



Fish Passage Center

Weekly Report #08 - 21

July 25, 2008

1827 NE 44th Ave., Suite 240
Portland, OR 97213
phone: 503/230-4099
fax: 503/230-7559

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 3% and 66% of average at individual sub-basins over the first three weeks of July. Precipitation above The Dalles has been 38% of average over July. Over the entire water year, precipitation has generally been near average.

Table 1. Summary of July 1-21 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 2008 July 1-21		Water Year 2008 October 1, 2007 to July 21, 2008	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.62	52	20.77	96
Snake River Above Ice Harbor	0.08	13	15.20	97
Columbia Above The Dalles	0.32	38	19.88	97
Kootenai	0.62	48	19.36	87
Clark Fork	0.25	31	15.35	102
Flathead	0.71	66	19.69	99
Pend Oreille/ Spokane	0.18	19	27.71	98
Central Washington	0.07	28	5.82	71
Snake River Plain	0.09	22	7.80	78
Salmon/Boise/ Payette	0.12	22	18.02	99
Clearwater	0.05	5	27.49	99
SW Washington Cascades/Cowlitz	0.42	45	60.95	92
Willamette Valley	0.02	3	57.14	101

Table 2 displays the June Final and July Final runoff volume forecasts for multiple reservoirs. Water Supply Forecasts increased at all but two locations (Libby and Brownlee) between the June Final and July Final forecasts with Dworshak showing the biggest change by increasing 18% from the June Final to July Final forecast. The current forecast (July Final) at The Dalles between January and July is 101000 Kaf (94% of average).

Table 2. June Final and July Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	June Final		July Final	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	92	98200	94	101000
Grand Coulee (Jan- July)	95	59800	97	61300
Libby Res. Inflow, MT (Jan-July)	93	5840	90	5700
Hungry Horse Res. Inflow, MT (Jan-July)	99	2200	108	2410
Lower Granite Res. Inflow (Apr- July)	102	21900	106	22900
Brownlee Res. Inflow (Apr-July)	76	4780	68	4270
Dworshak Res. Inflow (Apr-July)	109	2880	127	3370

The summer Biological Opinion flow at Lower Granite Dam is determined by the June Final Water Supply Forecast and is 52.5 Kcfs this year. Flows at Lower Granite Dam averaged 77.9 Kcfs between June 21st, 2008 and July 24th, 2008. Flows at Lower Granite averaged 45.1 Kcfs last week.

The summer Biological Opinion flow at McNary Dam is 200 Kcfs and began on July 1, 2008. Flows at McNary Dam have averaged 224.5 Kcfs over the summer flow period (July 1-24) and have averaged 163.7 Kcfs last week.

Grand Coulee Reservoir is at 1287.7 feet (7-24-08) and has drafted 1.0 foot over the last week. Outflows at Grand Coulee have ranged between 80.3 and 127.8 Kcfs over the last week. Inflows last week have ranged between 106 Kcfs and 120.4 Kcfs. The end of August draft elevation will be 1280 feet at Grand Coulee this year.

The Libby Reservoir is currently at elevation 2444.4 feet (7-24-08) and drafted 0.5 feet last week. Outflows at Libby are currently 13 Kcfs. Inflows at Libby have ranged between 9.5 Kcfs and 15.2 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3556.9 ft (7-24-08) and has drafted 1.4 feet last week. Outflows are currently 6.4-6.5 Kcfs; inflows ranged between 2.3 Kcfs and 4.5 Kcfs last week.

Dworshak is currently at an elevation of 1589.9 feet (7-24-08) and has drafted 5.6 feet last week. Outflows at Dworshak have been 12 Kcfs for most of the last week; however on July 24th, 2008 outflows were increased to the maximum allowable discharge while staying under the 110% TDG level below Dworshak Dam, this outflow is currently 13.6 Kcfs. Dworshak inflows have ranged between 2.7 and 4.8 Kcfs last week.

The Brownlee Reservoir is at an elevation of 2068.7 feet (July 24th, 2008), and has drafted 1.1 feet last week. Outflows at Brownlee Dam have been 13.3 to 17.4 Kcfs over the last week. Inflows at Brownlee Dam have been 11.9 to 14.0 Kcfs over the last week.

Spill: The summer spill season was initiated on June 21, 2008 in the Snake River. The Court Order calls for the following spill levels at the Federal Snake River Projects

Project	Day/Night Spill
Lower Granite	18 Kcfs/18 Kcfs
Little Goose	30%/30%
Lower Monumental	17 Kcfs/17 Kcfs
Ice Harbor	30%/30% vs 45 Kcfs/Gas Cap Study

Dworshak Dam outflows continued at about 12.0 Kcfs over the past week, which is above hydraulic capacity, resulting in about 2.5 Kcfs spill. Lower Granite, Little Goose and Lower Monumental dams have all spilled to the Court Order over the past week. Ice Harbor Dam has generally met the court ordered levels of 45 Kcfs daytime spill and gas cap nighttime spill (study was concluded on July 17th) except when daytime spill is below 45 Kcfs due to low flows and powerhouse minimum flows. Ice Harbor Dam has minimum spill of 15.2 Kcfs.

Summer spill was initiated on July 1, 2008. The Court Order calls for the following summer spill levels at the Federal Lower Columbia River Projects:

Project	Day/Night Spill
McNary	60%/60% vs 40%/40%
John Day	30%/30%
The Dalles	40%/40%
Bonneville	75 Kcfs/Gas Cap (after completion of 85 Kcfs Test)

Summer spill at McNary was initiated on June 21, 2008 to facilitate the conduct of a research study comparing spill levels of 40%/40% versus 60%/60%. The project generally met the Court ordered spill this past week of 40%/40% versus 60%/60% spill. At John Day Dam spill has generally met the Court Ordered 30%/30% spill since the test was completed on July 17th. Spill at The Dalles Dam met the Court Order spill of 40%. The summer spill levels at Bonneville Dam were 75 Kcfs during daytime hours and gas cap spill at night.

