



*Fish Passage Center*

# Weekly Report #05 - 19

July 15, 2005

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## Highlights:

- Precipitation has been below average over the first eleven days of July at most Columbia Basin locations
- River flows at Lower Granite Dam have averaged 45.5 Kcfs between June 21-July 14 and 39.3 Kcfs last week
- River flows at McNary Dam have averaged 190.5 Kcfs July 1st through July 14th and 193.3 Kcfs last week.
- Outflows at Dworshak have been increased to 12.0 Kcfs for flow and temperature augmentation in the lower Snake River.
- Spill at The Dalles Dam averaged 39% 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 at Lower Granite, Little Goose and Lower Monumental dams on June 20, 2005. Spill at McNary Dam began on July 1. All other Lower Columbia River projects and Ice Harbor dam are implementing the Biological Opinion summer spill program.

## Summary of Events:

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

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

Location	Water Year 2005 July 1-11		Water Year 2005 October 1, 2004 to July 11, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.53	84	20.34	96
SNAKE RIVER Above Ice Harbor	0.18	56	15.58	101
Columbia Above The Dalles	0.41	93	18.33	91
Kootenai	0.77	114	20.68	95
Clark Fork	0.12	29	12.66	87
Flathead	0.12	21	20.07	103
Pend Oreille/Spokane	0.54	111	24.75	89
Central Washington	0.05	39	6.49	80
SNAKE RIVER Plain	0.02	11	12.01	123
Salmon/Boise/Payette	0.12	44	15.24	85
Clearwater	0.30	58	23.70	87
SW Washington Cascades/Cowlitz	0.89	181	49.06	74
Willamette Valley	0.29	97	39.71	71

Water Supply Forecasts have varied between the June Final and July Final Forecasts, some sites have increased and others have decreased. For example, forecasts at Libby and Hungry Horse have increased 7-8% with respect to average (between June Final and July Final), while Lower Granite and Dworshak have decreased 2-4%. Table 2 displays the June Final and July 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. June Final and the July Final 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		July Final		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	76	81200	58200
Grand Coulee (Jan-July)	84	53000	88	55500	37400
Libby Res. Inflow, MT (Jan-July)	85	5350	93	5860	3341
Hungry Horse Res. Inflow, MT (Jan-July)	75	1660	82	1820	1300
Lower Granite Res. Inflow (Apr- July)	68	14600	66	14200	10300
Brownlee Res. Inflow (Apr-July)	54	3410	54	3410	1970*
Dworshak Res. Inflow (Apr-July)	68	1800	64	1690	1470

The summer flow objective period began at Lower Granite Dam on June 21st, 2005 with a flow objective of 50 Kcfs. River flows at Lower Granite Dam have averaged 45.5 Kcfs between June 21-July 14 and 39.3 Kcfs last week.

The summer flow objective period began on July 1st, 2005 at McNary Dam with a flow objective of 200 Kcfs. River flows at McNary Dam have averaged 190.5 Kcfs July 1st through July 14th and 193.3 Kcfs last week.

Grand Coulee Reservoir is currently at an elevation of 1288.3 feet (July 14th, 2005 midnight) and has drafted 0.7 feet in the last week. Grand Coulee is projected to draft to elevation 1278 feet by the end of August.

The Libby Reservoir is currently at an elevation of 2457.4 feet (7-14-05). Outflows at Libby are currently 24.2 Kcfs, and inflows are 18.2 Kcfs. Libby is projected to draft to elevation 2439 feet by the end of August.

Hungry Horse is currently at an elevation of 3557.6 feet (July 14th, 2005 midnight) and has drafted 1.2 feet in the last week. Outflows at Hungry Horse are currently 4.8 Kcfs. Hungry Horse is projected to draft to elevation 3540 feet by the end of August.

Dworshak is currently an elevation of 1592.1 feet (July 14th, 2005 midnight). Outflows at Dworshak have been increased to 12.0 Kcfs for flow and temperature augmentation in the lower Snake River.

The Brownlee Reservoir was at an elevation of 2066.4 feet on July 14th, 2005 with outflows ranging between 9.2 and 18.0 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 was further reduced this past week to 30% 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 at Little Goose Dam. 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 has been adjusted according to the total dissolved gas levels and is currently at 22.8 Kcfs. Spill averaged 62% of daily average flows at Lower Granite, 42% of daily average flows at Little Goose, 58% of daily average flows at Lower Monumental and 50% of daily average flows at Ice Harbor over the past week.

Biological Opinion summer spill at the lower Columbia River projects and the court ordered spill at McNary Dam are in place. Spill at McNary Dam averaged 71% of daily average flow. Spill at John Day Dam averaged 30% of daily average flow. Spill at John Day is now changed from the spring-time pattern of 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 averaged less (39%) than the 40% specified in the Biological Opinion but is closer than it has been most of the season. Spill at Bonneville Dam averaged 51% of average daily flow over the past week.

No fish were observed with minor signs of gas bubble trauma in the monitoring program over the past week in the federal hydrosystem and only one fish was observed with minor signs of GBT at Rock Island Dam.

**Smolt Monitoring:** Passage indices for subyearling Chinook were lower again this week at most SMP sites. However, at John Day indices were up this past week, while at Bonneville Dam indices dropped a relatively small amount. Rock Island Dam also saw increases in subyearling Chinook collection this past week. Numbers of spring migrants continued to decreased again this week at all SMP sites.

At Lower Granite Dam in the Lower Snake River the subyearling Chinook average passage index dropped to 1,500 per day this week compared to 3,000 the previous week. Indices for spring migrants were down again this week as well. Based on PIT-tag data the collection efficiency at Lower Granite since spill began is roughly 20% so that the index is well below the true total numbers of fish passing in spill.

At Little Goose Dam the subyearling Chinook indices were up the past two weeks as spill was reduced at the site. The reduction in spill, implemented to improve adult fish passage, resulted in increased turbine operation and therefore increased collection of juvenile fish. The past two days there was a large increase in subyearling collection at the site indicating that good numbers of subyearlings are still passing in the Lower Snake River.

