



Fish Passage Center

Weekly Report #03 - 18

July 25, 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 very low in June and the first twenty-one days of July. All of the sites in Table 1 recorded precipitation that was equal to or less than 31% of average in July, and most of the locations contained precipitation that was less than 20% of average. Over the entire water year, precipitation has ranged between 67% and 101% 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 1-21, 2003		Cumulative October, 1 2002 to July 21, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.27	22	18.41	85
Snake River Above Ice Harbor	0.11	17	14.21	90
Columbia Above The Dalles	0.16	19	18.14	88
Kootenai	0.23	18	17.51	78
Clark Fork	0.19	24	13.19	88
Flathead	0.10	9	15.62	78
Pend Oreille/Spokane	0.17	18	25.86	92
Central Washington	0.00	0	8.30	101
Snake River Plain	0.03	6	6.74	67
Salmon/Boise/Payette	0.10	19	17.55	97
Clearwater	0.31	31	27.85	100
SW Washington Cascades/Cowlitz	0.22	24	57.10	86
Willamette Valley	0.01	3	51.07	90

The summer Biological Opinion Flow objectives are 50.7 Kcfs at Lower Granite (June 21st-August 31st) and 200 Kcfs at McNary (July 1st-August 31st). To date (July 24th 2003), flows have averaged 39.0 Kcfs at Lower Granite and 146 Kcfs at McNary.

Libby Reservoir is currently at an elevation of 2456.2 feet, and has drafted 1.7 feet in the last week. At Libby, outflows were increased to an 18.0 Kcfs daily average on July 21st. Last week SOR 2003-12 asked the Action Agencies to explore the potential for a Libby/Arrow-Duncan Swap of storage water over the summer of 2003. To date, the Action Agencies have indicated that a Libby swap is unlikely.

Hungry Horse Reservoir is at an elevation of 3552.5 feet and has been drafted approximately 2.0 feet over the last week.

Dworshak Reservoir is currently at an elevation of 1577 feet, and has drafted 9.5 feet in the last week. Supplemental outflows from Dworshak to moderate temperatures in the Lower Snake River were decreased from approximately 14.0 kcfs to 12.0 Kcfs at 6 PM on 7-24-03. 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 24th at an elevation of 1283.7 feet and has drafted approximately 0.8 feet over the last week.

Brownlee Reservoir was at an elevation of 2071.4 feet on July 24th, drafting 3.0 feet in the last week. Outflows at Brownlee have been increasing, and have ranged between 9.3 and 14.2 Kcfs over the last five days.

The USBR reservoir systems along the Boise, Payette and Upper Snake basins are currently 70%, 86% and 36% of capacity, respectively.

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 34% 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 26%, 39%, and 56% 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. One fish was detected with signs of GBT this past week at Rock Island Dam.

Smolt Monitoring: In the Snake River the numbers of subyearling chinook continue to decrease while the Lower Columbia continues to see indices in the range of 50,000 fish per day at McNary and Bonneville dams. At Lower Granite Dam the average daily index for subyearling chinook decreased from 8,400 last week to 5,800 this week. Little Goose also saw a decrease with with an average index of 3,900 this week compared to 5,400 last week. At Lower Monumental there was a decrease as well, as subyearling indices averaged 1,600 this week compared to 2,500 last week.

The bypass at Rock Island Dam 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 230 compared to 290 per day the previous week.

In the Lower Columbia, at McNary, the daily average index for subyearling chinook was lower at 57,000 per day this week compared to 118,000 last week. At John Day Dam the average daily

index for subyearling chinook decreased to 10,500 this week compared to 38,000 last week. At Bonneville Dam, the average daily index for subyearling chinook was at 48,000 this week compared to 97,000 last week.

Hatchery Releases - The preliminary total of juvenile salmonids released from hatcheries above Bonneville Dam for the 2003 migration season is estimated near 87.2 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 Migration Season. These totals will be updated and finalized through the year.

