



Fish Passage Center

Weekly Report #03 - 16

July 11, 2003

2501 SW First Ave., Suite 230
 Portland, OR 97201-4752
 phone: 503/230-4582
 fax: 503/230-7559

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has been minimal over June and the beginning of July. Of the sites in Table 1, eleven of thirteen sites recorded precipitation that was less than 40% of average in the first seven days of July. Over the entire water year, precipitation has ranged between 69% and 103% of average at the listed sites.

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	July 1-7, 2003		Cumulative October, 1 2002 to July 7, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.11	28	18.26	87
Snake River Above Ice Harbor	0.06	30	14.16	93
Columbia Above The Dalles	0.07	26	18.05	90
Kootenai	0.07	17	17.35	81
Clark Fork	0.10	38	13.10	90
Flathead	0.04	12	15.57	81
Pend Oreille/Spokane	0.08	25	25.77	94
Central Washington	0.00	0	8.30	103
Snake River Plain	0.00	4	6.72	69
Salmon/Boise/Payette	0.09	47	17.53	98
Clearwater	0.22	67	27.77	102
SW Washington Cascades/Cowlitz	0.06	19	56.94	86
Willamette Valley	0.01	3	51.06	91

Table 2 displays the May, June, and July Final runoff volume forecasts for multiple reservoirs. The July Final forecasts are similar to the June Final forecasts with the exceptions of the Libby reservoir (Jan-July), which increased 400 Kaf, and Lower Granite (Apr-July), which decreased 400 Kaf with respect to the June Final forecast.

Based on the July Final forecast at The Dalles (Apr-Aug) of 76.8 Maf the summer draft limit at Grand Coulee will be 1278 feet.

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

Location	May Final		June Final		July Final	
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	84	90200	83	89300	83	89300
Grand Coulee (Jan-July)	88	55500	88	55600	89	55900
Libby Res. Inflow, MT (Jan-July)	82	5200	81	5100	89	5600
Hungry Horse Res. Inflow, MT (Jan-July)	85	1900	86	1920	85	1890
Lower Granite Res. Inflow (Apr- July)	86	18500	84	18100	82	17700
Brownlee Res. Inflow (Apr-July)	56	3520	56	3540	55	3500
Dworshak Res. Inflow (Apr-July)	88	2330	87	2300	88	2330

The summer Biological Opinion Flow objectives are 50.9 Kcfs at Lower Granite (June 21st-August 31st) and 200 Kcfs at McNary (July 1st-August 31st). To date (July 10th, 2003), summer flows have averaged 42.8 Kcfs at Lower Granite and 144.2 Kcfs at McNary.

The Libby Reservoir is currently at an elevation of 2458.1 feet, 0.9 feet from its full pool elevation. Outflows are currently 14.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3556.8 feet (3.2 feet from full), and has been drafting approximately 0.2 feet/day over the last several days.

The Dworshak Reservoir is currently at an elevation of 1595.5 feet, 4.5 feet from its full pool elevation. On July 9, 2003, the COE increased outflows to approximately 14.0 kcf, to supplement flows and moderate temperatures in the Lower Snake River. The COE plans to maintain this discharge until mid-next week when TMT will meet and determine a future Dworshak release schedule.

The Grand Coulee Reservoir ended July 10th at an elevation of 1287.3, 2.7 feet from its full pool elevation. Grand Coulee has been drafting approximately 0.4 feet/day over the last several days.

The Brownlee Reservoir was at an elevation of 2076.0 on July 10th, 2003, 1.0 foot from its full pool elevation. Outflows at Brownlee have ranged between 5.6 and 10.3 Kcfs over the last week.

The USBR reservoir systems along the Boise, Payette, and Upper Snake Basins are currently 87%, 93%, and 47% of capacity.

Spill: Some spill has occurred at Dworshak Dam over the past few days as flow augmentation is implemented. The Biological Opinion does not call for a summer spill program at Lower Granite, Little Goose and Lower Monumental dams. The transportation of juvenile fall chinook is now being prioritized at these projects. At Ice Harbor Dam a summer spill test is being implemented. Spill over the past week averaged 36% of average daily flow at this project.

The Biological Opinion lower Columbia River spring spill program ended on June 30. The

summer spill program is being implemented at John Day, The Dalles and Bonneville dams. Spill averaged 27%, 39%, and 55% of average daily flow, respectively.

Total dissolved gas levels are presently below the gas waiver limits at all the federal projects. GBT monitoring is presently being implemented at Rock Island, McNary and Bonneville dams. A few fish were detected with signs of GBT this past week at Rock Island Dam.

Smolt Monitoring: At Lower Granite Dam the indices for subyearling chinook decreased. The daily average index for subyearling chinook dropped from 22,400 last week to 16,700 this week. Little Goose saw an increase with an average index of 9,000 this week compared to 6,900 last week. While at Lower Monumental there was a decrease in subyearling migrants, with the weekly average index at 1,300 this week compared to 3,200 last week.

The bypass at Rock Island continues to cause some mortality in fish due to undetermined problems despite repairs that have been done to the seals and guides in slide gates that feed water into the bypass. Subyearling chinook indices increased last week with the daily average at 1,300 compared to 300 per day the previous week.

In the Lower Columbia, at McNary, the daily average index for subyearling chinook was lower at 133,000 per day this week compared to 264,000 last week. At John Day Dam the average daily index for subyearling chinook decreased to 25,000 this week compared to 83,000 last week. At Bonneville Dam, the average daily index for subyearling chinook was at 112,000 this week compared to 317,000 last week.

