



Fish Passage Center

Weekly Report #05 - 17

July 1, 2005

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Highlights:

- Precipitation continues to be above average over June at most Columbia Basin locations.
- Water Supply Forecasts have varied between the June Final and June Mid-Month Forecasts, Libby and Hungry Horse have increased 6-7% with respect to average (between June Final and June Mid-month), while Lower Granite and Dworshak have decreased 6%.
- The Spring Flow Objective period in the Lower Snake River began on April 3rd, 2005 and ended on June 20th, 2005. In 2005, flows averaged 66.3 Kcfs at Lower Granite Dam between April 3rd and June 20th; the flow objective was 85 Kcfs.
- Flows at McNary Dam have averaged 195.4 Kcfs since April 10th and flows at Priest Rapids have averaged 122.2 Kcfs; over the last week flows have averaged 203.2 Kcfs at McNary and 155.3 at Priest Rapids
- All major Columbia and Snake River basin storage reservoirs are near full.
- At the June 22nd, 2005 TMT meeting, the BOR announced that the full 427 Kaf of flow augmentation from upper Snake River storage projects will be available over the summer of 2005.
- Spill at The Dalles Dam averaged only 36% 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. Spill was initiated on June 20, 2005. Biological Opinion summer spill program begins July 1.

Summary of Events:

Water Supply: Precipitation continues to be above average over June at most Columbia Basin locations. Of the sites in Table 1, eleven recorded precipitation that was greater than average over the first twenty-seven days of June. Over the entire water year, precipitation remains slightly below average at most locations.

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

Location	Water Year 2005 June 1-27		Water Year 2005 October 1, 2004 to June 27, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	3.56	165	19.12	94
Sneke River Above Ice Harbor	1.66	126	15.12	101
Columbia Above The Dalles	2.22	138	17.61	90
Kootenai	4.11	186	19.18	92
Clark Fork	2.39	137	12.22	87
Flathead	4.54	191	18.77	101
Pend Oreille/Spokane	2.25	114	23.63	87
Central Washington	0.47	81	6.22	79
Sneke River Plain	0.97	113	11.74	124
Salmon/Boise/Payette	1.64	124	14.82	85
Clearwater	2.69	120	23.41	88
SW Washington Cascades/Cowlitz	2.54	96	47.87	73
Willamette Valley	2.68	132	38.89	70

Water Supply Forecasts have varied between the June Final and June Mid-Month Forecasts, some have increased and others have decreased. For example, forecasts at Libby and Hungry Horse have increased 6-7% with respect to average (between June Final and June Mid-month), while Lower Granite and Dworshak have decreased 6%. Table 2 displays the June Final and June Mid-Month 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. June Final and the June Mid-Month Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins along with 2001 actual runoff volumes over the same periods.

Location	June Final		June Mid-Month		Actual 2001
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)	Actual Runoff Volume (Kaf)
The Dalles (Jan-July)	74	79800	74	79100	58200
Grand Coulee (Jan-July)	84	53000	86	54100	37400
Libby Res. Inflow, MT (Jan-July)	85	5350	92	5770	3341
Hungry Horse Res. Inflow, MT (Jan-July)	75	1660	81	1810	1300
Lower Granite Res. Inflow (Apr-July)	68	14600	62	13300	10300
Brownlee Res. Inflow (Apr-July)	54	3410	51	3190	1970*
Dworshak Res. Inflow (Apr-July)	68	1800	62	1630	1470

The Spring Flow Objective period in the Lower Snake River began on April 3rd, 2005 and ended on June 20th, 2005. Based on the April Final Forecast at Lower Granite (Apr-July), the spring flow objective was 85 Kcfs at Lower Granite. In 2005, flows averaged 66.3 Kcfs at Lower Granite Dam between April 3rd and June 20th. The summer flow objective period began on June 21st, 2005 with a flow objective of 50 Kcfs. River flows at Lower Granite Dam have averaged 50.3 Kcfs between June 21-30.

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 195.4 Kcfs since April 10th and flows at Priest Rapids have averaged 122.2 Kcfs; over the last week flows have averaged 202.9 Kcfs at McNary and 155.2 at Priest Rapids.

Grand Coulee Reservoir is currently at an elevation of 1287.4 feet (June 30th, 2005 midnight) and has drafted 0.6 feet in the last week.

The Libby Reservoir is currently at elevation 2456.91 feet and refilled 1.4 feet over the last week. Outflows at Libby are currently 24.1 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3559.85 feet and refilled approximately 0.4 feet last week. Outflows at Hungry Horse are currently 4.34 Kcfs.

The Dworshak reservoir is currently at an elevation of 1600 feet refilled 0.85 feet over the last week. Outflows at Dworshak are currently 2.3 Kcfs.

The Brownlee Reservoir was at an elevation of 2071.55 feet on June 30th, 2005 with outflows ranging between 9.8 and 22.5 Kcfs over the last week.

Spill: 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 in excess of flow necessary to operate one unit at each Snake River project at the low end of the 1% efficiency range is to occur on a 24-hour basis. Spill started at Lower Granite, Little Goose, Lower Monumental, and Ice Harbor dams on June 20. Spill began at McNary Dam on July 1. Spill is being provided in such a way as to meet the court order and at the same time accommodate planned research projects. Spill will be limited when necessary so as not exceed the state water quality waiver standards.

Spill at Lower Granite Dam and Ice Harbor Dams is being provided to the gas cap, except for days when the RSW is being tested. Spill at Little Goose Dam was changed from gas cap spill to gas cap spill during nighttime hours and 50% of instantaneous flow during daytime hours. This change was made to address concerns regarding adult passage at this project. Shortly after spill began on June 20th, the adult passage numbers declined. This spill change is designed to allow adult fish to pass more easily. At Lower Monumental Dam spill was originally limited because of concerns regarding total dissolved gas production at this project. Consequently, spill began at 11.5 Kcfs instantaneous flow and gradually increased to 24.9 Kcfs. However, spill was subsequently reduced due to dissolved gas concerns in Ice Harbor forebay. Spill averaged 58% of daily average flows at Lower Granite, 63% of daily average flows at Little Goose, 46% of daily average flows at Lower Monumental and 66% of daily average flows at Ice Harbor over the past week.