Hatchery Zone Release Report	Friday 24-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	3,001,618		5,334,196
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	1,344,613	490,667	11,523,221
Winter Steelhead			94,900	94,900
Total	27,941,044	22,138,531	37,107,435	87,187,010

Adult Fish Passage - Adult summer chinook passage at Bonneville Dam ranged between 650 and 1,500 for the week ending July 24. The cumulative count is now 109,968 about 90.2% and 308% of the respective year 2002 and 10-year average count at Bonneville. With these higher totals past Bonneville, a sport and tribal harvest of a limited number of these summer chinook continues in the Columbia River (Tribal is above Bonneville Dam). Numbers of adult summer chinook has been declining through the week at the lower Columbia projects with the most of the summer run now above Priest Rapids (67,000) in the Mid-Columbia. The adult chinook counts at the upper mid-Columbia Chelan projects have been between 1,000 and 2,000 per day with greater than 65,000 counted above Rock Island Dam through July 23 and 46,000 above Rocky Reach Dam. Passage numbers have decreased to less than 50 per day at most Snake River projects with the cumulative count at Lower Granite Dam near 15,700 for the season, was about 73% of the 2002 count and 234% of the 10-year average through July 24.

Passage of sockeye salmon decreased through the week at Bonneville Dam with the cumulative count through July 24 at 38,979 and this total was 79.1% and 84% of the respective 2002 and 10-year average count. At Rock Island, about 33,600 have been counted with 28,500 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. In the Snake River, only 11 adult sockeye have been counted at Lower Granite Dam; destination of these sockeye should be the upper Salmon River basin.

Numbers of steelhead at Bonneville Dam rose and leveled off at about 5,000 per day for this week with the peak day above 6,200 on July 19. The cumulative count through July 24 was 87,108 and compares to 106,769 in 2002 and 55,728 for the 10-year average. With the hot air temperatures in the Basin during the past few weeks, water temperatures have also risen in the mainstem

Columbia and Snake Rivers. The steelhead count differential between Bonneville Dam and The Dalles Dam has risen to greater than 50,000 at present. As a result of the warmer water temperatures a large percentage of the steelhead are turning into lower river tributaries such as Drano Lake, Big White Salmon and Klickitat rivers and other areas of cooler waters during the past couple of weeks. The numbers of steelhead stopping/holding in the pools below The Dalles Dam can be somewhat referenced by taking the daily counts at Bonneville (near 5,000 per day) and comparing them to the daily counts at The Dalles Dam (counts = 850 to 1,700 per day).

At McNary Dam, daily counts of adult steelhead averaged 891 for the week, about 100 steelhead per day were passing Priest Rapids Dam, and 400 to 500 per day passing Ice Harbor Dam in the Snake River. The cumulative count for Priest Rapids Dam was 1,674 with Ice Harbor at 11,264 through July 24.

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
07/11/03	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
07/18/03	102.3	0.1	103.0	0.0	106.1	7.0	105.2	14.5	104.5	20.4	105.6	30.5	111.6	62.7
07/19/03	100.6	0.1	98.3	0.0	99.9	7.0	102.8	12.3	105.3	17.2	113.5	32.9	103.5	57.3
07/20/03	70.6	0.2	74.6	0.0	77.7	6.2	77.6	8.3	78.9	11.0	88.7	25.7	84.3	47.6
07/21/03	132.7	0.2	123.7	0.0	123.7	7.9	115.4	17.2	115.9	23.1	112.9	32.8	103.1	57.5
07/22/03	114.2	0.1	120.1	0.0	122.6	14.1	121.5	18.3	122.8	24.9	137.4	39.9	136.0	75.4
07/23/03	114.8	0.2	122.2	0.0	123.8	7.9	124.8	20.2	127.0	27.0	133.9	39.2	129.1	72.8
07/24/03	101.6	0.2	101.9	0.0	106.5	6.9	108.0	18.8	111.3	25.1	124.0	36.0	124.9	70.1

