



Fish Passage Center

Weekly Report #03 - 14

June 20, 2003

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Summary of Events:

Water Supply: Precipitation for the month of June, through June 16 continues to be below average throughout the Columbia basin. The October through June precipitation for the Columbia above Grand Coulee, the Columbia above The Dalles and the Snake River above Ice Harbor areas are all near 90% of the historical average.

Table 1. Summary of June precipitation and cumulative October through June precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	June 1-16, 2003		Cumulative October, 1 2002 to June 16, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.43	66	17.33	89
Snake River Above Ice Harbor	0.07	9	13.60	94
Columbia Above The Dalles	0.58	39	17.45	93
Kootenai	0.41	69	16.55	83
Clark Fork	0.62	40	12.37	93
Flathead	0.52	63	14.83	84
Pend Oreille/Spokane	0.76	35	24.99	95
Central Washington	0.31	10	8.27	108
Snake River Plain	0.51	1	6.46	71
Salmon/Boise/Payette	0.69	12	16.97	100
Clearwater	1.15	13	26.63	104
SW Washington Cascades/Cowlitz	1.22	23	56.52	88
Willamette Valley	1.11	8	50.75	93

The average flows for the past week, June 13 through June 19 at Lower Granite were 83.3 kcfs, 255 kcfs at McNary and 162.8 kcfs at Priest Rapids. The seasonal average flow for the April 10 through June 19 period is 237.9 kcfs at McNary Dam, and

142.1 kcfs at Priest Rapids for the same period. The seasonal average flow for the April 3 through June 19 period at Lower Granite Dam is 90.2 kcfs. The seasonal average flow target for the April 3 through June 20, period at Lower Granite Dam is 89 kcfs, therefore successfully meeting the Biological Opinion flow target for Lower Granite. The seasonal average Biological Opinion target for McNary Dam is 220 kcfs.

For the past week, June 13 through June 19, the Libby Reservoir has continued to fill, 2.3 feet from elevation 2450.6 to 2452.9 feet on June 19. Daily average inflow to the reservoir has varied from 37.6 kcfs to 29.1 kcfs.

Hungry Horse reservoir has filled through the June 13 to June 19 period, a total of 3.4 feet, from elevation 3552.1 to 3555.5 feet. Daily average inflow has varied from 8.4 to 9.4 kcfs with outflows maintained at 2.3 kcfs. The project is 5 feet from full elevation.

Grand Coulee has filled 1.3 feet from June 13 to June 19 reaching elevation 1284.4 feet on June 19. The daily average outflow from Grand Coulee for this period had ranged from 114.6 kcfs to 161.1 kcfs.

Dworshak Reservoir filled 2.47 feet from June 13 through June 19, reaching elevation 1597.64. The daily average outflow at Dworshak has ranged from 2.2 to 6.0 kcfs. The inflow to Dworshak over this period has ranged from 8.2 to 10.1 kcfs.

Brownlee reservoir was passing inflow maintaining the project near elevation 2076 through the past week, June 13 through June 19.

The USBR Upper Snake River basin reservoir system is presently at 60% capacity, while the USBR Boise River basin and Payette River Basin reservoirs are at 95% and 101% capacity respectively.

Spill: As flow levels decreased this week from last weeks levels, the average proportion of water being spill this week at Snake River projects remained nearly unchanged at Lower Granite Dam (25% spill), increased 20% at Little Goose Dam (24% spill), increased 125% at Lower Monumental Dam (42% spill), and increased 11% at Ice Harbor Dam (60% spill) over last weeks levels. At lower Columbia River projects the average proportion of water being spill this week decreased 13% at McNary Dam (34% spill), increased 14% at John Day Dam (27% spill), increased 8% at The Dalles Dam (39% spill), and increased 10% at Bonneville Dam (44% spill) over last weeks levels.

Smolt Monitoring:

Spring Migration- The spring migration is winding down throughout the basin. Passage indices of spring migrants entering the hydro system at Lower Granite Dam in the Snake River were 48 to 74 percent lower this week, averaging 610 yearling chinook, 2,523 steelhead, 471 coho and 37 sockeye per day. The decrease in passage indices of spring migrants in the Mid-Columbia River at Rock Island Dam was even greater at 84 to 91 percent lower this week, averaging 10 yearling chinook, 18 steelhead, 304 coho, and 4 sockeye per day. Bonneville Dam also had lower passage indices this week with the greatest drop occurring for yearling chinook (61%) and steelhead (73%), averaging 7,300 yearling chinook and 11,967 steelhead per day. The drop for coho and sockeye at Bonneville Dam was only 35 to 41 percent, averaging 15,118 coho and 5,934 sockeye per day.

Summer Migration- The summer migration was off to a rapid start with the high flows of the prior week, but as flows began to drop this week so did the passage indices of subyearling chinook at Lower Granite and Rock Island dams. This week saw subyearling chinook passage indices averaging 25,185 fish per day at Lower Granite Dam and 114 fish per day at Rock Island Dam, down 41 and 61 percent, respectively from the prior week. In the lower Columbia River at Bonneville Dam, the subyearling chinook passage indices showed a

gain of 22% this week, averaging 66,378 fish per day. The largest short-term increase in passage indices of subyearling chinook so far this season occurred at McNary Dam between June 16 and 18 when passage indices jumped five fold from 68,216 fish to 342,558 fish.

Hatchery Releases - The preliminary hatchery total of juvenile salmonids released above Bonneville Dam for the 2003 migration season will approximate 86.9 million from Columbia River Basin hatcheries. About 17.4 million juvenile salmonids were released or releases were initiated during the past two weeks, with an additional 18 million fish scheduled for release in the upcoming two weeks.

Snake River - About 27.9 million smolts will be released in the Snake River Basin from State, Federal, and Tribal hatcheries and acclimation ponds for the 2003 migration year. All yearling spring, summer, and fall chinook have been released from hatcheries, acclimation facilities, or directly released river systems in Idaho, SE Washington, and NE Oregon.

