



Fish Passage Center

Weekly Report #05 - 21

July 29, 2005

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Highlights:

- **Precipitation has been below average over the first twenty-five days of July at most Columbia Basin locations.**
- **River flows at Lower Granite Dam have averaged 41.2 Kcfs between June 21-July 28 and 31.3 Kcfs last week.**
- **River flows at McNary Dam have averaged 185.1 Kcfs July 1st through July 28th and 169.9 Kcfs last week.**
- **Outflows at Dworshak remain at 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 twenty-five days of July at most Columbia Basin locations. Of the sites in Table 1, only one recorded precipitation that was greater than average over the first twenty-five 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 1-25		Water Year 2005 October 1, 2004 to July 25, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.02	71	20.82	95
Snake River Above Ice Harbor	0.27	36	15.67	99
Columbia Above The Dalles	0.68	68	18.6	90
Kootenai	1.35	88	21.26	94
Clark Fork	0.29	30	12.83	85
Flathead	0.37	29	20.32	101
Pend Oreille/Spokane	0.84	76	25.05	88
Central Washington	0.13	45	6.57	80
Snake River Plain	0.17	35	12.16	121
Salmon/Boise/Payette	0.15	22	15.26	84
Clearwater	0.32	27	23.72	85
SW Washington Cascades/Cowlitz	1.18	105	49.34	74
Willamette Valley	0.36	54	39.79	70

Water Supply Forecasts have varied between the June Final and July Final Forecasts, some 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 41.2 Kcfs between June 21-July 28 and 31.3 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 185.1 Kcfs July 1st through July 28th and 169.9 Kcfs last week.

Grand Coulee Reservoir is currently at an elevation of 1286.2 feet (July 28th, 2005 midnight) and has drafted 1.2 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 2453.1 feet (7-28-05) and drafted 1.6 feet last week. Outflows at Libby are currently 18.8 Kcfs. Libby is projected to draft to elevation 2439 feet by the end of August.

Hungry Horse is currently at an elevation of 3552.7 feet (July 28th, 2005 midnight) and has drafted 2.0 feet in the last week. Outflows at Hungry Horse are currently 5.3 Kcfs. Hungry Horse is projected to draft to elevation 3540 feet by the end of August.

Dworshak is currently an elevation of 1574.9 feet (July 28th, 2005 midnight). Outflows at Dworshak have been 12.0 Kcfs for flow and temperature augmentation in the lower Snake River.

The Brownlee Reservoir was at an elevation of 2060.3 feet on July 28th, 2005 with outflows ranging between 7.6 and 15.1 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 in excess of hydraulic capacity is occurring at Dworshak Dam as outflow remains near 12 Kcfs for flow augmentation and temperature control. 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 averaging near 20 Kcfs. Spill averaged 61% of daily average flows at Lower Granite, 40% of daily average flows at Little Goose, 56% of daily average flows at Lower Monumental and 65% 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 68% 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 54% of average daily flow over the past week.

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

Smolt Monitoring: The sub-yearling fall Chinook daily passage index at Lower Granite Dam has fluctuated from 271 to 586 over the past week. As was discussed in last weeks' report the PIT tag detection data indicates that the collection efficiency at Lower Granite is approximately 20% which infers that the passage index is an underestimate of the numbers of fall Chinook sub-yearlings that are passing the project. Sub-yearling fall Chinook passage indices have increased at Little Goose Dam to 2,789 on July 22 and decreased in the later part of the week. Indices at Lower Monumental Dam followed the same pattern. Passage indices at McNary Dam and John Day dams increased on July 26 and 27. Sub-yearling passage in the Snake River is primarily comprised of two distinct populations of wild migrants, the Snake River and the Clearwater River. PIT tag recaptures at Little Goose and Lower Monumental indicate that Snake River fall chinook comprises most of the passage at those sites. Hatchery PIT tagged fall Chinook continue to be detected at Little Goose Dam. Snake River PIT tag detections are declining at Lower Granite and Clearwater PIT tag detections are beginning to appear at Lower Granite and Little Goose Dam. Snake River fall Chinook are predominating in the PIT tag detections at McNary Dam over the past week. Snake River PIT tagged fall Chinook are averaging a 10 day travel time between Lower Granite and Little Goose dams and an 18 day travel time between Lower Granite and McNary dams.

In the Mid-Columbia, at Rock Island the sub-yearling daily passage index has remained at the same levels as last week. Some Columbia River PIT tagged fall Chinook are continuing to be detected at McNary Dam.

At John Day Dam the passage indices increased significantly over the past week beginning on July 24. PIT tag detections at John Day indicate that Snake River hatchery and wild fall Chinook and Columbia River fall Chinook are all passing the project in the past week.

Hatchery Releases: There were no hatchery releases in the past two weeks and there are no planned releases for the upcoming two weeks. There are no changes in the Hatchery Zone Release Report from last week.