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
07/11/03	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	6.6	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	7.3	8.5	31.7	0.0	29.7	0.0	30.8	0.0	28.9	4.3
07/18/03	14.0	4.3	7.8	9.9	33.0	0.0	34.3	0.0	37.5	0.0	33.8	10.7
07/19/03	13.9	4.2	7.1	7.9	31.5	0.0	32.0	0.0	32.1	0.0	30.6	13.0
07/20/03	13.9	4.1	8.3	10.8	30.3	0.0	30.7	0.0	33.3	0.0	34.3	13.3
07/21/03	12.9	3.7	7.1	13.2	31.8	0.0	31.6	0.0	33.3	0.0	31.3	8.0
07/22/03	13.2	3.5	8.5	13.2	34.6	0.0	36.1	0.0	37.9	0.0	35.4	12.0
07/23/03	13.3	3.5	7.5	12.9	32.7	0.0	30.3	0.0	30.5	0.0	29.9	12.6
07/24/03	11.8	2.3	---	---	32.0	0.0	32.3	0.0	33.6	0.0	31.8	8.0

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
07/11/03	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	150.8	0.0	164.4	58.7	164.9	63.5	186.0	97.2	0.0	82.1
07/18/03	125.8	0.0	128.4	37.3	133.8	51.5	169.2	92.8	0.0	69.6
07/19/03	125.6	0.0	99.4	29.2	99.3	38.2	132.9	86.9	0.0	39.3
07/20/03	138.9	0.0	141.5	42.2	140.1	55.3	149.5	84.8	0.0	58.1
07/21/03	134.9	0.0	142.9	27.8	144.3	56.0	176.1	91.6	0.0	77.8
07/22/03	149.1	0.2	141.5	38.0	139.6	55.3	160.0	91.1	0.0	62.2
07/23/03	160.5	0.2	155.5	35.5	154.3	60.7	176.7	95.0	0.0	75.0
07/24/03	201.8	0.0	156.2	42.2	156.3	61.6	186.1	100.2	0.1	79.1

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													
	07/21/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	07/24/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Bonneville Dam													
	07/17/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	07/24/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Rock Island Dam													
	07/17/03	Chinook + Steelhead	88	0	0	0.00%	0.00%	0	0	0	0		
	07/24/03	Chinook + Steelhead	100	1	1	1.00%	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	<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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
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
7/18	---	---	---	0	108	109	109	24	111	111	111	24	110	110	113	24	110	110	111	23
7/19	---	---	---	0	110	111	116	24	111	111	111	24	110	111	114	24	110	111	111	23
7/20	---	---	---	0	112	113	113	25	110	111	111	25	111	111	114	25	111	111	111	23
7/21	---	---	---	0	113	114	115	24	110	110	110	24	110	111	114	24	110	111	111	23
7/22	---	---	---	0	114	115	116	24	110	110	110	24	110	111	115	24	111	111	112	23
7/23	---	---	---	0	114	115	115	24	110	110	111	24	110	111	115	24	111	111	111	23
7/24	---	---	---	0	114	115	115	24	110	110	110	24	110	111	115	24	110	111	111	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
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
7/18	110	110	111	23	110	111	112	24	112	113	113	24	112	112	113	24	112	112	113	23
7/19	111	111	113	23	110	111	112	24	112	113	113	24	112	112	113	24	113	113	114	22
7/20	111	112	112	23	110	111	111	25	111	112	113	25	112	113	114	24	113	113	113	23
7/21	110	111	112	23	110	111	112	24	112	113	113	24	112	112	112	22	112	113	113	22
7/22	111	112	112	23	111	111	113	14	112	113	116	14	112	112	113	23	113	113	114	23
7/23	111	111	112	23	112	112	113	16	113	114	114	16	113	113	114	22	114	114	115	21
7/24	111	111	113	23	111	112	113	24	113	113	114	24	114	114	115	22	114	115	115	21

