



Fish Passage Center

Weekly Report #05 - 14

June 10, 2005

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Highlights:

- **Precipitation has been above average over the first six days of June at all Columbia Basin locations.**
- **Water Supply Forecasts have increased between 1% and 15% of average between the May Final and June Final Forecasts.**
- **Since April 3rd, 2005, flows at Lower Granite have averaged 68.9 Kcfs; over the last week flows have averaged 72.2 Kcfs.**
- **Flows at McNary Dam have averaged 196.9 Kcfs since April 10th and flows at Priest Rapids have averaged 116.6 Kcfs; over the last week flows have averaged 200.3 Kcfs at McNary and 121.5 at Priest Rapids.**
- **Spill at The Dalles Dam averaged only 34.5% of average daily flow as compared to the 40% specified in the Biological Opinion due to facility restrictions. Some daytime spill at John Day Dam was provided until May 30 to increase spillway passage at this project compensating for some of the loss at The Dalles.**

Summary of Events:

Water Supply: Precipitation has been above average over the first six days of June at all Columbia Basin locations. Of the sites in Table 1, twelve recorded precipitation that was greater than 150% of average over the first six days of June and seven

sites had precipitation that was greater than 200% of average. 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 1-6		Water Year 2005 October 1, 2004 to June 6, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.23	258	16.79	90
Snake River Above Ice Harbor	0.54	185	14.00	100
Columbia Above The Dalles	0.71	199	16.11	88
Kootenai	1.26	256	16.32	86
Clark Fork	1.00	260	10.84	86
Flathead	2.33	441	16.56	99
Pend Oreille/Spokane	0.76	173	22.14	87
Central Washington	0.26	200	6.01	81
Snake River Plain	0.45	233	11.21	127
Salmon/Boise/ Payette	0.31	106	13.5	82
Clearwater	0.96	193	21.68	87
SW Washington Cascades/Cowlitz	0.32	132	11.42	70
Willamette Valley	1.13	251	37.35	69

Snowpack in the Columbia River for basins above the Snake River confluence is 29% of average, for Snake River Basins the average snowpack 32% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack 3% 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.

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The Spring Flow Objective period started in the Lower Snake River on April 3rd, 2005. Based on the April Final Forecast at Lower Granite (April-July), the flow objective is 85 Kcfs at Lower Granite through June 20th. Since April 3rd, 2005, flows at Lower Granite have averaged 68.9 Kcfs; over the last week flows have averaged 72.2 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 196.9 Kcfs since April 10th and flows at Priest Rapids have averaged 116.6 Kcfs; over the last week flows have averaged 200.3 Kcfs at McNary and 121.5 at Priest Rapids.

Grand Coulee Reservoir is currently at an elevation of 1277.4 feet (June 9th, 2005 midnight) and has refilled 7.5 feet in the last week.

The Libby Reservoir is currently at elevation 2447.2 feet and refilled 6.8 feet over the last week. Outflows at Libby have been 14 Kcfs over the last week.

The Hungry Horse Reservoir is currently at an elevation of 3558.4 feet and refilled approximately 1.6 feet last week. Outflows at Hungry Horse have ranged between 7.6 and 10.2 Kcfs.

The Dworshak reservoir is currently at an elevation of 1598.5 feet and held steady over the last week. Outflows at Dworshak have been reduced to 5.3 Kcfs.

The Brownlee Reservoir was at an elevation of 2075.6 feet on June 9th, 2005 with outflows ranging between 11.2 and 20.7 Kcfs over the last week.

Spill: Dworshak Dam outflow specifically for flow augmentation in the lower Snake River ended on May 18, 2005. The project is now operating for refill and power production. Spill at Lower Granite Dam occurred over the past week as excess to hydraulic capacity. There is one unit out at this project and some units were not available during certain times due to trash raking operations and divers working on hydroacoustic equipment installed in the forebay. Some limited spill occurred

at Lower Monumental Dam as part of RSW placement testing. Spill at IHR was provided according to the protocol determined for RSW testing. Spill averaged 49.8% of daily average flows over the past 7 days, and ranged from 30.9% to 90.1%. 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. Over the last week, spill at McNary Dam averaged 42.0% of daily average flow and spill at John Day Dam averaged 26.8% 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 averaged much less (34.5%) than the 40% specified in the Biological Opinion. SOR # 2005-14 requested that daytime spill at John Day Dam continue through mid-June to increase spillway passage at this project to offset the decrease in spillway passage due to the fixed gate operations at The Dalles Dam. Daytime spill was provided through Monday, May 30, but was limited to 80 Kcfs due to the high dissolved gas levels observed when spill occurs between 80 and 120 Kcfs. Spill at Bonneville Dam averaged 48.5% of average daily flow over the past week. A few fish with minor signs of gas bubble trauma were observed in the monitoring program over the past week.

