



Fish Passage Center

Weekly Report #03 - 7

May 2, 2003

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

Summary of Events:

Water Supply: Most Columbia Basin watersheds have continued to receive average precipitation through the 28th of April (Table 1). For the water year (October 1, 2002 to April 28, 2003), precipitation in most basins has been near average, with the Central Washington and Clearwater locations receiving the highest yearly totals at 122% and 109% of average, respectively.

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

Location	April 1-28, 2003		Cumulative October, 1 2002 to April 28, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.86	121	14.50	92
SNAKE RIVER ABOVE ICE HARBOR	1.70	125	11.37	98
Columbia Above The Dalles	1.83	119	15.11	95
Kootenai	1.94	119	14.15	87
Clark Fork	1.32	114	10.01	99
Flathead	1.42	96	11.98	88
Pend Oreille/Spokane	1.95	92	22.07	99
Central Washington	1.18	198	7.97	122
SNAKE RIVER PLAIN	1.37	142	5.32	75
Clearwater	2.03	82	23.00	109
SW Washington Cascades/Cowlitz	5.09	102	52.47	90
Willamette Valley	5.96	132	47.61	96

Table 2 displays the March Final, April Final, and May Early-Bird runoff volume forecasts for multiple reservoirs. Generally, runoff volume forecasts have been steadily rising over the spring. Most basins have increased in excess of 10% of average between the March and April Forecasts; the Clearwater Basin has increased 20%.

Table 2. March Final, April Final and May Early-Bird Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	March Final		April Final		May Early-Bird	
	% 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)	70	74900	79	85300	82	87800
Grand Coulee (Jan-July)	74	46300	84	52900	87	54900
Libby Res. Inflow, MT (Jan-July)	70	4440	79	4960	84	5270
Hungry Horse Res. Inflow, MT (Jan-July)	66	1470	81	1800	80	1770
Lower Granite Res. Inflow (Apr- July)	68	14700	79	17100	80	17200
Brownlee Res. Inflow (Apr-July)	49	3100	53	3370	57	3580
Dworshak Res. Inflow (Apr-July)	70	1860	90	2390	86	2270

Based on the April Final Forecasts, the following Biological Opinion actions will be targeted in the spring of 2003:

♦ **Lower Granite:** The Spring Flow Objective will be 89.1 Kcfs between April 3rd and June 20th. To date, the average flow at Lower Granite between April 3rd and May 1st, 2003 has been 71.6 Kcfs.

♦ **McNary:** The Spring Flow Objective will be 220 Kcfs between April 10th and June 30th. To date, the average flow at McNary between April 10th and May 1st, 2003 has been 202.1 Kcfs.

♦ **Priest Rapids:** The Spring Flow Objective will be 135 Kcfs between April 10th and June 30th. To date, the average flow at Priest Rapids between April 10th and May 1st, 2003 has been 124.4 Kcfs.

On April 17th, SOR 2003-7 was submitted to the Action Agencies and asked for the Biological Opinion flow objective of 135 Kcfs to be met at Priest Rapids from April 24th through the end of June. This SOR was accepted by the Action Agencies. Since the 24th of April, daily average flows at Priest Rapids have averaged 138.0 Kcfs.

Also on the 17th of April, SOR 2003-8 was submitted to the Action Agencies based upon survey reports indicating increased stranding and entrapment of juvenile fall chinook below Priest Rapids Dam. The SOR asks for flow fluctuations to be limited relative to the previous days flow average. The action agencies maintain that Grant County PUD is the responsible party and Grant County has maintained that federal flow control is responsible. No indication of compromise between Grant County PUD and the Action Agencies on the implementation of SOR 2003-8 has been indicated to date. However, since the submittal of SOR 2003-8, flow fluctuations have been monitored and compared to the flow bands indicated in the SOR. The following table displays the actual daily average flow (determines flow band), actual daily flow fluctuations, and the flow band suggested by SOR 2003-8 at Priest Rapids Dam from April 17th to May 1st.

Table 3. Actual daily average flow (determines flow band), actual daily flow fluctuation, and the flow band suggested by SOR 2003-8 at Priest Rapids Dam from April 17th to May 1st.