In the Mid-Columbia, at Rock Island Dam, subyearling indices were up this week, with the weekly average index 450 compared to 310 last week. These seemingly low numbers indicate that at Rock Island subyearling passage numbers remain relatively high for this time of year. 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 60,000 per day compared to 200,000 per day last week. The high indices reflect the release of 10 million smolts from Ringold and Priest Rapids hatcheries three 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. Summer spill operations, as ordered by Judge Redden began July 1, and resulted in decrease collection of fish at the project as spill was increased. We estimate collection efficiency, based on PIT-tagged fish at approximately 20% compared to 50% during summer operations without spill.

John Day Dam and Bonneville Dam saw high subyearling indices continue this past week while indices continued to decline for all spring migrants. At John Day Dam the index for subyearling chinook averaged 58,000 this week compared to 44,000 last week while at Bonneville Dam the subyearling index averaged 39,000 this past week down from 44,000 last week.

**Hatchery Releases** - The Zone Release Report below summarizes "planned" releases of juvenile salmonids (species) from State, Federal or Tribal hatcheries or acclimation ponds for the 2005 migration. For the 2005 migration season, approximately 83.8 million juvenile fish were released from hatcheries in the river systems located above Bonneville Dam. These totals will be updated and finalized throughout the year. There will be some hatchery releases completed this summer and fall, but the majority of those fish should migrate the following year.

### Hatchery Zone Release Report

	Wednesday 13-Jul-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	5,194,338	19,747,364
Summer Chinook	2,348,012	3,377,964		5,725,976
Coho	816,300	1,868,096	5,149,846	7,834,242
Sockeye	209,046	592,459		801,505
Summer Steelhead	8,887,764	1,167,754	533,735	10,589,253
Winter Steelhead			115,453	115,453
Total	26,609,175	24,668,168	32,560,511	83,837,854

### 2004 Final Hatchery Zone Release Report

	Friday 15-Jul-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,579,347	12,183,684	21,996,183	36,759,214
Spring Chinook	10,482,986	3,973,904	5,272,710	19,729,600
Summer Chinook	2,374,050	3,331,738		5,705,788
Coho	1,367,111	2,387,222	6,017,123	9,771,456
Sockeye	76,927	315,790		392,717
Summer Steelhead	9,225,386	1,184,775	482,581	10,892,742
Winter Steelhead			97,858	97,858
Total	26,105,807	23,377,113	33,866,455	83,349,375

The 2004 hatchery zone report was inserted to give perspective of differences and similarities of juvenile salmon released in the two years (04 and 05).

**Snake River** - Fall Chinook salmon releases increased from 2.6 million in 2004 to 4.9 million in 2005; mainly due to the available numbers of subyearling Chinook at Lyons Ferry and other facilities. Included was the initial release of subyearling fall Chinook into the Grande Ronde River in 2005. Hatchery spring Chinook releases were down about 1 million from 2004; however, the 9.4 million ranks high among the release totals from the FPC database. The steelhead releases were less than 9.0 million for the 2005 season. Most other releases were fairly close to the preceding year.

**Mid-Columbia** - The numbers released in this Zone showed a modest increase from the preceding year. Most of the increase was due to yearling spring Chinook released from Ringold Hatchery and yearling spring Chinook released in the Walla Walla River. These two releases account for most of the increase in this Zone. The other

new release was the release of fry sockeye salmon in Lake Skaha located above the current spawning area of adult sockeye in Lake Osoyoos.

**Lower Columbia** - The overall number of juvenile salmon released in 2005 was reduced about 1.3 million in this Zone from the preceding year. The largest reduction was in coho salmon, about 800,000 less; with fall Chinook accounting for another 400,000.

**Adult Fish Passage** -At Bonneville Dam, counts of summer Chinook averaged 858 fish per day for the week ending July 13; reduced from the previous week's daily average count. The season total is now 67,159, about 84.2% and 146.1% of the respective 2004 and 10-year average. The peak daily count was 950 on July 9, with the low count of 702 on July 11th. The adult summer Chinook count at The Dalles Dam was 57,179, about 85.1% of the Bonneville passage total through July 13. About 53,000 Summer Chinook have passed McNary Dam with the majority (45,900) moving upstream into the Mid-Columbia River. Daily counts at Priest Rapids ranged between 600 and 2,200 during the week. Greater than 33,000 have passed Rock Island Dam with 22,000 or 2/3 of these fish continuing upstream past Rocky Reach Dam. The Wenatchee River, located between the two projects, is one of the primary destinations for the summer Chinook in the Mid-Columbia. About 8,200 summer Chinook have been counted at Ice Harbor Dam. To date, approximately 6,100 of these summer migrants have been counted at Lower Granite Dam. These fish are primarily destined for the S. Fork Salmon River, Pahsimeroi River, Lostine River and the Imnaha River.

At Bonneville Dam, steelhead counts increased throughout the week with the average daily count of 1,573 per day, about 200 greater per day than the previous week. Through July 13, the steelhead run at Bonneville totaled 30,396, about 72% and 89.8% of the respective 2004 and 10-year average counts. The daily counts at the Dalles Dam ranged between 900-1,200 for the week with the cumulative steelhead count through July 13 of 16,291. About 53% of the steelhead counted at Bonneville have passed The Dalles

Dam. The majority of the 11,451 steelhead counted at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 6,039 for the season. The cumulative count at Priest Rapids Dam is 514 for the season. One Note: Although early in the passage season, it appears, based on PIT tagged adult returns that the majority of them are 2-ocean age returnees rather than the 1-ocean age fish that normally dominate the A-Run steelhead run.

Adult sockeye salmon passage at Bonneville Dam decreased to average 736 per day through the week with the count at Bonneville through July 13 at 68,232, about 57% and 133% of the respective 2004 and 10-year average count. About 63,200 of the adult sockeye have been counted at Priest Rapids Dam with 47,200 (count through July 12) now above Rock Island Dam. One major spawning site for the sockeye is Lake Wenatchee with the other major site at Lake Osoyoos (Okanogan basin). The count of sockeye past Rocky Reach and Wells dams will be comprised of the Osoyoos sockeye while the number of sockeye destined for the Lake Wenatchee will be the approximate difference between the Rock Island count minus the Rocky Reach count. The Snake River sockeye salmon are few and far between with counts ranging between 7 and 15 at the projects.