Adult Passage: The fishery agencies and tribes continue to monitor adult passage at the Snake River projects. Adult passage is progressing without issues. Adult PIT tag detections and adult counts are being continuously monitored. The summer Chinook adult count at Bonneville Dam and The Dalles Dam is presently at 85% of the 2004 count for the same time last year but still ahead of the ten year average. Summer Chinook counts continue at Bonneville until July 31. The steelhead counts at Bonneville, The Dalles, John Day and McNary Dam are similar to counts at this date in 2004. Steelhead counts at Priest Rapids, Wanapum, Rock Island, Rocky Reach, and Wells dams on the Mid-Columbia are all well below the counts to date in 2004. Steelhead counts at Ice Harbor, Lower Monumental, Little Goose and Lower Granite are all below the count to date in 2004 but all above the ten year average count for this date. Sockeye counts at the Snake River projects are all below the 2004 and the ten year average count for this date. Sockeye counts for the mid-Columbia projects are all below the 2004 counts for this date, but above the ten-year average count for this date.

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
07/15/05	153.1	0.2	150.4	0.0	157.9	10.0	153.8	13.3	157.7	30.2	166.1	26.5	163.3	95.5
07/16/05	137.2	0.2	141.9	0.0	146.9	9.4	152.1	10.4	145.3	22.3	157.5	26.8	157.8	92.0
07/17/05	106.3	0.2	113.1	0.0	116.2	8.2	118.1	8.7	122.0	18.6	133.6	24.4	130.5	75.6
07/18/05	147.8	0.3	140.8	0.0	148.5	18.8	143.1	12.9	143.1	30.0	154.4	24.9	150.8	88.3
07/19/05	140.6	0.1	134.1	0.0	138.2	9.5	133.1	12.9	131.9	28.9	133.5	21.7	134.9	79.4
07/20/05	136.3	0.3	134.3	0.0	143.8	10.0	139.4	13.2	140.1	30.0	146.9	22.4	145.1	84.9
07/21/05	124.0	0.2	137.1	0.0	144.6	8.9	143.9	13.7	143.7	29.5	151.5	22.9	147.9	85.9
07/22/05	123.5	0.2	119.3	0.0	122.9	8.4	120.9	12.9	121.7	27.7	125.9	21.2	125.3	73.8
07/23/05	113.2	0.2	111.0	0.0	114.8	7.8	112.8	9.6	113.4	22.0	117.6	20.5	117.1	69.1
07/24/05	92.1	0.1	95.9	0.0	101.6	7.6	102.8	8.3	105.0	19.0	108.1	11.8	109.1	64.0
07/25/05	129.9	0.2	127.7	0.0	126.6	9.8	118.0	12.7	117.5	29.2	143.3	8.7	151.6	89.0
07/26/05	130.8	0.2	135.3	0.0	140.6	9.0	138.0	12.6	137.9	29.1	117.0	9.2	116.7	68.7
07/27/05	152.0	0.2	137.1	0.0	141.1	9.6	138.8	7.4	139.7	25.2	151.6	9.2	157.2	91.6
07/28/05	138.5	0.2	146.9	0.0	152.1	9.4	145.1	12.4	144.4	28.2	136.4	9.2	138.2	81.1

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
07/15/05	11.9	2.4	9.6	13.3	33.7	17.9	33.4	13.7	32.7	20.0	33.2	15.8		
07/16/05	11.9	2.3	9.9	12.6	37.6	18.9	38.9	16.5	37.9	21.8	39.5	26.0		
07/17/05	11.9	2.3	9.2	9.0	36.3	24.1	34.9	15.4	31.1	16.9	30.2	19.8		
07/18/05	11.9	2.3	9.8	13.1	33.0	17.7	34.2	13.5	34.1	17.7	38.1	28.0		
07/19/05	12.0	2.4	9.6	14.2	38.1	25.9	34.7	14.4	34.2	18.6	31.9	21.7		
07/20/05	12.0	2.4	9.3	14.3	37.0	19.9	36.3	14.6	34.0	20.5	36.0	18.1		
07/21/05	12.0	2.4	9.4	11.9	38.5	25.5	37.4	15.5	37.2	21.4	33.7	15.8		
07/22/05	12.0	2.4	9.4	13.3	33.6	21.3	33.7	13.6	35.4	21.7	34.6	20.9		
07/23/05	11.9	2.3	9.0	8.6	35.1	22.9	35.6	13.9	36.2	21.0	34.0	23.6		
07/24/05	11.9	2.2	8.5	10.1	29.7	17.5	28.7	11.4	29.3	16.1	30.5	20.1		
07/25/05	11.9	2.2	8.3	9.5	28.5	16.0	28.3	10.9	24.9	12.5	25.3	15.1		
07/26/05	11.9	2.2	8.4	8.7	32.8	20.7	32.3	12.9	31.0	18.4	30.5	20.7		
07/27/05	12.0	2.2	8.5	12.1	26.8	15.0	28.9	11.8	26.9	14.4	30.3	20.3		
07/28/05	11.9	2.1	---	---	31.4	19.7	32.3	13.6	29.5	16.6	28.3	17.9		