Hatchery Releases - The preliminary hatchery total of juvenile salmonids released above Bonneville Dam for the 2003 migration season will approximate 87.2 million from Columbia River Basin hatcheries. About one million juvenile salmonids were released or releases were initiated during the past two weeks, with an additional 500,000 fish scheduled for release in the upcoming two weeks. The Zone Release Report summarizes hatchery releases for the 2003 season. These release totals are preliminary and will be updated as the numbers are finalized by the State, Federal and Tribal agencies.

Hatchery Zone Release Report	Friday 11-July-2003			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,057,928	12,232,000	25,446,818	41,736,746
Spring Chinook	10,473,971	3,474,730	5,442,150	19,390,851
Summer Chinook	2,332,578	3,074,969		5,407,547
Coho	1,248,216	1,876,584	5,632,900	8,757,700
Sockeye	140,410	208,986		349,396
Summer Steelhead	9,687,941	1,277,584	488,245	11,453,770
Winter Steelhead			91,383	91,383
Total	27,941,044	22,144,853	37,101,496	87,187,393

Adult Fish Passage - Adult summer chinook passage at Bonneville Dam ranged between 1,360 and 2,100 for the week ending July 10. The cumulative count was 92,786 about 88.5% and 312% of the respective year 2002 and 10-year average count at Bonneville. Of the adult summer chinook passing Bonneville Dam, PIT tag data indicated that almost all of these chinook are now destined for the Mid-Columbia River (areas above Priest Rapids Dam). Counts of adult summer chinook at The Dalles and John Day averaged 1,700 per day, McNary averaged about 2,300 per day while Priest Rapids was 3,100 per day through this past week. Passage numbers at Ice Harbor were near 200 per

day by the end of the week with the cumulative total now 18,414 through July 11.

Passage of sockeye salmon decreased through the week at Bonneville Dam with the cumulative count through July 11 at 35,982, and this total was about 78% and 83% of the respective 2002 and 10-year average counts. These sockeye are mainly destined for Lake Wenatchee or Lake Osoyoos in the Mid-Columbia Reach. Of the 16,400 sockeye counted at Rock Island this season, at least 10,200 have passed Rocky Reach Dam and would indicate that the Lake Osoyoos sockeye Run will likely be larger than the Lake Wenatchee Run.

Numbers of steelhead at Bonneville Dam increased through the week from about 1,100 to 1,700 per day with 32,493 counted through July 10. This count compares to 45,700 for 2002 and 25,800 for the 10-year average. Steelhead are now moving upstream into the Snake and Mid-Columbia rivers with counts increasing throughout the week. Warmer water temperatures will likely cause some of the steelhead to turnoff into lower river tributaries such as Drano Lake and Big White Salmon River and others during the summer time frame.

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/27/03	156.3	0.2	149.1	0.0	157.8	9.0	154.3	19.4	160.3	29.2	157.1	49.5	155.9	87.6
06/28/03	140.9	0.2	138.9	0.0	148.9	8.8	146.5	12.5	151.7	23.9	154.3	47.8	151.5	86.9
06/29/03	62.4	0.2	80.4	0.0	90.8	6.9	96.0	11.6	105.0	18.1	123.3	38.3	124.3	71.4
06/30/03	143.3	0.2	126.4	0.0	130.0	7.9	122.1	21.7	126.3	29.9	119.8	37.6	118.3	67.7
07/01/03	93.2	0.2	106.3	0.0	121.9	11.2	124.4	17.7	130.6	23.7	148.7	45.9	146.5	82.9
07/02/03	98.1	0.3	100.8	0.0	101.3	7.4	99.5	17.4	103.3	23.4	96.3	25.2	103.0	49.4
07/03/03	103.4	0.2	105.6	0.0	109.8	7.9	107.8	19.3	112.2	26.0	107.1	26.8	94.9	28.6
07/04/03	50.5	0.3	52.7	0.0	59.2	4.9	70.6	11.3	78.0	14.7	107.4	26.8	106.7	41.6
07/05/03	73.5	0.2	74.1	0.0	74.5	6.4	71.9	15.3	74.1	19.9	59.8	11.7	60.7	18.4
07/06/03	62.0	0.2	63.5	0.0	66.6	6.0	70.6	13.9	76.4	16.7	88.8	22.2	83.2	25.1
07/07/03	122.0	0.2	116.7	0.0	122.0	7.8	119.8	23.5	118.8	30.3	112.2	33.3	112.3	55.8
07/08/03	111.9	0.2	114.7	0.0	120.2	7.0	118.2	20.6	120.7	28.7	129.3	40.1	124.6	71.0
07/09/03	131.2	0.1	125.9	0.0	124.1	7.8	120.5	20.2	124.5	27.7	130.4	40.4	127.2	72.4
07/10/03	125.1	0.1	127.8	0.0	132.7	7.9	133.5	18.7	135.4	25.0	139.3	43.0	130.2	74.3