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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
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	109	110	111	24	115	116	121	24	112	113	115	24
7/17	112	113	115	22	116	118	119	22	109	111	113	24	114	115	116	24	111	113	114	24
7/18	113	113	114	24	117	119	121	24	110	111	113	24	115	116	117	24	114	115	117	24
7/19	112	113	113	24	116	117	118	24	110	111	112	24	115	116	116	24	114	115	117	24
7/20	112	112	113	24	115	117	118	24	110	110	110	24	115	115	116	24	112	113	113	24
7/21	112	113	113	21	117	118	119	21	110	111	113	24	115	116	117	24	111	112	116	23
7/22	112	113	114	22	117	118	120	22	110	111	113	24	116	116	117	24	114	115	116	24
7/23	113	113	114	22	118	118	120	22	110	110	111	24	115	115	116	24	112	113	115	24
7/24	113	114	115	22	118	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	Priest R. Dnst				Pasco				Dworshak				Clrwtr-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	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	117	119	119	24	112	113	114	24	106	106	106	24	106	107	108	24	103	104	106	24
7/17	116	117	118	24	112	113	113	24	105	105	106	24	106	107	108	24	103	104	106	24
7/18	116	118	119	24	111	112	113	24	105	106	106	24	106	107	108	24	103	105	106	24
7/19	116	117	119	24	112	113	113	24	105	106	106	24	106	107	108	23	103	105	106	24
7/20	115	116	117	24	112	112	112	25	105	105	105	25	106	107	108	25	102	104	105	25
7/21	114	116	118	24	111	112	112	24	107	109	111	24	107	109	111	22	103	105	106	23
7/22	118	119	120	24	111	112	113	24	109	109	110	22	109	110	111	24	103	105	106	24
7/23	117	118	119	24	113	114	115	24	109	109	110	24	109	110	111	24	103	104	106	24
7/24	---	---	---	0	112	112	113	24	106	108	109	24	107	108	109	24	103	104	106	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwtr-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	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
7/18	105	107	109	24	106	107	108	24	103	103	103	24	103	104	106	24	100	101	101	24
7/19	105	107	109	24	107	108	109	24	103	104	104	24	103	105	106	24	101	102	102	24
7/20	105	107	108	25	105	105	106	25	103	103	104	25	102	103	106	25	101	102	103	25
7/21	105	107	109	24	105	106	108	17	103	103	104	16	104	106	107	24	101	102	103	24
7/22	106	108	110	24	108	109	110	24	104	104	106	24	107	108	109	24	101	102	102	24
7/23	106	108	110	24	109	109	110	24	104	104	105	24	104	105	107	15	101	102	102	15
7/24	105	107	109	24	107	107	109	24	103	104	104	24	102	103	103	24	102	103	105	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	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
7/18	102	104	106	24	101	102	103	24	102	103	104	24	107	112	114	24	111	113	116	24
7/19	101	102	103	24	100	101	101	24	102	104	106	24	108	114	116	24	114	117	119	24
7/20	100	100	103	25	100	100	102	25	102	104	107	25	108	114	116	24	113	115	116	25
7/21	102	104	105	24	100	101	102	24	103	105	108	24	108	113	115	24	114	116	117	24
7/22	105	106	108	24	101	102	103	24	104	108	110	24	108	113	117	24	114	116	118	24
7/23	103	103	105	24	102	103	108	24	103	106	108	24	109	115	116	24	114	115	116	24
7/24	102	102	103	24	102	102	103	24	104	107	109	24	107	112	116	24	111	113	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
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
7/18	111	113	115	24	109	109	109	24	102	102	103	23	114	114	115	24	109	110	112	23
7/19	110	111	113	24	108	109	109	24	102	102	102	23	112	113	114	24	106	106	106	23
7/20	110	111	112	25	109	109	110	25	102	102	103	23	114	114	118	25	105	105	105	23
7/21	111	111	113	24	109	109	110	24	103	103	103	23	108	114	118	24	106	106	107	23
7/22	112	113	115	24	110	110	110	24	104	104	105	23	109	113	118	21	105	107	108	23
7/23	111	111	113	24	110	110	110	24	104	104	104	23	109	115	118	24	107	109	111	23
7/24	109	109	110	24	109	109	109	24	104	104	104	23	110	116	118	24	104	106	109	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas/Washugal</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>	#	
	Avg	Avg		High	hr		Avg	Avg		High	hr		Avg	Avg		High
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
7/18	116	117	117	24	107	107	108	23	113	114	118	23	109	112	114	24
7/19	114	114	114	24	108	108	109	23	112	113	116	23	109	110	112	24
7/20	113	114	114	25	106	107	108	23	111	111	111	23	107	108	110	25
7/21	114	115	115	24	108	108	109	23	112	114	116	23	107	109	111	24
7/22	114	115	115	24	108	109	109	23	113	114	117	23	106	108	110	24
7/23	114	115	116	24	106	107	108	23	112	114	116	23	107	110	113	24
7/24	113	114	115	24	104	104	105	23	111	114	118	23	108	111	114	24

