
06/07/05	183.0	70.7	174.8	44.1	170.8	64.0	187.7	98.6	0.0	77.6
06/08/05	186.0	79.7	184.9	47.4	173.6	64.3	183.1	96.9	0.0	74.7
06/09/05	205.3	91.4	203.0	54.5	205.1	69.8	208.5	96.0	12.7	88.3
06/10/05	204.2	85.7	187.0	53.7	182.7	66.4	196.8	92.1	3.5	89.7
06/11/05	195.8	78.6	189.2	52.6	195.9	69.5	196.9	88.7	5.4	91.3
06/12/05	173.9	61.1	164.0	46.0	158.5	62.1	182.7	90.5	0.0	80.7
06/13/05	168.9	54.6	164.1	43.4	163.9	63.6	175.9	94.3	0.1	70.0
06/14/05	175.3	67.1	175.1	48.8	177.1	66.3	188.7	94.9	0.0	82.3
06/15/05	179.7	63.2	189.3	45.6	185.2	62.9	177.5	95.0	0.0	71.0
06/16/05	185.0	68.0	172.0	40.5	166.9	62.1	186.7	95.6	0.0	79.6

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											
	06/05/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/09/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/13/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	06/07/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/11/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/14/05	Chinook + Steelhead	52	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	06/09/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	06/13/05	Chinook + Steelhead	69	3	3	4.34%	0.00%	3	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary
From: 6/3/2005 to 06/16/05

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	FA	2005	4,090,000	06-13-05	06-20-05	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	176,000	05-16-05	06-10-05	Dworshak Hatchery	Clearwater River M F
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2005	6,700,000	06-09-05	06-18-05	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	FA	2005	3,500,000	06-15-05	06-16-05	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2005	235,000	06-15-05	06-15-05	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					**14,701,000**				
Grand Total					**14,701,000**				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary
From: 6/17/2005 to 6/30/2005

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
U.S. Fish and Wildlife Service	**Little White Salmon NFH**	CH0	FA	2005	553,000	06-24-05	06-30-05	Willard Hatchery	Little White Salmon River
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2005	1,471,000	06-23-05	06-23-05	Little White Salmon Hatchery	Little White Salmon River
U.S. Fish and Wildlife Service Total					**2,024,000**				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2005	374,000	06-20-05	06-30-05	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2005	450,000	06-20-05	06-30-05	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	FA	2005	4,090,000	06-13-05	06-20-05	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2005	6,700,000	06-09-05	06-18-05	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					**11,614,000**				
Grand Total					**13,638,000**				

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

	Hungry H. Dnst				Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/3	---	---	---	0	117	119	120	24	111	111	111	24	109	109	111	24	108	109	110	24
6/4	---	---	---	0	116	119	120	24	111	112	112	24	109	110	111	24	109	109	110	24
6/5	---	---	---	0	118	119	119	24	111	112	112	24	108	109	110	24	109	109	110	24
6/6	---	---	---	0	118	120	121	24	111	111	112	24	109	109	110	24	109	109	109	24
6/7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/8	---	---	---	0	119	121	122	24	112	112	112	24	108	109	112	24	109	109	109	24
6/9	---	---	---	0	125	126	126	24	112	112	112	24	108	109	111	24	108	109	109	24
6/10	---	---	---	0	125	126	127	24	112	113	113	24	109	110	111	24	109	110	110	24
6/11	---	---	---	0	124	125	127	24	113	113	114	24	109	109	110	24	109	110	110	24
6/12	---	---	---	0	123	124	125	24	113	113	113	24	108	109	110	24	109	109	109	23
6/13	---	---	---	0	121	122	125	24	113	113	113	24	109	110	111	24	109	109	109	24
6/14	---	---	---	0	120	121	124	24	114	114	115	24	109	110	112	24	109	110	110	24
6/15	---	---	---	0	121	123	125	24	113	114	114	24	110	110	111	24	109	110	110	24
6/16	---	---	---	0	120	122	123	24	114	114	115	23	111	112	112	21	110	111	112	22