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
06/27/03	3.2	0.0	10.3	10.3	41.6	0.0	38.1	0.0	39.1	0.0	38.2	0.0	38.2	0.0
06/28/03	3.2	0.0	11.0	9.0	42.1	0.0	42.3	0.0	45.7	0.0	44.8	0.0	44.8	29.3
06/29/03	3.2	0.0	9.6	9.6	38.2	0.0	36.8	0.0	40.1	0.0	38.9	0.0	38.9	30.3
06/30/03	3.5	0.0	10.8	11.7	39.3	0.0	38.2	0.0	40.4	0.0	39.2	0.0	39.2	5.8
07/01/03	3.4	0.0	9.5	8.7	39.1	0.0	40.2	0.0	42.5	0.0	39.6	0.0	39.6	0.0
07/02/03	5.2	0.0	10.3	9.2	36.2	0.0	35.4	0.0	36.2	0.0	34.8	0.0	34.8	22.3
07/03/03	5.0	0.0	9.4	10.3	36.5	0.0	35.9	0.0	38.0	0.0	35.7	0.0	35.7	28.4
07/04/03	4.2	0.0	9.0	10.3	35.1	0.0	35.1	0.0	35.9	0.0	37.0	0.0	37.0	8.0
07/05/03	4.2	0.0	8.9	8.4	34.8	0.0	35.5	0.0	37.1	0.0	33.2	0.0	33.2	21.6
07/06/03	4.2	0.0	9.3	10.5	28.7	0.0	28.4	0.0	30.1	0.0	32.2	0.0	32.2	25.1
07/07/03	7.4	0.0	9.6	9.7	33.1	0.0	33.3	0.0	34.8	0.0	32.6	0.0	32.6	4.5
07/08/03	12.4	2.9	8.3	7.8	36.5	0.0	36.3	0.0	37.8	0.0	36.5	0.0	36.5	0.0
07/09/03	13.9	4.4	9.1	7.5	35.5	0.0	36.1	0.0	37.9	0.0	38.9	0.0	38.9	26.2
07/10/03	14.1	4.5	---	---	35.8	0.0	33.8	0.0	33.5	0.0	28.9	0.0	28.9	2.5

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	
06/27/03	218.8	44.9	216.4	73.9	218.8	85.9	232.6	93.2	14.4	118.2	
06/28/03	176.9	2.9	164.2	49.1	165.1	65.3	199.2	93.8	0.0	98.6	
06/29/03	178.6	5.1	184.9	54.7	185.5	70.8	205.3	94.4	0.0	104.2	
06/30/03	172.9	0.0	170.1	49.8	168.9	67.0	188.9	94.4	0.0	87.7	
07/01/03	170.3	0.1	174.0	36.4	170.1	67.2	188.0	94.9	0.8	85.5	
07/02/03	170.2	0.0	165.2	38.7	164.5	64.6	188.9	94.0	0.0	88.1	
07/03/03	113.3	0.0	112.5	41.7	109.3	43.6	144.6	87.9	0.1	49.9	
07/04/03	144.9	0.0	133.0	39.0	132.7	52.9	149.9	83.4	0.0	59.8	
07/05/03	145.7	0.0	154.4	31.7	153.8	60.4	172.0	93.2	0.0	72.1	
07/06/03	100.4	0.0	103.3	21.6	107.8	39.0	150.4	88.8	0.0	54.9	
07/07/03	131.8	0.0	123.9	28.1	130.3	48.3	141.5	84.6	0.0	50.2	
07/08/03	138.4	0.0	121.6	36.7	113.1	45.2	147.2	89.1	0.0	51.4	
07/09/03	167.7	0.0	186.7	66.6	182.3	72.3	184.5	89.3	1.6	87.0	
07/10/03	201.8	0.0	164.2	45.2	170.9	68.0	199.0	96.6	7.6	87.8	

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				Fish with L. Line GBT	
								Rank 1	Rank 2	Rank 3	Rank 4	Num Fish	Avg. Rank
Lower Granite Dam													
McNary Dam													
	07/03/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	07/07/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	07/10/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Bonneville Dam													
	07/04/03	Chinook + Steelhead	89	0	0	0.00%	0.00%	0	0	0	0		
	07/07/03	Chinook + Steelhead	20	0	0	0.00%	0.00%	0	0	0	0		
Rock Island Dam													
	07/03/03	Chinook + Steelhead	100	1	1	1.00%	0.00%	0	1	0	0		
	07/07/03	Chinook + Steelhead	100	3	3	3.00%	0.00%	3	0	0	0		
	07/10/03	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	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>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/27	---	---	---	0	114	116	118	24	116	116	116	24	113	113	114	24	112	113	113	23
6/28	---	---	---	0	114	116	118	24	115	115	116	24	113	113	114	24	113	113	113	23
6/29	---	---	---	0	113	114	115	24	115	115	116	24	114	114	115	24	114	114	115	23
6/30	---	---	---	0	112	112	113	9	115	115	116	24	114	114	115	8	113	113	114	15
7/1	---	---	---	0	110	111	112	24	114	115	115	24	113	113	116	24	112	112	113	11
7/2	---	---	---	0	112	113	116	24	114	115	115	24	113	113	114	24	112	112	113	23
7/3	---	---	---	0	113	117	119	24	114	114	115	24	113	113	115	24	112	113	113	23
7/4	---	---	---	0	114	116	118	24	114	114	115	24	114	114	115	24	113	113	114	23
7/5	---	---	---	0	117	120	120	24	114	115	115	24	114	114	116	24	113	114	114	23
7/6	---	---	---	0	110	111	114	24	114	114	115	24	114	114	116	24	113	114	114	23
7/7	---	---	---	0	110	111	111	24	115	115	115	24	113	114	116	24	114	114	115	23
7/8	---	---	---	0	111	111	114	24	114	114	115	24	113	114	117	24	114	115	115	23
7/9	---	---	---	0	112	114	118	24	113	113	114	24	112	112	116	24	112	112	113	23
7/10	---	---	---	0	112	112	113	24	113	113	113	24	112	112	115	24	111	112	113	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/27	111	112	112	23	112	112	113	24	113	113	114	24	116	117	118	24	116	117	119	24
6/28	112	112	113	23	113	113	113	24	114	114	115	24	114	114	115	23	114	114	116	23
6/29	113	114	115	23	114	114	115	24	114	115	116	24	114	114	114	24	114	114	115	23
6/30	112	112	113	22	112	112	113	24	113	113	114	24	113	113	114	22	113	113	114	22
7/1	112	112	113	23	111	112	112	24	113	114	117	24	112	112	112	23	112	112	113	22
7/2	112	112	114	23	110	111	112	24	112	112	113	24	111	111	112	23	112	112	112	22
7/3	112	112	114	23	111	112	112	23	112	113	114	23	111	112	113	23	112	113	113	22
7/4	113	114	114	23	111	112	112	24	113	113	114	24	112	112	112	23	112	112	113	23
7/5	113	113	115	23	111	112	113	24	113	113	114	24	112	112	113	22	112	112	113	22
7/6	113	113	114	23	112	114	115	24	113	114	115	24	113	114	114	23	113	113	114	22
7/7	113	114	116	23	114	115	115	24	115	116	116	24	113	114	114	24	114	115	115	24
7/8	114	114	116	23	112	113	113	22	113	114	114	22	113	113	114	22	113	114	114	20
7/9	111	112	112	23	112	113	113	24	113	114	114	24	112	112	112	24	112	113	113	24
7/10	111	112	112	23	112	113	113	24	114	114	115	24	112	113	114	24	---	---	---	0