HATCHERY RELEASE SUMMARY LAST 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		07-14-03	07-14-03	Klickitat Hatch.	Klickitat R
					561,000				
Total of Washington Dept. of Fish and Wildlife					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

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)	
07/11/2003	*	---	---	---	---	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
07/18/2003	*	---	---	---	---	40	68	0	0	100	16	0
07/19/2003	*	---	---	---	---	50	14	36	0	0	0	0
07/20/2003	*	---	---	---	---	20	0	12	0	50	11	0
07/21/2003		---	---	---	---	50	0	0	0	0	0	0
07/22/2003		---	---	---	---	0	14	18	5	0	0	0
07/23/2003	*	---	---	---	---	20	14	6	1	0	0	0
07/24/2003	*	---	---	---	---	0	0	0	0	100	45	0
Total:		0	0	0	0	330	315	377	11	1,250	389	820
# Days:		0	0	0	0	14	14	14	14	14	14	14
Average:		0	0	0	0	24	23	27	1	89	28	59
YTD		32,064	34,022	11,123	2,417	3,599,155	2,502,975	785,146	15,348	1,623,908	2,074,537	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)	
07/11/2003	*	---	---	---	---	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
07/18/2003	*	---	---	---	---	6,990	5,611	2,100	106	67,600	13,117	55,705
07/19/2003	*	---	---	---	---	9,520	5,686	1,368	60	32,400	4,264	56,550
07/20/2003	*	---	---	---	---	8,800	4,010	1,902	131	61,100	4,228	22,841
07/21/2003		---	---	---	---	5,420	3,260	1,602	415	37,800	6,054	39,468
07/22/2003		---	---	---	---	4,560	2,463	810	382	45,700	16,419	58,497
07/23/2003	*	---	---	---	---	3,590	4,144	2,208	280	85,862	10,169	43,433
07/24/2003	*	---	---	---	---	1,780	2,314	1,302	264	67,186	19,379	59,683
Total:		0	0	0	0	99,564	65,918	28,887	3,684	1,223,248	336,531	1,017,991
# Days:		0	0	0	0	14	14	14	14	14	14	14
Average:		0	0	0	0	7,112	4,708	2,063	263	87,375	24,038	72,714
YTD		1	118	74	355	1,344,162	626,799	318,366	22,603	6,616,188	2,288,991	7,555,102

* 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)
07/11/2003	*	---	---	---	---	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
07/18/2003	*	---	---	---	---	50	14	6	6	0	34	107
07/19/2003	*	---	---	---	---	80	57	0	2	100	125	0
07/20/2003	*	---	---	---	---	120	14	6	7	150	23	0
07/21/2003		---	---	---	---	80	14	6	4	100	24	243
07/22/2003		---	---	---	---	30	29	6	5	50	45	0
07/23/2003	*	---	---	---	---	40	114	12	7	100	133	0
07/24/2003	*	---	---	---	---	20	70	0	11	200	68	0
Total:		0	0	0	0	1,141	804	116	95	1,700	738	1,073
# Days:		0	0	0	0	14	14	14	14	14	14	14
Average:		0	0	0	0	82	57	8	7	121	53	77
YTD		0	0	0	17	132,056	116,808	37,503	41,603	112,849	257,550	2,116,177