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
07/15/05	214.4	159.3	205.8	62.5	199.4	74.6	209.8	96.9	11.2	90.2
07/16/05	203.0	147.9	192.2	57.9	186.2	72.4	197.4	97.1	3.0	85.8
07/17/05	198.6	143.0	188.8	55.5	187.7	75.3	190.8	96.0	9.2	74.1
07/18/05	178.4	123.0	172.3	51.2	162.4	61.9	173.4	90.9	1.0	70.0
07/19/05	170.9	115.6	152.8	46.3	156.0	61.3	168.3	86.6	0.0	70.2
07/20/05	166.8	112.3	148.9	45.0	143.2	58.7	156.0	84.3	0.0	60.2
07/21/05	193.9	139.2	180.2	54.2	172.9	66.3	167.2	83.8	2.4	69.5
07/22/05	187.0	131.9	175.8	52.9	173.6	68.0	189.3	90.0	5.1	82.7
07/23/05	159.4	104.3	155.8	46.4	151.5	57.3	157.3	90.4	0.0	55.4
07/24/05	153.1	98.2	133.5	40.0	132.8	54.3	146.9	88.8	0.0	46.6
07/25/05	177.9	122.4	173.5	52.2	163.6	62.7	161.9	84.6	1.5	64.2
07/26/05	174.2	118.7	170.7	51.0	167.7	65.9	178.2	92.1	13.6	60.8
07/27/05	173.9	119.3	152.3	45.8	149.0	57.8	160.0	88.2	20.0	40.1
07/28/05	163.5	109.3	154.1	45.3	154.5	60.0	158.5	85.0	8.2	53.7

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											
	07/21/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/24/05	Chinook + Steelhead	90	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	07/25/05	Chinook + Steelhead	4	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	07/21/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/25/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/28/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/19/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/23/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/26/05	Chinook + Steelhead	101	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/21/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/25/05	Chinook + Steelhead	79	0	0	0.00%	0.00%	0	0	0	0
	07/28/05	Chinook + Steelhead	99	6	6	6.06%	0.00%	6	0	0	0