**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
07/01/05	136.9	0.3	143.9	0.0	155.4	10.7	155.5	13.9	158.1	29.1	163.1	9.1	165.6	96.8
07/02/05	125.9	0.2	123.9	0.0	133.4	8.7	133.1	12.4	136.1	27.8	135.4	9.7	138.6	81.2
07/03/05	70.9	0.2	75.3	0.0	90.3	7.5	92.5	8.9	95.3	20.0	120.7	8.7	129.7	75.9
07/04/05	77.1	0.3	74.6	0.0	98.6	7.7	98.9	7.9	101.5	20.1	122.6	8.3	120.3	70.4
07/05/05	132.5	0.2	125.4	0.0	113.4	9.9	104.6	13.1	106.4	29.5	106.6	7.4	109.6	64.3
07/06/05	149.0	0.2	145.4	0.0	149.4	10.0	139.7	11.5	139.4	26.3	102.9	8.7	96.9	57.1
07/07/05	146.8	0.2	150.0	0.0	156.4	10.3	153.9	12.7	155.5	29.2	153.2	9.0	154.5	90.0
07/08/05	143.2	0.2	146.3	0.0	157.7	10.0	156.5	12.4	157.9	28.1	168.1	8.7	176.6	103.3
07/09/05	121.4	0.2	121.0	0.0	124.0	10.0	124.1	12.6	125.4	27.3	118.8	9.1	121.1	70.6
07/10/05	113.9	0.2	109.8	0.0	119.0	9.0	115.5	12.3	120.8	27.1	127.4	8.8	131.4	77.1
07/11/05	151.3	0.0	150.8	0.0	156.0	10.0	143.3	13.3	145.7	30.2	140.2	6.6	143.3	83.3
07/12/05	143.1	0.2	141.3	0.0	148.4	10.0	151.8	11.4	147.9	28.1	152.7	2.2	157.4	92.2
07/13/05	149.3	0.2	149.7	0.0	156.0	10.0	159.5	12.4	154.0	28.1	153.5	1.8	155.4	90.6
07/14/05	154.8	0.5	155.2	0.0	159.9	10.1	155.6	13.6	159.2	30.5	159.0	2.3	160.1	93.5

**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
07/01/05	4.1	0.0	13.4	16.2	51.5	24.2	53.3	17.8	53.1	21.9	52.0	19.6	39.7	27.3
07/02/05	4.1	0.0	12.0	12.3	45.0	29.7	41.7	17.4	40.8	21.9	39.7	27.3	35.4	25.1
07/03/05	4.1	0.0	12.0	14.7	41.0	21.2	39.5	17.4	36.7	21.2	35.4	25.1	45.6	22.9
07/04/05	4.1	0.0	12.0	13.6	40.6	18.3	43.8	17.9	44.9	21.9	45.6	22.9	40.3	17.8
07/05/05	6.4	0.0	11.4	16.8	42.4	30.1	41.1	17.5	39.1	17.6	40.3	17.8	42.1	29.7
07/06/05	7.2	0.0	11.3	20.2	44.2	21.4	44.1	18.7	42.6	22.8	42.1	29.7	45.4	35.2
07/07/05	7.2	0.0	10.8	16.6	49.2	33.1	46.6	19.2	44.2	23.8	45.4	35.2	41.3	19.0
07/08/05	7.2	0.0	11.1	18.4	44.0	32.2	41.4	17.2	40.8	23.4	41.3	19.0	38.7	15.8
07/09/05	7.2	0.0	10.2	9.8	41.3	21.2	40.5	17.3	40.7	22.8	38.7	15.8	29.6	17.0
07/10/05	8.8	0.0	10.2	8.9	32.7	18.3	31.0	13.0	28.4	16.0	29.6	17.0	37.9	27.9
07/11/05	9.5	0.0	10.6	11.4	37.8	24.6	38.5	16.1	37.4	22.4	37.9	27.9	37.2	16.9
07/12/05	9.5	0.0	11.3	12.9	40.3	28.4	38.3	15.8	37.9	21.5	37.2	16.9	33.7	16.4
07/13/05	9.6	0.0	10.7	14.0	38.1	18.9	37.0	15.3	34.9	20.4	33.7	16.4	39.0	15.8
07/14/05	11.2	---	---	---	40.9	27.1	40.3	16.9	38.8	22.8	39.0	15.8		

**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		
07/01/05	230.1	175.3	214.0	63.5	206.8	69.5	210.4	97.1	6.5	95.3
07/02/05	203.2	148.5	198.7	59.6	191.9	73.9	210.3	97.0	10.4	91.4
07/03/05	184.9	130.1	177.5	52.9	170.6	68.3	182.3	97.1	0.0	73.7
07/04/05	153.4	98.7	133.3	40.0	133.3	53.3	153.8	91.9	0.0	50.3
07/05/05	204.2	148.2	194.7	58.2	184.4	68.7	175.7	86.6	5.0	72.6
07/06/05	147.2	91.3	139.9	41.1	147.0	60.6	172.7	87.8	4.0	69.4
07/07/05	191.4	135.2	172.6	50.9	163.8	64.1	155.7	84.3	1.2	58.7
07/08/05	207.1	151.9	181.4	53.6	172.4	69.3	196.3	94.5	0.0	90.3
07/09/05	197.7	143.0	189.0	56.8	187.6	73.4	180.9	95.0	1.1	73.3
07/10/05	172.8	117.9	165.7	49.5	164.4	64.0	175.7	92.0	2.1	70.2
07/11/05	186.6	131.6	170.1	52.0	168.8	67.4	178.4	92.3	2.5	72.1
07/12/05	198.8	144.0	166.4	49.8	165.2	64.5	174.6	89.3	0.0	73.8
07/13/05	188.5	133.0	176.3	53.2	171.7	66.6	175.7	88.4	1.1	74.7
07/14/05	201.6	147.1	196.6	59.3	188.8	72.1	192.5	94.8	5.2	81.0