Date	Daily Average Flow (Kcfs)	Daily Flow Fluctuation (Kcfs)	Flow Band According to SOR 2003-8
4-17-2003	148.3	14.9	20
4-18-2003	112.6	40.4	20
4-19-2003	117.6	29.4	20
4-20-2003	98.9	42.2	10
4-21-2003	114.6	76.8	20
4-22-2003	158.4	18.9	20
4-23-2003	149.1	42.6	20
4-24-2003	143.2	70.2	20
4-25-2003	160.8	39.6	20
4-26-2003	129.1	28.1	20
4-27-2003	111.8	17.0	20
4-28-2003	128.3	28.9	20
4-29-2003	151.9	55.3	20
4-30-2003	149.9	60.4	20
5-1-2003	128.6	35.8	20

From Table 3, the flow bands recommended by SOR 2003-8 at Priest Rapids Dam were met in three of the fifteen days since April 17th, 2003.

The Libby Reservoir is currently at an elevation of 2411.9 feet and has been operating to a minimum discharge of 4.0 Kcfs. Inflows to Libby are currently 11.4 Kcfs (5-1-03); over the last week Libby has filled 4.2 feet.

The Hungry Horse Reservoir is currently at an elevation of 3525.7 feet, and has refilled 4.2 feet in the last week.

The Dworshak reservoir is currently at an elevation of 1568.3 feet and continues to release approximately 15.6 kcfs of water (9.5 Kcfs through the powerhouse and the rest spill). On April 29, SOR 2003-9 was submitted to the action agencies and requested that Dworshak outflows remain at their current levels (Approximately 15.6 Kcfs) unless the 89.1 Kcfs flow objective is met at Lower Granite. The action agencies agreed to implement the SOR for one week and then revisit water supply and refill forecasts at Dworshak.

The Grand Coulee Reservoir ended May 1st at an elevation of 1278.8 feet.

The Brownlee Reservoir was at an elevation of 2067.6 on May 1st, 2003.

The USBR reservoir systems along the Boise, Payette, and Upper Snake Basins are currently 59% (+2% from last week), 72% (+3% from last week), and 62% (+1% from last week) of capacity.

Spill: Dworshak Dam continued operating at full powerhouse and spilling to the 110% TDG gas cap for daily average outflows of about 15.5 to 15.6 Kcfs. Spill at Lower Granite, Little Goose, Lower Monumental and Ice Harbor dams over the past week averaged 27%, 24%, 44% and 65% of average daily flow, respectively.

Spill at the lower Columbia projects was initiated on April 14. Spill over the past week at McNary, John Day, The Dalles and Bonneville dams averaged 36%, 29%, 39%, and 49% of average daily flow, respectively.

A few fish have been sampled at Little Goose, McNary and Rock Island dams with signs of GBT in their fins. Total dissolved gas levels remain below the gas waiver limits.

Smolt Monitoring: The monitoring sites at Snake River dams again recorded large increases in the passage of yearling chinook and steelhead this past week as we approach the historic peak of yearling chinook migration. The tributary traps continued capturing substantial numbers of yearling chinook and steelhead. In the mid-Columbia the collection of yearling chinook continued to increase despite a disruption in trapping at the project due to mechanical repairs to the bypass. At the Lower Columbia the numbers of yearling chinook and steelhead have increased significantly this past week.

The White Bird Trap collected an average of 1,100 yearling chinook per day in the seven days from April 25 to May 1 compared to 180 per day the previous week. Steelhead numbers were up again this week, with the average daily collection this week at 89 compared to 59 per day last week.

At the Imnaha Trap the average daily catch of yearling chinook this week was 185 compared to 609 last week. The numbers of steelhead decreased rapidly this week corresponding with the passage last week of releases of over 200,000 hatchery fish in Little and Big Sheep basins. The average daily collection was 707 per day this week versus 1,213 per day last week. Numbers of yearling chinook captured at the Grande Ronde trap decreased again this past week with a daily average of 83 compared to 167 last week. Steelhead collection was low also, with a daily average of 16 per day this week compared to 107 last week. At the Lewiston Trap the collection of yearling chinook was up to 62 fish per day average, compared to 28 last week, while steelhead collection decreased slightly to 129 this week compared to 135 per day last week.

At Lower Granite Dam the average daily passage index for both yearling chinook and steelhead increased rapidly this past week. The yearling chinook index averaged 106,000 this week compared to 59,500 last week while the steelhead average daily passage index increased from 31,000 last week to 89,000 this week. Small numbers of sockeye, coho and subyearling chinook were also captured this past week. Little Goose and Lower Monumental dams both saw large increases in yearling chinook and steelhead indices. At Little Goose the index for yearling chinook averaged 51,000 this week compared to 19,800 last week, while at Lower Monumental the index averaged 18,800 this week compared to 8,600 last. The index for steelhead at Little Goose averaged approximately 58,000 compared to 9,900 last week and at Lower Monumental the index was up to 18,700 compared to 6,900 last week.