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
6/27	116	116	117	23	118	119	120	22	---	---	---	0	---	---	---	0	---	---	---	0
6/28	115	115	116	23	117	118	119	21	112	113	116	24	115	116	117	24	113	114	116	24
6/29	113	114	114	24	117	117	118	23	113	114	114	24	118	118	119	24	116	116	117	24
6/30	112	113	113	21	116	118	119	20	113	115	118	24	116	116	117	22	114	115	116	24
7/1	112	112	113	22	116	117	118	20	---	---	---	0	---	---	---	0	---	---	---	0
7/2	111	112	112	23	115	116	117	22	109	110	110	24	113	114	115	24	112	113	113	24
7/3	111	112	113	21	117	117	118	20	110	110	112	24	114	114	115	24	111	112	113	24
7/4	111	112	112	22	115	116	117	21	109	110	110	24	114	114	116	24	112	113	114	24
7/5	111	111	111	22	116	116	118	21	109	109	109	24	112	113	114	24	111	111	112	24
7/6	112	113	113	23	116	117	118	22	109	111	112	24	113	115	116	24	110	111	112	24
7/7	113	113	114	23	119	121	129	22	109	110	112	24	115	115	116	24	112	113	114	24
7/8	112	112	113	22	117	118	119	22	---	---	---	0	---	---	---	0	---	---	---	0
7/9	112	113	113	23	117	118	119	23	---	---	---	0	---	---	---	0	---	---	---	0
7/10	112	113	114	23	117	118	119	23	109	110	111	24	115	115	116	24	114	114	116	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 and Snake River Sites

Date	<u>Priest R. Dnst</u>			#	<u>Pasco</u>			#	<u>Dworshak</u>			#	<u>Clwrtr-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	
6/27	---	---	---	0	115	116	116	21	105	105	112	9	102	104	105	24	104	104	105	24
6/28	118	119	120	24	114	115	116	24	104	106	112	22	102	104	105	24	103	104	105	24
6/29	119	120	120	24	114	115	116	21	107	108	129	13	103	104	105	24	103	104	105	24
6/30	118	120	120	24	111	112	114	24	104	104	104	10	102	103	104	24	103	103	104	24
7/1	---	---	---	0	112	114	115	24	103	104	104	24	102	103	104	24	103	103	104	24
7/2	115	117	119	24	112	114	114	24	103	103	104	24	102	103	104	24	102	103	104	24
7/3	111	112	113	24	113	114	115	24	102	102	102	24	102	103	104	24	102	104	104	24
7/4	113	114	118	24	109	110	111	21	102	102	103	17	102	104	105	24	103	104	105	24
7/5	111	112	113	24	110	111	112	24	---	---	---	0	102	104	105	24	103	104	105	24
7/6	110	110	111	24	110	111	111	24	---	---	---	0	103	104	105	24	103	104	105	24
7/7	114	118	119	24	109	110	110	21	103	103	103	11	103	105	105	24	103	104	106	24
7/8	---	---	---	0	108	110	111	24	105	106	106	24	105	106	107	24	102	103	105	24
7/9	---	---	---	0	110	111	113	21	106	107	107	24	105	107	107	24	103	104	105	24
7/10	117	118	119	24	112	113	114	24	106	107	107	24	106	107	108	23	103	104	106	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clwrtr-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	
6/27	102	104	105	24	105	106	107	24	102	103	103	24	99	100	101	24	100	100	101	24
6/28	102	104	105	24	107	109	114	24	102	103	103	24	105	108	113	24	101	102	102	24
6/29	102	104	106	24	111	114	116	24	104	105	106	23	111	112	114	24	103	104	105	24
6/30	102	103	105	24	106	107	109	24	103	103	104	24	103	105	108	24	102	102	103	24
7/1	101	103	104	24	104	105	105	24	102	102	103	24	103	104	104	24	102	103	104	24
7/2	101	103	105	24	104	104	106	24	102	102	102	23	102	103	103	23	102	102	103	24
7/3	102	104	105	24	103	104	105	24	101	102	102	24	102	102	103	24	102	103	103	24
7/4	102	103	105	24	102	103	104	24	100	100	101	24	102	102	102	23	102	102	104	23
7/5	102	103	105	24	102	102	103	24	100	100	100	24	102	102	103	24	102	102	104	24
7/6	102	104	105	24	103	104	107	24	100	100	100	24	103	104	104	24	102	103	103	24
7/7	102	104	105	24	104	106	109	24	100	101	101	23	108	111	112	24	104	105	105	24
7/8	102	104	105	24	104	105	106	24	100	101	101	24	102	102	105	24	101	102	103	24
7/9	103	105	106	24	104	106	108	24	100	101	102	24	101	102	103	24	101	101	101	24
7/10	104	106	107	23	107	108	110	24	101	102	103	24	102	102	105	24	101	102	102	24