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	Chief J. Dnst				Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/3	109	109	110	23	108	108	109	15	110	110	111	15	111	112	112	24	114	115	117	24
6/4	109	110	111	24	108	109	110	24	112	113	115	24	111	112	112	24	112	112	113	24
6/5	109	110	111	23	109	111	112	24	116	120	120	24	111	111	112	24	111	111	112	24
6/6	108	109	109	22	110	110	111	20	119	119	119	20	110	111	111	24	113	114	115	24
6/7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/8	109	109	110	23	109	109	109	24	109	109	109	24	109	109	109	24	109	110	112	24
6/9	108	108	109	24	109	110	110	24	109	110	110	24	109	109	110	24	109	110	110	24
6/10	109	110	110	24	109	109	110	22	110	110	111	22	110	111	111	24	111	111	112	24
6/11	110	110	111	24	109	110	111	24	110	110	111	24	110	111	111	24	111	111	111	24
6/12	110	111	111	24	108	109	110	24	109	109	110	24	109	109	110	24	110	110	110	22
6/13	109	110	111	22	108	109	109	24	109	109	110	24	108	108	108	24	109	109	109	24
6/14	110	110	111	20	108	109	109	24	109	109	110	24	109	109	109	24	110	110	110	24
6/15	109	110	111	23	109	109	110	24	109	110	110	24	109	109	110	24	110	110	111	24
6/16	111	111	112	22	110	110	110	20	111	111	112	20	111	112	112	24	111	111	111	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

	Rock Island				Rock I. Tlwr				Wanapum				Wanapum Tlwr				Priest Rapids			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/3	112	113	115	24	117	118	119	24	109	109	109	24	111	114	117	24	109	110	111	24
6/4	112	112	113	24	117	117	119	24	109	110	110	24	111	114	116	24	109	111	113	24
6/5	110	110	111	24	115	117	119	24	110	110	111	24	112	114	116	24	110	111	112	24
6/6	110	112	114	24	115	117	117	24	110	111	113	24	113	114	116	24	110	111	113	24
6/7	---	---	---	0	---	---	---	0	110	111	112	24	113	115	117	24	111	112	113	24
6/8	109	110	111	24	115	116	119	24	109	109	110	24	112	114	117	24	111	113	115	24
6/9	108	109	109	24	114	115	117	24	111	112	113	24	113	115	116	24	112	114	115	24
6/10	109	110	111	24	114	115	116	24	110	110	111	24	113	114	116	24	112	113	115	24
6/11	110	110	111	24	114	115	116	24	108	109	110	24	111	113	116	24	109	110	111	24
6/12	108	109	110	24	113	114	115	24	---	---	---	0	---	---	---	0	---	---	---	0
6/13	110	110	110	24	113	113	113	24	---	---	---	0	---	---	---	0	---	---	---	0
6/14	109	110	110	24	114	115	116	24	---	---	---	0	---	---	---	0	---	---	---	0
6/15	109	110	110	24	114	115	116	24	---	---	---	0	---	---	---	0	---	---	---	0
6/16	110	111	111	24	115	116	116	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

	Priest R. Dnst				Pasco				Dworshak				Clrwtr-Peck				Anatone			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/3	116	117	117	24	110	112	113	24	99	100	100	24	101	101	102	24	104	105	106	24
6/4	116	116	117	24	111	112	113	24	100	100	101	23	102	103	104	23	104	105	106	24
6/5	116	116	116	24	110	110	112	24	100	100	100	24	100	101	102	24	103	104	104	24
6/6	115	116	116	24	108	110	110	24	99	100	100	24	101	102	102	24	103	103	104	24
6/7	115	116	117	24	109	109	110	24	99	100	100	24	101	101	102	24	103	104	105	24
6/8	117	118	118	24	110	112	112	24	99	100	101	24	101	102	103	24	103	104	105	24
6/9	118	118	119	24	112	114	114	24	100	100	101	24	101	102	103	24	103	104	104	24
6/10	118	119	119	24	113	113	115	24	100	100	101	24	101	102	103	24	104	104	105	24
6/11	117	117	118	24	111	111	112	24	99	100	101	24	101	102	102	24	103	104	105	24
6/12	---	---	---	0	108	108	109	24	99	99	99	24	100	100	101	24	102	103	103	24
6/13	---	---	---	0	107	107	108	24	100	101	102	24	100	101	102	24	103	104	105	24
6/14	---	---	---	0	106	107	107	24	101	102	104	24	101	101	102	24	103	104	104	24
6/15	---	---	---	0	103	104	104	24	100	101	102	24	101	102	103	24	103	104	105	24
6/16	---	---	---	0	99	100	100	24	101	102	107	24	101	102	103	24	103	104	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

	Clrwtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/3	101	101	103	16	102	103	103	24	102	103	106	24	103	104	104	24	102	103	103	24
6/4	103	104	105	23	103	103	104	24	102	103	103	24	103	104	104	24	103	103	104	24
6/5	101	102	102	24	104	104	104	24	103	103	103	24	104	104	105	24	103	104	104	24
6/6	101	103	103	24	103	104	104	24	107	108	110	24	103	103	103	24	102	102	102	24
6/7	102	103	103	24	103	103	104	24	109	114	118	24	102	102	103	24	102	102	102	24
6/8	102	104	104	24	103	104	106	24	101	102	102	24	102	103	103	24	102	102	102	24
6/9	102	104	105	24	104	105	106	24	103	105	107	24	104	105	106	24	104	105	105	24
6/10	103	104	106	24	103	104	104	24	102	102	103	24	106	108	108	24	107	108	108	24
6/11	102	103	104	24	103	104	104	24	102	102	103	24	106	107	107	24	105	105	107	24
6/12	101	102	103	24	103	103	103	24	102	102	103	24	104	104	105	24	103	103	104	24
6/13	102	104	105	24	103	104	105	24	102	102	102	24	103	103	104	24	102	103	103	24
6/14	102	103	105	24	103	103	103	24	102	102	102	24	103	104	104	24	102	103	104	24
6/15	103	104	106	24	103	104	105	24	103	104	113	24	103	103	105	24	103	103	106	24
6/16	102	104	105	24	106	107	108	24	103	104	105	24	104	105	106	24	104	104	105	24

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

	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/3	103	103	104	24	105	108	111	24	105	105	106	24	112	112	113	24	109	109	110	24
6/4	102	102	102	24	104	107	109	24	104	104	105	24	112	113	113	24	110	112	113	24
6/5	102	102	102	24	106	108	114	24	104	104	105	24	111	112	112	24	108	108	109	24
6/6	102	102	102	24	103	103	108	24	102	103	103	24	116	118	119	24	107	108	109	24
6/7	102	102	102	24	102	103	103	24	102	103	103	24	116	118	118	24	106	106	107	24
6/8	102	102	102	24	102	102	103	24	102	102	103	24	113	114	117	24	107	108	110	24
6/9	102	102	102	24	102	103	104	24	102	102	103	24	111	112	112	24	109	111	112	24
6/10	102	102	102	24	103	103	104	24	102	103	103	24	115	116	117	24	109	110	111	24
6/11	102	103	103	24	103	104	104	24	103	103	103	24	114	115	116	24	109	109	110	24
6/12	103	103	103	24	104	104	105	24	102	102	103	24	111	113	115	24	107	108	109	24
6/13	104	104	104	24	105	105	106	24	102	102	102	24	110	111	111	24	107	108	108	24
6/14	104	104	105	24	104	105	105	24	103	103	103	24	113	115	117	24	108	109	110	24
6/15	103	103	104	24	104	104	105	24	103	103	104	24	115	116	118	24	108	109	112	24
6/16	104	104	105	24	105	105	106	24	105	105	105	24	114	116	116	24	109	110	111	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

