



Fish Passage Center

Weekly Report #03 - 17

July 18, 2003

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has been minimal over June and the first one-half of July. Of the sites in Table 1, twelve of thirteen sites recorded precipitation that was less than 40% of average in the first half of July. Over the entire water year, precipitation has ranged between 68% and 102% 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 1-15, 2003		Cumulative October, 1 2002 to July 15, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.23	26	18.38	86
Snake River Above Ice Harbor	0.10	22	14.20	91
Columbia Above The Dalles	0.15	24	18.12	89
Kootenai	0.21	23	17.49	80
Clark Fork	0.17	30	13.17	89
Flathead	0.08	10	15.60	80
Pend Oreille/Spokane	0.14	21	25.84	93
Central Washington	0.00	0	8.30	102
Snake River Plain	0.01	2	6.72	68
Salmon/Boise/Payette	0.09	24	17.54	97
Clearwater	0.31	43	27.85	101
SW Washington Cascades/Cowlitz	0.18	26	57.05	86
Willamette Valley	0.02	4	51.08	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, which decreased 400 Kaf with respect to the June Final, forecast.

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 17th, 2003), flows have averaged 40.5 Kcfs at Lower Granite and 149.1 Kcfs at McNary.

Libby Reservoir is currently at an elevation of 2457.9 feet, and has drafted 0.2 feet in the last week. Outflows have remained at 14.0 Kcfs.

Hungry Horse Reservoir is currently at an elevation of 3554.8 feet and has been drafted approximately 1.8 feet over the last week.

Dworshak Reservoir is currently at an elevation of 1586.5 feet, and has drafted 7.9 feet in the last week. Outflows continue to be approximately 14.0 kcfs, 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.

Grand Coulee Reservoir ended July 17th at an elevation of 1284.5 and has drafted approximately 2.3 feet over the last week.

Brownlee Reservoir was at an elevation of 2074.8 on July 16th, 2003, 2.2 feet from its full pool elevation. Outflows at Brownlee have ranged between 6.7 and 12.3 Kcfs over the last week.

The USBR reservoir systems along the Boise, Payette, and Upper Snake Basins are currently 82%, 90%, and 41% of capacity.

Smolt Monitoring: In the Snake River the numbers of subyearling chinook are decreasing while the Lower Columbia continues to see high indices at all sites. At Lower Granite Dam the indices for subyearling chinook decreased from 16,700 last week to 8,400 this week. Little Goose also saw a decrease with with an average index of 5,400 this week compared to 9,000 last week. While at Lower Monumental there was an increase in subyearling migrants, with the weekly average index at 2,500 this week compared to 1,300 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 decreased last week with the daily average at 300 compared to 1,300 per day the previous week.

In the Lower Columbia, at McNary, the daily average index for subyearling chinook was lower at 118,000 per day this week compared to 133,000 last week. At John Day Dam the average daily index for subyearling chinook increased to 38,000 this week compared to 25,000 last week. At Bonneville Dam, the average daily index for subyearling chinook was at 104,000 this week compared to 112,000 last week.

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 48% 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 53% 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.

Hatchery Releases - The preliminary total of juvenile salmonids released from hatcheries above Bonneville Dam for the 2003 migration season is estimated near 87.1 million from Columbia River Basin hatcheries. About 0.5 million juvenile subyearling fall chinook were released during the past two weeks. The Zone Release Report below summarizes hatchery releases from State, federal or Tribal hatcheries or acclimation ponds for the 2003 season. These totals will be updated and finalized through the year.

Hatchery Zone Release Report	Friday 18-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	3,010,337		5,342,915
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	22,080,221	37,101,496	87,122,761

Adult Fish Passage - Adult summer chinook passage at Bonneville Dam ranged between 831 and 1,956 for the week ending July 17. The cumulative count is now 102,920 about 89.1% and 311% of the respective year 2002 and 10-year average count at Bonneville. 2003 marks the 2nd year in a row that numbers of fish past Bonneville exceeded 100,000. A sport and tribal harvest of a limited number of these summer chinook has been ongoing in the Columbia River (Tribal is above Bonneville Dam). Counts of adult summer chinook at The Dalles and John Day averaged 1,300 per day, McNary averaged about 1,100 per day while Priest Rapids was 1,840 per day through this past week. The daily numbers of summer chinook at the upper three mid-Columbia projects has been near 2,000 per day with greater than 54,400 counted above Rock Island Dam through July 16. Passage numbers dropped to less than 100 per day at Ice Harbor Dam with the cumulative total at each of the lower two Snake River projects exceeding 18,000 through July 17.