During fall 2002, approximately 140,000 sockeye were mainly released in the upper Salmon R basin lakes with most expected to migrate this spring. About 1.2 million yearling coho salmon were released in the Clearwater River basin for the 2003 migration season. Releases of juvenile steelhead (9.7 million scheduled) have been completed. Releases occurred throughout the Snake, Salmon, Clearwater, Imnaha, Grande Ronde, and Tucannon River basins for the 2003 migration.

Subyearling fall chinook were released during the past four weeks both in the Snake River (Hells Canyon and Acclimation Ponds) and also in the Clearwater River (direct stream and Acclimation Ponds). The on-site subyearling fall chinook from Lyons Ferry Hatchery were also released in June. This year's release of fall chinook in the Snake River basin ranks second highest in the FPC database.

Mid-Columbia River - About 22.1 million yearling and subyearling salmon species will be released in the Mid-Columbia River and its tributaries during the 2003 migration year. All scheduled yearling spring and summer chinook from the Mid-Columbia hatcheries and acclimation ponds are completed for the year.

Subyearling fall and summer chinook releases were initiated in mid-late May in the Yakima River and are on-going (volitional release) from Ringold Hatchery with Priest Rapids Hatchery beginning an every other day release of their "sub" fall chinook from 5 separate ponds starting June 12. The Turtle Rock summer chinook will be the latest group out (early July schedule). Subyearling summer/fall chinook comprise the highest percentage and numbers of juvenile salmon released in the Mid-Columbia River (about 14.5 million scheduled).

About 209,000 sockeye were released last fall into Lake Wenatchee; there will be no sockeye releases made into the Okanogan R basin in 2003. Summer and fall releases of sockeye into the Wenatchee River basin will begin this week with 95,000 subyearling sockeye liberated in the White River. These fish (the majority) will migrate in 2004 from Lake Wenatchee after rearing in the lake for about 10-months.

About 1.9 million yearling coho were released in the Yakama River basin, the Wenatchee River basin and the Methow River basin this migration season.

Release of approximately 1.3 million juvenile steelhead was completed by the end of May. Steelhead were released in the Okanogan, Methow, Entiat, Wenatchee, and mainstem Mid-Columbia Rivers for the 2003 migration.

Lower Columbia River - The Lower Columbia River Zone will release about 36.9 million salmon and steelhead for the 2003 migration. All yearling spring, fall, steelhead, and coho salmon were released by the end of May.

Release of yearling spring chinook from State, Tribal and Federal hatcheries is completed for the year. Yearling spring chinook were released in the Klickitat, Umatilla, Deschutes, Hood, Wind,

and Little White Salmon rivers with yearling fall chinook released in the Umatilla River basin.

Yearling coho salmon have been released in the Klickitat, Little White Salmon, and Umatilla rivers to date. Klickitat Hatchery completed their volitional release of about 1.0 million yearling coho the end of May.

Summer steelhead were released in the Klickitat, possibly Little White Salmon (Drano L), Big White Salmon, Umatilla, Deschutes, and Hood rivers this year. Releases are completed at all the sites. Winter steelhead were released in the Hood River and Big White Salmon River for the 2003 season.

Subyearling fall chinook were released into the Umatilla River in May. Subyearling fall chinook are scheduled for release in the Klickitat (June 3-30) and Little White Salmon (June 26) rivers. About 7 million subyearling fall chinook (URB) will be released in these three river basins.

Adult Fish Passage - Adult spring chinook counts throughout the basin are nearing completion for the year. The 2003 adult return of spring chinook is notable because of age-class composition and resulting earlier timing of the return. Preliminary age-class data collected by the Columbia River Inter-tribal Fish Commission shows that the 2003 return was comprised 54% of 5 year olds(outmigrating in 2000) and 38% of four year olds(out migrating in 2001). Historically, the annual spring chinook adult return has been comprised of 15% five year olds and 70-80% four year olds. Final count of adult and jack spring chinook salmon at Lower Granite Dam was 70,609 and 8,295, respectively. The adult count at Lower Granite was almost double the 10-year average count and 94% of the year 2002 count. The earlier timing at LGR illustrates the large proportion of 5 year old returning fish. This year's spring chinook run ranked the third highest (behind only 2001 and 2002) recorded since the project began counting in 1975. In addition, the jack count of spring chinook at Lower Granite was the 2nd highest on record, behind only the 10,318 that returned in year 2000 and 4-times greater than the 10-year average. The final count of adult spring chinook at Priest Rapids Dam was 17,768. This

total compares to 34,083 that returned in 2002 and 15,528 for the 10-year average. The count of adult spring chinook at Prosser Dam in the lower Yakama River exceeds 4,500 for the season. Of the fish counted at Rock Island Dam, the majority has entered the Wenatchee River and tributaries as only 4,600 of the 16,900 (RI count) have past Rocky Reach Dam. Spring chinook passing Rocky Reach will enter the Entiat, Methow, and Okanogan rivers and tributaries. At Priest Rapids, jack counts were about 2-3 times greater than the 2002 and 10-year average.

Adult summer chinook passage at Bonneville Dam ranged between 1,300 and 3,000 for the week ending June 19. The cumulative count now exceeds 43,000 and this was about 84.5% and 303% of the respective year 2002 and 10-year average count at Bonneville. Based on PIT tag data from Bonneville Dam, the bulk of the chinook are now destined for the Mid-Columbia River rather than the Snake River which are decreasing through time. As is normal, the early portion of the summer chinook run is bound for the Snake River basin with Mid-Columbia summer chinook prevalent from mid-June through July. No summer chinook are released from hatcheries from below McNary Dam, so passage of summer chinook from Bonneville to McNary Dam should have fairly consistent passage totals moving upstream through the lower Columbia and into the Snake and Mid-Columbia Reaches.

Summer chinook counts at Ice Harbor and upper Snake River projects have been very strong this season and are about 3-times greater than the 10-year average through June 19. The cumulative count at Ice Harbor stands at 9,239. Numbers of adult summer chinook at Priest Rapids Dam rose from a low count of 256 early in the week to over 1,200 by June 18. This year's summer chinook run into the Columbia River should be excellent again.