	McNary-Wash				McNary Tlwr				John Day				John Day Tlwr				The Dalles			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
6/3	110	110	110	24	115	119	120	24	104	104	105	23	110	117	118	24	108	111	112	23
6/4	109	110	110	24	116	117	118	24	104	104	104	23	111	117	119	24	107	109	113	23
6/5	109	109	109	24	115	116	116	24	104	104	104	23	110	116	117	24	105	107	110	23
6/6	108	108	108	24	112	117	120	24	104	104	104	23	110	116	119	24	108	111	113	23
6/7	107	108	108	24	112	116	118	24	104	104	104	23	111	117	118	24	106	108	111	23
6/8	107	107	108	24	113	118	121	24	104	104	105	23	111	117	118	24	107	109	113	23
6/9	109	109	110	24	115	120	123	24	105	105	105	23	111	116	118	24	109	112	113	23
6/10	110	110	110	24	114	118	119	24	105	105	105	23	110	116	118	24	108	110	112	23
6/11	109	110	110	24	113	117	118	24	104	104	105	23	110	116	118	24	107	110	111	23
6/12	107	107	108	24	111	116	116	24	103	103	104	23	110	116	118	24	104	106	108	23
6/13	107	107	108	24	111	115	116	24	103	104	104	23	110	116	118	24	107	109	110	23
6/14	108	108	108	24	112	116	118	24	105	105	105	23	110	116	118	24	108	110	112	23
6/15	107	108	108	24	112	116	117	24	104	105	105	23	110	116	118	24	108	111	114	23
6/16	110	110	111	24	113	116	117	24	106	106	106	23	111	116	118	24	109	111	113	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Camas\Washugal				Cascade Island			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/3	113	114	115	24	107	108	108	23	113	115	118	23	110	112	114	24	116	116	119	17
6/4	112	114	116	24	107	107	108	23	114	116	120	23	110	113	116	24	116	117	120	17
6/5	112	113	114	24	108	108	109	23	114	116	119	23	109	111	113	24	115	116	120	17
6/6	113	114	116	24	108	109	109	23	114	117	120	23	111	113	116	24	116	116	120	17
6/7	112	114	115	24	108	108	108	23	115	117	121	23	111	114	116	24	115	115	119	17
6/8	113	114	115	24	108	109	110	23	115	117	120	23	113	116	118	24	115	116	120	17
6/9	114	115	116	24	109	110	111	23	115	118	121	23	113	116	119	24	116	116	120	17
6/10	113	115	117	24	109	110	111	23	115	116	119	23	111	113	115	24	115	116	118	17
6/11	113	114	115	24	108	108	109	23	114	115	117	23	110	111	113	24	115	116	118	17
6/12	111	112	114	24	106	107	108	23	113	114	116	23	110	112	114	24	115	116	120	17
6/13	112	113	113	24	107	108	109	23	115	117	119	23	112	114	116	24	115	116	120	17
6/14	112	114	115	24	108	108	109	23	114	116	120	23	112	113	115	24	115	116	121	17
6/15	113	114	116	23	108	109	110	23	116	118	120	23	112	115	118	24	115	116	121	17
6/16	114	115	117	24	110	111	112	23	116	119	122	23	113	115	116	24	---	---	---	0

Two-Week Summary of Passage Indices

* 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)

COMBINED YEARLING CHINOOK

		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/03/2005	*	---	33	---	10	7,003	2,909	1,070	37	---	3,529	6,314
06/04/2005		---	20	---	---	11,814	3,045	1,430	4	9,047	3,621	6,071
06/05/2005	*	---	24	---	---	5,600	701	865	22	---	6,690	4,114
06/06/2005		---	30	---	---	4,009	1,701	1,264	4	19,879	5,356	3,251
06/07/2005	*	---	32	---	---	4,153	1,526	707	27	---	4,345	4,633
06/08/2005		---	24	---	---	4,840	1,200	60	84	5,005	2,856	2,504
06/09/2005	*	---	41	---	---	3,999	1,400	90	184	---	2,764	2,319
06/10/2005		---	18	---	---	1,744	800	232	259	3,406	1,360	1,985
06/11/2005	*	---	13	---	---	500	100	220	101	---	1,901	2,157
06/12/2005		---	31	---	---	750	800	252	21	6,077	1,910	1,423
06/13/2005	*	---	30	---	---	850	1,301	266	46	---	1,640	1,145
06/14/2005		---	29	---	---	2,150	300	88	47	6,559	1,487	656
06/15/2005	*	---	21	---	---	1,000	853	135	0	---	1,245	787
06/16/2005		---	---	---	---	1,325	700	140	5	4,920	718	522
Total:		**0**	**346**	**0**	**10**	**49,737**	**17,336**	**6,819**	**841**	**54,893**	**39,422**	**37,881**
# Days:		**0**	**13**	**0**	**1**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**27**	**0**	**10**	**3,553**	**1,238**	**487**	**60**	**7,842**	**2,816**	**2,706**
YTD		**43,641**	**42,756**	**5,793**	**1,729**	**5,665,115**	**2,472,256**	**704,283**	**14,771**	**1,191,154**	**1,397,954**	**1,520,928**