Biological Opinion spring spill in the lower Columbia River has ended. Although spring spill at McNary Dam ended on June 20th, spill at McNary Dam averaged 15% of daily average flow since river flows have been above powerhouse capacity and water is intentionally being spilled as part of a juvenile fish survival study, which includes a minimum spill level. Spill at John Day Dam averaged 30% of daily average flow. Spill at John Day is now changed from 60% of river flow during nighttime hours, to 30% of river flow on a 24-hour basis. 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 (36%) than the 40% specified in the Biological Opinion. Spill at Bonneville Dam averaged 47% of average daily flow over the past week.

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

Smolt Monitoring: Passage indices although lower this week at McNary, continued to be relatively high for subyearling Chinook at McNary Dam and other Lower Columbia sites. At Rock Island Dam indices for subyearlings were at a season high this past week while at Lower Snake dams indices were down again compared to last week. Numbers of spring migrants continued to decrease again this week at most SMP sites.

At Lower Granite Dam in the Lower Snake River the subyearling Chinook average passage index dropped to 7,000 this week compared to 21,000 the previous week. Indices for spring migrants were down again this week as well. The daily indices increased the past few days as flows went up from 43 Kcfs on June 27 to 60 Kcfs on June 29. Based on PIT-tag data the collection efficiency at Lower Granite is low so that the index does not reflect the numbers of fish passing in spill.

In the Mid-Columbia, at Rock Island Dam, subyearling indices were up substantially this week, with the weekly average index 550 compared to 100 last week. The jump in the index is due to the recent release of subyearling summer chinook at Turtle Rock in the Columbia River. Spring migrants were captured in relatively low numbers at the site.

At McNary Dam indices for subyearlings were lower than last week, but still very high. The average index fell to 370,000 per day compared to 400,000 per day last week. The high indices reflect the release of 10 million smolts from Ringold and Priest Rapids hatcheries two weeks ago, as well as wild Hanford fish passing the project. Based on PIT-tag data, significant numbers of fish marked in

the Hanford Reach have already begun passing the dam. Also, over 120 wild fish marked in the Snake River by USFWS have been detected at McNary Dam. As at most other sites, relatively small numbers of spring migrants were passing McNary Dam this past week.

John Day Dam and Bonneville Dam also saw decreasing indices for most spring migrants while subyearling indices were relatively high, reflecting the increases seen last two weeks at McNary. At John Day Dam the index for subyearling chinook averaged 55,000 this week compared to 63,000 last week while at Bonneville Dam the subyearling index averaged 99,000 this past week up from 41,000 last week.

Hatchery Releases - Releases of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam are estimated near 83.8 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 are updated and finalized through the year.

Hatchery Zone Release Report

	Thursday 30-Jun-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,907,703	12,549,219	21,567,139	39,024,061
Spring Chinook	9,440,350	5,112,676	5,166,138	19,719,164
Summer Chinook	2,348,012	3,369,490		5,717,502
Coho	816,300	1,868,096	5,149,846	7,834,242
Sockeye	209,046	592,459		801,505
Summer Steelhead	8,908,003	1,167,754	533,735	10,609,492
Winter Steelhead			115,453	115,453
Total	26,629,414	24,659,694	32,532,311	83,821,419

Hatcheries in the Columbia/Snake River basin released about 13.5 million fish during the past two weeks with approximately 55,000 fish (research group) 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 as well as subyearling fall Chinook releases from hatcheries in the Snake River basin are completed for the

2005 season.

Mid-Columbia - All yearling spring and summer Chinook, coho, and steelhead were released from hatcheries during this 2005 migration season. The final release of subyearling summer Chinook from Turtle Rock facility was completed on June 28. All subyearling fall Chinook in the Yakima River basin, from Priest Rapids Hatchery and Ringold Hatchery were released during the past three weeks or earlier in the case of the Yakama releases mainly from Prosser facility.

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 released in the Klickitat River on June 13-15 and remaining 2.1 million on June 16-20. Subyearling fall Chinook from Little White Salmon Hatchery were 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 on June 29.

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 May 2005 in Lake Skaha.

Adult Fish Passage -At Bonneville Dam, the daily counts are reported through June 29 as the fish count data were not received as normal. The daily counts averaged 1,723 fish for the 6-days ending June 29; this was about 80 fewer per day than the preceding week. The season total is now 48,511, about 81% and 146.2% of the respective 2004 and 10-year average. The peak daily count was 1,844 on June 27th, with the low count of 1,613 on June 24th. The adult summer Chinook count at The Dalles Dam was 29,820, about 84.7% of the

Bonneville passage total to date. About 34,500 of the Summer Chinook have passed McNary Dam with the bulk of them, (24,000) moving upstream into the Mid-Columbia River. Daily counts at Priest Rapids ranged between 1,500 and 3,000 during the week. These fish are now passing through the upper projects where they should be splitting off into their home sites and tributaries. The Snake River turnoff is presently at 6,800 past Ice Harbor with these fish primarily destined for the S. Fork Salmon River, Pahsimeroi River, and Imnaha River.

At Bonneville Dam, steelhead counts continued to increase throughout the week with the average daily count of 497 per day, about 120 greater per day than the previous week. The percentage of steelhead now continuing up past The Dalles Dam may be greater than 50%, and this percentage will continue to increase through time for the steelhead heading to tributaries above The Dalles Dam. To date, the steelhead run continues to lag well behind the 2004 return to Bonneville (54.5%) and was about 76% of the 10-year average.

Adult sockeye salmon passage at Bonneville Dam averaged 3,251 per day through the week with the count at Bonneville through June 29 at 44,254, about 45% and 114% of the respective 2004 and 10-year average count. The final day's count on June 29 was 4,102, the highest daily count for the 2005 season. About 17,000 of the adult sockeye have been counted at Priest Rapids Dam with only 5 counted at Ice Harbor Dam (Snake River).