Smolt Monitoring: Passage indices for subyearling Chinook increased again at 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 all SMP sites.

At Lower Granite Dam in the Lower Snake River the subyearling Chinook passage indices dropped to 40,000 on June 6 but increased modestly the past 3 days to bring the weekly average to 68,000 the past seven days. Passage indices for yearling Chinook and steelhead decreased significantly this past week. The daily index for yearling Chinook averaged 6,000 this week compared to 10,000 last week while steelhead indices aver-

aged 6,800 this week compared to 23,000 last week. Sockeye indices averaged 870 this past week, while coho indices were at 170 this week down from 800 per day last week. As we stated last week, it is early to see such subyearlings predominate in the Snake River. Typically steelhead predominate the run into mid-June in the Lower Snake River. But, because spring migrants went out early and hatchery releases of subyearling chinook were early as well, this is the first time we've seen subyearlings predominate in the run this early in the season.

In the Mid-Columbia, at Rock Island Dam, subyearling indices held steady this week, with the weekly average index 330 compared to 320 last week. Spring migrants were down compared to last week. Yearling Chinook indices averaged 50 per day compared to 90 per day last week. Steelhead averaged 26 per day this week compared to 130 last week. Coho were down as well at 50 per day this week compared to 370 per day last week and only a few sockeye were captured at the site this past week.

At McNary Dam indices for subyearlings increased steadily this week with the index averaging 57,000 per day compared to 15,000 per day last week. As at other sites, the spring migrant indices declined again this week across the board at McNary Dam. The yearling Chinook index was down to 5,000 on the last sampling date this week, while steelhead indices averaged 700 per day this week compared to 3,300 per day the previous week. The coho indices which were at 5,500 per day last week, declined to 3,300 per day this week. Sockeye indices were also down this week averaged 3,300 per day.

John Day Dam and Bonneville Dam also saw decreasing indices for all spring migrants while subyearling indices rose to 10,000 per day at John Day on average and indices for subs at Bonneville averaged 15,600 this past week.

Hatchery Releases - Releases of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam are estimated near 84.4 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 10-Jun-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,897,987	12,656,000	21,598,276	39,152,263
Spring Chinook	9,437,991	4,695,625	5,174,243	19,307,859
Summer Chinook	2,348,012	3,454,509		5,802,521
Coho	816,301	2,464,348	5,149,846	8,430,495
Sockeye	209,046	592,459		801,505
Summer Steelhead	9,004,819	1,232,916	522,206	10,759,941
Winter Steelhead			118,300	118,300
Total	26,714,156	25,095,857	32,562,871	84,372,884

Hatcheries in the Columbia/Snake River basin released about 8.2 million fish during the past two weeks with approximately 16.9 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 Chinook have been released for the year except the NOAA Fisheries study that will have releases of marked subyearling fall Chinook from Dworshak H (Lyons Ferry reared fish) through mid-June.

Mid-Columbia - All yearling spring and summer Chinook, coho, and steelhead juvenile migrants have been released from hatcheries for the 2005 season. 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 will be released late this week and into the next week for their 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 the following week). 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 500k released at Williard Hatchery, upstream in the Little White Salmon River about a week later.

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 two 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 1,164 fish/day through the week ending June 9th with the total at 10,763 through June 9th. This total is about 67% and 116% of the respective 2004 and 10-year average. The peak daily count was 1,356 on June 8th, with the low count of 1,015 on June 7th. The adult summer Chinook count total at The Dalles Dam was 6,298. Note that these early summer Chinook will be destined primarily for the Snake River and the Mid-Columbia River. Above McNary Dam, the split of adult Chinook into the Snake River was near 26,000 (Ice Harbor count) with 12,815 into the upper Mid-Columbia (Priest Rapids count). 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 two river zones: the Snake River - mainly the S. Fork Salmon River and Imnaha River and Lostine River, and the mid-Columbia River - different release sites from the Survival Studies that were conducted in the Mid-Columbia River in recent years. The PIT tagged summer Chinook began arriving at the Priest Rapids site during the past week and count numbers were rising (basically inflating the spring Chinook count total at the Project).

Also at Bonneville Dam, the last sea lion was noted at the project on June 3rd.

At Bonneville Dam, steelhead counts continued to rise through the week with the average daily count for the week of 153 per day. A portion of the steelhead having PIT tags will be migrating to the mid-Columbia tributaries above Rock Island Dam, Nason Creek, a tributary of the Wenatchee River, and Twisp River, a tributary of the Methow River and some to the Snake River. Other steelhead adults with PIT tags were migrating to the Wind River a tributary about 10-miles above Bonneville Dam. As noted in the steelhead daily count at The Dalles, well below one half of the fish are moving upstream; the majority will be migrating to the Bonneville Pool tributaries.