COMBINED SUBYEARLING CHINOOK

		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/03/2005	*	---	1	---	62	107,018	104,838	5,329	311	---	7,994	14,795
06/04/2005		---	0	---	---	67,014	86,622	11,573	430	52,115	9,899	16,632
06/05/2005	*	---	0	---	---	41,200	67,169	5,844	357	---	15,365	15,448
06/06/2005		---	0	---	---	40,288	47,576	13,791	469	63,299	5,471	15,239
06/07/2005	*	---	0	---	---	77,643	41,795	8,482	407	---	11,889	18,801
06/08/2005		---	1	---	---	84,817	61,590	7,220	143	56,432	5,444	13,793
06/09/2005	*	---	3	---	---	58,755	53,080	5,400	190	---	14,558	14,704
06/10/2005		---	0	---	---	40,012	31,744	5,172	225	22,447	8,411	14,888
06/11/2005	*	---	1	---	---	28,600	39,465	3,310	247	---	14,450	12,452
06/12/2005		---	1	---	---	26,050	71,951	9,879	264	51,876	12,648	12,727
06/13/2005	*	---	1	---	---	38,800	40,954	7,206	253	---	8,365	14,753
06/14/2005		---	0	---	---	45,300	26,608	10,399	284	87,597	4,615	14,947
06/15/2005	*	---	0	---	---	23,600	22,371	9,663	318	---	3,699	10,993
06/16/2005		---	---	---	---	18,025	18,505	8,024	84	431,093	9,036	9,037
Total:		**0**	**8**	**0**	**62**	**697,122**	**714,268**	**111,292**	**3,982**	**764,859**	**131,844**	**199,209**
# Days:		**0**	**13**	**0**	**1**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**1**	**0**	**62**	**49,794**	**51,019**	**7,949**	**284**	**109,266**	**9,417**	**14,229**
YTD		**0**	**86**	**1,224**	**1,135**	**1,505,579**	**1,044,795**	**131,544**	**8,225**	**910,046**	**184,225**	**2,010,904**

Two-Week Summary of Passage Indices

				COMBINED COHO								
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/03/2005	*	---	0	---	0	1,532	550	21	91	---	1,875	2,679
06/04/2005		---	0	---	---	815	700	0	48	2,620	2,579	4,824
06/05/2005	*	---	0	---	---	1,400	100	31	59	---	2,896	3,718
06/06/2005		---	0	---	---	401	300	62	32	6,162	2,750	2,077
06/07/2005	*	---	0	---	---	881	326	50	34	---	1,386	3,609
06/08/2005		---	0	---	---	363	100	0	56	1,158	934	2,048
06/09/2005	*	---	0	---	---	410	400	30	53	---	1,659	1,299
06/10/2005		---	0	---	---	205	250	16	128	177	680	1,338
06/11/2005	*	---	0	---	---	100	0	6	48	---	356	1,384
06/12/2005		---	0	---	---	100	0	10	17	821	703	1,502
06/13/2005	*	---	0	---	---	450	200	10	29	---	357	596
06/14/2005		---	0	---	---	150	250	28	22	1,127	280	656
06/15/2005	*	---	0	---	---	100	50	45	31	---	189	612
06/16/2005		---	---	---	---	100	0	0	3	159	135	684
Total:		**0**	**0**	**0**	**0**	**7,007**	**3,226**	**309**	**651**	**12,224**	**16,779**	**27,026**
# Days:		**0**	**13**	**0**	**1**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**501**	**230**	**22**	**47**	**1,746**	**1,199**	**1,930**
YTD		**0**	**0**	**0**	**110**	**303,883**	**191,024**	**24,225**	**36,933**	**101,879**	**189,921**	**764,956**