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

Date	<u>Lower Mon.</u>			#	<u>L. Mon. Tlwr</u>			#	<u>Ice Harbor</u>			#	<u>Ice Harbor Tlwr</u>			#	<u>McNary-Oregon</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>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	
6/27	103	103	104	13	103	104	105	24	109	112	116	24	105	106	106	24	114	117	120	24
6/28	---	---	---	0	103	103	104	24	106	107	110	24	112	117	117	24	115	118	122	24
6/29	107	107	113	11	104	104	105	24	107	108	109	24	114	116	117	24	116	117	118	24
6/30	102	102	104	24	101	102	102	24	105	106	106	24	108	111	116	24	111	112	113	24
7/1	103	103	104	24	101	102	103	24	104	105	106	24	104	104	105	24	111	112	114	24
7/2	102	102	104	24	102	103	104	24	103	103	104	24	109	115	116	24	111	112	114	24
7/3	102	103	104	24	102	102	103	24	103	103	104	24	113	114	115	24	111	113	114	24
7/4	102	103	103	24	102	102	103	24	102	104	106	24	106	111	116	24	111	113	115	24
7/5	103	104	107	24	102	103	104	24	102	104	105	24	108	114	115	24	113	116	117	24
7/6	104	105	106	24	103	104	104	24	103	104	104	24	113	114	115	24	114	115	117	24
7/7	104	105	106	24	103	104	105	24	105	107	110	24	106	109	113	24	116	118	119	24
7/8	102	103	104	24	102	102	103	24	102	103	104	24	102	102	103	24	108	108	110	24
7/9	103	103	105	24	102	103	104	24	104	104	106	24	111	116	116	24	108	110	115	24
7/10	105	106	108	24	103	104	105	24	105	107	107	24	107	110	115	24	109	111	114	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>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>AVG</u>	<u>High</u>	#	
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High	hr	Avg		AVG
6/27	114	115	117	24	110	110	110	1	104	105	105	23	117	118	119	24	107	110	113	23
6/28	116	117	119	24	---	---	---	0	108	110	112	23	115	116	117	24	109	109	110	23
6/29	115	116	118	24	---	---	---	0	110	111	112	23	115	115	116	24	109	110	110	23
6/30	112	112	113	24	111	111	111	13	107	108	108	20	114	115	117	24	106	107	108	23
7/1	111	111	111	24	110	110	111	24	108	108	108	18	111	115	118	24	107	107	107	23
7/2	109	109	110	24	108	108	109	24	107	108	108	20	112	117	118	24	107	108	113	23
7/3	109	109	111	24	107	108	108	24	107	107	108	23	114	115	117	24	108	110	113	23
7/4	109	109	110	24	108	108	108	24	106	106	107	23	113	114	114	24	108	109	111	19
7/5	111	112	112	24	109	110	110	24	105	105	106	23	110	114	117	24	106	106	107	23
7/6	113	114	116	24	111	111	112	24	104	104	104	23	109	112	118	24	105	105	106	23
7/7	114	115	117	24	110	111	111	24	104	104	105	23	108	112	116	24	107	108	110	23
7/8	107	107	109	24	106	107	108	24	103	103	104	23	109	116	117	24	104	105	106	23
7/9	108	109	113	24	106	107	107	24	102	102	103	8	115	116	118	24	106	108	112	23
7/10	108	109	111	24	106	106	106	24	106	106	108	12	113	115	115	24	109	111	114	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>				<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washugal</u>					
	<u>24 h</u>	<u>12 h</u>	#	hr	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	hr		
	Avg	Avg			High	Avg		Avg	High		hr	Avg			Avg	High
6/27	115	117	119	24	112	113	113	23	114	116	118	23	114	115	117	24
6/28	116	117	118	24	112	113	114	23	115	116	118	23	113	115	117	24
6/29	116	116	117	24	113	114	115	23	114	116	118	23	113	115	117	24
6/30	114	114	115	24	110	111	113	23	113	115	117	23	110	112	114	24
7/1	114	115	115	24	107	107	108	23	112	114	117	23	110	112	114	24
7/2	114	115	116	24	107	108	108	23	112	114	118	23	109	112	114	24
7/3	116	116	117	24	108	108	108	23	112	114	117	23	109	112	114	24
7/4	115	116	116	24	107	107	108	23	110	111	111	23	109	110	111	24
7/5	114	114	115	24	106	106	107	23	112	113	116	23	109	111	113	24
7/6	113	114	115	24	107	107	107	23	112	114	116	23	110	112	114	24
7/7	114	115	115	24	107	107	107	23	111	111	113	23	110	111	111	24
7/8	112	113	113	24	105	105	105	23	111	113	115	23	107	109	111	24
7/9	114	116	117	24	106	107	109	23	111	112	114	22	109	111	113	24
7/10	116	117	118	24	109	110	111	23	113	115	119	23	110	113	116	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary									
From:		6/27/03		to		7/10/03			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2003	426,747	07-02-03	07-02-03	Turtle Rock Hatchery	Mid-Columbia R
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH0	SU	2003		07-02-03	07-02-03	Turtle Rock Hatchery	Mid-Columbia R
					658,745				
Washington Dept. of Fish and Wildlife Total					1,085,492				
Grand Total					1,085,492				