Passage of sockeye salmon decreased through the week at Bonneville Dam with the cumulative count through July 17 at 38,270, and this total was 78.5% and 84% of the respective 2002 and 10-year average count. These sockeye are mainly

destined for Lake Wenatchee or Lake Osoyoos in the Mid/Upper Columbia River. At Rock Island, about 28,500 have been counted with 22,376 counted at Rocky Reach Dam. Numbers of sockeye above Rocky Reach indicate that this year's run is primarily comprised of Lake Osoyoos stock sockeye. The Rock Island count minus the Rocky Reach count should approximate the Lake Wenatchee Run. To date only 10 adult sockeye have been counted at Lower Granite Dam; these fish should be destined for the upper Salmon River basin and enter the Redfish, Pettit, Alturas lake systems.

Numbers of steelhead at Bonneville Dam continued to rise through the week from about 2,200 early in the week to 4,300 per day through July 17. The cumulative count of 51,982 compares to 72,600 in 2002 and 38,100 for the 10-year average. Steelhead are now moving upstream into the Snake and Mid-Columbia rivers with counts increasing throughout the week. At McNary Dam, daily counts were near 700 to 800 per day by week's end, with 50 to 100 passing Priest Rapids Dam, and 400 to 500 per day at Ice Harbor Dam in the Snake River.

Warmer water temperatures will result in a portion of the steelhead turning into lower river tributaries such as Drano Lake, Big White Salmon and Klickitat rivers and other areas of cooler waters during the summer time frame (Deschutes River above The Dalles Dam also). The numbers of steelhead stopping/holding in the pools below The Dalles Dam can be somewhat referenced by taking the daily counts at Bonneville and comparing them to the daily counts at The Dalles Dam. Much of the count differential at this time of year is comprised of steelhead that are moving from the warmer Columbia River water into the cooler tributary waters.

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
07/04/03	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
07/11/03	121.8	0.1	119.7	0.0	120.9	7.9	121.4	17.3	125.3	22.4	138.4	43.0	135.4	77.6
07/12/03	96.4	0.2	100.6	0.0	106.8	7.5	110.1	16.3	114.8	21.5	126.9	39.3	123.2	68.7
07/13/03	69.7	0.2	75.3	0.0	80.7	6.3	83.1	11.5	85.6	14.8	93.4	29.0	97.3	56.0
07/14/03	124.3	0.2	119.3	0.0	121.6	8.1	115.3	19.2	119.0	23.8	126.6	39.5	120.1	68.8
07/15/03	125.9	0.1	130.0	0.0	132.4	22.2	128.0	17.3	131.9	23.8	127.8	40.0	125.4	71.7
07/16/03	96.5	0.1	100.9	0.0	106.7	7.0	112.8	17.4	116.7	23.4	134.5	41.7	127.0	71.9
07/17/03	103.5	0.2	106.1	0.0	107.2	7.5	104.9	16.7	106.9	23.0	114.4	33.4	109.5	61.5