Passage of sockeye salmon increased through the week at Bonneville Dam and these fish were moving and passing the upstream projects. The cumulative count past Bonneville Dam through June 19 was 5,486, and this total was about 7% greater than the 2002 count, but only 1/2 the 10-year average. As a point of interest, about 5 adult

sockeye have been counted at Ice Harbor Dam to date.

Numbers of steelhead at Bonneville Dam and upstream projects continued to increase through the week with about 300 adult steelhead counted per day during the final three days of counting. A portion of this early returning steelhead group is destined for some of the lower (Bonneville pool) tributaries such as the Wind and Klickitat rivers; however, steelhead counts at The Dalles and John Day projects have risen to about 100 per day.

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
06/06/03	140.6	0.2	144.3	0.0	159.0	8.9	154.5	16.1	164.3	26.0	169.5	51.0	164.6	107.9
06/07/03	118.9	0.2	118.7	0.0	145.8	12.4	147.8	19.2	159.8	26.0	172.0	51.9	174.4	114.9
06/08/03	90.7	0.2	97.5	0.0	121.6	8.1	123.1	17.2	137.8	23.8	148.3	44.7	151.1	100.0
06/09/03	134.2	0.2	133.3	0.0	153.2	8.9	148.8	17.8	160.3	29.9	162.3	48.7	151.6	100.3
06/10/03	130.4	0.2	133.1	0.0	160.3	10.0	160.4	25.3	171.5	36.5	180.5	54.3	181.9	120.1
06/11/03	149.5	0.2	148.1	0.0	165.6	10.0	160.6	24.7	170.1	34.9	177.2	53.3	176.3	115.3
06/12/03	148.1	0.2	145.1	0.0	159.8	10.0	156.1	24.1	164.7	34.0	171.5	51.6	174.5	112.1
06/13/03	136.3	0.2	142.9	0.0	164.8	10.0	164.9	24.4	172.8	33.7	184.9	55.6	189.2	120.8
06/14/03	130.8	0.2	131.9	0.0	145.1	9.1	143.5	20.8	152.0	28.6	155.2	46.5	157.2	100.4
06/15/03	114.4	0.2	117.3	0.0	130.7	8.2	129.6	15.0	136.4	21.5	141.7	42.6	139.8	81.2
06/16/03	161.1	0.5	154.5	3.4	166.4	10.0	161.8	23.4	166.7	31.9	183.7	55.2	184.1	104.2
06/17/03	143.9	0.2	147.1	0.0	164.4	9.6	162.4	22.4	170.7	31.1	173.4	52.2	177.3	102.4
06/18/03	117.6	0.2	128.2	0.0	146.1	9.3	145.5	21.8	152.3	30.0	173.7	51.8	175.2	102.0
06/19/03	115.2	0.2	107.2	0.0	112.8	7.9	113.0	21.8	122.9	29.9	115.2	32.8	116.8	68.0

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
06/06/03	1.7	0.0	20.1	21.2	114.7	27.0	114.3	17.6	112.5	22.6	119.9	59.9
06/07/03	1.7	0.0	20.2	21.3	108.7	24.5	105.2	16.2	103.2	19.4	108.7	59.2
06/08/03	1.8	0.0	20.5	20.2	111.0	26.0	108.6	14.8	106.7	17.1	109.6	62.8
06/09/03	3.0	0.0	19.7	21.0	109.0	31.3	106.9	19.9	108.8	14.1	112.9	60.2
06/10/03	5.6	0.0	20.3	21.3	110.5	31.0	109.8	28.7	109.4	18.6	110.3	54.8
06/11/03	6.3	0.0	17.8	21.0	109.7	25.8	108.5	28.8	108.1	21.1	110.8	58.1
06/12/03	6.2	0.0	17.6	21.0	101.8	20.8	103.1	22.5	103.2	25.5	107.3	68.1
06/13/03	6.2	0.0	16.3	18.3	97.3	20.1	97.1	18.6	97.4	29.5	98.9	58.2
06/14/03	2.2	0.0	17.4	15.9	86.0	20.3	85.3	18.6	87.2	32.6	92.3	46.0
06/15/03	2.2	0.0	14.8	15.3	80.9	20.8	79.4	19.6	80.7	36.1	82.7	52.4
06/16/03	6.0	0.0	16.8	19.1	82.2	20.8	80.8	19.7	80.3	35.9	83.2	61.1
06/17/03	5.9	0.0	14.1	18.1	83.0	20.4	83.3	19.6	83.1	36.2	87.2	53.3
06/18/03	5.9	0.0	14.1	15.9	80.2	20.3	79.4	19.3	78.7	35.5	81.5	41.1
06/19/03	5.9	0.0	---	---	73.3	20.4	73.0	20.1	72.4	33.3	76.4	50.2

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		
06/06/03	262.8	92.5	267.8	62.7	272.2	93.7	295.2	90.1	70.1	128.3
06/07/03	285.9	115.1	275.8	62.9	265.8	94.0	280.9	134.1	12.9	127.2
06/08/03	283.9	108.1	269.0	65.7	281.5	99.2	289.2	129.6	30.8	122.1
06/09/03	265.0	90.4	259.4	62.4	258.9	91.6	277.7	88.6	56.1	126.4
06/10/03	278.5	108.1	266.9	62.6	268.5	95.1	290.9	89.2	63.5	131.4
06/11/03	305.2	130.1	299.3	71.0	296.0	110.2	313.7	141.3	44.9	120.8
06/12/03	304.8	129.1	297.3	70.7	298.5	117.3	308.2	144.3	40.7	116.5
06/13/03	260.9	87.9	258.7	70.4	260.7	100.2	281.9	95.4	69.6	110.2
06/14/03	284.4	109.4	287.3	72.2	283.2	108.9	294.6	96.4	74.6	116.9
06/15/03	239.1	65.1	212.0	62.2	219.4	87.3	260.1	154.3	19.5	79.7
06/16/03	247.0	87.0	253.0	70.6	243.6	94.6	244.1	152.0	0.2	85.3
06/17/03	255.0	80.5	254.6	69.9	258.1	101.7	281.8	92.9	67.0	115.3
06/18/03	266.0	95.2	253.2	64.0	255.6	99.5	275.9	93.3	63.4	109.9
06/19/03	201.8	79.0	230.9	60.8	237.6	93.9	268.1	146.4	20.5	94.5