## 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
<b>Little Goose Dam</b>											
	07/07/05	Chinook + Steelhead	101	0	0	0.00%	0.00%	0	0	0	0
	07/10/05	Chinook + Steelhead	87	0	0	0.00%	0.00%	0	0	0	0
	07/14/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Lower Monumental Dam</b>											
	07/08/05	Chinook + Steelhead	32	0	0	0.00%	0.00%	0	0	0	0
	07/11/05	Chinook + Steelhead	9	0	0	0.00%	0.00%	0	0	0	0
<b>McNary Dam</b>											
	07/07/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/11/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/14/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Bonneville Dam</b>											
	07/05/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/09/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/12/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
<b>Rock Island Dam</b>											
	07/07/05	Chinook + Steelhead	75	1	1	1.33%	0.00%	1	0	0	0
	07/11/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

### HATCHERY RELEASE LAST TWO WEEKS

#### Hatchery Release Summary

From: **7/1/2005** to **07/14/05**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2005	55,000	06-21-05	07-08-05	Big Canyon (Clearwater R)	Clearwater River M F
<b>Grand Total</b>					<b>55,000</b>				

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

### Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	Hungry H. Dnst			Boundary			Grand Coulee			Grand C. Tlwr			Chief Joseph							
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#				
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	hr
7/1	---	---	---	0	117	119	120	24	113	113	114	24	110	110	113	9	110	110	111	24
7/2	---	---	---	0	116	117	118	24	113	114	114	24	110	110	112	11	110	110	111	24
7/3	---	---	---	0	116	118	119	24	113	113	114	24	110	110	113	22	110	111	111	24
7/4	---	---	---	0	115	116	118	24	113	113	113	24	110	110	112	10	110	111	111	24
7/5	---	---	---	0	114	115	116	24	113	114	114	24	111	111	114	9	111	112	112	24
7/6	---	---	---	0	115	116	117	24	114	114	114	24	111	111	114	6	112	112	113	24
7/7	---	---	---	0	114	116	117	24	114	114	114	24	110	110	113	11	111	111	111	24
7/8	---	---	---	0	113	114	115	24	114	114	114	24	110	111	113	17	111	111	111	24
7/9	---	---	---	0	113	113	114	24	114	114	115	24	110	111	113	24	111	111	112	24
7/10	---	---	---	0	113	114	118	24	114	114	114	24	111	111	113	24	110	110	111	24
7/11	---	---	---	0	112	113	114	24	114	114	114	24	110	110	112	13	110	111	111	24
7/12	---	---	---	0	112	113	113	24	113	114	114	24	110	110	114	10	110	110	111	24
7/13	---	---	---	0	112	113	114	24	113	113	114	16	110	110	112	9	110	110	110	18
7/14	---	---	---	0	112	113	114	22	113	113	114	23	109	109	111	8	110	110	111	21

### Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			Wells			Wells Dwnstrm			Rocky Reach			Rocky R. Tlwr							
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#				
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	hr
7/1	110	110	111	24	109	109	109	24	111	112	115	24	112	112	112	24	111	112	112	24
7/2	110	111	112	24	109	109	109	24	110	111	111	24	112	112	112	21	111	112	112	21
7/3	110	111	111	24	108	109	110	24	110	111	111	24	112	112	112	24	109	110	110	24
7/4	110	111	112	24	108	109	110	24	109	110	111	24	112	112	112	24	110	110	111	24
7/5	111	112	113	23	109	110	111	24	111	112	112	24	112	112	112	24	111	112	113	24
7/6	112	113	114	23	110	110	111	24	112	112	113	24	112	112	112	24	111	112	112	24
7/7	111	111	112	24	110	110	111	24	112	112	113	24	112	112	112	24	111	112	113	24
7/8	111	111	112	20	109	110	111	24	111	112	112	24	112	112	112	24	112	112	113	24
7/9	112	112	113	23	109	109	109	24	111	111	113	24	112	112	112	24	112	112	112	24
7/10	111	112	113	24	110	110	112	24	111	112	112	24	112	112	112	24	111	111	111	24
7/11	110	111	112	24	109	110	110	24	111	111	112	24	112	112	112	24	111	112	113	24
7/12	111	112	112	23	110	110	110	24	111	111	112	24	111	112	112	24	111	112	112	24
7/13	110	110	112	15	109	110	110	22	111	111	112	22	110	110	110	24	110	111	111	24
7/14	110	110	112	17	109	109	110	20	111	111	111	20	110	111	112	22	111	112	113	22

### Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Rock Island			Rock I. Tlwr			Wanapum			Wanapum Tlwr			Priest Rapids							
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#				
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	hr
7/1	112	112	112	24	116	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/2	111	111	112	21	117	117	117	21	---	---	---	0	---	---	---	0	---	---	---	0
7/3	110	111	111	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/4	110	110	111	24	115	115	116	24	---	---	---	0	---	---	---	0	---	---	---	0
7/5	111	111	112	24	116	116	116	24	---	---	---	0	---	---	---	0	---	---	---	0
7/6	112	112	112	24	116	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/7	111	112	112	24	117	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/8	111	111	112	24	116	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/9	111	112	112	24	117	118	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/10	111	111	112	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/11	111	111	112	24	116	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/12	111	111	112	24	116	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/13	111	111	111	24	116	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
7/14	111	111	112	22	116	117	118	22	---	---	---	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>Clrwrtr-Peck</u>			<u>Anatone</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg	Avg	High
7/1	---	---	---	0	114	115	116	24	100	100	101	24	101	102	103	24	103	104	105	24
7/2	---	---	---	0	112	113	113	24	100	100	101	24	100	101	102	24	103	104	105	24
7/3	---	---	---	0	110	110	111	17	99	100	100	24	99	101	103	24	102	104	105	24
7/4	---	---	---	0	112	112	112	1	100	100	101	24	97	99	101	24	103	104	105	24
7/5	---	---	---	0	112	113	114	24	100	100	102	24	101	102	103	21	103	105	106	24
7/6	---	---	---	0	111	111	112	24	100	100	101	24	101	103	104	24	103	104	106	24
7/7	---	---	---	0	109	112	113	24	100	100	101	24	102	103	104	24	103	105	106	24
7/8	---	---	---	0	111	111	113	24	100	101	101	24	102	103	104	24	103	105	106	24
7/9	---	---	---	0	110	111	112	24	99	100	100	24	101	101	103	24	102	103	105	24
7/10	---	---	---	0	110	111	112	24	100	100	100	24	101	101	102	24	102	103	104	24
7/11	---	---	---	0	111	112	112	24	100	100	100	24	101	102	103	24	103	105	107	24
7/12	---	---	---	0	112	113	114	24	99	100	100	24	101	103	104	24	103	105	106	24
7/13	---	---	---	0	111	111	112	13	99	99	100	13	100	100	102	13	102	102	104	13
7/14	---	---	---	0	111	113	113	23	101	102	102	23	102	104	105	23	103	105	107	23

### Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-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>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg	Avg	High
7/1	102	104	105	24	102	102	105	24	112	115	120	24	110	111	111	24	112	114	116	24
7/2	102	103	105	24	102	104	104	24	115	117	118	23	109	110	110	24	111	114	116	24
7/3	102	104	105	24	104	105	107	24	113	114	116	24	109	109	110	24	111	114	116	24
7/4	102	104	106	24	111	114	118	24	112	112	113	24	110	110	112	24	112	114	116	24
7/5	102	105	106	24	111	113	117	24	116	118	118	24	111	111	111	24	111	113	115	24
7/6	103	104	105	24	105	106	109	24	112	114	117	24	109	110	110	24	111	114	116	24
7/7	103	105	106	24	105	107	110	24	116	119	120	24	110	110	110	24	112	114	117	24
7/8	103	105	106	24	104	104	105	24	117	118	119	24	109	110	110	24	111	114	117	24
7/9	101	103	104	24	106	107	108	24	112	113	116	24	108	109	109	24	111	114	117	24
7/10	102	103	104	24	106	107	108	24	113	113	113	24	108	108	108	24	110	113	115	24
7/11	103	105	107	24	108	110	112	24	115	117	118	24	108	108	108	24	111	114	116	24
7/12	103	105	107	24	105	106	109	24	116	117	118	24	108	108	109	24	111	114	116	24
7/13	101	101	104	13	101	101	103	13	112	112	113	13	109	109	109	13	111	111	115	13
7/14	103	105	107	23	108	112	116	23	115	117	117	23	110	111	112	23	111	113	117	23

### 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>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg	Avg	High
7/1	115	116	116	24	118	118	119	24	114	114	115	24	114	115	116	24	111	113	115	24
7/2	115	115	116	24	118	118	119	24	115	115	115	24	114	114	115	24	111	112	113	24
7/3	113	114	114	24	118	118	119	24	114	114	114	24	114	114	115	24	111	111	115	17
7/4	111	112	112	24	118	119	119	24	114	114	114	24	113	114	114	24	111	111	111	1
7/5	111	111	111	24	116	118	119	24	114	114	114	24	113	114	116	24	112	114	117	24
7/6	111	111	111	24	118	118	119	24	114	114	114	24	113	114	115	24	110	111	112	24
7/7	110	110	111	24	118	119	119	24	114	115	115	24	114	115	116	24	112	114	115	24
7/8	110	110	110	24	119	119	120	24	113	114	114	24	113	113	114	24	109	110	112	24
7/9	108	108	109	24	119	120	120	24	111	111	111	24	112	113	114	24	107	108	110	24
7/10	108	109	109	24	115	117	119	24	111	111	111	24	112	113	114	24	109	111	113	24
7/11	109	109	109	24	119	120	120	24	111	111	111	24	113	113	114	24	110	112	114	24
7/12	108	108	109	24	118	119	120	24	110	110	112	24	112	112	113	24	109	110	111	24
7/13	108	108	108	13	116	116	117	13	111	111	111	13	111	111	112	13	108	108	111	13
7/14	109	109	110	23	119	120	121	23	112	112	113	23	112	113	114	23	109	111	113	23

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

### Total Dissolved Gas Saturation Data at Lower Columbia 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>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	AVG	High	hr	
7/1	112	113	114	24	119	120	120	24	105	105	105	23	117	119	119	24	107	107	107	23
7/2	112	113	113	24	118	118	119	24	104	104	104	23	115	116	116	24	105	106	107	23
7/3	111	111	112	17	116	117	118	17	104	104	105	23	115	116	118	21	105	106	106	23
7/4	111	111	111	1	116	116	116	1	104	105	105	23	114	115	115	24	107	107	107	23
7/5	112	112	113	24	118	118	119	24	105	105	105	23	116	118	119	24	107	107	107	23
7/6	111	111	112	24	116	116	117	24	105	106	106	23	113	115	116	24	107	107	107	23
7/7	110	110	111	24	117	118	118	24	106	107	107	23	114	114	116	24	106	106	107	23
7/8	109	110	110	24	118	119	119	24	106	107	107	23	114	116	117	24	107	107	108	23
7/9	107	108	108	24	117	118	118	24	107	108	108	23	114	114	115	24	107	108	108	23
7/10	109	109	109	24	116	117	117	24	107	107	107	23	113	114	114	24	108	108	108	23
7/11	109	110	110	24	117	117	118	24	106	106	107	23	114	114	116	24	108	108	108	23
7/12	109	109	110	24	117	118	119	24	105	105	106	23	114	115	116	24	107	107	108	23
7/13	110	110	110	13	117	117	117	13	105	105	105	15	115	115	117	13	105	105	106	15
7/14	110	110	111	23	118	118	118	23	106	107	108	23	116	117	117	23	107	108	109	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\Washougal</u>				<u>Cascade Island</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24h</u>		<u>12h</u>		#	<u>24h</u>		<u>12h</u>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	AVG	High	hr	
7/1	112	113	113	24	107	107	108	23	114	116	118	23	110	112	114	24	116	116	120	17
7/2	112	112	113	24	106	106	107	23	113	115	119	23	109	111	114	24	116	116	120	17
7/3	112	113	113	24	106	106	106	23	115	117	120	23	110	114	117	24	115	116	120	17
7/4	112	112	113	24	107	107	108	23	116	118	120	23	112	115	117	24	115	115	117	17
7/5	113	113	114	24	107	108	108	23	115	116	117	23	113	115	116	24	115	116	119	17
7/6	112	113	114	24	107	107	108	23	115	117	120	23	111	112	113	24	115	115	116	17
7/7	112	113	113	24	107	107	107	23	114	115	115	23	110	112	114	24	115	116	120	17
7/8	113	113	113	24	107	107	107	23	114	117	121	23	112	113	115	24	115	116	120	17
7/9	113	113	114	24	107	107	108	23	115	117	121	23	110	113	116	24	115	115	119	17
7/10	113	113	114	24	108	109	109	23	115	116	118	23	111	113	115	24	115	116	120	17
7/11	113	114	114	24	108	108	109	23	115	117	119	23	112	114	116	24	115	116	120	17
7/12	112	113	113	24	108	108	108	23	115	117	120	23	111	112	115	20	115	115	118	17
7/13	111	111	112	12	106	106	107	15	114	115	116	15	109	109	112	12	114	114	114	5
7/14	113	114	115	23	106	107	108	23	115	116	120	23	112	115	118	23	115	115	120	16