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

Date	Dworshak		Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
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	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	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	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	4.5
07/08/03	12.4	2.9	8.2	7.8	36.5	0.0	36.3	0.0	37.8	0.0	36.5	0.0
07/09/03	13.9	4.4	9.0	7.5	35.5	0.0	36.1	0.0	37.9	0.0	38.9	26.2
07/10/03	14.1	4.5	8.4	9.3	35.8	0.0	33.8	0.0	33.5	0.0	28.9	2.5
07/11/03	14.0	4.4	8.2	11.5	36.0	0.0	37.5	0.0	38.9	0.0	38.5	23.4
07/12/03	13.2	4.2	8.2	11.6	37.7	0.0	36.1	0.0	38.6	0.0	37.6	15.2
07/13/03	13.7	4.1	6.9	7.4	35.1	0.0	28.7	0.0	28.9	0.0	29.0	14.9
07/14/03	14.0	4.4	7.9	7.2	33.5	0.0	29.0	0.0	31.7	0.0	33.0	25.9
07/15/03	13.9	4.3	7.7	7.9	24.3	4.5	33.5	0.0	34.0	0.0	32.8	25.5
07/16/03	13.8	4.2	6.7	9.2	40.2	0.0	41.5	0.0	43.5	0.0	43.1	9.0
07/17/03	14.0	4.4	---	---	31.7	0.0	29.7	0.0	30.8	0.0	28.9	4.3

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
07/04/03	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	159.0	0.0	164.2	45.2	170.9	68.0	199.0	96.6	7.6	87.8
07/11/03	170.1	0.0	157.7	31.7	153.9	61.3	185.7	96.7	0.0	82.3
07/12/03	163.4	0.0	163.8	43.3	161.1	63.5	175.7	98.0	0.0	71.0
07/13/03	144.0	0.0	132.6	49.7	135.3	54.2	156.6	93.0	0.0	57.0
07/14/03	155.9	0.0	174.3	51.7	169.1	65.9	194.1	89.4	7.2	90.7
07/15/03	151.5	0.0	143.4	24.9	145.6	58.2	171.6	92.8	0.0	72.1
07/16/03	156.9	0.0	144.7	33.3	140.3	54.8	163.3	90.5	2.2	63.8
07/17/03	201.8	0.0	164.4	58.7	164.9	63.5	186.0	97.2	0.0	82.1

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
McNary Dam													
	07/10/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	07/14/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Bonneville Dam													
	07/14/03	Chinook + Steelhead	101	0	0	0.00%	0.00%	0	0	0	0		
	07/17/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Rock Island Dam													
	07/10/03	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0		
	07/14/03	Chinook + Steelhead	52	1	1	1.92%	0.00%	1	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	Hungry H. Dnst			Boundary			Grand Coulee			Grand C. Tlwr			Chief Joseph							
	24 h		#	24 h		#	24 h		#	24 h		#	24 h		#	24 h		#		
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	
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
7/11	---	---	---	0	112	112	112	24	113	113	114	24	112	113	116	24	112	113	113	23
7/12	---	---	---	0	112	112	112	24	113	113	113	24	113	113	117	24	112	112	113	23
7/13	---	---	---	0	110	110	111	24	112	112	113	24	112	113	116	24	111	111	111	23
7/14	---	---	---	0	109	110	110	24	112	112	112	24	111	112	116	24	111	111	111	23
7/15	---	---	---	0	109	110	110	24	112	112	113	24	111	112	116	24	112	112	113	23
7/16	---	---	---	0	108	109	109	24	112	112	112	24	111	112	117	24	111	112	112	23
7/17	---	---	---	0	108	108	109	23	111	111	112	24	110	111	112	24	110	110	111	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			Wells			Wells Dwnstrm			Rocky Reach			Rocky R. Tlwr							
	24 h		#	24 h		#	24 h		#	24 h		#	24 h		#	24 h		#		
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	
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	23	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
7/11	112	112	114	23	112	113	113	23	113	114	115	23	114	115	115	23	114	115	116	23
7/12	112	112	113	23	112	113	113	23	114	114	115	23	114	114	115	24	114	114	115	24
7/13	111	112	112	23	110	110	111	23	112	112	113	23	113	113	113	23	113	113	113	22
7/14	110	111	111	23	110	110	111	24	111	112	112	24	111	111	112	23	112	112	113	23
7/15	111	112	112	23	111	112	113	22	114	116	122	22	111	112	112	24	112	112	113	24
7/16	111	112	113	23	111	112	113	22	112	113	114	22	112	112	113	22	112	112	113	22
7/17	110	110	111	23	110	111	112	24	112	112	113	24	114	115	115	21	114	115	116	21