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/15	---	---	---	0	112	113	114	24	113	113	114	15	110	110	112	15	111	111	111	24
7/16	---	---	---	0	112	113	113	24	113	114	114	24	110	111	113	23	110	111	111	24
7/17	---	---	---	0	112	112	113	24	113	113	113	24	109	109	113	14	110	110	110	24
7/18	---	---	---	0	113	113	115	24	113	114	115	24	110	110	113	9	111	112	112	23
7/19	---	---	---	0	113	113	114	23	113	114	114	24	110	110	112	5	112	112	113	24
7/20	---	---	---	0	112	113	114	24	113	113	113	24	110	110	111	7	111	111	111	24
7/21	---	---	---	0	112	113	114	24	112	112	113	24	109	109	110	7	111	111	112	24
7/22	---	---	---	0	112	113	113	24	112	112	113	24	110	111	114	21	111	111	111	21
7/23	---	---	---	0	112	113	114	24	111	111	112	24	110	110	112	23	109	110	111	23
7/24	---	---	---	0	112	113	113	24	111	111	112	24	109	109	111	13	109	109	110	23
7/25	---	---	---	0	112	112	113	24	111	111	111	24	109	109	112	18	109	109	110	24
7/26	---	---	---	0	112	112	113	23	110	111	111	24	109	110	111	24	109	110	110	24
7/27	---	---	---	0	112	113	114	24	111	111	112	24	110	110	112	24	110	110	111	24
7/28	---	---	---	0	113	114	115	24	111	112	112	24	110	110	111	24	110	110	111	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/15	111	111	112	23	110	110	111	24	111	112	112	24	111	112	112	24	112	113	113	24
7/16	111	112	113	23	109	110	110	23	111	111	111	23	110	110	111	24	111	111	111	24
7/17	110	110	111	17	109	110	111	24	111	111	112	24	109	110	111	24	110	111	111	24
7/18	112	112	112	10	110	110	111	24	113	114	116	24	111	112	113	24	112	113	113	24
7/19	111	112	112	16	110	111	111	24	112	113	115	24	112	112	112	24	112	113	113	24
7/20	111	111	111	17	110	111	111	24	112	112	113	24	112	113	113	24	113	114	114	24
7/21	111	111	112	24	110	110	110	24	111	112	112	24	111	112	113	24	112	113	113	24
7/22	111	112	112	22	110	110	111	13	112	112	112	13	111	111	112	24	112	112	113	24
7/23	110	111	112	16	---	---	---	0	---	---	---	0	110	110	111	24	111	111	112	24
7/24	109	109	110	11	---	---	---	0	---	---	---	0	110	110	110	24	111	111	112	24
7/25	109	109	110	24	---	---	---	0	---	---	---	0	110	110	111	24	111	111	112	24
7/26	109	110	110	22	---	---	---	0	---	---	---	0	110	111	111	24	111	112	112	24
7/27	110	111	111	21	110	110	110	9	112	112	112	9	111	111	112	24	111	112	112	24
7/28	110	111	112	23	110	110	110	24	112	112	113	24	111	112	112	24	112	113	113	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/15	112	112	113	24	117	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/16	111	112	112	24	115	116	116	24	---	---	---	0	---	---	---	0	---	---	---	0
7/17	110	111	111	24	114	115	115	24	---	---	---	0	---	---	---	0	---	---	---	0
7/18	111	112	112	24	117	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
7/19	112	112	113	24	117	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/20	112	113	113	24	118	119	121	23	---	---	---	0	---	---	---	0	---	---	---	0
7/21	112	113	113	24	118	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/22	112	112	113	24	117	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/23	110	111	111	24	116	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/24	110	111	111	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/25	110	110	111	24	117	118	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/26	111	111	112	24	117	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0
7/27	111	112	112	24	117	117	120	24	---	---	---	0	---	---	---	0	---	---	---	0
7/28	112	112	113	24	117	118	119	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>Clrwr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/15	---	---	---	0	112	113	114	20	101	102	103	24	103	104	106	20	103	105	106	24
7/16	---	---	---	0	111	111	112	24	101	101	102	24	103	104	105	24	102	103	104	24
7/17	---	---	---	0	110	111	112	24	101	101	101	24	102	104	104	24	101	103	104	24
7/18	---	---	---	0	111	112	112	24	102	103	103	24	104	105	107	24	102	104	105	24
7/19	---	---	---	0	111	112	113	24	103	103	103	24	104	106	107	24	102	103	105	24
7/20	---	---	---	0	111	112	113	24	102	103	103	24	104	105	106	24	102	103	104	24
7/21	---	---	---	0	112	113	114	24	102	103	103	24	104	106	107	24	102	104	105	24
7/22	---	---	---	0	111	112	112	24	103	103	104	24	104	105	106	24	101	102	103	24
7/23	---	---	---	0	110	110	111	24	102	102	102	24	104	105	106	24	101	103	104	24
7/24	---	---	---	0	110	111	112	24	102	103	103	24	104	105	106	24	101	102	104	24
7/25	---	---	---	0	109	110	111	24	102	102	103	24	103	105	106	24	102	105	134	24
7/26	---	---	---	0	111	113	114	24	102	102	103	24	103	105	106	24	101	103	104	24
7/27	---	---	---	0	111	113	114	24	102	103	103	24	104	105	106	24	102	103	105	23
7/28	---	---	---	0	113	113	114	24	103	103	104	24	104	105	107	24	102	103	105	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwr-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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/15	103	105	107	20	111	112	113	24	112	113	113	24	110	111	111	20	111	113	117	20
7/16	103	105	106	24	108	109	110	24	112	112	113	24	110	110	112	24	111	114	116	24
7/17	103	106	107	24	108	110	111	24	115	117	118	24	110	111	111	24	112	114	117	24
7/18	104	106	108	24	110	111	112	24	112	113	113	23	111	111	112	24	111	113	116	24
7/19	105	107	108	24	108	109	110	24	115	117	118	24	111	111	111	24	111	113	115	24
7/20	104	106	108	24	107	107	108	24	113	114	115	24	109	110	111	24	110	112	115	24
7/21	104	107	109	24	108	109	111	24	115	116	116	24	109	110	111	24	111	113	116	24
7/22	104	105	106	24	107	108	108	24	113	114	116	24	109	110	110	24	111	113	116	24
7/23	104	107	108	24	105	105	106	24	113	114	115	24	108	109	109	24	110	112	115	24
7/24	104	106	108	24	104	105	105	24	112	112	113	24	108	109	109	24	109	110	114	24
7/25	104	106	108	24	104	104	105	24	112	112	112	24	108	108	109	24	110	112	115	24
7/26	104	106	108	24	106	109	110	24	113	114	114	24	108	108	109	24	110	112	115	24
7/27	104	107	108	24	108	109	111	24	112	113	129	24	108	108	108	24	110	112	115	24
7/28	104	107	108	24	108	109	111	24	113	114	114	24	108	109	109	24	111	113	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
7/15	109	110	110	20	118	119	119	20	113	114	114	20	112	113	114	24	111	113	115	24
7/16	109	110	110	24	118	119	119	24	113	114	114	24	113	114	114	24	111	113	113	24
7/17	110	110	111	24	116	118	120	24	113	114	115	24	112	113	113	24	110	111	113	24
7/18	111	111	111	24	117	119	120	24	114	115	116	24	113	114	116	24	113	116	119	24
7/19	109	110	110	24	116	118	119	24	114	114	114	24	111	113	114	24	113	115	116	24
7/20	110	111	112	24	118	119	119	24	114	114	114	24	113	114	114	24	113	116	117	24
7/21	111	111	112	24	118	119	120	24	114	114	115	24	113	113	115	24	113	115	115	24
7/22	110	110	111	24	117	117	118	24	114	114	114	24	113	114	115	24	110	110	111	24
7/23	108	108	109	24	117	118	119	24	112	112	113	24	114	114	115	24	110	112	114	24
7/24	108	108	109	24	115	118	118	24	112	112	112	24	112	113	114	24	111	113	115	24
7/25	107	107	108	24	112	113	113	24	111	111	112	24	110	111	111	24	111	112	114	24
7/26	107	107	108	24	116	118	119	24	110	110	111	24	111	113	113	24	110	112	114	24
7/27	107	107	108	24	115	117	118	24	111	111	111	24	112	113	114	24	111	112	113	24
7/28	107	107	107	24	115	118	119	24	111	111	112	24	111	112	113	24	112	114	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			
7/15	112	112	113	24	118	119	120	19	108	108	109	23	116	117	118	24	109	109	110	23
7/16	111	112	112	24	118	118	119	24	107	107	107	23	115	116	117	24	106	107	108	23
7/17	111	111	112	24	117	118	119	24	107	107	110	23	114	114	115	24	107	108	109	23
7/18	112	112	113	24	117	117	118	24	109	109	110	23	114	115	116	24	109	109	110	23
7/19	112	113	114	24	117	117	118	24	109	109	109	23	113	113	114	24	108	108	109	23
7/20	112	112	112	24	117	117	118	24	108	108	108	23	112	112	113	24	106	106	106	23
7/21	112	112	113	24	118	118	118	24	108	108	109	23	113	114	116	24	107	108	110	23
7/22	111	111	112	24	117	118	118	24	109	110	110	23	112	112	114	24	109	110	111	23
7/23	109	110	110	24	117	118	120	24	107	107	108	23	112	113	115	24	106	107	108	23
7/24	110	110	111	24	116	117	117	24	106	106	107	23	111	112	112	24	107	107	108	23
7/25	110	110	112	24	117	118	118	24	105	105	106	23	113	115	116	24	106	106	107	23
7/26	110	110	111	24	119	120	120	24	106	107	109	23	114	116	118	24	109	109	110	23
7/27	110	111	112	24	118	118	118	24	109	109	110	23	115	116	117	24	109	110	110	23
7/28	110	111	112	24	117	117	118	24	109	109	110	23	115	115	117	24	109	110	110	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			
7/15	115	115	115	24	109	109	110	23	116	117	121	19	112	115	118	24	116	116	119	17
7/16	113	113	114	24	108	108	109	23	115	116	120	23	111	113	116	24	115	116	120	17
7/17	114	115	115	24	107	108	108	23	116	118	121	23	111	113	115	24	115	116	120	17
7/18	114	115	115	24	110	110	111	23	116	117	119	23	113	115	118	24	115	116	120	17
7/19	113	114	114	24	108	109	110	23	115	117	119	23	112	114	115	24	115	115	117	17
7/20	112	112	112	24	106	106	107	23	115	115	117	23	111	113	114	24	115	115	117	17
7/21	113	114	115	24	106	107	107	23	115	116	116	23	112	114	116	24	115	115	118	17
7/22	114	114	115	24	107	107	108	23	114	115	117	23	110	112	114	24	115	115	118	17
7/23	112	112	113	24	106	106	107	23	115	116	118	23	109	111	113	24	115	115	120	17
7/24	112	112	113	24	105	105	105	23	115	116	118	23	111	112	114	24	114	115	117	17
7/25	112	112	113	24	104	105	105	23	114	115	116	23	111	113	114	24	115	115	120	17
7/26	113	115	115	24	106	107	108	23	115	117	118	23	112	114	115	24	115	116	120	17
7/27	114	115	116	24	110	111	111	23	116	117	119	23	113	115	117	24	115	115	118	17
7/28	114	114	115	24	110	111	111	23	116	117	118	23	113	115	116	24	115	115	117	17