Adult sockeye salmon continue passing Bonneville with the first of these fish counted upstream at Rocky Reach and Wells Dams 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 9 is 988, about 84% and 20% of the respective 10-year average and 2004 count.

Approximately 1.1 million adult Shad have been counted at Bonneville Dam this season with daily counts between 55,000 and 171,000 for the week.

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
05/27/05	140.4	0.1	155.1	0.0	177.4	26.8	179.6	37.9	181.1	27.5	190.3	26.9	188.2	115.2
05/28/05	103.1	0.1	101.3	0.0	112.2	10.9	111.3	21.4	115.2	21.7	117.0	10.0	128.8	78.1
05/29/05	72.4	0.1	74.9	0.0	80.1	8.3	79.3	14.8	85.6	17.4	91.6	10.1	96.7	57.7
05/30/05	96.1	0.1	101.6	0.0	106.0	9.4	106.0	25.2	109.3	22.6	103.8	9.3	98.7	59.4
05/31/05	145.2	0.1	138.5	0.0	147.4	11.4	140.6	0.3	145.7	29.4	145.2	9.2	144.9	88.8
06/01/05	102.2	0.2	105.4	0.0	122.0	16.6	121.3	0.0	132.4	30.4	138.3	9.3	153.7	94.1
06/02/05	104.6	0.2	110.7	0.0	118.9	12.4	120.7	29.1	125.7	26.3	127.9	9.6	121.1	74.7
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

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
05/27/05	7.1	0.0	22.6	26.2	89.2	4.7	88.4	0.0	91.0	3.1	91.2	80.5
05/28/05	4.3	0.0	22.2	24.4	87.4	2.7	86.0	0.0	87.6	0.2	90.6	80.7
05/29/05	4.3	0.0	20.7	21.0	84.3	0.0	85.8	0.0	89.5	1.5	90.4	42.1
05/30/05	4.3	0.0	19.3	15.7	81.4	0.0	81.5	0.0	83.4	1.2	82.0	27.5
05/31/05	6.6	0.0	19.9	22.6	79.0	5.0	77.7	0.0	80.2	1.1	79.2	55.8
06/01/05	6.6	0.0	20.4	26.5	88.7	11.2	86.0	1.0	88.4	2.1	91.2	84.1
06/02/05	6.6	0.0	20.0	26.5	89.9	8.0	89.1	0.0	94.7	2.4	95.1	44.4
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	---	---	59.9	2.9	60.7	0.0	62.8	0.0	63.3	23.0

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		
05/27/05	258.9	110.5	254.4	99.3	252.5	69.5	248.0	89.3	39.6	107.6
05/28/05	283.8	108.9	276.9	107.5	267.1	72.9	262.1	89.3	47.5	113.8
05/29/05	219.7	81.3	220.9	95.9	218.9	69.4	231.4	89.2	23.1	107.7
05/30/05	191.7	85.5	177.5	75.6	174.8	68.9	197.6	90.4	0.6	95.2
05/31/05	193.0	65.3	181.5	40.3	181.8	68.9	193.0	91.4	3.7	86.4
06/01/05	221.7	91.4	222.4	65.3	212.9	69.5	226.2	90.8	26.1	97.7
06/02/05	230.6	95.8	231.4	69.8	229.5	69.8	244.3	93.8	37.3	101.6
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

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											
	06/03/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	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
Bonneville Dam											
	05/31/05	Chinook + Steelhead	99	0	0	0.00%	0.00%	0	0	0	0
	06/04/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/07/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	06/02/05	Chinook + Steelhead	50	2	2	4.00%	0.00%	2	0	0	0
	06/09/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: **5/27/2005** to **06/09/05**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	500,300	05-23-05	05-30-05	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	503,000	05-30-05	05-31-05	Big Canyon (Clearwater R)	Clearwater River M F
Nez Perce Tribe Total					1,003,300				
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2005	319,152	04-04-05	05-31-05	Bel. Pelton Ladder	Deschutes River
Oregon Dept. of Fish and Wildlife Total					319,152				
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 Total					6,876,000				
Grand Total					8,198,452				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: **6/10/2005** to **6/23/2005**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
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					1,471,000				
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	4,000,000	06-13-05	06-24-05	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	06-13-05	06-17-05	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2005	240,000	06-15-05	06-15-05	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					15,440,000				
Grand Total					16,911,000				

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

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	hr	
5/27	---	---	---	0	120	121	122	24	109	110	110	24	108	108	109	19	108	108	108	24
5/28	---	---	---	0	118	119	120	24	110	111	111	24	108	108	110	15	109	109	110	24
5/29	---	---	---	0	119	122	123	24	111	111	111	24	107	107	108	10	109	110	110	24
5/30	---	---	---	0	117	119	125	24	111	111	111	24	107	107	109	10	109	109	110	21
5/31	---	---	---	0	116	117	119	24	111	111	111	24	109	110	111	24	109	109	110	17
6/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/2	---	---	---	0	116	118	119	24	111	111	111	24	108	109	113	24	109	109	109	24
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