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													
	05/06/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	06/10/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	06/17/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Little Goose Dam													
	06/11/03	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0		
	06/18/03	Chinook + Steelhead	48	1	1	2.08%	0.00%	1	0	0	0		
Lower Monumental Dam													
	06/16/03	Chinook + Steelhead	18	0	0	0.00%	0.00%	0	0	0	0		
McNary Dam													
	06/13/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	06/15/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	06/19/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Bonneville Dam													
	06/12/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
	06/16/03	Chinook + Steelhead	6	0	0	0.00%	0.00%	0	0	0	0		
	06/19/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0		
Rock Island Dam													
	06/12/03	Chinook + Steelhead	50	1	1	2.00%	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>		
6/6	99	99	100	24	124	125	126	24	110	111	111	24	110	110	111	24	110	111	111	23
6/7	99	100	100	24	124	125	125	24	111	112	113	24	110	110	110	24	111	111	112	23
6/8	99	99	100	24	124	124	125	24	113	113	113	24	111	112	112	24	112	112	113	23
6/9	99	99	100	24	122	122	123	24	112	112	113	24	111	111	112	24	112	112	112	19
6/10	99	99	100	24	122	123	124	24	113	113	113	24	110	111	111	24	111	112	112	23
6/11	99	99	100	24	121	122	123	24	113	113	113	24	109	109	110	24	111	111	112	23
6/12	100	102	103	24	121	122	123	24	114	114	114	24	109	109	110	24	111	112	112	23
6/13	104	106	106	24	120	122	123	24	114	114	115	24	108	109	109	24	111	111	112	23
6/14	105	105	106	24	120	121	122	24	114	114	114	24	107	107	108	24	111	111	111	23
6/15	105	106	106	24	119	121	122	24	114	114	114	24	108	109	109	24	110	111	111	23
6/16	105	105	106	24	119	121	122	24	114	114	114	24	108	108	109	24	111	111	112	23
6/17	105	106	106	24	119	121	122	24	114	115	115	24	108	109	109	24	112	112	112	23
6/18	107	108	108	24	118	121	122	24	116	117	117	24	110	110	111	24	113	113	113	23
6/19	107	107	108	24	118	120	122	24	117	117	118	24	113	114	114	23	113	113	114	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>		
6/6	110	110	110	23	110	110	110	24	112	112	114	24	112	112	113	23	112	113	113	22
6/7	111	111	112	23	110	111	111	24	114	116	121	24	112	113	113	23	113	113	114	21
6/8	111	112	113	23	111	112	113	24	112	113	113	24	114	115	116	24	114	115	116	23
6/9	111	111	112	23	110	111	111	24	112	112	113	24	112	112	113	24	113	113	114	21
6/10	111	111	112	23	110	110	111	23	112	112	113	23	111	112	112	23	112	113	113	23
6/11	110	111	111	23	110	110	111	24	112	112	113	24	111	111	112	24	112	112	113	23
6/12	111	111	112	23	111	111	111	23	112	112	113	23	112	112	112	22	112	113	113	22
6/13	111	111	112	23	110	111	111	24	112	112	113	24	111	111	112	21	112	112	113	21
6/14	110	110	111	23	109	109	109	23	111	111	112	23	110	110	110	24	111	111	112	23
6/15	110	110	110	23	109	110	111	24	111	111	112	24	109	110	110	23	110	111	111	22
6/16	111	112	115	23	110	110	111	24	111	112	112	24	110	111	112	23	111	112	113	22
6/17	112	112	113	23	111	112	112	24	113	113	113	24	112	112	113	22	112	113	114	19
6/18	113	113	115	15	112	113	113	24	113	114	114	24	113	113	114	22	113	114	115	22
6/19	---	---	---	0	112	112	113	22	113	113	114	22	113	113	113	23	113	114	114	22

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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>		
6/6	111	112	113	23	115	116	118	22	---	---	---	0	---	---	---	0	---	---	---	0
6/7	112	113	114	22	116	117	119	22	113	114	116	24	116	116	116	24	116	117	120	24
6/8	113	113	114	23	117	117	118	22	114	114	114	24	116	116	117	24	115	115	116	24
6/9	112	113	114	22	117	117	119	21	114	116	119	24	116	116	117	24	112	114	116	24
6/10	111	112	112	22	116	117	118	19	111	112	113	24	115	115	116	24	113	114	114	24
6/11	112	112	113	23	116	117	118	20	---	---	---	0	---	---	---	0	---	---	---	0
6/12	112	112	113	21	117	118	119	21	---	---	---	0	---	---	---	0	---	---	---	0
6/13	112	112	112	21	116	117	118	20	111	111	111	24	115	115	116	24	112	113	114	24
6/14	111	111	111	24	115	116	117	22	109	110	110	24	114	115	115	24	111	113	115	24
6/15	110	110	111	22	114	115	116	19	110	111	111	24	115	115	116	24	112	112	113	24
6/16	111	111	112	23	115	116	117	22	111	111	113	24	115	115	116	24	114	114	115	24
6/17	112	113	113	21	116	117	118	21	113	114	116	24	115	116	116	24	115	115	116	24
6/18	113	113	113	22	117	118	118	22	---	---	---	0	---	---	---	0	---	---	---	0
6/19	112	113	113	23	117	117	118	20	---	---	---	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 Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
6/6	---	---	---	0	115	116	116	24	107	108	109	24	103	104	105	24	107	107	108	24
6/7	117	118	119	24	116	117	117	24	107	108	109	24	103	104	105	24	106	107	108	24
6/8	117	118	119	24	116	116	117	24	105	105	106	24	103	104	104	24	106	107	107	20
6/9	116	117	119	24	115	115	116	24	103	105	106	24	103	104	105	24	106	107	107	22
6/10	117	118	118	24	113	114	116	24	102	105	110	24	103	103	104	24	106	106	107	24
6/11	---	---	---	0	113	114	115	24	103	104	106	24	103	104	104	24	106	106	107	24
6/12	---	---	---	0	114	115	115	24	104	105	106	24	103	104	104	23	106	107	107	24
6/13	---	---	---	0	113	113	113	24	104	105	107	24	102	103	103	24	105	106	107	24
6/14	---	---	---	0	113	114	115	24	104	106	114	24	102	103	104	24	105	106	106	24
6/15	118	118	119	8	113	114	114	24	103	104	105	24	102	103	104	24	105	106	107	24
6/16	120	120	121	24	113	114	115	24	103	103	104	16	102	103	104	24	105	106	107	24
6/17	120	121	122	24	115	117	117	24	104	104	108	24	103	103	104	24	105	106	107	24
6/18	---	---	---	0	115	115	116	24	104	105	106	24	103	104	104	24	105	106	106	24
6/19	---	---	---	0	112	113	114	24	105	105	110	24	102	103	103	24	104	105	106	23