During last week's report, passage of adult summer Chinook were being partially blocked at Little Goose Dam apparently due to daytime spill that provided confusing hydraulic conditions at the main fishway entrances. A reduced spill level was implemented during the daytime at Little Goose Dam on June 29 and further on June 30 (noon) that appears to be finally passing these fish that were held up at the Dam. The daily count on June 28 was 56 (close to average for the preceding 7-daily counts); rose to 154 on June 29; then had a daily count of 1,585 on June 30. Hopefully the remaining summer Chinook below Little Goose will move through the project and counts stabilize in the next 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
06/17/05	117.0	0.2	125.1	0.0	133.1	9.7	131.4	12.8	134.6	27.9	143.4	9.0	146.6	90.2
06/18/05	90.5	0.2	91.8	0.0	99.7	8.0	100.3	10.7	102.6	23.5	103.2	8.7	110.3	68.1
06/19/05	79.1	0.2	76.8	0.0	80.1	6.7	78.4	8.3	81.7	18.6	76.4	9.5	68.1	42.2
06/20/05	148.5	0.2	148.4	0.0	150.7	9.6	143.2	13.0	142.6	29.0	142.2	9.2	145.8	88.7
06/21/05	155.9	0.2	152.4	0.0	161.0	10.1	159.0	12.1	162.4	31.0	162.8	9.2	163.8	98.4
06/22/05	140.1	0.2	145.0	0.0	156.6	10.0	157.4	13.4	159.5	31.2	163.4	9.3	170.4	99.5
06/23/05	148.0	0.2	156.2	0.0	159.3	10.0	151.0	14.9	150.6	33.3	159.9	8.9	164.1	96.2
06/24/05	158.9	0.2	155.6	0.0	164.5	10.0	162.8	14.2	163.5	33.1	162.6	8.9	166.7	97.3
06/25/05	138.9	0.2	139.4	0.0	150.7	9.9	151.1	14.2	154.6	31.5	151.4	16.9	154.1	90.4
06/26/05	110.1	0.2	119.2	0.0	126.9	8.9	122.5	11.6	125.2	26.7	145.7	8.3	152.2	88.6
06/27/05	149.4	0.2	145.8	0.0	148.7	10.0	142.5	14.9	144.5	33.1	141.4	8.6	145.3	85.2
06/28/05	160.4	0.2	151.2	0.0	155.5	10.0	148.3	14.6	150.6	31.4	138.1	9.0	135.9	79.3
06/29/05	147.0	0.2	153.7	0.0	162.0	10.0	158.3	13.0	160.1	30.0	162.4	9.2	169.1	99.0
06/30/05	147.7	0.2	150.3	0.0	161.0	14.2	156.1	13.5	157.0	29.1	157.2	9.9	163.4	95.0

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/17/05	4.3	0.0	11.9	8.8	46.3	0.0	45.3	0.0	45.9	0.0	47.4	39.5		
06/18/05	4.3	0.0	11.7	11.3	50.7	0.0	50.9	0.0	52.8	0.0	52.0	23.5		
06/19/05	4.3	0.0	13.1	14.4	52.6	0.1	53.7	0.0	55.3	0.0	54.2	18.7		
06/20/05	4.3	0.0	12.7	12.7	55.6	39.2	51.8	36.7	53.8	15.4	53.2	31.0		
06/21/05	4.3	0.0	12.3	17.4	51.5	23.4	49.6	33.5	46.9	19.6	51.4	41.5		
06/22/05	4.2	0.0	10.8	12.6	51.0	18.1	51.8	33.5	51.3	19.1	53.2	44.8		
06/23/05	3.9	0.0	11.9	13.6	51.5	33.9	51.2	38.0	47.9	20.2	47.0	36.7		
06/24/05	3.4	0.0	10.6	16.2	50.0	37.6	47.1	34.5	43.5	24.9	46.5	33.3		
06/25/05	2.2	0.0	9.8	13.1	49.0	23.2	50.6	35.5	47.8	24.4	48.4	19.3		
06/26/05	2.2	0.0	11.6	10.1	43.7	28.0	43.8	31.6	40.5	23.2	39.9	26.6		
06/27/05	2.2	0.0	12.3	16.5	42.5	21.0	44.0	28.7	43.6	19.7	45.0	34.8		
06/28/05	2.2	0.0	13.1	21.1	48.4	18.7	49.0	30.6	46.9	19.7	47.0	36.6		
06/29/05	2.2	0.0	15.0	21.3	59.9	33.9	58.7	30.5	56.9	19.0	57.6	47.0		
06/30/05	2.3	0.0	---	---	55.5	40.1	53.3	23.9	53.1	20.7	54.0	25.4		

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
06/17/05	191.9	76.2	177.9	41.3	175.3	63.1	191.0	91.7	2.7	85.1
06/18/05	195.4	79.2	191.1	52.1	187.0	67.6	181.7	92.5	0.0	77.7
06/19/05	137.4	36.0	139.6	38.1	136.8	53.7	155.2	92.0	0.0	51.5
06/20/05	184.1	71.6	178.9	41.1	180.2	63.1	197.5	91.4	7.3	87.3
06/21/05	202.5	86.3	177.9	62.5	176.5	48.8	186.7	86.8	3.2	84.9
06/22/05	203.4	56.9	203.8	59.6	193.7	67.5	198.7	86.3	10.8	90.1
06/23/05	218.1	51.7	230.3	68.7	222.9	74.3	224.8	91.2	20.7	101.5
06/24/05	220.5	46.4	201.8	60.2	197.2	71.5	198.8	92.6	3.3	91.5
06/25/05	213.9	37.1	213.5	63.8	204.5	67.6	212.1	93.1	12.6	94.8
06/26/05	200.5	24.6	186.8	56.2	185.3	71.8	200.3	91.0	7.1	90.7
06/27/05	196.1	19.8	212.7	63.8	203.5	72.2	201.5	95.4	8.3	86.3
06/28/05	188.9	20.5	177.7	52.2	179.5	70.2	197.9	96.2	3.7	86.4
06/29/05	184.7	20.7	194.5	58.2	192.5	72.2	193.8	97.0	5.6	79.7
06/30/05	215.5	41.8	200.5	59.3	199.0	69.7	207.1	97.1	7.1	91.4