Total dissolved gas did not exceed the 120% tailrace or 115% forebay limits this past week. Gas bubble trauma (GBT) monitoring at Lower Granite Dam has concluded for the year. Sampling occurred at all other Snake River monitoring sites, Rock Island Dam in the Mid Columbia, and at McNary and Bonneville dams in the lower Columbia. One fish (out of 100 sampled) was detected with minor signs of GBT

in the non paired fins at Rock Island Dam on July 21st.

Smolt Monitoring: Subyearling Chinook numbers increased over the past week at Lower Granite Dam and Subyearling Chinook passage numbers remained high in the Rock Island Dam to Bonneville Dam reach also.

At Lower Granite Dam in the Snake River the daily passage indices for subyearling Chinook averaged about 5,000 per day this past week compared to about 3,500 per day the previous week. PIT-tag data suggest that hatchery origin fish predominate, and that those fish are arriving from releases in the Snake River as well from several points in the Clearwater River basin. Passage indices continued to decline at Little Goose and Lower Monumental dams over the week, except that the index at Little Goose jumped to over 7,000 on July 24 as the increased numbers of fish appeared to have reached Little Goose Dam as well.

At Rock Island Dam indices for subyearling Chinook dropped slightly from 330 per day two weeks ago to 250 per day this past week. At the lower Columbia River dams indices for subyearling Chinook were down as well, but relatively large numbers of fish still continue to pass those projects. At McNary the subyearling Chinook index averaged nearly 50,000 per day this week compared to 76,000 per day last week. While at John Day the index average 20,000 per day this week down from 36,000 per day last week. And at Bonneville Dam subyearling Chinook passage indices averaged 17,000 per day over the past week, compared with 42,000 per day the previous week.

Hatchery Release:

Snake River Zone: The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. There were no scheduled releases of juvenile salmonids to this zone this week and no releases are scheduled over the next two weeks.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. There were no releases of juvenile salmonids to the Mid-Columbia river zone this week. Furthermore, no releases are scheduled for this zone over the next two weeks.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no scheduled releases of juvenile salmonids to this zone this week and no releases are scheduled over the next two weeks.

Adult Fish Passage:

Daily passage numbers at Bonneville Dam have ranged between 337 and 601 adult summer Chinook in the last week. The 2008 summer Chinook count of 75,932 is about 1.69 times greater than the 2007 and 1.11 times greater than the 10 year average. The summer Chinook jack count of 11,239 was 87.8% of the 2007 count and was 1.31 times greater than the 10 year average to date. The adult summer Chinook count total at The Dalles Dam was 62,398, about 82.1% of the Bonneville passage total to date. A total of 50,734 summer Chinook have passed McNary Dam. The adult summer Chinook count total at Lower Granite Dam in the Snake River was 21,460 as of July 23rd. The 2008 adult summer Chinook count at Rock Island Dam in the upper Columbia was 29,282 with daily totals ranging from 463 to 918.

As of July 24th, 101,982 steelhead had passed Bonneville Dam. The 2008 count was 2.09 times greater than the 2007 count of 48,703 and 1.44 times greater than the 10 year average. The 2008 wild steelhead count at Bonneville Dam was 42,531 fish. The daily steelhead counts at The Dalles Dam ranged between 3,072 and 5,336 for the week with a cumulative count of 59,143. About 57.9% of the steelhead counted at Bonneville Dam had passed The Dalles Dam.

The majority of the 17,968 steelhead at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 10,162 for the season. The cumulative count at Priest Rapids Dam was at 2,389 steelhead for the season. As of July 24th at Bonneville Dam, the adult Shad count was 2,136,217 which was about 83.1% of the 2007 count of 2,569,151 and only 69.1% the 10 year average count of 3,087,856.

The 2008 Bonneville Dam sockeye count of 213,455 increased about 8.83 times compared to the 2007 count and increased approximately 3.66 times compared to the 10 year average. A total of 189,321 adult sockeye have been counted at Priest Rapids Dam so far this season.

Two of the major spawning sites for sockeye in the upper Columbia river zone are Lake Wenatchee and Lake Osoyoos (Okanogan basin). As of July 17th at Wells Dam, the 2008 sockeye count of 145,731 was 9.17 times greater than the 2007 count and 5.43 times greater than the 10 year average. Fish counting at Wells Dam is lagging behind this year due to the large numbers of fish passing the dam. To date, only 532 sockeye have been counted at Ice Harbor Dam in the Snake River.