The bypass at Rock Island is operating at less than capacity as Chelan PUD seeks to isolate the source of injuries to juvenile fish captured in the smolt trap. At present the operators have identified seals in slide gates that feed water into the bypass as the potential problem. The system is to be shut down next week to replace those seals. Since the start of the season mortality of bypassed fish has been high prior to this week. Subyearling chinook and sockeye were most affected with a season

average 18% and 13.7% mortality respectively. Yearling chinook showed 5.5% mortality while steelhead mortality was at 2% and no mortality in the 20 coho collected to date. It's important to point out that only 1 to 2% of fish generally enter the bypass at this site.

Despite operating only a portion of the bypass system this week, Rock Island Dam has reported a relative increase in yearling chinook collection this week with an average collection of 440 versus 200 last week. Sockeye collection was also up this week averaging 210 this week compared to 180 last week. The steelhead daily index averaged 70 last week the first week of substantial collection this year. Coho and subyearling chinook continue to be collected in very low numbers.

In the Lower Columbia, at McNary, where sampling is carried out every other day, in conjunction with NMFS transportation study that begins April 20, the passage index for yearling chinook increased from 11,800 last week to 48,000 this week. Steelhead indices increased from 3,300 last week to 3,700 this week. The daily average index for subyearling chinook doubled from 800 per day last week to 1,600 this week. At John Day Dam the average daily index for yearling chinook increased rapidly to 13,600 this week compared to 6,200 last week. Steelhead indices were also up, with an average of 4,800 this week versus 1,360 last week. Coho indices increased substantially this week, peaking on May 1 with an index of 1,280. Small numbers of subyearling chinook, and sockeye smolts have been reported this past week. At Bonneville Dam, the average daily index for yearling chinook was at 59,500 this week compared to 69,500 last week. The peak index of 112,000 on April 20th, likely marked the peak passage of 1.7 million yearling chinook released from Carson NFH starting on April 16. The steelhead index averaged 9,300 this week compared to 2,740 last week. The indices for coho were up again this week with an average index of 33,500 compared to 9,100 per day last week. Subyearling chinook numbers spiked at 560,000 on April 16 after the release of 4 million subs, on April 14, from Spring Creek Hatchery, and have steadily declined to this weeks average of 1,100 per day. Low numbers of sockeye were also reported in the sample this past week.

Hatchery Releases - The preliminary hatchery totals for juvenile salmonids released above Bonneville Dam are shown in the Table below. For the season, approximately 86.7 million juvenile salmon will be released from the Columbia River Basin hatcheries for the 2003 migration season. The FPC hatchery release numbers can be obtained from the FPC website. Approximately 22.2 million juvenile salmonids were released or releases were initiated during the past two weeks, with only 8.4 million fish scheduled for release in the upcoming two weeks.

Columbia River Basin Hatchery Releases - 2003

Hatchery Zone Release Report	Friday 4-April-2003			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	3909701	12232000	25318092	41459793
Spring Chinook	10428528	3492784	5549224	19470536
Summer Chinook	2331578	3052521		5384099
Coho	1245712	1877118	5634000	8756830
Sockeye	140410	208986		349396
Summer Steelhead	9402041	1284300	503716	11190057
Winter Steelhead			94047	94047
Total	27457970	22147709	37099079	86704758

Snake River - About 27.5 million smolts will be released in the Snake River Basin from State, Federal, and Tribal hatcheries and acclimation ponds during the 2003 migration year. To date, 10.4 million yearling spring chinook and 2.3 million yearling summer chinook have been released into the Salmon River basin, the Clearwater River basin, from acclimation ponds in the Grande Ronde and Imnaha River basins, into the Tucannon River from the Curl Lake acclimation pond, and the main stem Snake River below Hells Canyon Dam. Another 500,000 yearling fall chinook were released from acclimation ponds in the Snake and Clearwater River basins with an on-site release from Lyons Ferry Hatchery of 518,436 yearling fall chinook.

During fall 2002, approximately 140,000 sockeye were released in the upper Salmon R basin lakes.

About 550,000 yearling coho salmon were released in early March into Lapwai Creek and Potlatch River with the remainder released in the Clearwater River basin in April; about 300,000 were released into Clear Creek from Kooskia NFH on April 23.

Releases of juvenile steelhead (9.4 million) are on-going from most hatcheries with the majority to be planted by mid-May. Releases occur throughout the Snake, Salmon, Clearwater, Imnaha, Grande Ronde, and Tucannon River basins.