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
Little Goose Dam											
	06/23/05	Chinook + Steelhead	6	0	0	0.00%	0.00%	0	0	0	0
	06/26/05	Chinook + Steelhead	38	0	0	0.00%	0.00%	0	0	0	0
	06/30/05	Chinook + Steelhead	100	4	4	4.00%	0.00%	4	0	0	0
Lower Monumental Dam											
	06/24/05	Chinook + Steelhead	26	1	0	0.00%	0.00%	0	0	0	0
	06/27/05	Chinook + Steelhead	5	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	06/23/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/27/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	06/21/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/25/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	06/23/05	Chinook + Steelhead	79	0	0	0.00%	0.00%	0	0	0	0
	06/27/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	06/30/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

		From:		6/17/2005		to		06/30/05			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver		
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2005	55,000	06-29-05	07-08-05	Big Canyon (Clearwater R)	Clearwater River M F		
National Marine Fisheries Service Total					55,000						
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2005	443,000	06-29-05	06-29-05	Willard Hatchery	Little White Salmon River		
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2005	1,459,863	06-23-05	06-23-05	Little White Salmon Hatchery	Little White Salmon River		
U.S. Fish and Wildlife Service Total					1,902,863						
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2005	370,930	06-28-05	06-29-05	Turtle Rock Hatchery	Mid-Columbia River		
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2005	412,203	06-28-05	06-29-05	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					11,573,133						
Grand Total					13,530,996						

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

		From:		7/1/2005		to		7/14/2005			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver		
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2005	55,000	06-29-05	07-08-05	Big Canyon (Clearwater R)	Clearwater River M F		
National Marine Fisheries Service Total					55,000						
Grand Total					55,000						