				COMBINED STEELHEAD								
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/03/2005	*	---	87	---	1	9,192	4,563	720	41	---	1,115	756
06/04/2005		---	36	---	---	8,351	5,515	622	11	851	1,192	1,713
06/05/2005	*	---	41	---	---	7,800	8,103	525	13	---	899	1,016
06/06/2005		---	115	---	---	6,214	5,000	1,265	3	706	1,303	359
06/07/2005	*	---	64	---	---	7,299	3,533	454	44	---	427	624
06/08/2005		---	60	---	---	6,050	2,951	300	50	499	454	546
06/09/2005	*	---	49	---	---	2,974	2,952	380	22	---	553	510
06/10/2005		---	44	---	---	1,744	5,452	448	47	184	317	432
06/11/2005	*	---	56	---	---	1,700	1,300	182	34	---	428	692
06/12/2005		---	41	---	---	1,050	1,250	296	24	0	393	553
06/13/2005	*	---	88	---	---	1,950	700	252	21	---	155	183
06/14/2005		---	37	---	---	2,800	1,004	426	41	323	103	328
06/15/2005	*	---	27	---	---	2,100	1,350	235	16	---	137	393
06/16/2005		---	---	---	---	2,625	750	75	2	479	117	209
Total:		**0**	**745**	**0**	**1**	**61,849**	**44,423**	**6,180**	**369**	**3,042**	**7,593**	**8,314**
# Days:		**0**	**13**	**0**	**1**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**57**	**0**	**1**	**4,418**	**3,173**	**441**	**26**	**435**	**542**	**594**
YTD		**3,754**	**36,509**	**2,453**	**7,259**	**5,918,795**	**2,915,443**	**673,081**	**15,776**	**188,000**	**522,941**	**184,283**

Two-Week Summary of Passage Indices

				COMBINED SOCKEYE								
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
06/03/2005	*	---	0	---	0	0	400	206	4	---	728	352
06/04/2005		---	0	---	---	611	532	62	0	1,594	747	324
06/05/2005	*	---	0	---	---	0	1,500	93	0	---	549	269
06/06/2005		---	0	---	---	100	1,201	277	1	1,913	926	157
06/07/2005	*	---	0	---	---	378	350	101	3	---	400	267
06/08/2005		---	0	---	---	0	150	0	4	992	347	91
06/09/2005	*	---	0	---	---	103	250	30	0	---	529	186
06/10/2005		---	0	---	---	103	152	16	1	534	159	86
06/11/2005	*	---	0	---	---	100	150	10	1	---	309	122
06/12/2005		---	0	---	---	100	50	42	0	657	219	79
06/13/2005	*	---	0	---	---	200	50	58	0	---	117	0
06/14/2005		---	0	---	---	100	0	10	2	13	85	94
06/15/2005	*	---	0	---	---	0	100	15	1	---	228	44
06/16/2005		---	---	---	---	75	0	15	0	2	82	19
Total:		**0**	**0**	**0**	**0**	**1,870**	**4,885**	**935**	**17**	**5,705**	**5,425**	**2,090**
# Days:		**0**	**13**	**0**	**1**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**134**	**349**	**67**	**1**	**815**	**388**	**149**
YTD		**115**	**0**	**0**	**262**	**37,662**	**40,594**	**8,083**	**1,689**	**101,718**	**83,163**	**40,995**

* 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
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)}

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.