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
07/11/2008	132.1	0.2	136.4	0.0	146.7	14.4	149.5	14.6	158.0	30.7	168.6	28.1	164.9	21.4
07/12/2008	145.9	0.1	134.1	0.0	139.5	13.8	134.9	11.1	142.7	25.7	151.0	19.8	149.3	20.8
07/13/2008	74.2	0.1	82.2	0.0	121.5	12.7	132.6	10.9	143.3	22.5	148.5	19.9	153.9	21.3
07/14/2008	136.7	0.1	126.6	0.0	105.3	10.5	95.7	12.2	101.4	30.3	144.4	19.2	135.9	20.0
07/15/2008	120.4	0.1	131.2	0.0	134.6	9.8	134.2	9.6	137.8	25.6	121.6	17.2	111.1	19.7
07/16/2008	124.3	0.1	120.0	0.0	126.8	9.4	123.6	8.4	125.6	27.2	128.6	17.6	129.8	22.3
07/17/2008	114.2	0.1	120.4	0.0	120.4	9.3	117.8	11.4	121.0	27.1	109.0	19.1	99.2	23.2
07/18/2008	120.2	0.1	118.1	0.0	124.9	9.7	128.0	12.6	131.1	27.7	126.5	19.9	120.7	23.0
07/19/2008	114.1	0.1	116.8	0.0	122.7	9.2	121.2	10.7	125.6	25.5	133.0	19.5	129.4	22.2
07/20/2008	80.3	0.1	80.9	0.0	95.1	8.5	97.9	9.4	104.7	21.5	123.7	19.5	121.8	22.5
07/21/2008	122.5	0.1	116.9	0.0	106.5	9.1	103.6	11.2	104.4	26.1	102.6	18.4	104.3	20.2
07/22/2008	90.4	0.1	98.4	0.0	104.8	8.6	106.0	10.8	109.1	22.2	110.0	19.6	99.9	22.2
07/23/2008	113.1	0.1	103.6	0.0	104.0	8.8	106.4	9.2	106.1	20.5	109.0	19.3	103.1	21.8
07/24/2008	127.8	0.1	127.4	0.0	126.5	13.1	120.8	15.2	119.7	20.8	125.5	20.1	128.6	20.1

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
07/11/2008	9.4	0.0	9.2	10.4	56.2	18.5	56.5	16.8	54.4	17.4	56.7	22.9		
07/12/2008	9.5	0.0	9.9	8.6	51.1	18.4	49.4	14.8	47.6	16.6	51.1	17.1		
07/13/2008	9.5	0.0	9.7	11.7	47.2	18.4	43.1	12.9	40.9	15.4	43.5	30.2		
07/14/2008	9.5	0.0	11.7	13.0	50.0	18.4	49.2	14.8	46.8	16.9	49.6	36.4		
07/15/2008	9.5	0.0	11.5	12.9	47.8	18.4	48.0	14.4	44.2	16.3	47.6	17.4		
07/16/2008	9.7	0.2	12.6	14.5	46.3	18.5	42.2	12.6	40.5	16.8	42.1	15.2		
07/17/2008	12.0	2.5	13.8	14.5	49.0	18.5	46.7	14.0	45.2	17.4	49.0	33.3		
07/18/2008	12.0	2.5	11.9	14.5	47.3	18.5	47.0	14.3	45.1	17.0	48.6	38.2		
07/19/2008	12.0	2.5	13.1	17.3	47.0	18.3	45.7	13.8	43.8	17.4	46.2	35.5		
07/20/2008	12.0	2.5	12.7	14.1	47.3	18.5	45.2	13.7	43.8	16.9	45.8	35.0		
07/21/2008	12.0	2.5	12.7	14.5	44.3	18.4	44.0	13.1	41.8	17.4	45.4	34.7		
07/22/2008	12.1	2.5	14.0	13.8	43.1	18.6	41.6	12.5	40.4	17.1	42.8	32.2		
07/23/2008	12.0	2.5	13.3	13.8	42.2	18.5	41.3	12.3	39.6	17.4	44.2	34.1		
07/24/2008	12.5	3.0	---	---	44.7	18.4	44.6	13.3	41.8	16.8	45.5	35.0		

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
07/11/2008	227.1	124.9	233.7	74.8	223.9	89.4	238.2	88.2	41.5	96.8
07/12/2008	225.5	135.5	219.8	65.7	220.8	88.1	232.3	89.8	32.1	98.5
07/13/2008	196.0	117.6	182.3	68.9	180.2	72.2	220.9	91.3	21.5	96.2
07/14/2008	202.0	121.3	192.5	76.5	174.6	65.1	178.0	89.7	0.5	75.8
07/15/2008	194.5	88.4	177.1	70.9	165.7	64.9	185.5	85.7	2.1	85.8
07/16/2008	166.4	67.3	156.2	62.8	156.1	62.1	175.7	86.7	2.3	74.8
07/17/2008	166.3	66.0	166.3	52.9	156.1	62.4	163.0	88.6	0.0	62.4
07/18/2008	178.6	71.6	170.7	51.2	161.0	64.2	160.4	90.1	0.0	58.4
07/19/2008	180.0	99.1	172.5	51.8	165.2	66.1	171.5	91.7	1.4	66.5
07/20/2008	171.7	103.2	151.4	45.8	141.7	56.8	164.7	93.5	0.0	59.3
07/21/2008	161.0	69.7	173.6	52.2	173.7	69.3	181.4	86.5	0.0	83.0
07/22/2008	152.0	61.1	140.5	42.0	132.5	52.9	155.7	88.3	0.0	55.4
07/23/2008	162.6	88.0	147.2	44.4	143.3	57.0	157.7	89.1	0.0	56.7
07/24/2008	140.3	84.4	147.3	44.2	146.2	58.2	160.1	86.0	0.5	61.8

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											
	07/15/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/22/08	Chinook + Steelhead	50	0	0	0.00%	0.00%	0	0	0	0
Lower Monumental Dam											
	07/20/08	Chinook + Steelhead	10	0	0	0.00%	0.00%	0	0	0	0
	07/21/08	Chinook + Steelhead	81	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	07/17/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	07/21/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/15/08	Chinook + Steelhead	104	0	0	0.00%	0.00%	0	0	0	0
	07/19/08	Chinook + Steelhead	76	0	0	0.00%	0.00%	0	0	0	0
	07/22/08	Chinook + Steelhead	104	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	07/17/08	Chinook + Steelhead	50	0	0	0.00%	0.00%	0	0	0	0
	07/21/08	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	07/24/08	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0

Hatchery Releases Last Two Weeks

Hatchery Release Summary

From: 7/11/2008 to 07/24/08

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2009	300,000	07-01-08	07-15-08	Selway River	Clearwater River M F
Nez Perce Tribe Total					300,000				
Grand Total					300,000				