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	hr	
5/27	108	109	110	23	108	108	108	24	113	116	125	24	113	114	115	24	113	115	116	24
5/28	110	110	111	24	109	109	111	24	110	110	111	24	118	120	121	24	116	118	121	24
5/29	111	111	112	23	110	111	112	24	110	111	111	24	113	114	115	23	114	116	116	23
5/30	110	111	112	17	109	110	110	24	111	111	111	24	112	112	112	24	113	114	115	24
5/31	109	109	111	12	109	109	110	24	111	111	112	24	111	111	111	24	111	112	112	24
6/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/2	109	110	110	24	108	108	109	24	112	112	113	24	110	111	111	24	112	113	113	24
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

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	hr	
5/27	114	116	117	24	117	119	120	24	114	116	119	24	115	117	125	24	114	116	120	24
5/28	115	117	120	24	119	120	122	24	116	117	118	24	116	117	119	24	115	116	117	24
5/29	115	116	119	23	118	119	122	23	116	117	119	24	117	119	120	24	115	116	118	24
5/30	112	113	114	24	117	118	119	24	116	116	117	24	117	119	120	24	114	115	117	24
5/31	111	111	112	24	116	117	118	24	113	114	115	24	115	116	119	24	113	114	116	24
6/1	---	---	---	0	---	---	---	0	110	111	112	24	112	114	117	24	111	112	112	24
6/2	110	111	112	24	115	116	117	24	109	109	110	24	111	113	115	24	109	111	111	24
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	---	---	---	0	---	---	---	0	---	---	---	0
6/5	110	110	111	24	115	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
6/6	110	112	114	24	115	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0
6/7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/8	109	110	111	24	115	116	119	24	---	---	---	0	---	---	---	0	---	---	---	0
6/9	108	109	109	24	114	115	117	24	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			#	<u>Pasco</u>			#	<u>Dworshak</u>			#	<u>Clrwtr-Peck</u>			#	<u>Anatone</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
5/27	120	121	122	24	115	116	117	24	99	99	100	24	101	102	103	24	105	106	106	24
5/28	119	119	120	24	116	117	118	24	100	101	101	24	101	102	103	24	105	105	106	24
5/29	116	117	118	24	115	115	116	24	100	101	101	24	101	102	103	24	104	105	106	24
5/30	116	117	117	24	112	113	113	21	100	100	101	19	101	101	103	20	104	105	106	24
5/31	118	119	120	24	109	110	111	19	99	99	99	24	100	101	101	24	104	104	105	24
6/1	118	118	118	24	112	113	113	24	---	---	---	0	---	---	---	0	---	---	---	0
6/2	116	117	118	24	112	113	114	24	102	105	106	24	101	101	102	24	104	104	105	24
6/3	116	117	117	24	110	112	113	24	99	100	100	24	101	101	102	24	104	105	106	24
6/4	---	---	---	0	111	112	113	24	100	100	101	23	102	103	104	23	104	105	106	24
6/5	---	---	---	0	110	110	112	24	100	100	100	24	100	101	102	24	103	104	104	24
6/6	---	---	---	0	108	110	110	24	99	100	100	24	101	102	102	24	103	103	104	24
6/7	---	---	---	0	109	109	110	24	99	100	100	24	101	101	102	24	103	104	105	24
6/8	---	---	---	0	110	112	112	24	99	100	101	24	101	102	103	24	103	104	105	24
6/9	---	---	---	0	112	114	114	24	100	100	101	24	101	102	103	24	103	104	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			#	<u>Lower Granite</u>			#	<u>L. Granite Tlwr</u>			#	<u>Little Goose</u>			#	<u>L. Goose Tlwr</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
5/27	102	104	105	24	107	109	110	24	107	108	111	24	110	110	111	24	109	109	109	24
5/28	102	104	105	24	108	110	112	24	107	108	110	24	110	110	111	24	109	109	109	24
5/29	102	104	105	24	106	107	109	24	106	106	106	24	109	109	111	24	108	109	109	24
5/30	102	103	104	19	105	106	107	24	104	104	105	24	108	108	109	24	107	107	107	24
5/31	101	102	103	24	104	104	105	24	105	107	109	24	106	106	108	24	105	106	106	24
6/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/2	101	102	103	24	102	103	103	24	105	106	108	24	103	103	103	24	102	102	103	24
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