Two-Week Summary of Passage Indices

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>

this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

COMBINED YEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
07/15/2005	---	---	---	---	0	35	113	0	0	0	22
07/16/2005	*	---	---	---	0	53	269	0	0	144	0
07/17/2005	*	---	---	---	0	10	120	0	0	0	43
07/18/2005		---	---	---	0	27	54	0	0	0	0
07/19/2005		---	---	---	2	31	18	0	0	0	0
07/20/2005		---	---	---	0	0	0	0	0	32	0
07/21/2005		---	---	---	0	24	14	0	0	29	0
07/22/2005		---	---	---	0	35	21	0	0	19	0
07/23/2005	*	---	---	---	0	27	24	0	26	0	0
07/24/2005		---	---	---	0	3	0	2	0	0	0
07/25/2005		---	---	---	0	23	6	0	0	0	0
07/26/2005		---	---	---	0	7	9	0	0	24	0
07/27/2005		---	---	---	0	9	5	0	0	0	0
07/28/2005		---	---	---	0	7	2	0	0	0	0
07/29/2005		---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	2	291	655	2	26	248	65
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	21	47	0	2	18	5
YTD	43,641	42,830	5,792	1,810	5,673,854	2,477,141	706,754	14,795	1,226,429	1,409,350	1,527,229