Hatchery Releases Next Two Weeks

Hatchery Release Summary

From: 7/25/2008 to 8/7/2008

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
--------	----------	---------	------	-------	--------	----------	--------	---------	----------

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>				<u>Boundary</u>				<u>Grand Coulee</u>				<u>Grand C. Tlwr</u>				<u>Chief Joseph</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
7/11	104	105	105	24	117	118	123	22	119	119	120	24	115	116	117	22	115	115	116	24
7/12	104	105	105	24	115	116	116	23	118	119	119	24	116	116	118	23	115	116	116	24
7/13	105	106	106	24	115	116	118	24	118	119	119	24	116	117	119	24	117	117	118	24
7/14	106	106	106	25	113	115	118	25	118	118	118	24	117	118	120	25	116	117	117	25
7/15	105	105	106	24	114	114	117	23	117	118	118	24	116	117	118	23	116	116	117	24
7/16	106	106	106	24	111	112	115	22	117	117	118	24	116	116	118	22	116	116	116	24
7/17	106	106	106	24	111	112	116	23	116	117	117	24	115	116	116	23	115	116	117	24
7/18	106	106	107	24	111	112	112	23	116	117	117	24	116	117	120	23	115	116	116	24
7/19	105	106	106	24	110	111	111	22	115	116	116	24	116	116	120	22	115	116	116	24
7/20	106	106	107	24	109	110	111	22	115	115	116	24	115	116	118	22	115	116	117	24
7/21	106	107	107	24	109	110	111	21	116	116	117	24	115	116	116	21	115	116	117	24
7/22	107	107	107	24	109	109	109	24	115	116	116	24	114	115	116	24	115	115	116	24
7/23	106	106	106	24	108	108	109	23	115	115	115	24	114	115	121	23	114	115	115	24
7/24	106	106	106	24	108	108	109	23	114	115	115	24	114	115	119	23	113	114	115	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>				<u>Wells</u>				<u>Wells Dwnstrm</u>				<u>Rocky Reach</u>				<u>Rocky R. Tlwr</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
7/11	114	114	114	24	114	114	115	24	116	116	117	24	116	116	117	24	116	117	118	24
7/12	114	115	115	24	115	116	116	24	117	117	118	24	115	115	116	24	115	116	116	24
7/13	116	117	118	24	115	116	117	24	117	118	119	24	115	116	116	24	115	116	117	24
7/14	115	116	117	25	115	117	117	25	117	118	119	25	115	116	116	25	115	116	116	25
7/15	115	116	117	24	116	116	116	24	117	118	118	24	115	115	116	24	115	115	116	24
7/16	115	115	116	24	115	116	116	24	117	118	118	24	115	115	116	24	115	116	116	24
7/17	114	115	116	24	116	116	117	23	117	118	119	23	115	115	116	24	115	116	116	24
7/18	115	115	116	24	115	116	116	24	117	118	118	24	115	115	116	24	115	116	116	24
7/19	114	115	115	24	115	117	118	24	117	118	119	24	115	115	115	24	115	116	116	24
7/20	115	116	117	24	116	117	118	24	117	118	119	24	115	116	116	24	115	116	116	24
7/21	114	115	116	24	116	117	117	24	117	119	119	24	116	116	117	24	116	117	117	24
7/22	115	115	116	24	115	116	117	24	117	118	119	24	116	116	116	24	116	116	117	24
7/23	113	115	115	24	113	114	116	21	116	116	118	21	114	115	115	24	114	115	115	24
7/24	112	113	114	24	114	115	116	24	116	118	118	24	114	114	115	24	114	115	117	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>				<u>Rock I. Tlwr</u>				<u>Wanapum</u>				<u>Wanapum Tlwr</u>				<u>Priest Rapids</u>			
	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
7/11	116	117	118	24	120	121	121	24	112	114	116	24	115	116	116	24	113	115	116	24
7/12	115	116	116	24	118	119	120	24	114	115	117	24	117	118	118	24	116	116	117	24
7/13	115	116	116	24	118	119	119	24	116	117	118	24	117	118	118	24	117	117	117	24
7/14	115	116	116	25	120	120	122	25	114	115	117	24	116	116	117	24	115	116	117	24
7/15	115	116	116	24	118	119	120	24	114	115	116	24	115	116	116	24	114	114	115	24
7/16	114	115	115	24	118	118	118	24	113	114	115	24	115	115	116	24	113	114	115	24
7/17	115	115	116	24	119	119	120	24	113	114	115	24	115	115	116	24	113	114	115	24
7/18	115	115	116	24	119	119	120	24	112	112	113	24	115	115	116	24	112	113	114	24
7/19	114	115	116	24	119	119	120	24	112	114	115	24	114	115	116	24	112	113	115	24
7/20	115	116	116	24	119	119	120	24	113	114	115	24	116	117	117	24	114	115	116	24
7/21	115	116	116	24	119	120	120	24	113	114	115	24	116	116	116	24	114	115	115	24
7/22	115	115	116	24	118	119	121	24	112	113	114	24	115	115	117	24	112	113	113	24
7/23	113	114	114	24	116	118	120	23	110	111	112	24	114	115	115	24	110	111	111	24
7/24	113	115	116	24	118	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	Priest R. Dnst				Pasco				Dworshak				Clwrtr-Peck				Anatone			
	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	
7/11	114	115	116	24	109	110	111	24	101	101	101	24	101	102	103	24	102	103	104	24
7/12	116	117	117	24	111	112	113	24	101	102	102	24	102	103	104	24	102	103	104	24
7/13	117	117	118	24	112	113	114	24	102	102	103	24	102	103	104	24	103	104	104	24
7/14	116	116	117	24	113	114	115	25	102	102	103	24	102	103	104	25	103	104	104	25
7/15	114	115	115	24	112	112	113	24	102	102	102	24	102	102	103	24	102	103	103	24
7/16	114	115	115	24	111	111	112	24	102	102	104	24	102	103	104	24	102	103	104	24
7/17	114	114	115	24	111	112	112	24	104	105	105	24	104	105	105	24	102	103	104	24
7/18	113	113	114	10	110	111	111	24	104	104	105	24	104	104	105	24	102	103	104	24
7/19	---	---	---	0	109	110	111	24	104	105	105	24	104	105	106	24	102	103	104	24
7/20	---	---	---	0	110	110	111	24	104	105	105	24	104	105	106	24	102	103	104	24
7/21	114	115	115	15	110	111	112	24	104	105	105	24	104	105	106	24	102	103	104	24
7/22	113	113	114	24	109	109	110	24	106	107	108	24	104	105	105	24	101	101	102	24
7/23	112	112	113	24	106	108	109	24	107	107	109	24	105	106	107	24	102	103	104	24
7/24	---	---	---	0	108	108	109	24	108	109	110	24	106	107	108	24	102	103	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clwrtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
7/11	102	104	105	24	101	101	101	24	109	110	111	24	108	109	109	24	111	112	112	24
7/12	102	104	106	24	101	102	102	24	110	110	111	24	109	109	110	24	114	115	116	24
7/13	103	105	106	24	100	101	101	24	110	110	111	24	109	109	110	24	113	115	115	24
7/14	103	105	106	25	100	100	101	25	110	110	111	25	108	108	110	25	110	111	112	25
7/15	102	103	104	24	100	101	101	24	110	111	112	24	110	110	111	24	110	111	112	24
7/16	103	105	106	24	101	101	101	24	110	110	111	24	110	110	111	24	113	115	115	24
7/17	104	106	107	24	101	101	102	24	110	110	111	24	109	110	110	24	114	115	115	24
7/18	104	106	107	24	100	101	101	24	110	110	111	24	109	109	109	24	112	113	114	24
7/19	104	106	108	24	100	101	101	24	110	110	111	24	109	109	109	24	111	112	112	24
7/20	104	106	108	24	101	101	101	24	110	110	111	24	109	109	109	24	114	114	115	24
7/21	104	106	107	24	101	101	101	24	110	110	111	24	108	108	108	24	114	114	115	24
7/22	102	103	103	24	101	101	101	24	110	111	112	24	108	108	108	24	111	111	112	24
7/23	104	106	108	24	101	102	102	24	110	111	111	24	107	107	109	24	111	111	112	24
7/24	105	107	109	24	101	102	102	24	110	111	111	24	107	107	108	24	109	110	110	24