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

Date	<u>Lower Mon.</u>			#	<u>L. Mon. Tlwr</u>			#	<u>Ice Harbor</u>			#	<u>Ice Harbor Tlwr</u>			#	<u>McNary-Oregon</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
5/27	112	112	112	24	114	115	120	24	114	114	114	24	118	120	120	24	115	117	117	24
5/28	112	112	112	24	112	112	115	24	114	114	114	24	119	119	120	24	118	119	120	24
5/29	110	111	111	24	111	113	118	24	113	113	114	24	116	117	119	24	118	119	121	24
5/30	109	109	110	24	110	111	114	24	111	111	112	24	115	115	115	24	116	117	117	24
5/31	108	108	108	24	108	108	111	24	109	110	110	24	116	117	118	24	112	113	115	24
6/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	108	109	110	24
6/2	104	105	105	24	106	108	111	24	106	106	106	24	114	116	118	24	107	107	108	24
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

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>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr				
5/27	116	117	118	24	117	118	119	24	114	115	115	23	119	120	120	24	116	117	119	23
5/28	118	118	119	24	118	119	121	24	115	115	116	23	120	120	121	24	116	116	116	23
5/29	117	118	118	24	117	117	117	24	113	113	114	23	118	119	120	24	112	113	115	23
5/30	116	117	117	24	117	117	117	24	111	112	112	24	118	118	119	24	109	109	110	24
5/31	113	114	115	24	115	117	119	24	110	110	111	23	113	117	118	24	109	109	109	23
6/1	108	109	109	24	114	119	119	24	107	108	108	23	112	117	119	24	109	111	113	23
6/2	108	108	109	24	114	119	120	24	106	106	106	23	112	118	120	24	109	112	113	23
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washugal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
5/27	118	119	120	24	115	115	116	23	116	117	118	23	112	114	116	24	117	117	120	17
5/28	118	118	118	24	116	116	117	23	116	117	119	23	114	115	117	24	117	118	120	17
5/29	116	117	118	24	111	112	114	23	114	116	118	23	112	113	114	24	116	117	119	17
5/30	115	115	115	24	107	107	108	24	113	114	116	24	111	112	113	24	116	117	119	24
5/31	114	115	115	24	106	106	107	23	113	115	117	23	109	111	112	24	115	116	119	16
6/1	114	115	116	24	107	108	109	23	112	114	117	23	109	111	113	24	116	117	120	17
6/2	113	115	116	24	108	108	109	23	112	114	118	23	109	111	113	24	117	117	120	17
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

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)	(INDEX)
05/27/2005	*	---	48	---	---	6,292	15,002	2,634	162	24,773	5,797	23,835
05/28/2005	*	---	25	---	---	9,134	8,629	2,368	181	---	5,802	16,529
05/29/2005		---	36	---	---	10,214	6,456	3,254	1	28,059	6,649	13,455
05/30/2005	*	---	37	---	---	7,800	9,176	2,127	93	---	5,320	5,295
05/31/2005	*	---	35	---	---	18,700	4,900	764	109	15,122	5,261	5,774
06/01/2005	*	---	---	---	14	4,905	7,042	1,132	52	---	5,844	4,000
06/02/2005		---	---	---	19	12,410	5,132	2,040	35	5,433	5,432	5,292
06/03/2005	*	---	---	---	10	7,003	2,909	1,070	37	---	3,529	6,314
06/04/2005		---	---	---	---	11,814	3,045	1,430	4	9,047	3,621	6,071
06/05/2005	*	---	---	---	---	5,600	701	865	22	---	6,690	4,114
06/06/2005		---	---	---	---	4,009	1,701	1,264	4	19,879	5,356	3,251
06/07/2005	*	---	---	---	---	4,153	1,526	707	27	---	4,345	4,633
06/08/2005		---	---	---	---	4,840	1,200	60	84	5,005	2,856	2,504
06/09/2005	*	---	---	---	---	3,999	1,400	90	184	---	2,764	2,319
<hr/>												
Total:		0	181	0	43	110,873	68,819	19,805	995	107,318	69,266	103,386
# Days:		0	5	0	3	14	14	14	14	7	14	14
Average:		0	36	0	14	7,920	4,916	1,415	71	15,331	4,948	7,385
YTD		43,641	42,314	5,793	1,729	5,656,796	2,467,402	702,950	14,292	1,170,192	1,387,693	1,512,253