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary									
From:		7/11/03		to		7/24/03			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	FA	2003	561,000	07-14-03	07-14-03	Klickitat Hatchery	Klickitat R
Washington Dept. of Fish and Wildlife Total					561,000				
Grand Total					561,000				

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

Two-Week Summary of Passage Indices

Date	COMBINED YEARLING CHINOOK										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
06/27/2003 *	---	---	---	---	200	167	20	0	---	269	343
06/28/2003	---	---	---	---	50	0	13	2	1,465	152	587
06/29/2003	---	---	---	---	50	0	28	0	942	144	768
06/30/2003	---	---	---	---	100	0	11	4	200	215	782
07/01/2003 *	---	---	---	---	250	50	10	11	101	109	0
07/02/2003 *	---	---	---	---	27	25	13	5	100	29	1,257
07/03/2003 *	---	---	---	---	0	25	17	3	100	29	0
07/04/2003	---	---	---	---	150	80	0	0	300	0	0
07/05/2003	---	---	---	---	300	20	36	0	100	39	0
07/06/2003 *	---	---	---	---	150	40	60	1	200	36	0
07/07/2003	---	---	---	---	50	0	14	5	300	53	0
07/08/2003	---	---	---	---	25	0	5	1	301	16	0
07/09/2003 *	---	---	---	---	25	40	33	1	200	33	132
07/10/2003	---	---	---	---	0	0	27	0	300	35	104
Total:	0	0	0	0	1,377	447	287	33	4,609	1,159	3,973
# Days:	0	0	0	0	14	14	14	14	13	14	14
Average:	0	0	0	0	98	32	21	2	355	83	284
YTD	32,064	34,022	11,123	2,417	3,598,825	2,502,660	784,769	15,337	1,622,658	2,074,148	4,042,606

Date	COMBINED SUBYEARLING CHINOOK										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
06/27/2003 *	---	---	---	---	27,567	3,834	3,544	217	---	261,948	194,560
06/28/2003	---	---	---	---	19,350	3,802	3,188	277	237,918	101,379	288,500
06/29/2003	---	---	---	---	13,600	9,917	5,504	197	317,968	79,438	323,905
06/30/2003	---	---	---	---	19,050	12,108	1,999	196	175,800	54,885	421,410
07/01/2003 *	---	---	---	---	14,800	5,925	1,001	381	350,700	21,251	363,794
07/02/2003 *	---	---	---	---	32,049	6,975	3,997	335	282,371	18,025	364,152
07/03/2003 *	---	---	---	---	30,450	5,555	3,661	571	217,700	43,571	260,839
07/04/2003	---	---	---	---	21,400	10,521	870	1,027	90,900	37,208	113,452
07/05/2003	---	---	---	---	20,950	10,900	1,134	458	116,300	17,126	131,364
07/06/2003 *	---	---	---	---	20,300	15,860	1,710	577	106,400	29,452	189,957
07/07/2003	---	---	---	---	8,000	6,780	1,076	621	67,000	15,996	112,056
07/08/2003	---	---	---	---	7,950	8,801	850	1,823	140,899	28,195	37,210
07/09/2003 *	---	---	---	---	21,625	7,360	1,727	2,584	175,500	13,519	60,327
07/10/2003	---	---	---	---	17,125	3,382	1,865	2,260	234,200	31,202	141,073
Total:	0	0	0	0	274,216	111,720	32,126	11,524	2,513,656	753,195	3,002,599
# Days:	0	0	0	0	14	14	14	14	13	14	14
Average:	0	0	0	0	19,587	7,980	2,295	823	193,358	53,800	214,471
YTD	1	118	74	355	1,244,598	560,881	289,479	18,919	5,392,940	1,952,460	6,537,111

* 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.

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)
06/27/2003	*	---	---	---	---	400	67	19	43	---	135	800
06/28/2003		---	---	---	---	50	67	8	31	2,075	427	881
06/29/2003		---	---	---	---	350	200	21	38	2,826	1,147	1,151
06/30/2003		---	---	---	---	1,100	50	22	12	100	399	2,346
07/01/2003	*	---	---	---	---	50	50	4	15	300	45	3,416
07/02/2003	*	---	---	---	---	82	25	13	13	300	44	5,867
07/03/2003	*	---	---	---	---	100	0	1	14	100	9	1,675
07/04/2003		---	---	---	---	100	40	15	16	100	57	0
07/05/2003		---	---	---	---	100	20	0	7	100	11	0
07/06/2003	*	---	---	---	---	0	20	6	4	600	13	460
07/07/2003		---	---	---	---	250	40	6	6	200	11	0
07/08/2003		---	---	---	---	100	20	1	26	400	13	0
07/09/2003	*	---	---	---	---	450	60	5	37	100	0	0
07/10/2003		---	---	---	---	375	0	7	30	100	127	0
Total:		0	0	0	0	3,507	659	128	292	7,301	2,438	16,596
# Days:		0	0	0	0	14	14	14	14	13	14	14
Average:		0	0	0	0	251	47	9	21	562	174	1,185
YTD		0	0	0	17	130,915	116,004	37,387	41,508	111,149	256,812	2,115,104