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

Date	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
7/11	110	110	112	24	115	115	116	24	112	112	113	24	113	114	116	24	---	---	---	0
7/12	109	109	109	24	114	116	117	24	112	112	112	24	112	113	115	24	---	---	---	0
7/13	110	111	111	24	114	115	116	24	113	113	114	24	113	115	115	24	---	---	---	0
7/14	112	112	113	25	116	118	139	25	114	114	115	25	114	116	116	25	---	---	---	0
7/15	113	113	114	24	115	115	116	11	114	114	115	24	113	114	116	24	---	---	---	0
7/16	112	113	113	24	115	115	119	13	114	114	114	24	112	112	113	24	---	---	---	0
7/17	110	111	112	24	115	115	116	24	114	115	116	24	113	114	115	24	---	---	---	0
7/18	110	110	111	24	114	115	115	24	114	115	115	24	113	113	113	24	---	---	---	0
7/19	111	111	112	24	115	115	116	24	114	114	115	24	113	114	114	24	---	---	---	0
7/20	111	112	112	24	115	116	116	24	114	114	115	24	113	114	114	24	---	---	---	0
7/21	111	112	112	24	116	116	117	24	114	114	115	24	113	114	115	24	---	---	---	0
7/22	111	111	111	24	115	116	116	24	113	113	113	24	114	114	114	24	---	---	---	0
7/23	110	110	110	24	115	116	116	24	111	111	111	24	114	114	115	24	---	---	---	0
7/24	109	110	110	24	115	116	116	24	111	111	111	24	114	115	116	24	---	---	---	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 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	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High	hr				
7/11	112	113	113	24	116	117	117	24	110	111	112	24	115	115	115	24	111	113	114	24
7/12	111	112	114	24	117	117	118	24	112	113	114	24	115	115	115	24	112	113	114	24
7/13	111	112	113	24	116	116	117	24	114	114	114	24	115	115	116	24	113	114	114	24
7/14	113	113	114	25	116	117	117	25	112	112	113	18	115	116	117	17	113	113	114	24
7/15	114	114	114	24	115	115	116	24	112	112	112	24	115	115	116	24	113	114	114	24
7/16	113	113	114	24	115	116	116	24	111	112	112	21	115	115	116	21	112	112	113	24
7/17	113	113	114	24	115	116	116	24	111	112	112	24	115	115	116	24	110	110	111	24
7/18	111	112	112	24	115	115	116	24	110	111	111	24	114	114	115	24	108	109	110	24
7/19	111	111	113	24	115	116	117	24	110	110	110	24	114	115	115	24	108	108	109	24
7/20	110	111	111	24	115	116	117	24	109	109	110	24	113	114	115	24	110	110	110	24
7/21	110	110	111	24	115	116	116	24	108	108	109	24	114	114	114	24	109	109	109	24
7/22	109	109	110	24	116	116	117	24	106	106	107	24	113	114	115	24	106	107	108	24
7/23	107	108	109	24	114	115	116	24	104	104	105	24	114	114	115	24	104	104	104	24
7/24	106	107	107	24	114	114	115	24	103	103	103	11	114	114	115	11	105	106	107	24