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)
07/15/2005	---	---	---	---	1,087	3,448	2,994	209	41,169	60,256	28,543
07/16/2005	*	---	---	---	869	3,073	3,427	166	51,325	43,196	32,949
07/17/2005	*	---	---	---	589	1,693	1,612	96	24,479	34,911	25,517
07/18/2005		---	---	---	785	2,260	974	177	14,577	48,422	8,103
07/19/2005		---	---	---	487	2,793	335	124	12,274	25,778	17,060
07/20/2005		---	---	---	710	1,185	399	178	5,435	16,451	19,438
07/21/2005		---	---	---	700	1,267	772	242	7,022	11,554	6,872
07/22/2005		---	---	---	889	2,703	2,789	240	11,190	27,969	7,942
07/23/2005	*	---	---	---	586	3,205	1,207	134	13,030	16,270	9,204
07/24/2005		---	---	---	417	1,578	789	224	14,730	10,024	6,590
07/25/2005		---	---	---	271	766	239	124	17,408	10,285	2,756
07/26/2005		---	---	---	258	607	224	199	22,508	27,376	3,769
07/27/2005		---	---	---	505	481	294	257	21,336	37,662	3,061
07/28/2005		---	---	---	373	815	125	202	16,508	21,052	4,955
07/29/2005		---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	8,526	25,874	16,180	2,572	272,991	391,206	176,759
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	609	1,848	1,156	184	19,499	27,943	12,626
YTD	0	86	1,224	1,152	1,741,133	1,279,140	205,963	20,652	6,799,975	2,119,436	3,744,216

Two-Week Summary of Passage Indices

Date	COMBINED COHO										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/15/2005	---	---	---	---	0	17	2	2	0	191	0
07/16/2005	*	---	---	---	0	5	11	7	0	0	111
07/17/2005	*	---	---	---	0	0	0	4	0	0	43
07/18/2005		---	---	---	0	0	0	3	0	142	0
07/19/2005		---	---	---	0	0	0	2	18	72	0
07/20/2005		---	---	---	0	0	0	1	16	0	0
07/21/2005		---	---	---	0	0	3	4	0	0	0
07/22/2005		---	---	---	0	3	0	6	0	55	0
07/23/2005	*	---	---	---	0	10	8	1	0	0	0
07/24/2005		---	---	---	0	7	0	2	0	0	0
07/25/2005		---	---	---	0	0	0	1	0	0	0
07/26/2005		---	---	---	0	2	0	0	28	72	0
07/27/2005		---	---	---	0	2	0	0	0	0	0
07/28/2005		---	---	---	0	0	0	5	0	0	0
07/29/2005		---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	0	46	24	38	62	532	154
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	0	3	2	3	4	38	11
YTD	0	0	0	110	305,059	191,755	24,364	37,187	103,701	192,331	771,241

Date	COMBINED STEELHEAD										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/15/2005	---	---	---	---	0	14	14	0	61	253	22
07/16/2005	*	---	---	---	4	16	22	3	0	0	0
07/17/2005	*	---	---	---	6	15	17	1	0	0	43
07/18/2005		---	---	---	0	38	14	0	0	0	0
07/19/2005		---	---	---	2	10	0	0	0	0	0
07/20/2005		---	---	---	3	10	7	1	0	0	0
07/21/2005		---	---	---	0	14	6	0	0	15	0
07/22/2005		---	---	---	0	10	7	4	0	126	0
07/23/2005	*	---	---	---	6	10	0	1	0	72	0
07/24/2005		---	---	---	0	17	14	0	0	0	0
07/25/2005		---	---	---	5	3	0	1	0	0	0
07/26/2005		---	---	---	0	3	0	2	0	96	16
07/27/2005		---	---	---	6	5	8	0	0	143	0
07/28/2005		---	---	---	2	7	0	0	0	72	0
07/29/2005		---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	34	172	109	13	61	777	81
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	2	12	8	1	4	56	6
YTD	3,754	35,536	2,454	7,263	5,935,693	2,922,073	675,496	15,971	196,378	525,987	186,444

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)
07/15/2005	---	---	---	---	0	0	0	2	20	0	22
07/16/2005 *	---	---	---	---	0	11	0	18	61	0	0
07/17/2005 *	---	---	---	---	0	10	0	4	0	0	0
07/18/2005	---	---	---	---	3	11	0	3	0	0	0
07/19/2005	---	---	---	---	0	7	0	3	0	0	0
07/20/2005	---	---	---	---	0	5	0	7	32	0	0
07/21/2005	---	---	---	---	2	0	0	3	0	15	0
07/22/2005	---	---	---	---	3	0	0	4	0	36	0
07/23/2005 *	---	---	---	---	0	0	0	1	0	0	0
07/24/2005	---	---	---	---	0	0	0	2	0	0	0
07/25/2005	---	---	---	---	0	0	0	1	0	0	0
07/26/2005	---	---	---	---	0	2	0	5	14	0	16
07/27/2005	---	---	---	---	0	0	3	7	0	0	0
07/28/2005	---	---	---	---	0	0	0	6	14	0	0
07/29/2005	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	8	46	3	66	141	51	38
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	1	3	0	5	10	4	3
YTD	115	0	0	263	38,434	41,453	8,216	1,917	103,585	84,082	41,856