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Rock Island			Rock I. Tlwr			Wanapum			Wanapum Tlwr			Priest Rapids							
	24 h		#	24 h		#	24 h		#	24 h		#	24 h		#	24 h		#		
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			
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	107	108	109	24	114	114	115	24	110	111	113	24
7/9	112	113	113	23	117	118	119	23	107	108	111	24	114	114	115	24	111	112	113	24
7/10	112	113	114	23	117	118	119	23	109	110	111	24	115	115	116	24	114	114	116	24
7/11	113	114	115	23	117	118	119	22	109	110	112	24	116	116	117	24	114	115	119	24
7/12	114	114	115	24	118	118	120	23	110	110	111	24	115	116	116	24	113	114	115	24
7/13	112	112	113	24	116	117	118	23	109	109	110	24	115	116	116	24	111	112	114	24
7/14	112	112	113	22	117	118	120	21	108	109	111	22	115	115	116	22	112	113	115	24
7/15	112	112	113	23	116	117	119	23	111	111	112	24	116	116	117	24	114	116	119	24
7/16	111	112	112	21	117	117	119	21	---	---	---	0	---	---	---	0	---	---	---	0
7/17	112	113	115	22	116	118	119	22	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwtr-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
7/4	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	115	118	119	24	108	110	111	24	105	106	106	24	105	106	107	24	102	103	105	24
7/9	116	118	119	24	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
7/11	118	119	120	24	113	114	115	24	107	108	109	23	106	108	109	24	103	105	106	24
7/12	117	118	119	24	113	114	114	24	108	109	112	24	107	108	110	24	103	104	106	24
7/13	116	117	118	24	108	109	109	24	105	106	106	24	106	107	107	24	102	104	105	24
7/14	117	119	119	23	110	112	112	24	105	105	106	24	106	107	108	24	103	104	106	24
7/15	117	120	121	24	113	114	115	24	106	106	106	24	106	107	108	24	103	105	107	24
7/16	---	---	---	0	112	113	114	24	106	106	106	24	106	107	108	24	103	104	106	24
7/17	---	---	---	0	112	113	113	24	105	105	106	24	106	107	108	24	103	104	106	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	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
7/4	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
7/11	104	106	107	24	106	107	109	24	100	100	101	24	103	105	110	24	100	101	102	24
7/12	105	107	108	24	104	105	107	24	100	101	101	24	99	100	103	24	99	99	100	24
7/13	104	105	107	24	102	102	103	24	101	101	103	24	99	99	99	24	98	99	99	24
7/14	104	107	108	24	104	106	108	24	102	102	103	23	100	101	101	24	99	100	101	24
7/15	105	107	109	24	106	107	108	24	110	116	120	24	102	104	106	24	101	101	102	24
7/16	105	107	109	24	104	105	106	24	102	102	104	24	99	99	100	24	99	99	100	24
7/17	105	107	108	24	104	105	107	24	101	102	103	24	100	102	104	24	99	100	100	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
7/4	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
7/11	104	105	106	24	103	103	104	24	104	105	107	24	111	114	115	24	110	115	118	24
7/12	103	104	106	24	102	103	104	24	103	104	105	24	109	114	116	24	111	113	114	24
7/13	102	102	102	24	101	101	102	24	101	102	103	24	110	114	117	24	108	109	110	24
7/14	101	102	103	24	101	102	103	23	102	103	103	24	113	114	116	24	109	111	113	24
7/15	102	103	104	24	101	102	103	24	102	102	103	24	114	115	116	24	112	115	117	24
7/16	100	101	101	24	99	100	101	24	102	102	103	24	105	109	115	24	109	110	111	24
7/17	101	102	103	24	100	101	102	24	102	103	105	24	103	105	114	24	110	111	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>			
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#		
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
7/11	108	109	110	24	107	108	109	24	103	104	104	23	109	114	117	24	106	106	107	23
7/12	111	112	113	24	110	110	111	24	104	104	104	23	110	116	118	24	105	106	109	23
7/13	108	109	110	24	108	109	109	24	103	103	103	23	115	116	118	24	105	106	110	23
7/14	108	109	111	24	107	108	108	24	102	103	103	23	115	115	116	24	107	107	108	23
7/15	110	111	112	24	109	109	110	23	103	103	103	23	108	113	117	24	107	107	107	23
7/16	108	108	109	24	107	108	108	24	102	102	103	23	108	114	117	24	103	104	106	23
7/17	110	112	114	24	109	109	110	24	102	104	106	23	116	117	118	24	104	106	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>Camas\Washugal</u>			
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	
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
7/11	114	115	115	24	109	110	111	23	113	115	118	23	110	113	115	24
7/12	113	113	114	24	108	109	110	23	114	116	120	23	110	112	114	24
7/13	114	115	115	24	106	106	107	23	113	115	119	23	109	111	114	24
7/14	115	116	117	24	106	107	107	23	111	112	114	23	109	110	112	24
7/15	115	115	116	24	109	109	109	23	113	115	118	23	108	110	113	24
7/16	113	113	114	24	107	108	108	23	112	113	115	23	108	109	110	24
7/17	113	114	114	24	106	107	107	23	113	115	119	23	109	112	115	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary									
From:		7/4/03		to		7/17/03			
Agency	Hatchery	Species	Race	MiqYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CHO	FA	2003	561,000	07-14-03	07-14-03	Klickitat Hatchery	Klickitat River
Grand Total					561,000				