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)	(INDEX)
05/27/2005	*	---	0	---	---	5,663	8,700	357	59	10,979	3,216	8,937
05/28/2005	*	---	0	---	---	6,276	5,739	1,124	92	---	3,057	17,440
05/29/2005		---	0	---	---	21,305	11,150	5,249	138	9,649	2,112	14,221
05/30/2005	*	---	0	---	---	59,250	14,900	3,941	334	---	1,003	11,648
05/31/2005	*	---	0	---	---	289,800	8,310	1,297	843	11,037	1,418	9,995
06/01/2005	*	---	---	---	337	140,548	23,790	1,520	397	---	4,570	8,444
06/02/2005		---	---	---	99	126,857	48,431	3,363	392	28,052	9,764	16,259
06/03/2005	*	---	---	---	62	107,018	104,838	5,329	311	---	7,994	14,795
06/04/2005		---	---	---	---	67,014	86,622	11,573	430	52,115	9,899	16,632
06/05/2005	*	---	---	---	---	41,200	67,169	5,844	357	---	15,365	15,448
06/06/2005		---	---	---	---	40,288	47,576	13,791	469	63,299	5,471	15,239
06/07/2005	*	---	---	---	---	77,643	41,795	8,482	407	---	11,889	18,801
06/08/2005		---	---	---	---	84,817	61,590	7,220	143	56,432	5,444	13,793
06/09/2005	*	---	---	---	---	58,755	53,080	5,400	190	---	14,558	14,704
<hr/>												
Total:		0	0	0	498	1,126,434	583,690	74,490	4,562	231,563	95,760	196,356
# Days:		0	5	0	3	14	14	14	14	7	14	14
Average:		0	0	0	166	80,460	41,692	5,321	326	33,080	6,840	14,025
YTD		0	77	1,224	1,135	1,285,192	793,197	77,891	6,550	317,033	123,001	1,921,107

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)
05/27/2005	*	---	0	---	---	572	2,650	65	460	4,778	3,147	19,627
05/28/2005	*	---	0	---	---	663	1,443	160	782	---	2,862	12,505
05/29/2005		---	0	---	---	671	1,200	120	13	11,209	2,052	8,169
05/30/2005	*	---	0	---	---	1,450	800	43	355	---	1,761	4,692
05/31/2005	*	---	0	---	---	1,500	200	40	538	3,278	1,148	5,683
06/01/2005	*	---	---	---	0	640	440	31	275	---	2,587	3,866
06/02/2005		---	---	---	0	0	516	41	143	3,087	2,101	2,989
06/03/2005	*	---	---	---	0	1,532	550	21	91	---	1,875	2,679
06/04/2005		---	---	---	---	815	700	0	48	2,620	2,579	4,824
06/05/2005	*	---	---	---	---	1,400	100	31	59	---	2,896	3,718
06/06/2005		---	---	---	---	401	300	62	32	6,162	2,750	2,077
06/07/2005	*	---	---	---	---	881	326	50	34	---	1,386	3,609
06/08/2005		---	---	---	---	363	100	0	56	1,158	934	2,048
06/09/2005	*	---	---	---	---	410	400	30	53	---	1,659	1,299
<hr/>												
Total:		0	0	0	0	11,298	9,725	694	2,939	32,292	29,737	77,785
# Days:		0	5	0	3	14	14	14	14	7	14	14
Average:		0	0	0	0	807	695	50	210	4,613	2,124	5,556
YTD		0	0	0	110	302,678	190,274	24,110	36,655	99,595	187,221	758,184

		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)
05/27/2005	*	---	339	---	---	12,584	15,804	2,439	178	5,598	4,276	2,035
05/28/2005	*	---	132	---	---	17,757	13,539	1,917	166	---	7,528	1,242
05/29/2005		---	225	---	---	23,420	13,126	1,839	3	3,951	6,373	2,471
05/30/2005	*	---	230	---	---	21,500	10,901	2,193	102	---	2,905	3,263
05/31/2005	*	---	201	---	---	44,800	5,921	1,056	219	2,379	2,197	2,660
06/01/2005	*	---	---	---	7	21,327	2,250	1,336	147	---	1,699	1,448
06/02/2005		---	---	---	2	17,925	2,780	1,261	71	1,296	1,766	1,050
06/03/2005	*	---	---	---	1	9,192	4,563	720	41	---	1,115	756
06/04/2005		---	---	---	---	8,351	5,515	622	11	851	1,192	1,713
06/05/2005	*	---	---	---	---	7,800	8,103	525	13	---	899	1,016
06/06/2005		---	---	---	---	6,214	5,000	1,265	3	706	1,303	359
06/07/2005	*	---	---	---	---	7,299	3,533	454	44	---	427	624
06/08/2005		---	---	---	---	6,050	2,951	300	50	499	454	546
06/09/2005	*	---	---	---	---	2,974	2,952	380	22	---	553	510
<hr/>												
Total:		0	1,127	0	10	207,193	96,938	16,307	1,070	15,280	32,687	19,693
# Days:		0	5	0	3	14	14	14	14	7	14	14
Average:		0	225	0	3	14,800	6,924	1,165	76	2,183	2,335	1,407
YTD		3,754	35,452	2,453	7,259	5,904,826	2,903,537	671,167	15,591	187,014	521,291	181,493