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>#</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	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High	hr				
7/11	116	117	118	24	110	111	111	24	---	---	---	0	111	112	112	24	117	118	119	24
7/12	117	118	119	24	112	113	115	24	---	---	---	0	112	113	114	24	117	118	120	24
7/13	117	117	118	24	116	116	117	24	---	---	---	0	115	117	118	24	117	117	119	24
7/14	117	117	118	24	115	116	116	25	---	---	---	0	116	117	118	25	117	117	118	25
7/15	117	117	117	24	113	114	114	24	---	---	---	0	115	117	117	24	116	116	117	24
7/16	116	116	116	24	111	112	112	24	---	---	---	0	113	114	114	24	116	116	117	24
7/17	115	115	115	24	109	109	110	24	---	---	---	0	113	114	115	24	117	117	118	24
7/18	114	114	114	24	107	107	108	24	---	---	---	0	111	113	114	24	116	117	118	24
7/19	114	115	115	24	106	107	107	24	---	---	---	0	112	114	116	24	116	116	118	24
7/20	115	116	116	24	107	108	108	24	---	---	---	0	112	114	115	24	116	117	118	24
7/21	115	115	115	24	107	108	108	24	---	---	---	0	113	114	116	24	115	116	118	24
7/22	113	113	114	24	106	106	107	24	---	---	---	0	109	111	112	24	115	117	119	24
7/23	111	111	112	24	104	104	105	24	---	---	---	0	110	112	114	24	115	116	119	24
7/24	112	113	113	24	104	105	106	24	---	---	---	0	112	114	116	24	115	116	119	24

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 7/25/2008 8:57

Two-Week Summary of Passage Indices

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

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

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

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

COMBINED YEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/11/2008 *	---	---	---	---	57	86	58	0	---	167	237
07/12/2008	---	---	---	---	15	29	23	0	259	119	0
07/13/2008 *	---	---	---	---	0	43	43	1	---	111	116
07/14/2008	---	---	---	---	8	0	36	3	387	139	0
07/15/2008 *	---	---	---	---	16	0	0	0	---	0	87
07/16/2008 *	---	---	---	---	16	16	3	2	0	0	0
07/17/2008 *	---	---	---	---	0	10	13	3	101	118	0
07/18/2008	---	---	---	---	0	0	10	1	0	0	0
07/19/2008	---	---	---	---	8	7	29	3	85	0	0
07/20/2008	---	---	---	---	0	43	10	4	0	0	47
07/21/2008	---	---	---	---	8	0	13	3	0	0	0
07/22/2008	---	---	---	---	9	10	0	2	34	0	55
07/23/2008	---	---	---	---	9	1	0	1	0	0	0
07/24/2008	---	---	---	---	9	0	11	0	0	0	0
07/25/2008	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	155	245	249	23	866	654	542
# Days:	0	0	0	0	14	14	14	14	11	14	14
Average:	0	0	0	0	11	18	18	2	79	47	39
YTD	56,037	78,597	19,672	13,632	3,386,408	2,743,410	1,971,466	22,428	1,360,541	1,693,757	1,291,078

COMBINED SUBYEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
07/11/2008 *	---	---	---	---	2,816	12,157	2,726	288	---	37,886	59,633
07/12/2008	---	---	---	---	2,069	5,537	1,314	564	103,859	35,004	52,935
07/13/2008 *	---	---	---	---	5,508	4,342	1,532	345	---	38,165	44,731
07/14/2008	---	---	---	---	4,968	2,786	555	393	40,616	31,791	32,036
07/15/2008 *	---	---	---	---	2,703	4,289	445	167	---	36,252	34,251
07/16/2008 *	---	---	---	---	2,875	6,439	588	265	85,522	47,440	36,340
07/17/2008 *	---	---	---	---	4,179	3,048	500	273	75,744	24,507	37,525
07/18/2008	---	---	---	---	4,386	3,376	545	254	52,591	24,052	27,653
07/19/2008	---	---	---	---	3,559	3,618	543	174	65,649	28,395	18,079
07/20/2008	---	---	---	---	4,136	5,375	213	349	43,889	17,378	25,387
07/21/2008	---	---	---	---	4,836	5,167	774	313	41,746	17,243	11,307
07/22/2008	---	---	---	---	7,009	2,969	457	260	60,332	18,047	19,482
07/23/2008	---	---	---	---	5,008	3,549	891	217	47,902	25,595	8,465
07/24/2008	---	---	---	---	7,015	7,061	151	194	26,188	14,275	8,504
07/25/2008	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	61,067	69,713	11,234	4,056	644,038	396,030	416,328
# Days:	0	0	0	0	14	14	14	14	11	14	14
Average:	0	0	0	0	4,362	4,980	802	290	58,549	28,288	29,738
YTD	0	0	2	119	675,017	1,041,951	318,898	13,325	1,984,126	1,491,888	3,605,457

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)
07/11/2008 *	---	---	---	---	0	0	0	9	---	0	0
07/12/2008	---	---	---	---	0	0	0	3	0	0	0
07/13/2008 *	---	---	---	---	0	0	0	6	---	0	0
07/14/2008	---	---	---	---	0	0	0	8	0	0	0
07/15/2008 *	---	---	---	---	8	0	0	7	---	0	44
07/16/2008 *	---	---	---	---	0	0	0	7	0	0	0
07/17/2008 *	---	---	---	---	0	0	0	8	0	0	0
07/18/2008	---	---	---	---	0	0	0	12	0	0	0
07/19/2008	---	---	---	---	0	0	0	4	0	0	0
07/20/2008	---	---	---	---	0	0	0	9	0	0	0
07/21/2008	---	---	---	---	0	0	0	6	0	0	54
07/22/2008	---	---	---	---	0	0	0	10	0	0	0
07/23/2008	---	---	---	---	0	0	0	6	0	0	0
07/24/2008	---	---	---	---	0	0	0	7	0	0	0
07/25/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	8	0	0	102	0	0	98
# Days:	0	0	0	0	14	14	14	14	11	14	14
Average:	0	0	0	0	1	0	0	7	0	0	7
YTD	0	0	0	326	96,261	166,060	142,692	52,237	169,359	362,537	358,577