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

Two-Week Summary of Passage Indices

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)
07/04/2003	---	---	---	---	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
07/11/2003	*	---	---	---	25	34	27	1	500	98	111
07/12/2003	---	---	---	---	25	80	58	0	100	177	0
07/13/2003	---	---	---	---	50	20	130	0	0	0	318
07/14/2003	---	---	---	---	10	0	40	0	0	30	0
07/15/2003	*	---	---	---	30	29	20	0	100	0	146
07/16/2003	*	---	---	---	0	28	30	4	200	1	0
07/17/2003	*	---	---	---	10	14	0	0	100	11	245
Total:	0	0	0	0	850	385	480	13	2,701	529	1,056
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	61	28	34	1	193	38	75
YTD	32,064	34,022	11,123	2,417	3,599,015	2,502,865	785,074	15,342	1,623,658	2,074,481	4,043,426

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)
07/04/2003	---	---	---	---	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
07/11/2003	*	---	---	---	17,800	5,529	3,186	709	145,500	63,092	65,563
07/12/2003	---	---	---	---	9,800	10,901	3,633	382	128,300	93,652	77,559
07/13/2003	---	---	---	---	4,425	6,490	1,360	240	84,300	31,502	93,290
07/14/2003	---	---	---	---	4,320	3,090	1,100	135	86,400	22,930	126,366
07/15/2003	*	---	---	---	10,302	3,796	1,850	202	185,600	15,269	199,054
07/16/2003	*	---	---	---	4,403	2,444	3,816	215	121,900	14,317	60,697
07/17/2003	*	---	---	---	7,854	6,180	2,650	163	73,600	22,139	59,285
Total:	0	0	0	0	176,254	102,034	26,827	11,396	1,756,799	435,599	1,467,253
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	12,590	7,288	1,916	814	125,486	31,114	104,804
YTD	1	118	74	355	1,310,492	599,311	307,074	20,965	6,218,540	2,228,478	7,274,630

* 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)
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
07/11/2003 *	---	---	---	---	125	97	12	7	100	163	0
07/12/2003	---	---	---	---	325	191	26	10	300	40	0
07/13/2003	---	---	---	---	25	57	0	15	100	35	0
07/14/2003	---	---	---	---	60	43	20	4	0	0	165
07/15/2003 *	---	---	---	---	70	43	10	8	100	17	436
07/16/2003 *	---	---	---	---	36	14	12	4	100	20	0
07/17/2003 *	---	---	---	---	80	47	0	5	300	11	122
Total:	0	0	0	0	2,096	692	120	179	2,600	518	1,183
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	150	49	9	13	186	37	85
YTD	0	0	0	17	131,686	116,496	37,467	41,561	112,149	257,132	2,115,934