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)	
05/27/2005	*	---	0	---	---	572	1,750	292	19	4,838	1,456	2,220
05/28/2005	*	---	0	---	---	306	1,879	271	6	---	1,865	938
05/29/2005		---	0	---	---	567	2,500	518	0	4,291	2,241	1,631
05/30/2005	*	---	0	---	---	600	1,075	185	0	---	1,254	1,041
05/31/2005	*	---	0	---	---	2,500	1,280	60	8	2,466	740	586
06/01/2005	*	---	---	---	8	640	770	204	4	---	959	653
06/02/2005		---	---	---	3	919	842	236	3	1,978	565	621
06/03/2005	*	---	---	---	0	0	400	206	4	---	728	352
06/04/2005		---	---	---	---	611	532	62	0	1,594	747	324
06/05/2005	*	---	---	---	---	0	1,500	93	0	---	549	269
06/06/2005		---	---	---	---	100	1,201	277	1	1,913	926	157
06/07/2005	*	---	---	---	---	378	350	101	3	---	400	267
06/08/2005		---	---	---	---	0	150	0	4	992	347	91
06/09/2005	*	---	---	---	---	103	250	30	0	---	529	186
<hr/>												
Total:		0	0	0	11	7,296	14,479	2,535	52	18,072	13,306	9,336
# Days:		0	5	0	3	14	14	14	14	7	14	14
Average:		0	0	0	4	521	1,034	181	4	2,582	950	667
YTD		115	0	0	262	36,984	39,592	7,917	1,684	100,512	81,964	40,551

* 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)}
- BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill)}

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

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

6/10/05 8:38 AM

		05/28/05		TO	06/10/05			
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	1,057,100	105,050	10,750	6,950	197,300	1,377,150	
	Sum of NumberBarged	1,046,761	103,256	10,731	6,903	194,387	1,362,038	
	Sum of NumberBypassed	0	1,355	0	0	2,851	4,206	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	205	7	2	0	7	221	
	Sum of FacilityMorts	10,134	432	17	47	55	10,685	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	10,339	439	19	47	62	10,906	
LGS	Sum of NumberCollected	583,120	68,759	9,719	14,469	96,905	772,972	
	Sum of NumberBarged	580,238	67,975	9,717	14,456	96,610	768,996	
	Sum of NumberBypassed	448	532	2	0	3	985	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	56	6	0	2	4	68	
	Sum of FacilityMorts	2,378	246	0	11	288	2,923	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	2,434	252	0	13	292	2,991	
LMN	Sum of NumberCollected	73,040	19,298	680	2,472	15,900	111,390	
	Sum of NumberBarged	72,524	18,979	680	2,462	15,861	110,506	
	Sum of NumberBypassed	425	279	0	0	0	704	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	5	1	0	0	1	7	
	Sum of FacilityMorts	86	39	0	10	38	173	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	91	40	0	10	39	180	
MCN	Sum of NumberCollected	133,071	62,126	18,868	10,449	8,833	233,347	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	132,900	61,851	18,842	10,406	8,785	232,784	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	44	24	6	4	0	78	
	Sum of FacilityMorts	123	239	18	36	48	464	
	Sum of ResearchMorts	4	12	2	3	0	21	
	Sum of TotalProjectMorts	171	275	26	43	48	563	
Total Sum of NumberCollected		1,846,331	255,233	40,017	34,340	318,938	2,494,859	
Total Sum of NumberBarged		1,699,523	190,210	21,128	23,821	306,858	2,241,540	
Total Sum of NumberBypassed		133,773	64,017	18,844	10,406	11,639	238,679	
Total Sum of Numbertrucked		0	0	0	0	0	0	
Total Sum of SampleMorts		310	38	8	6	12	374	
Total Sum of FacilityMorts		12,721	956	35	104	429	14,245	
Total Sum of ResearchMorts		4	12	2	3	0	21	
Total Sum of TotalProjectMorts		13,035	1,006	45	113	441	14,640	

YTD Transportation Summary

Source: Fish Passage Center

Updated:

6/10/05 8:38 AM

TO: 06/10/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,192,816	5,522,792	283,814	30,515	5,563,401	12,593,338
	Sum of NumberBarged	1,170,271	5,221,428	255,448	29,191	5,067,190	11,743,528
	Sum of NumberBypassed	10,825	278,363	26,286	490	447,896	763,860
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	248	448	16	15	64	791
	Sum of FacilityMorts	11,068	13,567	1,193	332	5,234	31,394
	Sum of ResearchMorts	0	103	0	0	2	105
	Sum of TotalProjectMorts	11,316	14,118	1,209	347	5,300	32,290
LGS	Sum of NumberCollected	790,406	2,444,304	184,743	37,392	2,841,121	6,297,966
	Sum of NumberBarged	738,543	2,013,159	150,400	36,572	2,265,960	5,204,634
	Sum of NumberBypassed	49,358	424,363	34,259	736	566,485	1,075,201
	Sum of NumberTrucked	4	223	0	27	291	545
	Sum of SampleMorts	59	126	10	4	62	261
	Sum of FacilityMorts	2,442	6,424	74	53	8,323	17,316
	Sum of ResearchMorts	0	9	0	0	0	9
	Sum of TotalProjectMorts	2,501	6,559	84	57	8,385	17,586
LMN	Sum of NumberCollected	76,043	668,126	21,355	7,085	610,450	1,383,059
	Sum of NumberBarged	74,811	509,293	16,832	6,899	453,012	1,060,847
	Sum of NumberBypassed	1,118	145,571	4,521	99	154,862	306,171
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	6	39	0	3	25	73
	Sum of FacilityMorts	108	511	2	24	316	961
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	114	550	2	27	341	1,034
MCN	Sum of NumberCollected	179,576	687,998	58,674	58,000	113,017	1,097,265
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	179,146	685,305	58,502	57,690	112,761	1,093,404
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	63	112	8	17	6	206
	Sum of FacilityMorts	357	2,505	158	281	248	3,549
	Sum of ResearchMorts	10	76	6	12	2	106
	Sum of TotalProjectMorts	430	2,693	172	310	256	3,861
Total Sum of NumberCollected		2,238,841	9,323,220	548,586	132,992	9,127,989	21,371,628
Total Sum of NumberBarged		1,983,625	7,743,880	422,680	72,662	7,786,162	18,009,009
Total Sum of NumberBypassed		240,447	1,533,602	123,568	59,015	1,282,004	3,238,636
Total Sum of NumberTrucked		408	21,818	871	574	45,541	69,212
Total Sum of SampleMorts		376	725	34	39	157	1,331
Total Sum of FacilityMorts		13,975	23,007	1,427	690	14,121	53,220
Total Sum of ResearchMorts		10	188	6	12	4	220
Total Sum of TotalProjectMorts		14,361	23,920	1,467	741	14,282	54,771

Cumulative Adult Passage at Mainstem Dams Through: 06/09

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.	
	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	10,763	561	16,007	2,082	9,261	998	0	0	0	0	0	0
TDA	61,124	3,090	130,240	7,717	99,119	5,946	6,298	261	10,077	1,034	5,065	504	0	0	0	0	0	0
JDA	52,438	2,462	112,153	6,367	82,666	4,703	3,290	117	5,112	515	2,915	228	0	0	0	0	0	0
MCN	57,792	3,168	107,497	7,682	76,092	4,941	709	54	1,518	120	674	74	0	0	0	0	0	0
IHR	25,968	1,071	75,943	4,422	50,756	3,045	0	0	0	0	0	0	0	0	0	0	0	0
LMN	24,438	946	68,448	3,453	47,284	2,770	0	0	0	0	0	0	0	0	0	0	0	0
LGS	22,105	777	58,015	2,824	44,292	2,701	0	0	0	0	0	0	0	0	0	0	0	0
LWG	22,308	1,014	65,091	3,612	43,118	2,757	0	0	0	0	0	0	0	0	0	0	0	0
PRD	12,815	493	11,989	973	14,997	456	0	0	0	0	0	0	0	0	0	0	0	0
RIS	8,819	382	8,989	720	11,212	592	0	0	0	0	0	0	0	0	0	0	0	0
RRH	3,141	336	3,596	639	4,031	197	0	0	0	0	0	0	0	0	0	0	0	0
WEL	1,945	70	2,484	64	2,172	104	0	0	0	0	0	0	0	0	0	0	0	0
WFA	28,685	985	84,244	559	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		2005	2004	10-Yr Avg.	2005	2004	10-Yr Avg.	Wild 2005
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	-1	0	0	0	0	988	4,866	1,170	4,034	8,286	5,920	1,258
TDA	-1	-1	0	0	0	0	340	2,842	694	1,565	2,503	1,611	634
JDA	4	-13	0	0	0	0	214	1,726	439	1,567	2,548	3,660	589
MCN	0	0	0	0	0	0	88	662	155	1,441	2,002	1,815	454
IHR	0	0	0	0	0	0	3	1	0	1,416	1,856	1,626	666
LMN	0	0	2	0	0	0	0	0	0	1,145	1,660	1,678	498
LGS	0	0	0	0	0	0	0	0	0	1,073	1,934	1,977	495
LWG	0	0	0	0	0	0	0	0	0	4,864	7,648	6,216	1,580
PRD	0	0	0	0	0	0	38	56	27	22	121	9	n/a
RIS	2	0	0	0	0	0	27	7	0	63	7	34	55
RRH	0	0	0	0	0	0	3	4	0	355	4	76	345
WEL	0	0	0	0	0	0	1	0	0	66	0	17	57
WFA	0	0	0	0	n/a	n/a	0	0	n/a	11,610	32,784	n/a	n/a

WFA is through 06/06; RIS/RRH are through 06/07.

WEL is through 06/08. IHR is missing adult chinook count for left bank on 05/18.

IHR chinook jack are counted as coho jack for 5/23, 5/24 & 5/9 - that data 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: 06/10/05

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