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwtr-Lewiston			#	Lower Granite			#	L. Granite Tlwr			#	Little Goose			#	L. Goose Tlwr			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
6/6	102	103	104	24	108	108	111	24	113	118	118	24	116	116	118	24	115	116	117	24
6/7	102	104	104	24	108	109	111	24	113	117	118	23	113	115	117	24	113	115	116	24
6/8	102	103	104	24	107	107	108	24	113	118	118	23	112	113	115	24	112	113	114	24
6/9	102	103	104	24	107	107	108	24	115	118	118	24	111	112	113	24	112	114	115	24
6/10	102	103	104	24	106	106	107	24	114	117	119	23	110	111	113	24	113	115	115	24
6/11	102	103	104	24	105	105	106	24	112	117	118	24	110	111	112	24	113	116	124	23
6/12	102	102	104	16	105	106	107	24	111	118	118	24	110	110	111	24	112	115	117	24
6/13	---	---	---	0	105	105	106	24	111	118	118	24	109	111	112	24	112	114	115	24
6/14	---	---	---	0	104	104	105	24	111	118	119	24	108	109	110	24	111	115	116	24
6/15	---	---	---	0	103	104	104	24	112	119	120	24	107	108	108	24	112	116	116	24
6/16	103	103	104	9	104	105	106	24	112	119	121	24	109	110	113	24	112	116	116	24
6/17	102	103	105	24	106	108	111	24	112	119	119	23	111	112	113	24	113	116	116	24
6/18	102	102	104	15	106	106	107	24	112	119	120	24	112	112	113	24	114	116	117	24
6/19	---	---	---	0	105	105	106	24	112	119	120	24	110	111	111	23	113	116	124	23

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 Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High	
6/6	119	119	122	24	119	119	120	24	119	120	122	24	116	117	117	24	118	119	122	24
6/7	117	118	121	24	117	118	119	24	118	119	121	24	116	117	119	24	117	118	121	24
6/8	116	117	118	24	117	118	120	24	117	117	118	24	116	117	118	24	117	117	119	24
6/9	113	114	114	24	114	115	115	24	115	115	116	24	116	117	118	24	116	116	117	24
6/10	111	112	112	24	115	117	129	24	112	113	114	24	115	116	116	24	113	113	115	24
6/11	112	113	113	24	117	118	119	23	111	111	112	24	115	116	118	24	110	111	113	24
6/12	113	114	115	24	117	118	119	21	112	113	113	24	116	117	118	24	111	112	113	24
6/13	114	116	118	24	118	118	119	24	112	112	112	24	115	117	118	24	112	113	114	24
6/14	111	112	113	24	118	118	119	13	111	112	112	24	114	115	116	24	111	111	113	24
6/15	110	112	113	24	118	119	120	19	112	113	113	24	114	114	117	24	112	114	116	24
6/16	112	114	115	24	118	118	119	4	113	114	115	21	114	115	116	24	112	113	117	24
6/17	114	115	119	24	120	120	124	8	116	117	119	24	115	116	120	24	114	115	117	24
6/18	114	116	117	24	119	119	119	1	117	118	118	20	113	114	115	23	114	114	117	24
6/19	114	115	115	24	118	118	118	1	116	116	116	24	114	114	115	24	113	113	113	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>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
6/6	116	117	118	24	118	119	120	21	118	119	122	23	115	117	117	24	117	117	118	23
6/7	116	118	119	24	119	119	119	24	119	121	123	23	116	116	118	24	117	118	119	23
6/8	116	117	118	24	119	119	119	21	118	119	119	23	115	116	117	24	116	116	117	23
6/9	115	115	116	24	118	118	118	24	115	115	116	19	116	117	118	24	112	112	113	23
6/10	112	113	115	24	118	119	120	24	112	113	114	23	114	118	119	24	110	111	113	23
6/11	111	112	113	24	120	120	120	24	109	109	110	23	113	118	119	24	110	113	116	23
6/12	112	113	113	24	120	120	120	24	108	108	108	23	113	117	119	24	110	113	115	23
6/13	112	112	112	24	118	119	120	24	107	108	108	23	112	118	119	24	110	113	114	23
6/14	110	111	112	24	118	119	119	24	108	108	109	23	112	118	119	24	109	112	114	23
6/15	111	111	113	24	116	116	119	4	108	108	109	23	112	116	118	24	111	114	116	23
6/16	114	115	117	24	116	118	119	21	110	112	114	23	113	118	119	24	111	114	117	23
6/17	114	115	116	24	116	119	119	24	112	113	116	23	114	118	119	24	113	116	118	23
6/18	114	114	115	24	117	119	119	24	112	112	112	23	114	117	119	24	110	111	111	23
6/19	113	113	114	24	116	118	119	24	111	111	112	23	113	116	117	24	108	110	111	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>		#	
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg
6/6	120	120	121	24	117	118	118	23	116	117	118	23	115	116	118	24
6/7	120	121	122	24	118	118	119	23	119	119	119	23	116	118	119	24
6/8	120	120	121	24	115	117	118	23	117	118	118	23	115	116	117	24
6/9	117	118	118	24	111	112	113	23	112	114	116	23	112	112	113	24
6/10	116	117	118	24	108	109	110	23	111	113	115	23	109	110	112	24
6/11	117	118	120	24	109	110	111	23	114	115	115	23	109	112	113	24
6/12	117	118	120	24	111	112	113	23	116	117	117	23	111	112	113	24
6/13	116	118	119	24	111	112	112	23	113	114	117	23	111	112	113	24
6/14	116	118	119	24	110	111	112	23	113	114	118	23	110	112	115	24
6/15	116	118	119	24	111	112	113	23	118	119	119	23	112	115	116	24
6/16	117	119	120	24	113	113	113	23	119	120	120	23	115	117	118	24
6/17	119	120	121	24	115	115	116	23	116	117	119	23	115	116	118	24
6/18	117	117	119	24	112	113	115	23	113	115	117	23	111	112	113	24
6/19	115	116	116	24	108	109	110	23	116	116	117	23	110	112	112	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary									
From:	6/6/2003		to	6/19/2003					
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Cherry Lane Hatchery	CH0	FA	2003	250,000	05-27-03	06-07-03	Cherry Lane Hatchery	Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2003	300,000	06-16-03	06-30-03	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2003	500,000	05-28-03	06-06-03	Big Canyon (Clearwater R)	Clearwater River M F
Nez Perce Tribe Total					1,050,000				
Umatilla Tribe	Oxbow-Idaho	CH0	FA	2003	332,226	06-01-03	06-16-03	Hells Canyon Dam	Snake River
Umatilla Tribe Total					332,226				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2003	426,747	06-16-03	07-07-03	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	FA	2003	4,000,000	06-03-03	06-30-03	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2003	100,019	06-09-03	06-09-03	Cpt John Acclim Pond	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2003	200,092	06-06-03	06-06-03	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2003	3,500,000	06-06-03	06-23-03	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2003	6,700,000	06-12-03	06-25-03	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH0	SU	2003	658,745	06-16-03	07-07-03	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2003	463,000	06-10-03	06-20-03	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					16,048,603				
Grand Total					17,430,829				