COMBINED STEELHEAD											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
07/04/2003	---	---	---	---	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
07/11/2003 *	---	---	---	---	250	106	15	6	0	17	0
07/12/2003	---	---	---	---	275	288	37	4	0	78	0
07/13/2003	---	---	---	---	250	43	20	1	0	0	0
07/14/2003	---	---	---	---	90	43	20	10	0	1	0
07/15/2003 *	---	---	---	---	170	29	0	8	0	22	436
07/16/2003 *	---	---	---	---	118	29	6	4	0	29	0
07/17/2003 *	---	---	---	---	370	29	0	1	0	11	0
Total:	0	0	0	0	3,798	1,067	240	67	200	527	1,050
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	271	76	17	5	14	38	75
YTD	2,347	48,399	2,521	5,601	3,351,900	2,592,429	1,865,204	15,485	245,533	553,346	1,635,054

* See sampling comments

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

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)
07/04/2003	---	---	---	---	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
07/11/2003 *	---	---	---	---	0	0	0	7	300	0	0
07/12/2003	---	---	---	---	0	17	1	4	500	19	0
07/13/2003	---	---	---	---	0	0	0	4	100	0	0
07/14/2003	---	---	---	---	0	0	0	3	100	3	0
07/15/2003 *	---	---	---	---	10	0	0	5	600	0	0
07/16/2003 *	---	---	---	---	0	0	0	5	400	8	0
07/17/2003 *	---	---	---	---	0	0	0	4	400	0	0
Total:	0	0	0	0	35	57	9	203	3,400	54	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	3	4	1	15	243	4	0
YTD	1	0	0	11	16,384	8,109	4,538	10,244	834,930	724,665	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: 07/17

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	102,920	11,124	115,525	7,052	33,100	4,254	0	0	0	0	0	0
TDA	131,207	11,522	181,176	3,870	80,975	4,136	89,744	8,109	99,793	4,725	27,613	2,903	0	0	0	0	0	0
JDA	101,436	10,206	139,887	2,403	67,822	3,122	83,087	7,777	92,564	4,267	25,694	2,409	0	0	0	0	0	0
MCN	95,550	11,123	129,357	3,872	62,536	3,162	80,649	8,571	92,209	5,400	25,123	2,379	0	0	0	0	0	0
IHR	78,170	8,018	85,207	1,826	38,964	1,925	19,005	4,019	25,782	2,291	7,289	1,008	0	0	0	0	0	0
LMN	70,603	7,219	76,304	1,537	38,073	1,899	18,145	3,319	22,768	1,441	7,215	856	0	0	0	0	0	0
LGS	69,020	6,919	77,232	1,815	37,097	2,034	13,828	3,166	19,900	2,107	6,466	1,094	0	0	0	0	0	0
LWG	70,609	8,295	75,025	2,089	35,689	2,016	15,415	3,737	20,866	1,739	6,465	1,109	0	0	0	0	0	0
PRD	18,136	656	34,083	196	15,528	317	61,376	1,679	66,358	832	17,733	524	0	0	0	0	0	0
RIS	16,881	753	24,017	827	11,565	538	54,449	2,614	49,075	1,472	13,054	1,558	0	0	0	0	0	0
RRH	4,216	450	9,999	161	4,017	126	36,044	1,928	34,434	965	7,222	490	0	0	0	0	0	0
WEL	4,504	198	7,585	41	2,377	152	17,137	300	19,873	119	3,403	199	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2003		2002		10-Yr Avg.		2003	2002	10-Yr Avg.	10-Yr			Wild 2003
	Adult	Jack	Adult	Jack	Adult	Jack				2003	2002	Avg.	
BON	4	0	0	0	1	0	38,270	48,775	45,559	51,892	72,654	38,058	22,022
TDA	0	0	0	0	0	0	33,317	39,600	36,370	25,588	39,445	18,213	11,320
JDA	0	0	0	0	1	0	33,784	40,471	38,951	19,750	31,376	15,099	7,754
MCN	0	0	0	0	0	0	30,948	37,193	34,888	13,264	18,081	10,118	4,664
IHR	0	0	0	0	0	0	26	48	17	8,269	10,020	5,828	2,569
LMN	0	0	0	0	0	0	14	37	23	7,111	9,373	5,230	2,493
LGS	0	0	0	0	0	0	11	31	25	5,404	8,710	3,376	2,371
LWG	0	0	0	0	0	0	10	42	22	18,406	14,314	6,612	4,489
PRD	2	0	0	0	1	0	32,750	39,920	39,840	934	1,101	560	n/c
RIS	1	0	3	0	1	0	28,460	28,633	31,102	539	731	372	350
RRH	1	0	17	0	1	0	22,376	5,446	16,976	405	556	219	233
WEL	0	0	0	0	0	0	14,071	1,764	12,427	101	218	61	61

RIS and RRH are through 07/16, WEL is through 07/13.