## 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)

<b>COMBINED YEARLING CHINOOK</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
07/01/2005	---	---	---	---	204	14	11	2	4,264	87	42
07/02/2005	*	---	---	---	157	23	102	0	7,557	144	42
07/03/2005	---	---	---	---	338	18	120	0	737	122	46
07/04/2005	---	---	---	---	440	0	138	0	0	126	23
07/05/2005	---	---	---	---	201	26	10	0	166	86	81
07/06/2005	---	---	---	---	30	43	14	2	0	262	105
07/07/2005	---	---	---	---	0	83	27	0	71	0	207
07/08/2005	---	---	---	---	0	139	45	0	186	0	17
07/09/2005	*	---	---	---	11	69	297	0	308	107	168
07/10/2005	---	---	---	---	0	181	32	2	0	410	45
07/11/2005	---	---	---	---	0	70	58	0	0	300	95
07/12/2005	---	---	---	---	16	117	40	2	0	324	16
07/13/2005	---	---	---	---	0	653	45	0	0	32	43
07/14/2005	---	---	---	---	0	463	38	0	0	412	0
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,397</b>	<b>1,899</b>	<b>977</b>	<b>8</b>	<b>13,289</b>	<b>2,412</b>	<b>930</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>136</b>	<b>70</b>	<b>1</b>	<b>949</b>	<b>172</b>	<b>66</b>
<b>YTD</b>	<b>43,641</b>	<b>42,756</b>	<b>5,792</b>	<b>1,810</b>	<b>5,673,852</b>	<b>2,476,850</b>	<b>706,099</b>	<b>14,793</b>	<b>1,226,403</b>	<b>1,409,102</b>	<b>1,527,164</b>

<b>COMBINED SUBYEARLING CHINOOK</b>											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
07/01/2005	---	---	---	---	5,766	7,004	1,980	511	389,999	35,921	70,386
07/02/2005	*	---	---	---	2,478	21,812	1,331	381	279,611	27,923	51,192
07/03/2005	---	---	---	---	4,232	9,216	952	223	254,976	28,358	47,263
07/04/2005	---	---	---	---	2,470	1,530	2,447	102	165,719	39,827	35,879
07/05/2005	---	---	---	---	2,866	1,773	1,503	315	117,179	46,781	14,245
07/06/2005	---	---	---	---	2,142	1,737	1,230	386	111,846	78,988	44,470
07/07/2005	---	---	---	---	927	3,634	951	245	73,997	52,955	45,739
07/08/2005	---	---	---	---	2,049	1,931	1,651	499	91,167	58,858	46,881
07/09/2005	*	---	---	---	2,004	3,201	2,922	592	164,418	60,379	65,852
07/10/2005	---	---	---	---	1,924	2,751	432	437	54,519	54,937	37,600
07/11/2005	---	---	---	---	1,648	1,463	492	366	36,919	60,821	28,544
07/12/2005	---	---	---	---	1,938	2,719	1,448	595	32,671	61,769	22,190
07/13/2005	---	---	---	---	950	9,450	1,068	321	20,526	58,487	41,511
07/14/2005	---	---	---	---	324	9,058	1,323	344	20,857	48,861	28,570
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31,718</b>	<b>77,279</b>	<b>19,730</b>	<b>5,317</b>	<b>1,814,404</b>	<b>714,865</b>	<b>580,322</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,266</b>	<b>5,520</b>	<b>1,409</b>	<b>380</b>	<b>129,600</b>	<b>51,062</b>	<b>41,452</b>
<b>YTD</b>	<b>0</b>	<b>86</b>	<b>1,224</b>	<b>1,152</b>	<b>1,732,607</b>	<b>1,253,266</b>	<b>189,783</b>	<b>18,080</b>	<b>6,526,984</b>	<b>1,728,230</b>	<b>3,567,457</b>

## 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)
07/01/2005	---	---	---	---	0	28	0	5	0	44	42
07/02/2005 *	---	---	---	---	5	93	8	9	0	54	83
07/03/2005	---	---	---	---	0	0	0	6	368	44	137
07/04/2005	---	---	---	---	6	0	8	1	0	107	92
07/05/2005	---	---	---	---	0	17	10	6	0	86	0
07/06/2005	---	---	---	---	0	22	2	6	0	57	12
07/07/2005	---	---	---	---	0	16	4	3	0	0	16
07/08/2005	---	---	---	---	0	0	2	2	0	41	0
07/09/2005 *	---	---	---	---	0	0	0	3	103	36	84
07/10/2005	---	---	---	---	0	0	2	3	0	0	0
07/11/2005	---	---	---	---	0	0	3	12	0	0	0
07/12/2005	---	---	---	---	0	3	0	8	0	0	0
07/13/2005	---	---	---	---	0	4	3	8	0	63	71
07/14/2005	---	---	---	---	0	0	3	11	0	0	0
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>183</b>	<b>45</b>	<b>83</b>	<b>471</b>	<b>532</b>	<b>537</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>13</b>	<b>3</b>	<b>6</b>	<b>34</b>	<b>38</b>	<b>38</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>110</b>	<b>305,059</b>	<b>191,709</b>	<b>24,340</b>	<b>37,149</b>	<b>103,639</b>	<b>191,799</b>	<b>771,087</b>