Two Week Transportation Summary

Source: Fish Passage Center Updated: 6/17/05 9:42 AM

06/04/05 TO 06/17/05

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	653,475	47,075	6,600	1,775	58,225	767,150
	Sum of NumberBarged	737,773	55,236	6,493	2,485	69,031	871,018
	Sum of NumberBypassed	0	936	0	0	1,878	2,814
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	99	0	0	0	1	100
	Sum of FacilityMorts	6,741	150	7	18	43	6,959
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	6,840	150	7	18	44	7,059
LGS	Sum of NumberCollected	714,268	17,336	3,226	4,885	44,423	784,138
	Sum of NumberBarged	740,381	21,452	3,732	5,701	46,141	817,407
	Sum of NumberBypassed	227	83	3	0	1	314
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	52	3	1	0	3	59
	Sum of FacilityMorts	2,698	114	0	12	251	3,075
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	2,750	117	1	12	254	3,134
LMN	Sum of NumberCollected	110,124	6,673	305	916	6,085	124,103
	Sum of NumberBarged	103,223	8,461	345	1,125	7,206	120,360
	Sum of NumberBypassed	2,246	16	0	0	0	2,262
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	12	0	0	0	0	12
	Sum of FacilityMorts	99	18	0	6	33	156
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	111	18	0	6	33	168
MCN	Sum of NumberCollected	469,461	32,155	7,058	3,266	1,772	513,712
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	468,990	31,934	7,047	3,246	1,753	512,970
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	66	14	3	4	0	87
	Sum of FacilityMorts	405	207	8	16	19	655
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	471	221	11	20	19	742
Total Sum of NumberCollected		1,947,328	103,239	17,189	10,842	110,505	2,189,103
Total Sum of NumberBarged		1,581,377	85,149	10,570	9,311	122,378	1,808,785
Total Sum of NumberBypassed		471,463	32,969	7,050	3,246	3,632	518,360
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		229	17	4	4	4	258
Total Sum of FacilityMorts		9,943	489	15	52	346	10,845
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		10,172	506	19	56	350	11,103

YTD Transportation Summary

Source: Fish Passage Center Updated: 6/17/05 9:42 AM

TO: 06/17/05

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	1,412,191	5,531,067	285,014	31,190	5,577,326	12,836,788
	Sum of NumberBarged	1,371,392	5,228,130	256,547	29,788	5,077,961	11,963,818
	Sum of NumberBypassed	10,825	278,605	26,286	490	448,421	764,627
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	269	448	16	15	64	812
	Sum of FacilityMorts	11,292	13,576	1,194	338	5,240	31,640
	Sum of ResearchMorts	0	103	0	0	2	105
	Sum of TotalProjectMorts	11,561	14,127	1,210	353	5,306	32,557
LGS	Sum of NumberCollected	1,042,004	2,449,158	185,493	38,394	2,853,027	6,568,076
	Sum of NumberBarged	971,136	2,017,467	151,147	37,381	2,277,084	5,454,215
	Sum of NumberBypassed	49,375	424,199	34,261	924	566,487	1,075,246
	Sum of NumberTrucked	4	223	0	27	291	545
	Sum of SampleMorts	64	126	11	4	64	269
	Sum of FacilityMorts	2,940	6,434	74	58	8,352	17,858
	Sum of ResearchMorts	0	9	0	0	0	9
	Sum of TotalProjectMorts	3,004	6,569	85	62	8,416	18,136
LMN	Sum of NumberCollected	129,696	669,459	21,470	7,251	612,364	1,440,240
	Sum of NumberBarged	118,769	510,485	16,947	7,049	454,847	1,108,097
	Sum of NumberBypassed	2,996	145,571	4,521	99	154,862	308,049
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	14	39	0	3	25	81
	Sum of FacilityMorts	139	512	2	25	321	999
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	153	551	2	28	346	1,080
MCN	Sum of NumberCollected	550,561	700,830	60,079	58,711	113,625	1,483,806
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	549,772	698,018	59,902	58,389	113,359	1,479,440
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	98	117	8	18	6	247
	Sum of FacilityMorts	681	2,619	163	292	258	4,013
	Sum of ResearchMorts	10	76	6	12	2	106
	Sum of TotalProjectMorts	789	2,812	177	322	266	4,366
Total Sum of NumberCollected		3,134,452	9,350,514	552,056	135,546	9,156,342	22,328,910
Total Sum of NumberBarged		2,461,297	7,756,082	424,641	74,218	7,809,892	18,526,130
Total Sum of NumberBypassed		612,968	1,546,393	124,970	59,902	1,283,129	3,627,362
Total Sum of NumberTrucked		408	21,818	871	574	45,541	69,212
Total Sum of SampleMorts		445	730	35	40	159	1,409
Total Sum of FacilityMorts		15,052	23,141	1,433	713	14,171	54,510
Total Sum of ResearchMorts		10	188	6	12	4	220
Total Sum of TotalProjectMorts		15,507	24,059	1,474	765	14,334	56,139