* 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:

7/29/05 9:11 AM

		07/16/05 TO 07/29/05						
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	3,269	1			3	14	3,287
	Sum of NumberBarged	2,783	1			3	15	2,802
	Sum of NumberBypassed	340	0			0	0	340
	Sum of Numbertrucked	0	0			0	0	0
	Sum of SampleMorts	23	0			0	0	23
	Sum of FacilityMorts	21	0			0	0	21
	Sum of ResearchMorts	21	0			0	0	21
	Sum of TotalProjectMorts	65	0			0	0	65
LGS	Sum of NumberCollected	15,057	168	27	26	100		15,378
	Sum of NumberBarged	19,718	427	26	35	100		20,306
	Sum of NumberBypassed	39	2	1	0	0		42
	Sum of Numbertrucked	0	0	0	0	0		0
	Sum of SampleMorts	70	1	0	1	4		76
	Sum of FacilityMorts	23	5	0	0	3		31
	Sum of ResearchMorts	0	0	0	0	0		0
	Sum of TotalProjectMorts	93	6	0	1	7		107
LMN	Sum of NumberCollected	6,586	264	9	1	45		6,905
	Sum of NumberBarged	6,832	273	10	2	39		7,156
	Sum of NumberBypassed	111	0	0	0	5		116
	Sum of Numbertrucked	0	0	0	0	0		0
	Sum of SampleMorts	39	0	0	0	0		39
	Sum of FacilityMorts	59	5	0	0	1		65
	Sum of ResearchMorts	0	0	0	0	0		0
	Sum of TotalProjectMorts	98	5	0	0	1		104
MCN	Sum of NumberCollected	75,244	8	18	38	15		75,323
	Sum of NumberBarged	72,346	2	17	26	14		72,405
	Sum of NumberBypassed	1,734	0	0	0	0		1,734
	Sum of Numbertrucked	0	0	0	0	0		0
	Sum of SampleMorts	185	0	0	0	0		185
	Sum of FacilityMorts	929	6	1	12	0		948
	Sum of ResearchMorts	50	0	0	0	1		51
	Sum of TotalProjectMorts	1,164	6	1	12	1		1,184
Total Sum of NumberCollected		100,156	441	54	68	174		100,893
Total Sum of NumberBarged		101,679	703	53	66	168		102,669
Total Sum of NumberBypassed		2,224	2	1	0	5		2,232
Total Sum of Numbertrucked		0	0	0	0	0		0
Total Sum of SampleMorts		317	1	0	1	4		323
Total Sum of FacilityMorts		1,032	16	1	12	4		1,065
Total Sum of ResearchMorts		71	0	0	0	1		72
Total Sum of TotalProjectMorts		1,420	17	1	13	9		1,460

YTD Transportation Summary

Source: Fish Passage Center

Updated:

7/29/05 9:11 AM

TO: 07/29/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,571,923	5,537,383	286,007	31,620	5,590,775	13,017,708
	Sum of NumberBarged	1,545,729	5,235,733	257,640	30,285	5,094,006	12,163,393
	Sum of NumberBypassed	13,107	278,605	26,286	490	448,421	766,909
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	439	453	16	16	70	994
	Sum of FacilityMorts	11,998	13,606	1,194	342	5,260	32,400
	Sum of ResearchMorts	93	103	0	0	2	198
	Sum of TotalProjectMorts	12,530	14,162	1,210	358	5,332	33,592
LGS	Sum of NumberCollected	1,192,040	2,452,371	186,026	38,858	2,857,382	6,726,677
	Sum of NumberBarged	1,135,869	2,016,961	151,294	37,809	2,277,098	5,619,031
	Sum of NumberBypassed	50,473	428,573	34,636	938	571,464	1,086,084
	Sum of NumberTrucked	1,856	238	10	47	362	2,513
	Sum of SampleMorts	209	128	12	5	72	426
	Sum of FacilityMorts	3,157	6,448	75	59	8,383	18,122
	Sum of ResearchMorts	0	20	0	0	0	20
	Sum of TotalProjectMorts	3,366	6,596	87	64	8,455	18,568
LMN	Sum of NumberCollected	176,636	670,856	21,559	7,344	614,108	1,490,503
	Sum of NumberBarged	168,644	512,008	17,036	7,156	456,618	1,161,462
	Sum of NumberBypassed	7,494	145,571	4,521	99	154,901	312,586
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	129	40	0	3	26	198
	Sum of FacilityMorts	310	524	2	26	328	1,190
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	439	564	2	29	354	1,388
MCN	Sum of NumberCollected	4,182,395	722,362	61,223	60,050	119,411	5,145,441
	Sum of NumberBarged	2,862,829	17,125	931	1,071	5,462	2,887,418
	Sum of NumberBypassed	1,294,911	702,217	60,102	58,589	113,558	2,229,377
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	608	120	8	18	8	762
	Sum of FacilityMorts	23,913	2,824	176	360	380	27,653
	Sum of ResearchMorts	134	76	6	12	3	231
	Sum of TotalProjectMorts	24,655	3,020	190	390	391	28,646
Total Sum of NumberCollected		7,122,994	9,382,972	554,815	137,872	9,181,676	26,380,329
Total Sum of NumberBarged		5,713,071	7,781,827	426,901	76,321	7,833,184	21,831,304
Total Sum of NumberBypassed		1,365,985	1,554,966	125,545	60,116	1,288,344	4,394,956
Total Sum of NumberTrucked		2,260	21,833	881	594	45,612	71,180
Total Sum of SampleMorts		1,385	741	36	42	176	2,380
Total Sum of FacilityMorts		39,378	23,402	1,447	787	14,351	79,365
Total Sum of ResearchMorts		227	199	6	12	5	449
Total Sum of TotalProjectMorts		40,990	24,342	1,489	841	14,532	82,194