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: 7/18/03

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

		07/05/03 TO 07/18/03					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	182,561	890	2,140	35	3,980	189,606
	Sum of NumberBarged	171,084	797	2,067	29	3,668	177,645
	Sum of NumberBypassed	4	0	0	0	0	4
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4,506	54	23	6	114	4,703
LGS	Sum of NumberCollected	102,034	385	692	57	1,067	104,235
	Sum of NumberBarged	100,845	355	662	51	1,038	102,951
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,189	30	30	6	29	1,284
LMN	Sum of NumberCollected	26,827	480	120	9	240	27,676
	Sum of NumberBarged	21,524	474	120	9	232	22,359
	Sum of NumberBypassed	4,939	0	0	0	0	4,939
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	364	6	0	0	8	378
MCN	Sum of NumberCollected	1,756,799	2,701	2,600	3,400	200	1,765,700
	Sum of NumberBarged	1,869,679	2,607	2,380	2,768	190	1,877,624
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	31,674	94	21	34	10	31,833
Total Sum of NumberCollected		2,068,221	4,456	5,552	3,501	5,487	2,087,217
Total Sum of NumberBarged		2,163,132	4,233	5,229	2,857	5,128	2,180,579
Total Sum of NumberBypassed		4,943	0	0	0	0	4,943
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		37,733	184	74	46	161	38,198

YTD Transportation Summary

TO: 07/18/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,067,749	2,576,800	88,844	9,748	2,333,239	6,076,380
	Sum of NumberBarged	1,040,240	2,470,692	88,154	9,549	2,262,482	5,871,117
	Sum of NumberBypassed	2,752	45,590	7	0	53,142	101,491
	Sum of NumberTrucked	816	54,208	40	78	15,402	70,544
	Sum of TotalProjectMortalities	16,970	5,972	593	121	2,016	25,672
LGS	Sum of NumberCollected	516,946	1,849,149	86,532	5,421	1,945,857	4,403,905
	Sum of NumberBarged	511,572	1,795,131	86,141	5,385	1,942,107	4,340,336
	Sum of NumberBypassed	0	22	0	0	3	25
	Sum of NumberTrucked	5	52,601	0	0	850	53,456
	Sum of TotalProjectMortalities	5,368	3,334	391	36	2,897	12,026
LMN	Sum of NumberCollected	256,145	463,129	26,417	3,300	1,229,568	1,978,559
	Sum of NumberBarged	221,198	440,113	25,721	3,255	1,150,700	1,840,987
	Sum of NumberBypassed	34,050	6,866	681	0	75,945	117,542
	Sum of NumberTrucked	60	15,149	0	40	1,637	16,886
	Sum of TotalProjectMortalities	837	1,001	15	5	1,286	3,144
MCN	Sum of NumberCollected	5,565,370	1,041,392	70,492	539,328	155,020	7,371,602
	Sum of NumberBarged	3,170,823	5,035	7,444	3,948	682	3,187,932
	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	41,485	1,080	145	414	211	43,335
Total Sum of NumberCollected		7,406,210	5,930,470	272,285	557,797	5,663,684	19,830,446
Total Sum of NumberBarged		4,943,833	4,710,971	207,460	22,137	5,355,971	15,240,372
Total Sum of NumberBypassed		2,317,329	1,087,562	63,292	534,272	283,174	4,285,629
Total Sum of NumberTrucked		881	121,958	40	118	17,889	140,886
Total Sum of TotalProjectMortalities		64,660	11,387	1,144	576	6,410	84,177