Mid-Columbia River - About 22.1 million yearling and subyearling salmon species will be released in the Mid-Columbia during the 03 migration year. Volitional release of yearling spring chinook are on-going from the acclimation ponds in the Yakima River basin with greater than 80% of the fish already exited from the ponds and migrating downstream. Releases of yearling spring chinook were completed at Federal and State hatcheries during April. Yearling spring chinook were planted in the Methow, Okanogan, Entiat, Yakama, and Wenatchee rivers in 2003.

Yearling summer chinook released from Wells and Eastbank Complex hatcheries should be mostly completed after this upcoming week. Volitional releases are continuing at Wells H with the Methow and Wenatchee rivers receiving fish this week and next week.

Subyearling fall and summer chinook will be released later in the season, normally late May or June. These fish comprise the highest percentage of salmon released in the Mid-Columbia River. About 209,000 sockeye were released last fall into Lake Wenatchee; there will be no sockeye releases made into the Okanogan R basin this year. About 1.9 million coho are scheduled for release in this Zone. The yearling coho are normally released from early to mid-April through mid-May. A portion of these fish has been released.

Approximately 1.3 million juvenile steelhead will be released from mid-April through early May. These releases are on-going during this week from the State Hatcheries. Ringold Hatchery releases

its steelhead volitionally (began mid-April) with the final fish pushed out by April 30.

Lower Columbia River - The Lower Columbia River Zone releases about 37.1 million salmon and steelhead for the 2003 migration. The majority of fish released in this Reach is comprised of subyearling fall chinook, many from Spring Creek NFH. About 7.6 million subyearling fall chinook were released on March 8 with another 4.1 million released on April 10.

Release of yearling spring chinook from State, Tribal and Federal hatcheries is nearing completion for the year. Fish have been released in the Klickitat, Umatilla, Deschutes, Hood, Wind, and Little White Salmon rivers to date. Yearling fall chinook have also been released in the Umatilla River basin.

Yearling coho salmon have been released in the Klickitat, Little White Salmon, and Umatilla rivers to date. The Klickitat Hatchery will release another 1.0 million yearling coho this May. Winter and summer steelhead are scheduled for release into the Klickitat, possibly Little White Salmon (Drano L), Big White Salmon, Umatilla, Deschutes, and Hood rivers this year. Most releases will be completed by the first week in May.

Adult Fish Passage - Most COE projects began counting adult fish on April 1 with the PUD facilities initiating counts on April 15. Counts officially started at Lower Granite Dam on March 1st with Bonneville Dam counts beginning March 15. Adult fish counts at Bonneville Dam recorded by video prior to March 14 are summarized below the Cumulative Adult Table, with adult chinook and steelhead counts exceeding 3,700 and 3,400, respectively.

During the past week, daily counts of adult spring chinook at Bonneville Dam ranged from 2,191 to 4,374. Through May 1, the cumulative count of adult spring chinook was 136,395, about 80% of the 2002 count, and 1.6 times greater than the 10-year average count. Based on sampling by CRITFC at Bonneville Dam, about 64% of the adult passage through April 29th was 5-year old fish. Sampling shows that 4-year old/5-year old composition had changed to greater than 54% 4-year old fish by this sampling week.

Counts of adult spring chinook at The Dalles ranged from 1,034 to 3,272 with the average passage for the week of 2,274 per day, about 800 less per day than the previous week. The cumulative count was 85,444, about 62.6% of the Bonneville count through May 1st. At McNary Dam, about 55,500 have been counted through May 1 with about 38,000 counted into the Snake River (missing 4/23 and 4/26 counts at Ice Harbor). At Priest Rapids Dam, close to 10,000 adult spring chinook have been tallied through May 1. For the Yakama River, about 1,400 adult chinook have been counted at Prosser Dam through April 28.

As is normal for this time of year, jack chinook counts are increasing with the total passage at Bonneville Dam through May 1st at 1,941. This total exceeds both the 2002 count of 1,497 and the 10-year average count of 1,347.