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)
07/11/2008 *	---	---	---	---	0	172	6	18	---	0	0
07/12/2008	---	---	---	---	30	57	0	9	0	0	0
07/13/2008 *	---	---	---	---	16	29	7	8	---	0	0
07/14/2008	---	---	---	---	8	29	0	6	0	0	0
07/15/2008 *	---	---	---	---	0	22	6	9	---	0	44
07/16/2008 *	---	---	---	---	8	75	0	5	53	0	0
07/17/2008 *	---	---	---	---	0	0	0	3	0	0	0
07/18/2008	---	---	---	---	0	7	0	1	0	0	122
07/19/2008	---	---	---	---	0	14	0	4	0	0	0
07/20/2008	---	---	---	---	0	9	0	0	0	0	47
07/21/2008	---	---	---	---	0	22	3	2	0	0	0
07/22/2008	---	---	---	---	0	10	0	5	34	0	0
07/23/2008	---	---	---	---	0	39	0	0	0	0	0
07/24/2008	---	---	---	---	0	0	0	1	0	0	45
07/25/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	62	485	22	71	87	0	258
# Days:	0	0	0	0	14	14	14	14	11	14	14
Average:	0	0	0	0	4	35	2	5	8	0	18
YTD	4,565	22,292	5,891	10,708	3,239,485	3,694,094	1,546,157	22,766	507,236	1,132,932	450,237

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)
07/11/2008 *	---	---	---	---	0	0	0	9	---	0	0
07/12/2008	---	---	---	---	0	0	0	2	0	0	0
07/13/2008 *	---	---	---	---	0	0	0	7	---	0	0
07/14/2008	---	---	---	---	0	0	0	14	0	0	0
07/15/2008 *	---	---	---	---	0	0	0	2	---	0	175
07/16/2008 *	---	---	---	---	0	0	0	7	0	0	443
07/17/2008 *	---	---	---	---	0	0	0	2	0	0	367
07/18/2008	---	---	---	---	0	0	0	1	0	0	731
07/19/2008	---	---	---	---	8	0	0	0	0	0	272
07/20/2008	---	---	---	---	0	1	0	0	130	0	93
07/21/2008	---	---	---	---	0	0	0	0	63	0	270
07/22/2008	---	---	---	---	0	3	0	0	0	0	166
07/23/2008	---	---	---	---	0	0	0	0	34	0	27
07/24/2008	---	---	---	---	0	0	0	1	0	0	45
07/25/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	8	4	0	45	227	0	2,589
# Days:	0	0	0	0	14	14	14	14	11	14	14
Average:	0	0	0	0	1	0	0	3	21	0	185
YTD	37	0	0	111	24,717	36,544	45,480	38,945	222,874	331,815	144,909

* 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:

7/25/08 8:56 AM

07/11/08 TO 07/25/08

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	36,675	100	5	5	40	36,825
	Sum of NumberBarged	35,572	96	5	5	39	35,717
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	106	2	0	0	0	108
	Sum of FacilityMorts	187	2	0	0	1	190
	Sum of ResearchMorts	810	0	0	0	0	810
	Sum of TotalProjectMorts	1,103	4	0	0	1	1,108
LGS	Sum of NumberCollected	48,524	171			337	49,032
	Sum of NumberBarged	48,344	171			336	48,851
	Sum of NumberBypassed	4	0			0	4
	Sum of Numbertrucked	0	0			0	0
	Sum of SampleMorts	40	0			0	40
	Sum of FacilityMorts	137	0			1	138
	Sum of ResearchMorts	0	0			0	0
	Sum of TotalProjectMorts	177	0			1	178
LMN	Sum of NumberCollected	7,176	159			15	7,350
	Sum of NumberBarged	7,025	159			15	7,199
	Sum of NumberBypassed	120	0			0	120
	Sum of Numbertrucked	0	0			0	0
	Sum of SampleMorts	5	0			0	5
	Sum of FacilityMorts	26	0			0	26
	Sum of ResearchMorts	0	0			0	0
	Sum of TotalProjectMorts	31	0			0	31
MCN	Sum of NumberCollected	327,109	380		95	51	327,635
	Sum of NumberBarged	206,390	129		90	16	206,625
	Sum of NumberBypassed	105,925	250		0	31	106,206
	Sum of Numbertrucked	0	0		0	0	0
	Sum of SampleMorts	105	0		1	0	106
	Sum of FacilityMorts	4,720	1		4	4	4,729
	Sum of ResearchMorts	54	0		0	0	54
	Sum of TotalProjectMorts	4,879	1		5	4	4,889
Total Sum of NumberCollected		419,484	810	5	100	443	420,842
Total Sum of NumberBarged		297,331	555	5	95	406	298,392
Total Sum of NumberBypassed		106,049	250	0	0	31	106,330
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		256	2	0	1	0	259
Total Sum of FacilityMorts		5,070	3	0	4	6	5,083
Total Sum of ResearchMorts		864	0	0	0	0	864
Total Sum of TotalProjectMorts		6,190	5	0	5	6	6,206

YTD Transportation Summary

Source: Fish Passage Center

Updated:

7/25/08 8:56 AM

TO: 07/25/08

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	383,733	2,308,015	62,994	12,054	2,071,986	4,838,782
	Sum of NumberBarged	374,189	1,876,398	61,100	11,593	1,693,219	4,016,499
	Sum of NumberBypassed	2,580	425,949	1,848	424	377,930	808,731
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	274	149	2	3	47	475
	Sum of FacilityMorts	1,560	2,730	44	34	790	5,158
	Sum of ResearchMorts	5,130	2,789	0	0	0	7,919
	Sum of TotalProjectMorts	6,964	5,668	46	37	837	13,552
LGS	Sum of NumberCollected	683,296	1,706,944	95,840	21,787	2,309,275	4,817,142
	Sum of NumberBarged	676,110	1,314,159	93,070	21,695	1,590,064	3,695,098
	Sum of NumberBypassed	5,422	389,296	2,765	67	718,741	1,116,291
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	125	40	1	3	13	182
	Sum of FacilityMorts	1,640	3,449	4	22	457	5,572
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1,765	3,489	5	25	470	5,754
LMN	Sum of NumberCollected	234,655	1,216,494	83,198	28,104	957,119	2,519,570
	Sum of NumberBarged	232,159	276,414	9,246	10,128	230,242	758,189
	Sum of NumberBypassed	2,113	940,234	73,949	17,975	726,648	1,760,919
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	40	39	0	0	22	101
	Sum of FacilityMorts	343	798	3	1	207	1,352
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	383	837	3	1	229	1,453
MCN	Sum of NumberCollected	971,587	752,335	78,620	102,243	276,895	2,181,680
	Sum of NumberBarged	206,390	129	0	90	16	206,625
	Sum of NumberBypassed	749,935	751,376	78,558	102,005	276,615	1,958,489
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	180	112	3	23	25	343
	Sum of FacilityMorts	5,095	654	56	114	217	6,136
	Sum of ResearchMorts	72	58	3	5	20	158
	Sum of TotalProjectMorts	5,347	824	62	142	262	6,637
Total Sum of NumberCollected		2,273,271	5,983,788	320,652	164,188	5,615,275	14,357,174
Total Sum of NumberBarged		1,488,848	3,467,100	163,416	43,506	3,513,541	8,676,411
Total Sum of NumberBypassed		760,050	2,506,855	157,120	120,471	2,099,934	5,644,430
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		619	340	6	29	107	1,101
Total Sum of FacilityMorts		8,638	7,631	107	171	1,671	18,218
Total Sum of ResearchMorts		5,202	2,847	3	5	20	8,077
Total Sum of TotalProjectMorts		14,459	10,818	116	205	1,798	27,396

Cumulative Adult Passage at Mainstem Dams Through: 07/24

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	07/24	125545	17552	67482	16860	151523	9831	75932	11239	44910	12787	68056	8522	0	0	0	0	0	0
TDA	07/24	95440	15801	53524	15567	106828	7522	62398	11606	37251	10440	58110	6156	0	0	0	0	0	0
JDA	07/23	81771	14925	44005	13864	89148	6122	60699	12909	32585	9914	52843	5919	0	0	0	0	0	0
MCN	07/22	68085	12133	39497	12393	82136	6227	50734	10583	27928	8012	48977	5166	0	0	0	0	0	0
IHR	07/23	53142	7757	28380	7371	54980	3897	23091	4925	7092	2361	11097	2047	0	0	0	0	0	0
LMN	07/24	54512	6885	28397	7102	52688	3599	26436	2769	10522	1293	10998	1565	0	0	0	0	0	0
LGS	07/24	50401	7805	23960	7227	50024	3685	20851	4740	7093	2714	9073	1986	0	0	0	0	0	0
LGR	07/23	50146	10946	22905	9085	50643	4197	21460	4919	6398	2920	8895	2132	0	0	0	0	0	0
PRD	07/21	12173	620	6708	489	17360	563	31765	983	23482	699	39612	1358	0	0	0	0	0	0
RIS	07/23	12490	1119	5572	2066	13979	962	29282	1979	21547	4307	36469	3384	0	0	0	0	0	0
RRH	07/23	4065	371	2424	920	5404	397	19675	1286	14311	3005	24301	2065	0	0	0	0	0	0
WEL	07/17	2708	426	2041	752	3980	281	10062	358	5757	1028	11443	501	0	0	0	0	0	0
WFA	07/17	13701	332	22351	223	-	-	0	0	0	0	-	-	0	0	0	0	-	-

DAM	Coho						Sockeye			Steelhead			
	2008		2007		10-Yr Avg.		2008	2007	10-Yr Avg.	2008	2007	10-Yr Avg.	Wild 2008
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	1	0	2	0	0	0	213455	24151	58242	101982	48703	70617	42531
TDA	0	0	0	0	0	0	177816	18931	49203	59143	20452	33045	26788
JDA	-1	0	1	0	1	0	192917	23799	53489	40663	15616	25002	16997
MCN	0	0	0	0	0	0	146423	17754	44340	17968	10865	15109	6271
IHR	-1	0	0	0	0	0	532	54	34	10162	6609	8177	3089
LMN	0	0	0	0	0	0	701	41	33	11186	7743	7601	4062
LGS	0	0	0	0	0	0	575	33	37	5711	4064	5047	2153
LGR	0	0	0	0	0	0	814	50	42	9696	11809	9497	3274
PRD	1	0	0	1	1	0	189321	22880	53719	2389	604	1127	0
RIS	0	0	0	0	1	0	190518	23672	49605	2089	521	904	906
RRH	0	0	0	0	1	0	157328	18979	33945	1901	476	672	728
WEL	0	0	0	0	0	0	145731	15890	26821	681	130	149	417
WFA	0	0	2	0	-	-	0	0	-	17877	17535	-	-

BON and LGR have switched to video counts so the data is delayed.

*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: 07/25/08

BON counts from January 1, 2008 to March 14, 2008 (our traditional counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2008	42	0	578	278
2007	22	0	1,677	517