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>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>
6/17	---	---	---	0	120	120	121	16	113	113	114	24	111	111	113	16	111	111	111	24
6/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/19	---	---	---	0	120	121	121	24	111	112	112	24	110	111	112	24	110	110	110	24
6/20	---	---	---	0	120	121	122	24	112	112	113	24	110	110	113	14	110	110	111	24
6/21	---	---	---	0	121	123	124	24	112	113	113	24	109	109	112	10	111	112	112	24
6/22	---	---	---	0	121	123	124	24	112	112	113	24	109	109	110	7	110	110	111	24
6/23	---	---	---	0	121	123	124	24	112	112	112	24	109	110	113	14	110	110	110	24
6/24	---	---	---	0	121	122	123	24	111	112	112	24	110	111	111	18	110	110	111	24
6/25	---	---	---	0	120	122	122	24	112	113	113	24	110	110	112	9	111	111	111	24
6/26	---	---	---	0	119	120	122	24	112	113	113	24	109	109	111	11	111	111	111	24
6/27	---	---	---	0	119	121	122	24	112	112	113	24	110	111	112	24	110	111	111	24
6/28	---	---	---	0	117	119	119	24	112	113	113	24	110	110	112	24	110	110	110	24
6/29	---	---	---	0	117	118	120	24	112	112	113	24	110	110	111	24	109	109	110	24
6/30	---	---	---	0	117	119	122	24	112	113	113	24	110	110	112	10	110	110	110	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>				<u>Rocky Reach</u>				<u>Rocky R. Tlwr</u>					
	<u>24 h</u>	<u>12 h</u>	<u>#</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>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>
6/17	111	112	112	24	110	110	110	24	111	111	111	24	112	112	112	24	112	112	113	24
6/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/19	110	111	111	24	110	110	110	24	111	111	111	24	110	111	111	24	110	111	111	24
6/20	109	110	111	24	110	110	110	23	111	111	112	23	110	111	111	24	111	112	112	24
6/21	111	112	112	24	110	110	111	24	112	112	112	24	112	113	114	24	113	113	114	24
6/22	110	111	112	24	110	110	110	24	111	111	112	24	111	112	113	24	112	112	114	24
6/23	110	110	111	17	109	109	110	23	110	110	111	23	109	110	111	24	110	111	111	24
6/24	110	110	111	18	110	110	110	24	111	111	112	24	111	111	112	24	111	112	113	24
6/25	110	111	112	24	110	110	110	24	111	111	112	24	111	112	112	24	112	112	113	24
6/26	111	111	112	24	110	111	111	23	111	112	112	23	112	112	113	24	112	113	113	24
6/27	111	111	112	24	109	109	110	24	111	111	111	24	111	111	112	24	112	112	112	24
6/28	110	110	112	24	109	109	109	23	110	110	111	23	110	110	110	24	111	111	111	24
6/29	109	110	111	24	109	109	109	24	110	111	111	24	110	110	111	24	110	111	112	24
6/30	110	110	111	24	109	109	110	24	111	111	113	24	111	112	112	24	112	112	114	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>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>
6/17	111	111	111	24	116	117	117	24	111	111	112	24	114	116	118	24	112	114	116	24
6/18	---	---	---	0	---	---	---	0	110	111	111	24	113	115	118	24	112	114	115	24
6/19	110	110	110	24	115	116	118	24	111	112	114	24	115	117	121	24	111	112	113	24
6/20	110	110	110	24	115	117	120	24	112	114	116	24	114	116	117	24	114	115	117	24
6/21	111	112	113	24	115	116	118	24	112	113	114	24	115	116	117	24	114	115	116	24
6/22	111	112	112	24	117	117	118	24	110	111	112	24	112	114	117	24	111	112	114	24
6/23	111	111	112	24	116	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0
6/24	111	112	112	24	116	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
6/25	112	112	113	24	117	118	119	24	---	---	---	0	---	---	---	0	---	---	---	0
6/26	112	112	112	24	117	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
6/27	111	112	112	24	116	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0
6/28	111	111	111	24	116	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
6/29	111	111	111	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
6/30	111	112	112	24	117	118	118	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>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
6/17	119	119	121	24	101	102	102	24	101	103	107	24	101	101	102	24	102	103	103	24
6/18	117	117	118	24	99	100	101	24	---	---	---	0	---	---	---	0	---	---	---	0
6/19	113	115	117	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/20	118	120	121	24	111	112	113	14	100	101	102	24	101	103	104	24	104	105	105	24
6/21	120	120	121	24	113	115	117	24	101	102	103	24	102	103	104	24	105	108	142	23
6/22	118	119	120	24	112	113	114	24	100	101	102	24	101	102	103	24	103	104	104	24
6/23	---	---	---	0	112	114	114	24	100	101	101	24	101	102	103	24	102	104	104	24
6/24	---	---	---	0	113	114	115	24	102	102	103	16	100	101	103	16	103	104	104	24
6/25	---	---	---	0	113	114	115	24	100	100	101	9	96	96	97	2	102	103	104	24
6/26	---	---	---	0	112	114	115	24	101	102	103	20	96	96	96	1	102	103	104	24
6/27	---	---	---	0	110	111	111	24	100	101	102	24	96	96	97	5	101	101	102	24
6/28	---	---	---	0	111	112	113	24	101	102	104	24	100	101	102	14	101	102	102	24
6/29	---	---	---	0	112	113	114	24	100	101	102	24	101	102	104	24	102	103	104	24
6/30	---	---	---	0	114	115	116	24	100	101	102	24	101	102	104	24	103	105	106	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>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
6/17	101	102	103	24	105	105	106	24	103	103	104	24	104	105	105	24	103	104	104	24
6/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/19	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/20	103	104	106	24	103	105	106	24	119	120	120	24	104	105	106	24	117	117	118	24
6/21	103	105	106	24	104	105	106	24	112	115	120	24	105	105	105	24	116	117	118	24
6/22	102	103	105	24	103	103	104	24	110	110	112	24	103	104	104	24	115	117	119	24
6/23	102	103	105	23	105	107	110	24	116	118	119	24	103	103	103	24	116	119	120	24
6/24	101	102	105	16	108	110	113	24	118	119	119	24	106	108	110	24	117	118	120	24
6/25	100	100	101	8	106	107	111	24	113	115	119	24	110	110	111	13	120	120	120	13
6/26	102	103	106	19	107	109	113	24	115	116	117	24	110	110	110	24	117	118	120	24
6/27	100	101	102	24	106	108	111	24	112	114	116	24	110	110	111	24	116	116	116	24
6/28	100	101	102	24	105	106	108	24	111	112	112	24	111	111	111	24	116	117	119	24
6/29	102	104	105	24	103	104	106	24	116	118	118	24	111	111	111	24	116	117	118	24
6/30	102	104	106	24	105	106	108	24	119	120	120	24	110	111	111	24	114	115	116	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>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
6/17	103	103	104	24	104	104	105	24	105	105	105	24	115	117	118	24	111	112	113	24
6/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	110	111	113	24
6/19	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/20	103	103	103	24	115	117	118	24	103	103	104	24	113	115	115	24	110	112	113	24
6/21	104	104	105	24	118	118	119	24	104	104	104	24	114	114	115	24	110	112	116	24
6/22	104	106	110	24	116	117	117	24	104	105	106	24	115	116	118	24	109	109	110	24
6/23	110	111	114	24	118	120	120	24	108	109	110	24	114	116	116	24	110	111	115	24
6/24	113	113	114	24	120	120	120	24	111	112	112	24	114	115	116	24	111	113	117	24
6/25	114	114	115	14	120	120	121	14	112	112	112	15	113	113	115	15	114	115	118	24
6/26	116	117	118	24	119	120	120	24	114	115	116	24	114	114	116	24	113	114	115	24
6/27	116	117	118	24	118	118	118	24	115	116	116	24	114	115	115	24	111	111	111	24
6/28	115	115	116	24	118	118	118	24	115	115	116	24	114	115	116	24	109	110	112	24
6/29	115	115	116	24	117	118	118	24	113	114	114	24	115	116	116	24	110	113	115	24
6/30	114	114	115	24	118	119	119	24	113	114	114	24	115	115	116	24	111	113	115	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				
6/17	111	111	112	24	114	117	118	24	105	105	106	23	111	117	118	24	109	111	113	23
6/18	111	111	112	24	114	118	119	24	105	106	106	23	111	116	118	24	108	111	113	23
6/19	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
6/20	111	112	113	24	114	116	118	24	107	108	111	23	112	117	118	24	111	113	114	23
6/21	111	112	113	24	115	118	119	24	108	108	109	23	116	118	119	24	109	110	113	23
6/22	110	110	111	24	113	116	120	24	106	106	106	23	116	117	119	24	107	108	110	23
6/23	109	110	111	24	113	115	117	24	106	107	108	23	118	119	119	24	107	108	110	23
6/24	112	113	113	24	113	113	113	24	108	108	109	23	116	118	119	24	110	110	111	23
6/25	114	114	115	24	114	114	114	24	107	108	108	23	117	118	119	24	108	108	109	23
6/26	114	115	115	24	113	114	114	24	107	107	107	23	115	116	118	24	108	108	108	23
6/27	111	112	113	24	112	112	112	24	106	106	107	23	117	119	119	24	107	107	108	23
6/28	109	109	110	24	111	111	111	24	105	105	105	23	115	116	118	24	107	107	108	23
6/29	109	109	110	24	111	111	111	24	104	104	105	23	116	118	119	24	106	106	108	23
6/30	111	111	111	24	112	112	113	24	104	105	105	23	117	118	119	24	108	108	108	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashougal</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				
6/17	113	114	116	24	111	111	112	23	116	117	119	23	111	114	116	24	116	116	120	17
6/18	114	115	116	24	110	111	111	23	115	117	119	23	112	113	115	24	115	116	120	17
6/19	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	115	115	120	15
6/20	114	115	116	24	110	111	111	23	116	118	120	23	114	117	119	24	115	115	118	17
6/21	112	114	116	24	109	110	111	23	114	116	118	23	111	113	114	24	115	115	117	17
6/22	113	113	114	24	106	107	108	23	113	114	116	23	110	111	113	24	115	116	118	17
6/23	113	114	115	24	106	108	108	23	113	115	118	23	109	111	115	24	117	117	120	17
6/24	115	115	116	24	109	109	110	23	115	116	119	19	110	113	115	24	115	116	119	17
6/25	114	114	115	24	108	108	109	23	114	116	118	23	111	113	115	24	116	116	120	17
6/26	113	114	114	24	108	108	108	23	114	116	119	23	110	112	115	24	115	116	120	17
6/27	113	113	114	24	107	107	108	23	114	117	120	23	110	112	114	24	115	116	119	17
6/28	113	113	114	24	107	107	107	23	114	116	118	23	109	111	113	24	115	115	119	17
6/29	112	113	113	24	106	106	106	23	114	117	120	23	111	114	117	24	115	116	119	17
6/30	113	113	114	24	107	108	108	23	114	117	120	23	111	114	118	24	116	116	120	17