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
04/18/03	105.2	0.0	106.7	0.0	109.8	7.9	105.8	0.0	110.3	21.8	107.8	0.0	112.6	0.0
04/19/03	110.6	0.0	106.6	0.0	108.7	7.8	107.1	0.0	113.1	21.0	121.0	0.0	117.6	0.0
04/20/03	65.3	0.0	66.4	0.0	68.7	5.2	67.0	11.6	71.9	16.0	90.0	0.0	98.9	0.0
04/21/03	140.7	0.0	142.7	0.0	145.6	8.5	141.5	17.1	143.8	22.0	126.2	11.5	114.6	0.0
04/22/03	115.5	0.0	120.5	0.0	133.9	8.9	135.4	18.6	142.5	22.9	157.2	63.0	158.4	15.4
04/23/03	136.5	0.0	136.5	0.0	135.9	8.6	135.1	20.0	139.2	26.3	147.0	59.7	149.1	90.3
04/24/03	134.6	0.0	138.1	0.0	144.1	9.3	140.9	21.0	144.6	27.2	145.3	58.8	143.2	86.8
04/25/03	133.2	0.0	134.1	0.0	141.9	9.5	141.7	21.2	146.7	27.7	155.9	62.5	160.8	97.3
04/26/03	94.6	0.0	95.8	0.0	102.9	7.6	104.2	20.5	109.5	25.5	122.7	48.8	129.1	80.2
04/27/03	86.7	0.0	85.8	0.0	93.2	6.9	93.7	18.9	98.6	23.6	103.6	41.7	111.8	69.3
04/28/03	124.2	0.0	123.4	0.0	128.0	9.5	129.8	27.2	133.4	29.1	131.4	52.1	128.3	79.6
04/29/03	125.8	0.0	128.1	0.0	139.5	9.7	138.0	22.4	141.3	29.9	150.3	60.6	151.9	93.8
04/30/03	114.0	0.0	124.1	0.0	132.0	9.2	131.9	21.8	137.4	29.7	148.1	60.5	149.9	92.1
05/01/03	104.4	0.0	108.8	0.0	115.6	8.2	114.3	20.5	119.7	28.9	123.5	28.1	128.6	79.3

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/18/03	15.6	5.8	14.4	13.7	70.4	20.3	68.9	18.5	68.1	31.9	72.8	53.9
04/19/03	15.6	5.8	13.9	14.5	65.0	20.0	65.3	18.7	64.0	31.5	69.7	52.1
04/20/03	15.6	5.7	13.2	15.5	63.6	25.4	61.5	18.5	60.3	28.2	65.6	51.5
04/21/03	15.5	5.6	14.1	18.5	65.2	20.5	63.3	17.8	62.8	30.0	66.0	51.1
04/22/03	15.6	5.8	13.7	19.7	67.6	15.3	69.1	17.6	69.5	31.0	76.5	60.9
04/23/03	15.7	5.8	15.6	18.9	74.3	20.4	72.2	17.7	71.4	31.9	74.6	52.8
04/24/03	15.6	5.8	15.0	18.1	80.7	25.5	80.3	17.6	80.1	33.2	84.7	54.5
04/25/03	15.6	5.8	14.9	16.7	81.0	20.5	79.9	17.9	78.7	34.0	81.9	54.7
04/26/03	15.6	5.8	15.3	17.1	82.1	15.4	80.1	18.2	81.2	36.2	84.7	56.9
04/27/03	15.6	5.7	17.3	16.4	81.3	20.8	79.6	18.9	79.1	35.8	83.7	53.5
04/28/03	15.5	5.6	14.8	18.3	79.3	26.1	78.3	19.2	78.5	34.8	81.7	50.8
04/29/03	15.5	5.6	14.3	17.4	72.6	20.5	70.9	19.0	71.1	31.3	74.6	55.3
04/30/03	15.3	5.6	14.6	19.3	73.1	20.5	73.4	18.4	72.6	32.2	78.0	46.3
05/01/03	15.4	5.6	---	---	70.8	20.5	71.3	19.0	70.9	33.2	76.0	37.6

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		
04/18/03	216.0	75.9	229.9	56.5	232.1	90.9	253.0	148.0	0.0	98.0
04/19/03	201.9	80.3	210.2	56.2	208.8	82.5	222.9	147.2	0.1	69.0
04/20/03	188.4	73.8	184.7	55.8	184.9	73.8	207.6	104.0	10.7	86.2
04/21/03	173.5	59.9	172.2	46.4	177.3	69.4	209.7	103.4	17.8	81.9
04/22/03	228.1	102.7	222.9	54.5	216.3	84.6	230.6	142.2	3.8	78.0
04/23/03	231.9	101.1	239.3	62.3	239.5	93.5	248.8	142.4	21.3	78.4
04/24/03	220.1	98.3	212.2	66.3	211.9	84.6	238.1	101.5	33.0	96.9
04/25/03	201.8	77.3	198.7	63.4	195.6	76.9	219.6	102.3	13.1	97.4
04/26/03	238.8	90.9	251.4	73.4	254.9	99.8	278.4	103.6	61.6	106.4
04/27/03	205.6	72.3	198.3	60.6	193.6	76.7	235.3	103.0	33.0	92.6
04/28/03	207.9	70.5	229.3	64.4	230.7	90.0	245.2	146.7	5.1	86.7
04/29/03	217.5	69.5	220.5	61.9	216.7	85.4	238.5	141.6	0.0	90.2
04/30/03	225.6	69.5	221.7	57.3	222.4	84.0	251.6	134.2	9.5	101.2
05/01/03	201.8	70.7	233.7	52.6	231.1	88.6	255.6	128.4	17.3	103.2