		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)
07/11/2003	*	---	---	---	---	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
07/18/2003	*	---	---	---	---	200	57	0	0	0	31	0
07/19/2003	*	---	---	---	---	120	43	6	0	0	0	0
07/20/2003	*	---	---	---	---	140	0	30	3	0	0	0
07/21/2003		---	---	---	---	100	14	12	3	0	11	0
07/22/2003		---	---	---	---	120	0	6	0	0	23	0
07/23/2003	*	---	---	---	---	220	14	30	0	0	23	0
07/24/2003	*	---	---	---	---	220	50	0	1	0	0	0
Total:		0	0	0	0	2,643	745	182	41	0	246	436
# Days:		0	0	0	0	14	14	14	14	14	14	14
Average:		0	0	0	0	189	53	13	3	0	18	31
YTD		2,347	48,399	2,521	5,601	3,352,820	2,592,607	1,865,288	15,492	245,533	553,403	1,635,054

* See sampling comments

Two-Week Summary of Passage Indices

		COMBINED SOCKEYE										
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
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
07/18/2003	*	---	---	---	---	0	14	6	3	900	0	0
07/19/2003	*	---	---	---	---	0	0	0	3	300	47	0
07/20/2003	*	---	---	---	---	0	0	0	6	350	11	0
07/21/2003		---	---	---	---	0	0	0	3	500	11	0
07/22/2003		---	---	---	---	0	0	0	9	650	11	0
07/23/2003	*	---	---	---	---	0	0	0	4	501	23	126
07/24/2003	*	---	---	---	---	0	0	0	1	300	46	0
Total:		0	0	0	0	10	31	7	61	5,901	179	126
# Days:		0	0	0	0	14	14	14	14	14	14	14
Average:		0	0	0	0	1	2	1	4	422	13	9
YTD		1	0	0	11	16,384	8,123	4,544	10,273	838,431	724,814	1,260,938

* 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: 07/24

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	109,968	12,406	121,861	7,520	35,666	4,761	0	0	0	0	0	0
TDA	131,207	11,522	181,176	3,870	80,975	4,136	96,084	9,218	106,318	5,167	29,944	3,272	0	0	0	0	0	0
JDA	101,436	10,206	139,887	2,403	67,822	3,122	89,754	8,842	98,230	4,907	27,779	2,782	0	0	0	0	0	0
MCN	95,550	11,123	129,357	3,872	62,536	3,162	87,017	9,637	99,758	5,954	27,598	2,728	0	0	0	0	0	0
IHR	78,170	8,018	85,207	1,826	38,964	1,925	19,242	4,180	26,172	2,389	7,447	1,050	0	0	0	0	0	0
LMN	70,603	7,219	76,304	1,537	38,073	1,899	18,382	3,467	23,204	1,547	7,423	892	0	0	0	0	0	0
LGS	69,020	6,919	77,232	1,815	37,097	2,034	14,058	3,322	20,329	2,168	6,708	1,153	0	0	0	0	0	0
LWG	70,609	8,295	75,025	2,089	35,689	2,016	15,719	3,946	21,493	1,822	6,727	1,197	0	0	0	0	0	0
PRD	18,136	656	34,083	196	15,528	317	69,184	2,078	80,214	1,030	21,470	677	0	0	0	0	0	0
RIS	16,881	753	24,017	827	11,565	538	65,362	3,596	66,157	2,225	17,179	2,080	0	0	0	0	0	0
RRH	4,216	450	9,999	161	4,017	126	45,814	2,969	49,624	1,671	10,416	745	0	0	0	0	0	0
WEL	4,313	172	7,585	41	2,377	152	24,227	491	33,994	177	5,848	323	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	5	0	4	0	3	0	38,979	49,302	46,391	87,108	106,769	55,728	37,479
TDA	0	0	0	0	0	0	33,935	40,259	37,136	35,338	58,107	27,246	16,099
JDA	0	0	0	0	1	0	34,962	41,564	39,984	29,640	44,520	20,578	11,722
MCN	0	0	0	0	0	0	31,880	38,659	36,251	19,501	26,704	13,834	7,139
IHR	0	0	0	0	0	0	26	57	17	11,264	14,418	7,533	3,196
LMN	0	0	0	0	0	0	14	42	24	8,920	12,334	6,841	3,048
LGS	0	0	0	0	0	0	11	32	26	6,536	10,177	4,249	2,775
LWG	0	0	0	0	0	0	11	50	24	19,107	15,187	7,230	4,737
PRD	2	0	0	0	1	0	35,375	46,027	43,381	1,674	2,121	987	n/a
RIS	9	0	3	0	1	0	33,592	40,104	36,992	945	1,309	618	614
RRH	1	0	18	0	1	0	28,449	9,810	20,899	714	938	371	428
WEL	0	0	0	0	0	0	23,535	5,577	17,503	218	457	127	135

RIS and RRH are through 07/23, WEL is through 07/20.