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary									
From:	6/20/2003		to	7/3/2003					
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2003	300,000	06-16-03	06-30-03	Cpt John Acclim Pond	Snake River
Nez Perce Tribe Total					300,000				
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH0	FA	2003	2,000,000	06-26-03	06-26-03	Little White Salmon Hatchery	Little White Salmon River
U.S. Fish and Wildlife Service Total					2,000,000				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SU	2003	426,747	06-16-03	07-07-03	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	FA	2003	4,000,000	06-03-03	06-30-03	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2003	3,500,000	06-06-03	06-23-03	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2003	6,700,000	06-12-03	06-25-03	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH0	SU	2003	658,745	06-16-03	07-07-03	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2003	463,000	06-10-03	06-20-03	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					15,748,492				
Grand Total					18,048,492				

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)
06/06/2003 *	---	14	27	---	935	14,587	515	212	4,780	15,411	26,330
06/07/2003 *	---	4	---	---	1,651	22,976	634	244	---	11,509	22,961
06/08/2003 *	---	3	---	---	1,685	6,072	1,167	120	3,891	6,595	28,946
06/09/2003 *	---	3	---	---	2,177	3,012	729	53	---	4,987	21,041
06/10/2003 *	---	11	---	---	1,119	14,483	758	44	10,896	2,745	10,372
06/11/2003 *	---	8	---	---	971	42,720	782	54	---	1,603	12,917
06/12/2003 *	---	4	---	---	1,625	48,630	384	51	4,829	2,200	10,166
06/13/2003 *	---	9	---	---	1,698	25,572	785	28	---	2,494	8,844
06/14/2003	---	6	---	---	956	993	759	2	3,721	1,377	9,777
06/15/2003 *	---	8	---	---	400	2,086	386	6	---	1,441	11,888
06/16/2003	---	3	---	---	512	3,043	339	6	3,712	468	6,758
06/17/2003 *	---	9	---	---	166	88	468	11	---	902	3,874
06/18/2003 *	---	17	---	---	233	178	217	10	1,795	1,304	3,321
06/19/2003 *	---	---	---	---	303	44	110	8	---	359	6,850
Total:	0	99	27	0	14,431	184,484	8,033	849	33,624	53,395	184,045
# Days:	0	13	1	0	14	14	14	14	7	14	14
Average:	0	8	27	0	1,031	13,177	574	61	4,803	3,814	13,146
YTD	32,064	33,891	11,123	2,417	3,595,188	2,501,794	783,408	15,285	1,612,323	2,070,941	4,030,312

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)
06/06/2003 *	---	0	4	---	13,629	12,243	11,839	222	56,090	36,027	38,084
06/07/2003 *	---	0	---	---	19,020	9,962	12,567	163	---	45,382	43,756
06/08/2003 *	---	0	---	---	44,260	17,627	12,062	132	33,137	51,444	43,750
06/09/2003 *	---	0	---	---	48,100	5,715	3,464	333	---	35,041	54,977
06/10/2003 *	---	2	---	---	65,111	7,812	4,477	482	28,730	45,269	61,172
06/11/2003 *	---	1	---	---	50,775	11,176	9,869	409	---	41,223	72,742
06/12/2003 *	---	2	---	---	59,798	9,302	18,843	275	69,680	58,867	61,505
06/13/2003 *	---	15	---	---	34,970	7,278	11,631	107	---	45,687	66,330
06/14/2003	---	3	---	---	20,529	13,653	10,453	67	50,457	24,923	66,686
06/15/2003 *	---	7	---	---	29,032	10,520	8,271	53	---	47,140	76,347
06/16/2003	---	2	---	---	22,509	23,503	7,919	78	68,216	22,478	55,905
06/17/2003 *	---	9	---	---	22,262	19,641	8,286	133	---	25,986	51,916
06/18/2003 *	---	0	---	---	25,762	36,064	11,135	106	342,558	28,398	77,986
06/19/2003 *	---	---	---	---	21,230	7,045	1,380	251	---	34,104	62,473
Total:	0	41	4	0	476,987	191,541	132,196	2,811	648,868	541,969	833,629
# Days:	0	13	1	0	14	14	14	14	7	14	14
Average:	0	3	4	0	34,071	13,682	9,443	201	92,695	38,712	59,545
YTD	1	104	74	355	727,938	327,144	183,387	5,582	994,513	798,904	2,864,520