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 Avg. Fish Rank
Lower Granite Dam												
	04/22/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
Little Goose Dam												
	04/23/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
	04/30/03	Chinook + Steelhead	100	3	3	3.00%	0.00%	3	0	0	0	
Lower Monumental Dam												
	04/28/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
McNary Dam												
	04/24/03	Chinook + Steelhead	100	3	3	3.00%	0.00%	3	0	0	0	
	04/28/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
Bonneville Dam												
	04/24/03	Chinook + Steelhead	99	0	0	0.00%	0.00%	0	0	0	0	
	04/28/03	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0	
	05/01/03	Chinook + Steelhead	99	0	0	0.00%	0.00%	0	0	0	0	
Rock Island Dam												
	04/28/03	Chinook + Steelhead	100	4	4	4.00%	0.00%	3	1	0	0	
	05/01/03	Chinook + Steelhead	100	4	4	4.00%	0.00%	4	0	0	0	

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>				<u>Grand Coulee</u>				<u>Grand C. Tlwr</u>				<u>Chief Joseph</u>				
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/18	101	101	102	24	115	117	119	24	104	105	105	24	103	104	105	24	104	104	104	23
4/19	100	100	101	24	114	118	120	24	105	105	107	24	103	104	104	24	103	103	104	23
4/20	100	101	101	24	114	117	120	24	107	107	108	24	105	106	107	24	104	105	106	23
4/21	101	101	102	24	115	119	121	23	109	110	115	24	105	105	107	24	105	106	106	22
4/22	101	102	102	24	117	119	120	21	108	109	110	24	106	106	107	24	106	106	106	23
4/23	101	101	101	24	110	112	113	24	109	109	110	24	105	106	107	24	105	106	106	23
4/24	101	101	102	24	113	117	118	24	109	109	110	24	106	106	107	24	105	106	106	23
4/25	101	101	101	24	112	116	117	24	107	108	109	24	105	106	106	24	105	105	106	23
4/26	101	102	103	24	115	118	118	24	108	109	110	24	106	106	107	24	105	106	106	23
4/27	101	101	102	24	115	118	119	24	108	108	109	24	106	107	108	24	105	105	106	23
4/28	101	102	102	24	118	120	121	24	109	110	110	24	105	106	107	24	106	106	106	23
4/29	102	102	103	24	120	121	121	24	110	110	112	24	106	106	107	24	106	106	107	23
4/30	102	102	102	24	118	121	122	24	108	109	109	24	106	106	107	24	106	106	107	24
5/1	100	101	101	24	122	126	129	24	108	109	109	24	106	106	107	24	105	106	106	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>				<u>Wells Dwnstrm</u>				<u>Rocky Reach</u>				<u>Rocky R. Tlwr</u>				
	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/18	103	103	103	23	104	104	104	24	106	106	107	24	106	107	107	24	107	107	107	24
4/19	102	103	103	23	104	104	105	23	106	107	107	23	106	106	106	23	106	106	106	22
4/20	104	105	106	23	105	106	106	24	106	107	108	24	107	107	108	23	108	109	110	23
4/21	105	105	105	22	106	106	107	24	108	108	109	24	108	108	109	24	109	110	110	24
4/22	105	106	107	23	106	107	112	23	108	108	109	23	108	108	108	23	109	109	110	23
4/23	105	105	107	23	106	106	107	24	108	108	109	24	108	108	108	23	109	109	110	23
4/24	106	106	107	23	106	106	106	23	108	108	108	23	107	108	108	24	109	109	110	24
4/25	105	105	106	23	105	106	106	24	107	108	108	24	107	107	108	24	109	109	110	24
4/26	105	105	105	23	106	106	107	24	108	109	110	24	108	108	108	22	110	110	110	22
4/27	104	105	105	23	105	106	106	22	107	108	108	22	108	108	108	24	110	110	110	24
4/28	105	106	106	23	106	106	107	24	108	109	109	24	108	108	108	23	110	111	112	22
4/29	106	106	106	23	106	107	108	24	108	108	109	24	108	108	108	22	110	110	113	22
4/30	105	106	106	24	106	107	107	23	108	108	109	23	108	108	108	22	109	110	110	21
5/1	105	105	106	23	106	107	107	21	108	109	109	21	108	108	108	24	109	110	110	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>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/18	106	106	107	24	114	117	120	24	104	105	106	24	105	105	106	24	104	105	105	24