		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)
06/27/2003	*	---	---	---	---	750	268	78	11	---	67	114
06/28/2003		---	---	---	---	550	101	57	6	122	216	489
06/29/2003		---	---	---	---	450	150	56	8	314	181	0
06/30/2003		---	---	---	---	1,300	200	68	7	100	99	1,955
07/01/2003	*	---	---	---	---	500	100	22	5	0	41	854
07/02/2003	*	---	---	---	---	273	75	23	3	0	27	419
07/03/2003	*	---	---	---	---	300	50	25	4	0	9	419
07/04/2003		---	---	---	---	550	80	15	3	0	257	0
07/05/2003		---	---	---	---	100	80	18	1	100	11	248
07/06/2003	*	---	---	---	---	200	80	36	7	0	38	0
07/07/2003		---	---	---	---	50	40	11	6	100	32	262
07/08/2003		---	---	---	---	375	60	16	8	0	13	0
07/09/2003	*	---	---	---	---	625	120	32	7	0	0	0
07/10/2003		---	---	---	---	375	40	14	1	0	18	104
Total:		0	0	0	0	6,398	1,444	471	77	736	1,009	4,864
# Days:		0	0	0	0	14	14	14	14	13	14	14
Average:		0	0	0	0	457	103	34	6	57	72	347
YTD		2,347	48,399	2,521	5,601	3,350,177	2,591,862	1,865,106	15,451	245,533	553,157	1,634,618

* See sampling comments

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)	
06/27/2003	*	---	---	---	---	50	0	1	0	---	0	229
06/28/2003		---	---	---	---	0	0	1	0	610	142	0
06/29/2003		---	---	---	---	0	0	3	8	314	233	384
06/30/2003		---	---	---	---	0	0	0	4	100	150	0
07/01/2003	*	---	---	---	---	0	0	3	20	200	15	854
07/02/2003	*	---	---	---	---	0	0	1	5	100	1	838
07/03/2003	*	---	---	---	---	0	0	1	43	100	13	0
07/04/2003		---	---	---	---	0	0	0	40	200	0	0
07/05/2003		---	---	---	---	0	0	6	10	200	10	0
07/06/2003	*	---	---	---	---	0	0	0	18	100	0	0
07/07/2003		---	---	---	---	0	20	0	25	0	0	0
07/08/2003		---	---	---	---	25	20	0	12	300	0	0
07/09/2003	*	---	---	---	---	0	0	0	36	0	0	0
07/10/2003		---	---	---	---	0	0	2	30	200	14	0
Total:		0	0	0	0	75	40	18	251	2,424	578	2,305
# Days:		0	0	0	0	14	14	14	14	13	14	14
Average:		0	0	0	0	5	3	1	18	186	41	165
YTD		1	0	0	11	16,374	8,092	4,537	10,212	832,530	724,635	1,260,812

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

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts

IMN (Collection) = Imnaha River Trap : Collection Counts

GRN (Collection) = Grande Ronde River Trap : Collection Counts

LEW (Collection) = Snake River Trap at Lewiston : Collection Counts

LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.

RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

IMN data collected for the FPC by the Nez Perce Tribe.

Cumulative Adult Passage at Mainstem Dams Through: 07/10

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2003		2002		10-Yr Avg.		2003		2002		10-Yr Avg.		2003		2002		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	192,010	14,258	268,813	6,477	122,177	6,086	92,786	9,801	104,840	6,257	29,699	3,671	0	0	0	0	0	0
TDA	131,207	11,522	181,176	3,870	80,975	4,136	80,493	7,025	89,138	4,076	24,385	2,452	0	0	0	0	0	0
JDA	101,436	10,206	139,887	2,403	67,822	3,122	75,124	6,598	81,713	3,541	22,538	2,002	0	0	0	0	0	0
MCN	95,550	11,123	129,357	3,872	62,536	3,162	73,250	7,533	77,694	4,414	21,158	1,903	0	0	0	0	0	0
IHR	78,170	8,018	85,207	1,826	38,964	1,925	18,414	3,711	24,982	2,069	6,968	892	0	0	0	0	0	0
LMN	70,603	7,219	76,304	1,537	38,073	1,899	17,379	3,060	21,644	1,345	6,765	789	0	0	0	0	0	0
LGS	69,020	6,919	77,232	1,815	37,097	2,034	12,977	2,839	18,846	1,850	6,030	960	0	0	0	0	0	0
LWG	70,609	8,295	75,025	2,089	35,689	2,016	14,420	3,226	19,703	1,511	5,999	949	0	0	0	0	0	0
PRD	18,136	656	34,083	196	15,528	317	43,196	1,099	43,683	519	11,496	337	0	0	0	0	0	0
RIS	16,868	753	24,017	827	11,565	538	34,593	1,310	27,944	754	7,753	942	0	0	0	0	0	0
RRH	4,216	450	9,999	161	4,017	126	19,442	713	17,257	383	3,688	236	0	0	0	0	0	0
WEL	4,504	198	7,585	41	2,377	152	9,874	115	9,067	68	1,843	116	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2003		2002		10-Yr Avg.		2003	2002	10-Yr Avg.	2003	2002	10-Yr Avg.	Wild 2003
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	4	0	0	0	0	0	35,982	45,895	43,290	29,050	45,699	25,760	11,109
TDA	0	0	0	0	0	0	30,944	36,446	34,211	14,498	20,644	11,167	5,801
JDA	0	0	0	0	0	0	30,964	36,287	36,119	13,337	21,456	11,050	5,027
MCN	0	0	0	0	0	0	27,895	31,617	31,049	8,996	12,409	6,856	2,988
IHR	0	0	0	0	0	0	26	42	16	5,487	7,477	4,338	1,663
LMN	0	0	0	0	0	0	14	24	20	4,927	7,278	3,918	1,866
LGS	0	0	0	0	0	0	10	28	22	3,999	7,657	2,735	1,868
LWG	0	0	0	0	0	0	10	27	16	17,132	13,619	6,144	4,074
PRD	1	0	0	0	1	0	22,901	19,146	28,668	338	430	245	0
RIS	0	0	1	0	1	0	16,412	6,831	18,937	191	313	187	151
RRH	0	0	15	0	1	0	10,214	1,273	10,199	154	301	122	107
WEL	4	0	0	0	0	0	6,133	555	7,921	37	144	39	20