	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)
07/01/2005	---	---	---	---	111	174	36	3	1,804	89	42
07/02/2005 *	---	---	---	---	81	46	24	4	445	258	42
07/03/2005	---	---	---	---	19	18	28	4	368	54	2
07/04/2005	---	---	---	---	30	89	18	0	0	294	23
07/05/2005	---	---	---	---	10	35	8	6	497	29	0
07/06/2005	---	---	---	---	15	108	10	2	0	0	14
07/07/2005	---	---	---	---	28	62	19	1	0	71	29
07/08/2005	---	---	---	---	38	48	7	2	0	41	17
07/09/2005 *	---	---	---	---	19	42	2	4	0	40	15
07/10/2005	---	---	---	---	25	40	2	0	0	36	22
07/11/2005	---	---	---	---	7	13	0	8	67	47	24
07/12/2005	---	---	---	---	0	20	9	3	0	0	0
07/13/2005	---	---	---	---	0	7	3	0	0	0	28
07/14/2005	---	---	---	---	8	17	0	0	0	36	0
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>391</b>	<b>719</b>	<b>166</b>	<b>37</b>	<b>3,181</b>	<b>995</b>	<b>258</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>51</b>	<b>12</b>	<b>3</b>	<b>227</b>	<b>71</b>	<b>18</b>
<b>YTD</b>	<b>3,754</b>	<b>36,509</b>	<b>2,454</b>	<b>7,263</b>	<b>5,935,659</b>	<b>2,921,901</b>	<b>675,387</b>	<b>15,958</b>	<b>196,317</b>	<b>525,210</b>	<b>186,363</b>

## Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/01/2005	---	---	---	---	0	14	0	6	328	11	0
07/02/2005	*	---	---	---	0	0	8	9	0	19	0
07/03/2005	---	---	---	---	19	18	0	6	0	11	0
07/04/2005	---	---	---	---	0	17	0	4	0	19	0
07/05/2005	---	---	---	---	10	17	0	7	0	0	0
07/06/2005	---	---	---	---	0	0	0	13	0	57	0
07/07/2005	---	---	---	---	0	0	2	9	0	0	0
07/08/2005	---	---	---	---	0	5	0	15	0	0	17
07/09/2005	*	---	---	---	0	5	0	3	0	1	0
07/10/2005	---	---	---	---	6	5	0	5	0	0	0
07/11/2005	---	---	---	---	0	0	0	14	0	96	0
07/12/2005	---	---	---	---	0	3	0	17	0	36	16
07/13/2005	---	---	---	---	0	18	0	6	0	0	43
07/14/2005	---	---	---	---	0	17	3	3	0	0	16
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>119</b>	<b>13</b>	<b>117</b>	<b>328</b>	<b>250</b>	<b>92</b>
<b># Days:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>9</b>	<b>1</b>	<b>8</b>	<b>23</b>	<b>18</b>	<b>7</b>
<b>YTD</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>263</b>	<b>38,426</b>	<b>41,407</b>	<b>8,213</b>	<b>1,851</b>	<b>103,444</b>	<b>84,031</b>	<b>41,818</b>

\* 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:

7/15/05 8:57 AM

07/02/05 TO 07/15/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	11,926	597	6	13	160	12,702
	Sum of NumberBarged	14,021	810	6	11	220	15,068
	Sum of NumberBypassed	1,039	0	0	0	0	1,039
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	58	0	0	1	4	63
	Sum of FacilityMorts	66	2	0	1	3	72
	Sum of ResearchMorts	49	0	0	0	0	49
	Sum of TotalProjectMorts	173	2	0	2	7	184
<b>LGS</b>	Sum of NumberCollected	45,984	1,099	111	69	415	47,678
	Sum of NumberBarged	41,639	819	107	50	454	43,069
	Sum of NumberBypassed	37	0	3	0	0	40
	Sum of Numbertrucked	1,852	15	10	20	71	1,968
	Sum of SampleMorts	51	1	0	0	1	53
	Sum of FacilityMorts	120	0	1	0	4	125
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	171	1	1	0	5	178
<b>LMN</b>	Sum of NumberCollected	9,035	434	21	6	81	9,577
	Sum of NumberBarged	7,868	445	23	14	129	8,479
	Sum of NumberBypassed	2,050	0	0	0	6	2,056
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	49	1	0	0	0	50
	Sum of FacilityMorts	35	3	0	0	0	38
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	84	4	0	0	0	88
<b>MCN</b>	Sum of NumberCollected	620,391	4,700	125	200	1,470	626,886
	Sum of NumberBarged	613,189	4,645	120	188	1,434	619,576
	Sum of NumberBypassed	1,646	0	0	0	0	1,646
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	111	0	0	0	0	111
	Sum of FacilityMorts	5,371	55	5	12	36	5,479
	Sum of ResearchMorts	74	0	0	0	0	74
	Sum of TotalProjectMorts	5,556	55	5	12	36	5,664
Total Sum of NumberCollected		687,336	6,830	263	288	2,126	696,843
Total Sum of NumberBarged		676,717	6,719	256	263	2,237	686,192
Total Sum of NumberBypassed		4,772	0	3	0	6	4,781
Total Sum of Numbertrucked		1,852	15	10	20	71	1,968
Total Sum of SampleMorts		269	2	0	1	5	277
Total Sum of FacilityMorts		5,592	60	6	13	43	5,714
Total Sum of ResearchMorts		123	0	0	0	0	123
Total Sum of TotalProjectMorts		5,984	62	6	14	48	6,114

**YTD Transportation Summary**

Source: Fish Passage Center

Updated:

7/15/05 8:57 AM

**TO: 07/15/05**

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	1,568,654	5,537,382	286,007	31,617	5,590,761	13,014,421
	Sum of NumberBarged	1,542,946	5,235,732	257,640	30,282	5,093,991	12,160,591
	Sum of NumberBypassed	12,767	278,605	26,286	490	448,421	766,569
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	416	453	16	16	70	971
	Sum of FacilityMorts	11,977	13,606	1,194	342	5,260	32,379
	Sum of ResearchMorts	72	103	0	0	2	177
	Sum of TotalProjectMorts	12,465	14,162	1,210	358	5,332	33,527
<b>LGS</b>	Sum of NumberCollected	1,176,983	2,452,203	185,999	38,832	2,857,282	6,711,299
	Sum of NumberBarged	1,116,151	2,016,534	151,268	37,774	2,276,998	5,598,725
	Sum of NumberBypassed	50,434	428,571	34,635	938	571,464	1,086,042
	Sum of NumberTrucked	1,856	238	10	47	362	2,513
	Sum of SampleMorts	139	127	12	4	68	350
	Sum of FacilityMorts	3,134	6,443	75	59	8,380	18,091
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,273	6,590	87	63	8,448	18,461
<b>LMN</b>	Sum of NumberCollected	170,050	670,592	21,550	7,343	614,063	1,483,598
	Sum of NumberBarged	161,812	511,735	17,026	7,154	456,579	1,154,306
	Sum of NumberBypassed	7,383	145,571	4,521	99	154,896	312,470
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	90	40	0	3	26	159
	Sum of FacilityMorts	251	519	2	26	327	1,125
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	341	559	2	29	353	1,284
<b>MCN</b>	Sum of NumberCollected	4,107,151	722,354	61,205	60,012	119,396	5,070,118
	Sum of NumberBarged	2,790,483	17,123	914	1,045	5,448	2,815,013
	Sum of NumberBypassed	1,293,177	702,217	60,102	58,589	113,558	2,227,643
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	423	120	8	18	8	577
	Sum of FacilityMorts	22,984	2,818	175	348	380	26,705
	Sum of ResearchMorts	84	76	6	12	2	180
	Sum of TotalProjectMorts	23,491	3,014	189	378	390	27,462
Total Sum of NumberCollected		7,022,838	9,382,531	554,761	137,804	9,181,502	26,279,436
Total Sum of NumberBarged		5,611,392	7,781,124	426,848	76,255	7,833,016	21,728,635
Total Sum of NumberBypassed		1,363,761	1,554,964	125,544	60,116	1,288,339	4,392,724
Total Sum of NumberTrucked		2,260	21,833	881	594	45,612	71,180
Total Sum of SampleMorts		1,068	740	36	41	172	2,057
Total Sum of FacilityMorts		38,346	23,386	1,446	775	14,347	78,300
Total Sum of ResearchMorts		156	199	6	12	4	377
Total Sum of TotalProjectMorts		39,570	24,325	1,488	828	14,523	80,734

**Cumulative Adult Passage at Mainstem Dams Through: 07/14**

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	67,159	3,592	79,809	10,963	45,985	5,486	0	0	0	0	0	0
TDA	60,956	3,209	130,240	7,717	99,119	5,946	57,179	2,667	68,386	6,876	38,657	3,955	0	0	0	0	0	0
JDA	55,877	2,715	112,153	6,367	82,666	4,703	51,757	3,676	61,939	8,397	35,652	3,606	0	0	0	0	0	0
MCN	57,852	3,168	107,497	7,682	76,092	4,941	53,074	2,158	54,707	6,907	34,403	3,560	0	0	0	0	0	0
IHR	27,666	1,224	77,106	4,646	51,680	3,159	8,191	859	12,342	2,770	9,672	1,646	0	0	0	0	0	0
LMN	25,936	999	71,578	3,785	49,507	2,979	7,567	660	9,957	2,048	9,072	1,341	0	0	0	0	0	0
LGS	24,341	928	62,458	3,404	47,589	3,042	6,256	766	8,684	2,043	7,812	1,539	0	0	0	0	0	0
LWG	25,409	1,191	70,742	4,482	47,410	3,274	6,075	844	8,167	2,193	7,840	1,587	0	0	0	0	0	0
PRD	14,148	515	13,521	1,020	15,454	477	45,909	1,494	49,808	3,869	24,412	923	0	0	0	0	0	0
RIS	12,220	482	10,918	958	12,149	699	33,319	1,347	37,918	2,802	17,703	1,777	0	0	0	0	0	0
RRH	4,652	425	4,365	734	4,426	242	22,090	986	21,307	3,217	10,037	847	0	0	0	0	0	0
WEL	4,897	99	4,615	178	3,006	190	12,678	166	13,478	434	6,297	256	0	0	0	0	0	0
WFA	35,024	1,176	95,758	737	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
	Adult	Jack	Adult	Jack	Adult	Jack						2005	
BON	0	-1	0	0	1	0	68,232	120,471	51,511	30,396	42,206	33,836	13,262
TDA	0	0	0	0	0	0	57,505	104,820	42,439	15,524	18,835	15,559	7,810
JDA	3	-12	0	0	1	0	60,201	109,495	45,262	11,895	17,186	14,161	4,603
MCN	0	0	0	0	0	0	58,266	86,437	38,440	9,211	11,067	8,926	3,398
IHR	0	0	0	0	0	0	14	86	24	4,660	6,688	4,979	1,614
LMN	0	0	2	0	0	0	15	59	26	4,450	5,313	4,276	1,398
LGS	0	0	0	0	0	0	7	75	30	2,646	3,828	3,428	960
LWG	0	0	0	0	0	0	7	93	28	6,265	9,283	7,274	2,030
PRD	0	1	0	0	1	0	63,194	116,057	44,381	514	1,820	605	n/a
RIS	2	0	0	0	1	0	47,153	86,975	32,488	422	1,237	349	386
RRH	0	0	0	0	1	0	30,622	61,839	20,352	521	1,108	261	491
WEL	0	0	0	0	0	0	24,470	54,623	18,283	122	327	86	105
WFA	0	0	0	0	n/a	n/a	0	0	n/a	18347	42716	n/a	n/a

WFA , RIS , & RRH are through 7/12; BON, TDA, JDA, & WEL are through 7/13 ; LGR is missing 6/12.

IHR chinook jack were counted as coho jack for 5/23, 5/24 - it is corrected in our database.

On July 2 a shad was seen at RRH.

\*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: 07/15/05

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