* 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)
06/06/2003 *	---	0	0	---	935	476	438	2,605	6,733	5,337	19,042
06/07/2003 *	---	0	---	---	1,123	1,141	512	3,240	---	6,539	22,095
06/08/2003 *	---	0	---	---	1,944	746	243	2,465	2,355	3,562	30,934
06/09/2003 *	---	0	---	---	1,584	447	93	1,711	---	2,100	38,688
06/10/2003 *	---	0	---	---	909	633	528	1,172	12,162	654	24,130
06/11/2003 *	---	0	---	---	763	1,083	202	1,285	---	2,582	14,956
06/12/2003 *	---	0	---	---	520	450	256	479	5,372	1,265	11,945
06/13/2003 *	---	0	---	---	881	899	499	796	---	3,282	9,885
06/14/2003	---	0	---	---	574	621	312	428	4,445	2,892	19,304
06/15/2003 *	---	0	---	---	732	133	165	216	---	1,443	21,927
06/16/2003	---	0	---	---	171	89	0	256	2,142	1,030	13,208
06/17/2003 *	---	0	---	---	33	131	180	176	---	2,265	8,007
06/18/2003 *	---	0	---	---	367	220	145	88	1,632	1,681	10,609
06/19/2003 *	---	---	---	---	539	43	28	167	---	719	22,885
Total:	0	0	0	0	11,075	7,112	3,601	15,084	34,841	35,351	267,615
# Days:	0	13	1	0	14	14	14	14	7	14	14
Average:	0	0	0	0	791	508	257	1,077	4,977	2,525	19,115
YTD	0	0	0	17	124,758	114,478	36,941	40,962	101,173	252,546	2,083,525

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)
06/06/2003 *	---	57	5	---	5,345	3,426	3,166	132	4,087	10,152	51,014
06/07/2003 *	---	28	---	---	4,623	4,094	1,806	176	---	5,624	60,869
06/08/2003 *	---	52	---	---	5,997	2,752	827	150	842	5,276	70,707
06/09/2003 *	---	11	---	---	4,545	4,072	1,526	105	---	2,494	50,226
06/10/2003 *	---	38	---	---	6,714	2,449	1,584	105	1,095	1,176	32,385
06/11/2003 *	---	21	---	---	2,766	1,219	1,262	101	---	979	28,100
06/12/2003 *	---	28	---	---	4,095	2,127	947	62	354	850	12,199
06/13/2003 *	---	20	---	---	4,906	1,866	499	45	---	1,050	14,827
06/14/2003	---	19	---	---	3,379	1,241	759	24	1,082	688	17,549
06/15/2003 *	---	22	---	---	1,931	1,357	551	16	---	361	15,058
06/16/2003	---	17	---	---	1,571	1,443	350	18	427	562	3,993
06/17/2003 *	---	13	---	---	2,120	328	252	8	---	1,203	2,841
06/18/2003 *	---	8	---	---	1,966	840	506	5	295	885	10,124
06/19/2003 *	---	---	---	---	1,786	279	193	11	---	181	19,375
Total:	0	334	5	0	51,744	27,493	14,228	958	8,182	31,481	389,267
# Days:	0	13	1	0	14	14	14	14	7	14	14
Average:	0	26	5	0	3,696	1,964	1,016	68	1,169	2,249	27,805
YTD	2,347	48,346	2,521	5,601	3,334,899	2,588,194	1,863,955	15,346	243,992	551,099	1,611,604

Note 1: 4/27-5/1 Little Goose Dam coho -potential misidentification of species; sample correction pending further analysis

Note 2: May 1 Little Goose Dam sample partly estimated based on electronic counts.

* 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)	
06/06/2003	*	---	0	0	---	334	407	77	66	6,898	4,540	9,404
06/07/2003	*	---	0	---	---	264	119	195	81	---	4,970	9,531
06/08/2003	*	---	0	---	---	194	0	170	27	3,201	4,221	12,374
06/09/2003	*	---	0	---	---	66	0	139	32	---	2,362	10,633
06/10/2003	*	---	0	---	---	70	253	92	20	6,639	2,440	8,043
06/11/2003	*	---	0	---	---	0	0	177	11	---	2,582	7,931
06/12/2003	*	---	0	---	---	65	45	128	2	3,729	3,226	12,199
06/13/2003	*	---	0	---	---	63	64	71	10	---	3,807	8,324
06/14/2003		---	0	---	---	64	0	45	2	5,531	2,754	6,769
06/15/2003	*	---	0	---	---	67	0	0	2	---	1,352	9,775
06/16/2003		---	0	---	---	68	0	0	3	2,000	843	2,765
06/17/2003	*	---	0	---	---	0	0	0	2	---	1,086	2,583
06/18/2003	*	---	0	---	---	0	0	36	2	1,037	487	3,970
06/19/2003	*	---	---	---	---	0	0	55	6	---	449	7,349
Total:		0	0	0	0	1,255	888	1,185	266	29,035	35,119	111,650
# Days:		0	13	1	0	14	14	14	14	7	14	14
Average:		0	0	0	0	90	63	85	19	4,148	2,509	7,975
YTD		1	0	0	11	16,299	8,052	4,480	9,956	829,459	723,326	1,255,230