Cumulative Adult Passage at Mainstem Dams Through: 07/28

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	77,817	4,381	90,746	12,645	53,545	7,242	0	0	0	0	0	0
TDA	60,956	3,209	130,240	7,717	99,119	5,946	66,664	3,257	77,796	8,192	45,510	5,075	0	0	0	0	0	0
JDA	55,877	2,715	112,153	6,367	82,666	4,703	60,305	4,944	70,541	10,138	42,375	4,752	0	0	0	0	0	0
MCN	51,857	3,201	107,497	7,682	76,092	4,941	60,326	2,733	62,313	8,225	40,964	4,568	0	0	0	0	0	0
IHR	28,040	1,267	77,106	4,646	51,680	3,159	8,620	951	12,969	2,975	10,080	1,789	0	0	0	0	0	0
LMN	25,783	1,002	71,578	3,785	49,507	2,979	8,090	752	10,436	2,175	9,578	1,455	0	0	0	0	0	0
LGS	23,961	929	62,458	3,404	47,589	3,042	6,749	914	9,128	2,220	8,334	1,701	0	0	0	0	0	0
LWG	26,028	1,258	70,742	4,482	47,410	3,274	6,580	1,015	8,632	2,456	8,440	1,852	0	0	0	0	0	0
PRD	14,148	515	13,521	1,020	15,454	477	56,631	1,786	61,702	5,122	33,975	1,399	0	0	0	0	0	0
RIS	11,908	476	10,918	958	12,149	699	45,896	2,055	53,674	3,977	28,783	3,017	0	0	0	0	0	0
RRH	4,568	417	4,365	734	4,426	242	33,899	1,583	33,463	6,077	19,141	1,766	0	0	0	0	0	0
WEL	4,897	99	4,615	178	3,006	190	21,799	365	22,689	762	12,877	573	0	0	0	0	0	0
WFA	35,355	1,179	96,146	746	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.	10-Yr		Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	0	-1	0	0	5	0	72,336	123,014	53,536	82,131	83,915	79,766	33,342
TDA	2	0	0	0	0	0	61,440	107,322	44,321	34,555	31,450	36,597	17,657
JDA	6	-12	0	0	1	0	65,526	113,292	47,890	25,668	28,059	27,507	10,796
MCN	0	0	0	0	0	0	62,992	89,620	41,118	17,920	18,968	18,347	7,048
IHR	0	0	0	0	0	0	18	91	24	6,665	12,134	9,302	2,248
LMN	0	0	2	0	0	0	16	70	28	6,654	8,429	7,976	2,194
LGS	0	0	0	0	0	0	14	80	32	3,826	5,231	5,264	1,380
LWG	0	0	0	0	0	0	16	113	32	7,238	10,328	8,671	2,483
PRD	0	1	0	0	3	0	73,223	124,354	51,005	1,607	3,602	1,685	n/a
RIS	2	0	0	0	1	0	67,660	105,134	45,120	1,122	2,322	979	905
RRH	0	0	0	0	1	0	49,881	79,523	30,290	864	1,973	665	699
WEL	0	0	0	0	0	0	49,731	75,494	28,821	304	827	316	217
WFA	0	0	0	0	n/a	n/a	0	0	n/a	18998	43438	n/a	n/a

WFA is through 07/25, RIS, & RRH are through 7/26, WEL is through 07/27. LGR is missing 6/12.

IHR chinook jack were counted as coho jack for 5/23, 5/24, 6/9 - 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: 07/29/05

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