4/19	106	106	106	23	113	114	118	22	104	105	105	24	106	108	109	24	104	105	105	24
4/20	106	107	108	23	114	115	117	22	107	109	110	24	110	111	112	24	106	106	108	24
4/21	109	109	110	24	114	116	117	24	110	111	113	24	112	112	113	18	108	109	110	24
4/22	109	109	111	23	115	116	117	23	107	107	108	18	117	117	120	20	109	109	110	24
4/23	109	109	110	23	116	120	125	23	107	108	109	24	117	118	120	24	110	111	112	24
4/24	109	109	110	24	116	118	125	23	108	109	109	24	117	118	122	24	107	112	112	24
4/25	108	109	109	24	116	118	123	24	108	109	111	24	116	117	117	24	112	112	114	24
4/26	109	109	109	22	116	116	116	22	108	108	109	24	116	116	117	24	111	112	114	24
4/27	109	109	109	24	116	116	116	24	107	108	108	24	115	116	116	24	110	112	112	24
4/28	109	110	110	22	117	119	121	21	110	110	111	24	116	116	116	24	111	112	113	24
4/29	110	110	111	22	118	120	123	22	110	110	111	24	117	117	118	24	113	113	114	24
4/30	109	109	110	22	117	118	121	20	110	111	111	24	117	118	119	24	113	114	115	24
5/1	109	110	110	24	118	120	125	23	---	---	---	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>	<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>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
4/18	104	105	105	24	104	105	105	24	108	108	109	24	103	103	104	24	100	101	102	24
4/19	104	105	105	24	105	106	106	24	108	108	109	24	104	105	105	24	100	101	103	24
4/20	105	105	106	24	106	107	107	24	108	108	109	24	104	105	106	24	102	103	104	24
4/21	106	107	109	24	107	108	109	24	109	109	110	24	104	105	106	24	102	103	103	23
4/22	109	110	110	24	108	109	110	24	109	109	110	24	104	104	104	24	101	102	102	24
4/23	111	112	114	24	109	111	114	24	109	109	110	24	103	104	104	24	101	102	103	24
4/24	113	114	114	24	113	113	114	24	109	109	110	24	103	104	104	24	101	101	102	24
4/25	116	118	118	24	113	115	116	24	109	109	109	24	103	104	104	24	101	102	103	24
4/26	116	117	118	24	113	114	115	24	109	109	109	24	103	103	104	24	101	101	102	24
4/27	112	113	113	24	112	114	114	24	109	109	109	24	104	104	105	24	101	102	102	24
4/28	113	113	113	11	113	114	115	24	109	109	110	24	104	105	105	24	102	103	103	24
4/29	120	120	120	14	114	115	116	24	109	109	109	24	104	104	105	24	101	102	102	24
4/30	120	120	120	24	114	115	116	24	108	108	108	24	103	103	104	24	101	102	103	24
5/1	---	---	---	0	115	116	117	24	107	108	108	24	103	104	104	24	102	103	104	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>	<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>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
4/18	102	103	104	24	102	102	102	24	110	118	119	24	106	107	108	24	111	115	116	24
4/19	103	104	106	24	103	103	104	24	110	118	119	24	106	107	108	24	110	115	116	24
4/20	103	105	106	24	103	104	105	24	113	115	119	24	108	109	110	24	112	116	116	24
4/21	103	105	106	24	104	104	104	24	110	111	111	24	109	109	110	24	113	116	117	24
4/22	103	103	104	24	104	105	105	24	109	114	119	24	110	110	111	24	113	116	116	24
4/23	103	104	105	24	105	106	107	24	112	119	119	24	111	111	111	14	113	114	116	14
4/24	102	103	104	24	103	104	104	24	112	115	119	24	110	110	111	16	112	113	116	16
4/25	103	104	105	24	103	103	104	24	110	110	110	24	108	110	111	24	111	115	116	24
4/26	102	102	103	24	102	102	103	24	108	113	118	24	108	109	110	24	111	115	116	24
4/27	103	104	105	24	102	103	104	24	110	118	120	24	107	108	109	24	111	116	116	24
4/28	103	104	105	24	103	104	105	24	112	115	120	24	107	108	109	24	112	116	116	24
4/29	103	104	105	24	103	104	105	24	110	111	111	24	107	109	112	24	111	116	117	24
4/30	102	102	103	24	104	104	104	24	110	110	111	24	108	109	111	24	112	116	116	24
5/1	103	104	105	24	104	104	105	24	110	110	111	24	110	110	111	24	113	116	116	24