* 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: 06/19

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	43,087	4,332	50,987	2,512	14,217	1,469	0	0	0	0	0	0
TDA	131,207	11,522	181,176	3,870	80,975	4,136	32,669	2,879	36,620	1,395	9,906	927	0	0	0	0	0	0
JDA	101,436	10,206	139,887	2,403	67,822	3,122	25,878	2,149	29,008	1,005	7,788	589	0	0	0	0	0	0
MCN	95,550	11,123	129,357	3,872	62,536	3,162	22,960	2,280	22,855	1,183	6,079	520	0	0	0	0	0	0
IHR	78,170	8,018	85,207	1,826	38,964	1,925	9,239	1,306	11,503	607	2,961	265	0	0	0	0	0	0
LMN	70,603	7,219	76,304	1,537	38,073	1,899	7,505	691	7,847	244	2,256	171	0	0	0	0	0	0
LGS	69,507	7,042	77,232	1,815	37,097	2,034	4,133	379	4,234	227	1,459	153	0	0	0	0	0	0
LWG	70,609	8,295	75,025	2,089	35,689	2,016	1,937	270	2,068	101	748	80	0	0	0	0	0	0
PRD	17,768	663	34,083	196	15,528	317	3,627	58	1,448	9	598	36	0	0	0	0	0	0
RIS	17,300	762	24,017	827	11,565	538	0	0	132	4	90	9	0	0	0	0	0	0
RRH	4,646	442	9,948	159	3,990	124	0	0	0	0	0	0	0	0	0	0	0	0
WEL	1,990	128	6,639	29	2,148	129	0	0	0	0	0	0	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	0	0	0	0	0	0	5,486	5,125	9,996	7,718	12,888	8,623	2,001
TDA	0	0	0	0	0	0	3,510	2,682	5,561	2,247	4,413	2,686	808
JDA	0	0	0	0	0	0	2,961	1,975	3,971	2,799	9,765	4,771	1,124
MCN	0	0	0	0	0	0	1,708	657	1,972	2,168	5,649	2,838	961
IHR	0	0	0	0	0	0	5	2	0	1,920	4,749	2,481	811
LMN	0	0	0	0	0	0	4	0	0	2,168	5,141	2,501	1,177
LGS	0	0	0	0	0	0	124	0	0	2,260	6,260	1,914	1,334
LWG	0	0	0	0	0	0	2	0	0	15,892	12,514	5,560	3,739
PRD	0	0	0	0	0	0	429	17	395	27	64	20	0
RIS	0	0	1	0	0	0	63	1	78	43	88	46	33
RRH	0	0	13	0	0	0	22	6	42	51	178	57	37
WEL	0	0	0	0	0	0	0	0	5	21	74	12	13

PRD, RIS, RRH, and WEL are through 06/18.

LGR is missing data for 3/6. Sockeye count at LGS on 6/14 erroneous.

**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: 6/20/03

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

06/07/03 TO 06/20/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	358,400	10,950	8,375	950	39,065	417,740
	Sum of NumberBarged	354,523	9,854	8,301	943	37,653	411,274
	Sum of NumberBypassed	2	715	0	0	1,327	2,044
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	3,875	82	74	7	85	4,123
LGS	Sum of NumberCollected	149,847	143,179	5,689	726	22,273	321,714
	Sum of NumberBarged	147,463	143,063	5,559	715	22,099	318,899
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	2,383	116	130	11	174	2,814
LMN	Sum of NumberCollected	94,373	5,983	2,705	930	10,930	114,921
	Sum of NumberBarged	94,263	5,937	2,703	929	10,764	114,596
	Sum of NumberBypassed	0	13	0	0	105	118
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	110	33	2	1	61	207
MCN	Sum of NumberCollected	426,798	21,452	22,175	18,468	5,233	494,126
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	425,914	21,239	22,099	18,385	5,216	492,853
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	884	213	76	83	17	1,273
Total Sum of NumberCollected		1,029,418	181,564	38,944	21,074	77,501	1,348,501
Total Sum of NumberBarged		596,249	158,854	16,563	2,587	70,516	844,769
Total Sum of NumberBypassed		425,916	21,967	22,099	18,385	6,648	495,015
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		7,252	444	282	102	337	8,417

YTD Transportation Summary

TO: 06/20/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	491,471	2,573,058	81,997	9,663	2,316,586	5,472,775
	Sum of NumberBarged	483,354	2,467,096	81,416	9,470	2,246,326	5,287,662
	Sum of NumberBypassed	2	45,588	0	0	53,118	98,708
	Sum of NumberTrucked	816	54,208	40	78	15,402	70,544
	Sum of TotalProjectMortalities	7,299	5,867	541	115	1,741	15,563
LGS	Sum of NumberCollected	248,099	1,848,091	84,514	5,364	1,941,646	4,127,714
	Sum of NumberBarged	244,323	1,794,160	84,182	5,334	1,937,953	4,065,952
	Sum of NumberBypassed	0	22	0	0	3	25
	Sum of NumberTrucked	5	52,601	0	0	850	53,456
	Sum of TotalProjectMortalities	3,770	3,247	332	30	2,840	10,219
LMN	Sum of NumberCollected	133,040	461,481	25,905	3,246	1,228,323	1,851,995
	Sum of NumberBarged	132,832	438,478	25,209	3,201	1,149,471	1,749,191
	Sum of NumberBypassed	0	6,866	681	0	75,945	83,492
	Sum of NumberTrucked	60	15,149	0	40	1,637	16,886
	Sum of TotalProjectMortalities	148	988	15	5	1,270	2,426
MCN	Sum of NumberCollected	628,044	1,031,477	60,389	534,124	153,618	2,407,652
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	627,013	1,030,483	60,304	533,772	153,385	2,404,957
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1,031	901	85	356	190	2,563
Total Sum of NumberCollected		1,500,654	5,914,107	252,805	552,397	5,640,173	13,860,136
Total Sum of NumberBarged		860,509	4,699,734	190,807	18,005	5,333,750	11,102,805
Total Sum of NumberBypassed		627,015	1,082,959	60,985	533,772	282,451	2,587,182
Total Sum of NumberTrucked		881	121,958	40	118	17,889	140,886
Total Sum of TotalProjectMortalities		12,248	11,003	973	506	6,041	30,771