PRD, RIS, RRH, WEL are through 07/08.

IHR missing 6/26 and 6/27. LGR is missing data for 3/6.

**PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files, except where otherwise noted.

Wild steelhead numbers are included in the total.

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: 7/11/03

BON counts from January 1, 2003 to March 14, 2003 (our counts begin March 15)

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
3,758	0	3,443	408

Two Week Transportation Summary

06/28/03 TO 07/11/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	274,216	1,377	3,507	75	6,398	285,573
	Sum of NumberBarged	267,200	1,610	3,259	71	6,622	278,762
	Sum of NumberBypassed	2,713	2	7	0	23	2,745
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4,943	65	19	4	140	5,171
LGS	Sum of NumberCollected	111,720	447	659	40	1,444	114,310
	Sum of NumberBarged	115,725	427	761	38	1,580	118,531
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	617	20	28	2	21	688
LMN	Sum of NumberCollected	32,126	287	128	18	471	33,030
	Sum of NumberBarged	16,091	279	134	16	523	17,043
	Sum of NumberBypassed	16,050	0	0	0	0	16,050
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	368	6	0	0	5	379
MCN	Sum of NumberCollected	2,456,299	4,302	6,800	2,300	700	2,470,401
	Sum of NumberBarged	2,437,928	4,164	6,755	1,968	682	2,451,497
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	18,371	138	45	33	18	18,605
Total Sum of NumberCollected		2,874,361	6,413	11,094	2,433	9,013	2,903,314
Total Sum of NumberBarged		2,836,944	6,480	10,909	2,093	9,407	2,865,833
Total Sum of NumberBypassed		18,763	2	7	0	23	18,795
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		24,299	229	92	39	184	24,843

YTD Transportation Summary

TO: 07/11/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,002,538	2,576,610	88,079	9,738	2,331,534	6,008,499
	Sum of NumberBarged	966,988	2,470,560	87,083	9,541	2,260,670	5,794,842
	Sum of NumberBypassed	2,748	45,590	7	0	53,142	101,487
	Sum of NumberTrucked	816	54,208	40	78	15,402	70,544
	Sum of TotalProjectMortalities	14,996	5,953	577	119	1,958	23,603
LGS	Sum of NumberCollected	478,516	1,848,944	86,040	5,404	1,945,290	4,364,194
	Sum of NumberBarged	470,526	1,794,945	85,659	5,372	1,941,514	4,298,016
	Sum of NumberBypassed	0	22	0	0	3	25
	Sum of NumberTrucked	5	52,601	0	0	850	53,456
	Sum of TotalProjectMortalities	4,675	3,315	381	32	2,885	11,288
LMN	Sum of NumberCollected	238,550	462,824	26,337	3,299	1,229,470	1,960,480
	Sum of NumberBarged	205,318	439,786	25,634	3,252	1,150,595	1,824,585
	Sum of NumberBypassed	31,485	6,866	681	0	75,945	114,977
	Sum of NumberTrucked	60	15,149	0	40	1,637	16,886
	Sum of TotalProjectMortalities	635	996	15	5	1,279	2,930
MCN	Sum of NumberCollected	4,739,770	1,040,392	69,492	536,928	155,020	6,541,602
	Sum of NumberBarged	2,437,928	4,164	6,755	1,968	682	2,451,497
	Sum of NumberBypassed	2,280,527	1,035,084	62,604	534,272	154,084	4,066,571
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	21,315	1,051	133	393	211	23,103
Total Sum of NumberCollected		6,459,374	5,928,770	269,948	555,369	5,661,314	18,874,775
Total Sum of NumberBarged		4,080,760	4,709,455	205,131	20,133	5,353,461	14,368,940
Total Sum of NumberBypassed		2,314,760	1,087,562	63,292	534,272	283,174	4,283,060
Total Sum of NumberTrucked		881	121,958	40	118	17,889	140,886
Total Sum of TotalProjectMortalities		41,621	11,315	1,106	549	6,333	60,924