Cumulative Adult Passage at Mainstem Dams Through: 06/16

	Spring Chinook						Summer Chinook						Fall Chinook					
	2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.	
DAM	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	75,148	4,158	170,152	8,885	145,297	8,221	24,500	1,089	29,835	3,624	16,967	1,836	0	0	0	0	0	0
TDA	61,124	3,090	130,240	7,717	99,119	5,946	17,952	696	20,954	2,050	11,849	1,116	0	0	0	0	0	0
JDA	52,438	2,462	112,153	6,367	82,666	4,703	12,993	648	13,448	1,657	8,893	745	0	0	0	0	0	0
MCN	57,792	3,168	107,497	7,682	76,092	4,941	9,591	384	9,593	1,022	6,323	616	0	0	0	0	0	0
IHR	25,968	1,071	77,106	4,646	51,680	3,159	2,176	138	3,556	553	2,726	301	0	0	0	0	0	0
LMN	25,790	999	71,578	3,785	49,507	2,979	1,155	64	1,942	178	1,471	137	0	0	0	0	0	0
LGS	24,341	928	62,458	3,404	47,589	3,042	280	44	532	54	461	55	0	0	0	0	0	0
LWG	25,095	1,163	70,069	4,404	46,961	3,214	0	0	0	0	0	0	0	0	0	0	0	0
PRD	14,148	515	13,521	1,020	15,454	477	1,954	22	1,312	45	543	21	0	0	0	0	0	0
RIS	10,913	454	10,004	863	11,787	665	0	0	0	0	0	0	0	0	0	0	0	0
RRH	3,560	396	3,893	691	4,223	225	0	0	0	0	0	0	0	0	0	0	0	0
WEL	2,162	77	2,540	92	2,286	142	0	0	0	0	0	0	0	0	0	0	0	0
WFA	30,489	1,061	87,739	621	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	1	-1	0	0	0	0	8,082	21,676	6,477	5,863	10,940	7,696	1,898
TDA	-2	-1	0	0	0	0	5,018	13,133	3,677	2,312	3,326	2,204	912
JDA	5	-13	0	0	0	0	3,638	9,312	2,740	2,113	3,325	4,221	743
MCN	0	0	0	0	0	0	1,733	4,972	1,392	1,897	2,476	2,121	593
IHR	0	0	0	0	0	0	3	9	0	1,512	2,015	1,709	690
LMN	0	0	2	0	0	0	0	1	0	1,255	1,814	1,743	516
LGS	0	0	0	0	0	0	0	1	0	1,142	1,995	2,016	503
LWG	0	0	0	0	0	0	1	0	0	4,948	7,700	6,240	1,592
PRD	0	0	0	0	0	0	196	1,147	324	31	186	21	n/a
RIS	2	0	0	0	0	0	36	86	19	83	229	40	75
RRH	0	0	0	0	0	0	5	59	14	363	381	80	353
WEL	0	0	0	0	0	0	1	3	0	67	89	17	57
WFA	0	0	0	0	n/a	n/a	0	0	n/a	13,225	34,835	n/a	n/a

WFA/RIS/RRH are through 6/14; WEL is through 6/15. LGR is missing 6/12; IHR missing 6/10 and 6/11.
IHR is missing adult chinook count for left bank on 05/18. IHR chinook jack were counted as coho jack for 5/23, 5/24 & 5/9, 6/9 - in our database it has been added to the chinook jack count and removed from the coho jack count.
*PRD is not posting wild steelhead numbers.
These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.
Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.
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: 06/17/05

BON counts from January 1, 2005 to March 14, 2005 (our traditional counts begin March 15):

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
15	0	256	-74