Two-Week Summary of Passage Indices

* One or more of the sites on this date had an incomplete or biased sample.

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

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmptsubmitdata.asp>

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)	
06/17/2005	*	---	---	---	20	750	225	10	5	---	1,295	1,369
06/18/2005		---	---	---	8	575	490	170	0	4,945	1,032	740
06/19/2005	*	---	---	---	11	2,400	181	174	0	---	822	589
06/20/2005		---	---	---	11	1,615	1,009	256	0	1,270	1,186	376
06/21/2005	*	---	---	---	18	832	714	14	5	---	2,316	311
06/22/2005		---	---	---	2	125	0	6	0	902	585	247
06/23/2005	*	---	---	---	---	8	17	22	0	---	142	404
06/24/2005		---	---	---	---	163	18	58	0	1,831	107	592
06/25/2005		---	---	---	---	32	0	19	1	3,211	528	336
06/26/2005		---	---	---	---	27	3	18	0	2,107	47	144
06/27/2005		---	---	---	---	0	7	16	1	2,850	253	86
06/28/2005		---	---	---	---	21	3	16	0	1,677	201	0
06/29/2005		---	---	---	---	139	8	14	2	1,812	145	44
06/30/2005		---	---	---	---	653	20	46	0	1,355	77	68
07/01/2005		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	70	7,340	2,695	839	14	21,960	8,736	5,306	
# Days:	0	0	0	6	14	14	14	14	10	14	14	
Average:	0	0	0	12	524	193	60	1	2,196	624	379	
YTD	43,641	42,756	5,792	1,810	5,672,455	2,474,951	705,122	14,785	1,213,114	1,406,690	1,526,234	

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)	
06/17/2005	*	---	---	---	0	21,050	7,476	3,790	41	---	8,378	9,159
06/18/2005		---	---	---	1	35,400	16,724	4,472	78	518,320	14,126	10,629
06/19/2005	*	---	---	---	0	34,550	11,563	6,450	64	---	65,198	10,639
06/20/2005		---	---	---	1	29,958	46,127	10,829	63	403,519	76,151	14,485
06/21/2005	*	---	---	---	1	20,972	24,053	1,852	137	---	124,892	68,620
06/22/2005		---	---	---	4	3,160	1,631	314	126	281,385	92,786	67,040
06/23/2005	*	---	---	---	---	1,997	1,526	1,343	182	---	62,519	103,852
06/24/2005		---	---	---	---	4,706	2,358	2,504	216	593,855	92,939	117,022
06/25/2005		---	---	---	---	7,382	1,926	675	302	586,866	79,596	105,824
06/26/2005		---	---	---	---	2,925	1,968	639	277	159,582	82,495	142,468
06/27/2005		---	---	---	---	6,254	2,791	691	396	286,508	36,544	89,516
06/28/2005		---	---	---	---	3,431	3,564	816	604	398,179	45,924	93,780
06/29/2005		---	---	---	---	12,985	3,462	1,862	1,408	308,031	26,348	73,094
06/30/2005		---	---	---	---	10,540	6,023	2,272	644	266,289	21,244	70,103
07/01/2005		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	7	195,310	131,192	38,509	4,538	3,802,534	829,140	976,231	
# Days:	0	0	0	6	14	14	14	14	10	14	14	
Average:	0	0	0	1	13,951	9,371	2,751	324	380,253	59,224	69,731	
YTD	0	86	1,224	1,152	1,700,889	1,175,987	170,053	12,763	4,712,580	1,013,365	2,987,135	

Two-Week Summary of Passage Indices

COMBINED COHO												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
06/17/2005	*	---	---	---	0	50	0	0	0	---	431	442
06/18/2005		---	---	---	0	250	120	10	10	354	158	856
06/19/2005	*	---	---	---	0	450	140	18	8	---	54	702
06/20/2005		---	---	---	0	222	112	23	4	0	241	167
06/21/2005	*	---	---	---	0	166	34	0	8	---	66	221
06/22/2005		---	---	---	0	0	0	0	12	0	96	433
06/23/2005	*	---	---	---	0	0	23	3	12	---	0	1,042
06/24/2005		---	---	---	0	9	8	6	122	143	550	
06/25/2005		---	---	---	0	0	0	6	128	36	336	
06/26/2005		---	---	---	7	0	0	10	234	47	142	
06/27/2005		---	---	---	14	17	0	10	0	0	173	
06/28/2005		---	---	---	0	12	3	22	112	73	307	
06/29/2005		---	---	---	6	13	0	17	113	0	133	
06/30/2005		---	---	---	0	22	5	8	226	1	90	
07/01/2005		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	0	1,165	502	70	133	1,289	1,346	5,594	
# Days:	0	0	0	6	14	14	14	14	10	14	14	
Average:	0	0	0	0	83	36	5	10	129	96	400	
YTD	0	0	0	110	305,048	191,526	24,295	37,066	103,168	191,267	770,550	