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: 7/25/03

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

		07/12/03 TO 07/25/03					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	98,881	330	1,135	10	2,625	102,981
	Sum of NumberBarged	111,618	304	1,470	8	2,699	116,099
	Sum of NumberBypassed	75	0	0	0	0	75
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	2,456	26	17	2	72	2,573
LGS	Sum of NumberCollected	65,918	315	804	31	745	67,813
	Sum of NumberBarged	65,642	267	709	26	715	67,359
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,350	48	26	5	20	1,449
LMN	Sum of NumberCollected	28,887	377	116	7	182	29,569
	Sum of NumberBarged	25,683	399	123	9	187	26,401
	Sum of NumberBypassed	2,627	0	0	0	0	2,627
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	371	5	0	0	9	385
MCN	Sum of NumberCollected	1,223,050	1,250	1,700	5,900		1,231,900
	Sum of NumberBarged	1,187,504	1,218	1,614	5,870		1,196,206
	Sum of NumberBypassed	0	0	0	0		0
	Sum of Numbertrucked	0	0	0	0		0
	Sum of TotalProjectMortalities	35,546	32	86	30		35,694
Total Sum of NumberCollected		1,416,736	2,272	3,755	5,948	3,552	1,432,263
Total Sum of NumberBarged		1,390,447	2,188	3,916	5,913	3,601	1,406,065
Total Sum of NumberBypassed		2,702	0	0	0	0	2,702
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		39,723	111	129	37	101	40,101

YTD Transportation Summary

TO: 07/25/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,101,419	2,576,940	89,214	9,748	2,334,159	6,111,480
	Sum of NumberBarged	1,078,606	2,470,864	88,553	9,549	2,263,369	5,910,941
	Sum of NumberBypassed	2,823	45,590	7	0	53,142	101,562
	Sum of NumberTrucked	816	54,208	40	78	15,402	70,544
	Sum of TotalProjectMortalities	17,452	5,979	594	121	2,030	26,176
LGS	Sum of NumberCollected	544,434	1,849,259	86,844	5,435	1,946,035	4,432,007
	Sum of NumberBarged	536,168	1,795,212	86,368	5,398	1,942,229	4,365,375
	Sum of NumberBypassed	0	22	0	0	3	25
	Sum of NumberTrucked	5	52,601	0	0	850	53,456
	Sum of TotalProjectMortalities	6,025	3,363	407	37	2,905	12,737
LMN	Sum of NumberCollected	267,437	463,201	26,453	3,306	1,229,652	1,990,049
	Sum of NumberBarged	231,001	440,185	25,757	3,261	1,150,782	1,850,986
	Sum of NumberBypassed	34,112	6,866	681	0	75,945	117,604
	Sum of NumberTrucked	60	15,149	0	40	1,637	16,886
	Sum of TotalProjectMortalities	1,006	1,001	15	5	1,288	3,315
MCN	Sum of NumberCollected	5,962,820	1,041,642	71,192	542,828	155,020	7,773,502
	Sum of NumberBarged	3,625,451	5,382	8,369	7,838	682	3,647,722
	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	56,842	1,083	219	423	211	58,778
Total Sum of NumberCollected		7,876,110	5,931,042	273,703	561,317	5,664,866	20,307,038
Total Sum of NumberBarged		5,471,226	4,711,643	209,047	26,046	5,357,062	15,775,024
Total Sum of NumberBypassed		2,317,462	1,087,562	63,292	534,272	283,174	4,285,762
Total Sum of NumberTrucked		881	121,958	40	118	17,889	140,886
Total Sum of TotalProjectMortalities		81,325	11,426	1,235	586	6,434	101,006