COMBINED STEELHEAD												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
06/17/2005	*	---	---	---	0	1,700	250	130	6	---	289	339
06/18/2005		---	---	---	1	3,225	670	116	21	178	190	148
06/19/2005	*	---	---	---	1	4,450	820	270	16	---	27	102
06/20/2005		---	---	---	0	2,914	1,691	731	3	0	45	167
06/21/2005	*	---	---	---	1	2,164	914	130	9	---	0	131
06/22/2005		---	---	---	0	438	60	44	26	178	96	113
06/23/2005	*	---	---	---	227	69	10	23	---	0	234	
06/24/2005		---	---	---	193	264	274	8	244	72	169	
06/25/2005		---	---	---	332	203	86	10	642	0	67	
06/26/2005		---	---	---	93	75	106	7	1,522	204	285	
06/27/2005		---	---	---	151	42	27	6	456	0	0	
06/28/2005		---	---	---	178	256	67	3	447	3	0	
06/29/2005		---	---	---	196	175	66	7	566	274	44	
06/30/2005		---	---	---	212	250	83	0	903	74	23	
07/01/2005		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:	0	0	0	3	16,473	5,739	2,140	145	5,136	1,274	1,822	
# Days:	0	0	0	6	14	14	14	14	10	14	14	
Average:	0	0	0	1	1,177	410	153	10	514	91	130	
YTD	3,754	36,509	2,454	7,263	5,935,268	2,921,182	675,221	15,921	193,136	524,215	186,105	

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)
06/17/2005 *	---	---	---	0	100	50	10	0	---	116	101
06/18/2005	---	---	---	0	50	20	12	0	178	206	53
06/19/2005 *	---	---	---	0	100	40	18	0	---	0	11
06/20/2005	---	---	---	0	32	149	12	0	140	92	42
06/21/2005 *	---	---	---	0	416	169	0	2	---	66	10
06/22/2005	---	---	---	1	16	181	0	0	0	0	21
06/23/2005 *	---	---	---	---	0	17	7	0	---	0	85
06/24/2005	---	---	---	---	15	23	10	0	122	36	42
06/25/2005	---	---	---	---	0	15	0	1	385	72	136
06/26/2005	---	---	---	---	0	0	18	3	234	0	142
06/27/2005	---	---	---	---	0	3	2	7	0	0	0
06/28/2005	---	---	---	---	0	0	0	12	0	19	88
06/29/2005	---	---	---	---	0	5	14	7	113	0	0
06/30/2005	---	---	---	---	0	22	14	13	226	11	0
07/01/2005	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	1	729	694	117	45	1,398	618	731
# Days:	0	0	0	6	14	14	14	14	10	14	14
Average:	0	0	0	0	52	50	8	3	140	44	52
YTD	115	0	0	263	38,391	41,288	8,200	1,734	103,116	83,781	41,726

* 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:

7/1/05 9:40 AM

		06/18/05 TO 07/01/05						
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	144,537	5,718	987	414	13,275	164,931	
	Sum of NumberBarged	157,533	6,792	1,087	483	15,810	181,705	
	Sum of NumberBypassed	903	0	0	0	0	903	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	89	5	0	0	2	96	
	Sum of FacilityMorts	619	28	0	3	17	667	
	Sum of ResearchMorts	23	0	0	0	0	23	
	Sum of TotalProjectMorts	731	33	0	3	19	786	
LGS	Sum of NumberCollected	88,995	1,946	395	369	3,840	95,545	
	Sum of NumberBarged	103,895	2,618	376	358	4,437	111,684	
	Sum of NumberBypassed	503	5	9	0	0	517	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	24	0	1	0	3	28	
	Sum of FacilityMorts	74	17	0	0	24	115	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	98	17	1	0	27	143	
LMN	Sum of NumberCollected	31,319	699	59	86	1,618	33,781	
	Sum of NumberBarged	35,175	805	56	91	1,603	37,730	
	Sum of NumberBypassed	2,337	0	0	0	28	2,365	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	27	0	0	0	1	28	
	Sum of FacilityMorts	77	4	0	1	6	88	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	104	4	0	1	7	116	
MCN	Sum of NumberCollected	2,936,199	16,824	1,001	1,101	4,301	2,959,426	
	Sum of NumberBarged	2,177,294	12,478	794	857	4,014	2,195,437	
	Sum of NumberBypassed	741,759	4,199	200	200	199	746,557	
	Sum of Numbertrucked	0	0	0	0	0	0	
	Sum of SampleMorts	214	3	0	0	2	219	
	Sum of FacilityMorts	16,932	144	7	44	86	17,213	
	Sum of ResearchMorts	0	0	0	0	0	0	
	Sum of TotalProjectMorts	17,146	147	7	44	88	17,432	
Total Sum of NumberCollected		3,201,050	25,187	2,442	1,970	23,034	3,253,683	
Total Sum of NumberBarged		2,473,897	22,693	2,313	1,789	25,864	2,526,556	
Total Sum of NumberBypassed		745,502	4,204	209	200	227	750,342	
Total Sum of Numbertrucked		0	0	0	0	0	0	
Total Sum of SampleMorts		354	8	1	0	8	371	
Total Sum of FacilityMorts		17,702	193	7	48	133	18,083	
Total Sum of ResearchMorts		23	0	0	0	0	23	
Total Sum of TotalProjectMorts		18,079	201	8	48	141	18,477	

YTD Transportation Summary

Source: Fish Passage Center

Updated:

7/1/05 9:40 AM

TO: 07/01/05

Site	Data	Species					Grand Total
		CH0	CH1	CO	SO	ST	
LGR	Sum of NumberCollected	1,556,728	5,536,785	286,001	31,604	5,590,601	13,001,719
	Sum of NumberBarged	1,528,925	5,234,922	257,634	30,271	5,093,771	12,145,523
	Sum of NumberBypassed	11,728	278,605	26,286	490	448,421	765,530
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	358	453	16	15	66	908
	Sum of FacilityMorts	11,911	13,604	1,194	341	5,257	32,307
	Sum of ResearchMorts	23	103	0	0	2	128
	Sum of TotalProjectMorts	12,292	14,160	1,210	356	5,325	33,343
LGS	Sum of NumberCollected	1,130,999	2,451,104	185,888	38,763	2,856,867	6,663,621
	Sum of NumberBarged	1,074,512	2,015,715	151,161	37,724	2,276,544	5,555,656
	Sum of NumberBypassed	50,397	428,571	34,632	938	571,464	1,086,002
	Sum of NumberTrucked	4	223	0	27	291	545
	Sum of SampleMorts	88	126	12	4	67	297
	Sum of FacilityMorts	3,014	6,443	74	59	8,376	17,966
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,102	6,589	86	63	8,443	18,283
LMN	Sum of NumberCollected	161,015	670,158	21,529	7,337	613,982	1,474,021
	Sum of NumberBarged	153,944	511,290	17,003	7,140	456,450	1,145,827
	Sum of NumberBypassed	5,333	145,571	4,521	99	154,890	310,414
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	41	39	0	3	26	109
	Sum of FacilityMorts	216	516	2	26	327	1,087
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	257	555	2	29	353	1,196
MCN	Sum of NumberCollected	3,486,760	717,654	61,080	59,812	117,926	4,443,232
	Sum of NumberBarged	2,177,294	12,478	794	857	4,014	2,195,437
	Sum of NumberBypassed	1,291,531	702,217	60,102	58,589	113,558	2,225,997
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	312	120	8	18	8	466
	Sum of FacilityMorts	17,613	2,763	170	336	344	21,226
	Sum of ResearchMorts	10	76	6	12	2	106
	Sum of TotalProjectMorts	17,935	2,959	184	366	354	21,798
Total Sum of NumberCollected		6,335,502	9,375,701	554,498	137,516	9,179,376	25,582,593
Total Sum of NumberBarged		4,934,675	7,774,405	426,592	75,992	7,830,779	21,042,443
Total Sum of NumberBypassed		1,358,989	1,554,964	125,541	60,116	1,288,333	4,387,943
Total Sum of NumberTrucked		408	21,818	871	574	45,541	69,212
Total Sum of SampleMorts		799	738	36	40	167	1,780
Total Sum of FacilityMorts		32,754	23,326	1,440	762	14,304	72,586
Total Sum of ResearchMorts		33	199	6	12	4	254
Total Sum of TotalProjectMorts		33,586	24,263	1,482	814	14,475	74,620

Cumulative Adult Passage at Mainstem Dams Through: 06/30

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	74,038	4,288	170,152	8,885	145,297	8,221	48,511	2,519	59,920	7,794	33,192	3,962	0	0	0	0	0	0
TDA	60,956	3,209	130,240	7,717	99,119	5,946	41,161	1,746	48,488	4,680	26,355	2,568	0	0	0	0	0	0
JDA	55,877	2,715	112,153	6,367	82,666	4,703	35,617	1,909	42,942	5,374	23,178	2,107	0	0	0	0	0	0
MCN	57,852	3,168	107,497	7,682	76,092	4,941	34,386	1,305	35,553	3,843	21,021	2,052	0	0	0	0	0	0
IHR	27,666	1,224	77,106	4,646	51,680	3,159	6,759	585	9,982	1,948	7,956	1,144	0	0	0	0	0	0
LMN	25,936	999	71,578	3,785	49,507	2,979	5,624	367	7,571	1,374	6,984	896	0	0	0	0	0	0
LGS	24,341	928	62,458	3,404	47,589	3,042	3,776	346	6,113	1,364	5,752	934	0	0	0	0	0	0
LWG	25,409	1,191	70,742	4,482	47,410	3,274	2,035	272	5,719	1,406	5,492	897	0	0	0	0	0	0
PRD	14,148	515	13,521	1,020	15,454	477	24,282	533	26,558	821	9,857	274	0	0	0	0	0	0
RIS	12,220	510	10,918	958	12,149	699	10,611	368	12,299	1,372	5,531	471	0	0	0	0	0	0
RRH	4,652	425	4,365	734	4,426	242	5,203	83	4,903	377	2,366	151	0	0	0	0	0	0
WEL	4,897	99	4,615	178	3,006	190	600	5	258	7	427	14	0	0	0	0	0	0
WFA	33,607	1,118	93,084	704	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		10-Yr Avg.			10-Yr Avg.			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	0	-1	0	0	0	0	44,254	97,668	38,762	11,485	21,066	15,194	4,155
TDA	1	0	0	0	0	0	34,834	81,547	30,288	5,257	8,308	5,669	2,340
JDA	4	-12	0	0	0	0	31,785	80,420	30,318	4,471	8,306	7,227	1,573
MCN	0	0	0	0	0	0	27,341	61,557	23,055	3,793	5,514	4,033	1,239
IHR	0	0	0	0	0	0	5	53	8	2,633	3,275	2,505	958
LMN	0	0	2	0	0	0	3	27	7	2,092	2,652	2,319	695
LGS	0	0	0	0	0	0	0	17	5	1,501	2,425	2,344	604
LWG	0	0	0	0	0	0	2	27	3	5,199	8,039	6,464	1,655
PRD	0	1	0	0	0	0	17,031	67,031	18,373	164	602	135	n/a
RIS	2	0	0	0	0	0	3,560	15,041	3,940	176	457	92	163
RRH	0	0	0	0	1	0	1,318	7,973	1,972	401	518	105	390
WEL	0	0	0	0	0	0	850	4,042	1,166	76	124	22	65
WFA	0	0	0	0	n/a	n/a	0	0	n/a	15,968	39,123	n/a	n/a

WFA ,RIS,RRH are through 6/28; BON,TDA, JDA, WEL is through 6/29. LGR is missing 6/12; IHR missing 6/10 and 6/11.

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: 07/01/05

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