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

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>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>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
4/18	111	112	115	24	117	118	119	24	113	113	113	24	113	114	116	24	107	108	109	24
4/19	110	111	112	24	117	118	118	24	113	115	117	24	113	114	114	24	107	109	112	24
4/20	111	112	113	24	117	119	120	24	114	115	116	24	113	114	114	24	107	108	109	24
4/21	112	113	115	24	117	119	120	24	116	116	116	24	113	114	115	24	109	110	113	24
4/22	112	113	114	24	118	119	120	24	115	116	116	24	114	115	117	24	109	109	110	24
4/23	112	112	113	14	117	117	119	13	114	114	115	14	113	113	114	13	108	109	112	24
4/24	112	112	113	23	117	118	118	23	112	113	114	24	114	114	115	24	107	107	108	24
4/25	112	113	113	24	118	119	120	24	113	114	116	24	114	115	116	24	108	109	110	24
4/26	110	112	112	24	118	118	119	24	112	112	113	24	114	114	115	24	109	109	110	24
4/27	109	111	113	24	118	119	120	24	112	113	116	24	114	115	115	24	110	112	115	24
4/28	111	113	114	24	119	120	120	24	114	116	118	24	114	115	117	24	110	111	112	24
4/29	112	113	115	24	118	119	120	24	115	115	115	24	114	115	117	24	112	114	117	24
4/30	111	113	115	24	118	119	120	24	114	115	115	24	113	114	114	24	112	113	114	24
5/1	111	112	113	24	118	119	120	24	115	115	116	24	113	113	114	24	113	115	116	24

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

Total Dissolved Gas Saturation Data at Lower Columbia 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> Avg	<u>12 h</u> Avg	<u>High</u>	<u>#</u> hr	<u>24 h</u> Avg	<u>12 h</u> Avg	<u>High</u>	<u>#</u> hr	<u>24h</u> Avg	<u>12h</u> Avg	<u>High</u>	<u>#</u> hr	<u>24h</u> Avg	<u>12h</u> Avg	<u>High</u>	<u>#</u> hr				
4/18	106	106	106	24	112	118	120	24	104	104	104	23	111	117	118	24	106	108	109	23
4/19	106	107	109	24	113	120	121	24	105	107	109	23	111	117	118	24	107	110	114	23
4/20	108	109	110	24	113	119	121	24	108	110	112	23	112	117	118	24	109	111	114	23
4/21	109	110	110	23	113	118	122	24	109	109	109	23	113	117	119	24	110	112	114	23
4/22	109	110	110	24	117	119	122	24	108	108	109	23	112	117	118	24	108	109	111	23
4/23	108	108	109	24	116	120	122	24	109	110	111	23	113	118	119	24	109	112	114	23
4/24	108	108	109	24	116	119	120	24	110	110	110	23	113	117	118	24	110	112	113	23
4/25	109	111	111	24	115	120	122	24	109	110	110	23	113	117	118	24	111	113	114	23
4/26	110	111	111	24	117	121	122	24	108	108	109	23	113	118	119	24	111	113	115	23
4/27	110	111	113	24	115	120	121	24	109	110	113	23	113	117	118	24	111	114	116	23
4/28	111	111	112	24	115	120	121	24	109	110	111	23	113	117	118	24	113	115	116	23
4/29	113	114	114	24	116	119	120	24	109	110	110	23	113	116	117	24	111	113	115	23
4/30	112	113	113	24	116	119	120	24	109	110	110	24	113	117	118	24	111	112	113	24
5/1	114	115	116	24	116	119	120	24	111	112	114	23	114	117	118	24	111	113	114	21

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> Avg	<u>12 h</u> Avg	<u>High</u>	<u>#</u> hr	<u>24 h</u> Avg	<u>12 h</u> Avg	<u>High</u>	<u>#</u> hr	<u>24h</u> Avg	<u>12h</u> Avg	<u>High</u>	<u>#</u> hr				
4/18	114	115	117	24	110	110	111	23	118	119	119	23	114	115	115	24
4/19	115	116	119	24	110	111	111	23	119	119	120	23	114	115	116	24
4/20	116	117	119	24	113	114	115	23	116	117	119	23	116	116	117	24
4/21	116	117	118	24	112	112	113	23	115	117	119	23	113	114	115	24
4/22	115	116	117	24	109	109	110	23	117	118	118	23	112	115	116	24
4/23	116	118	120	24	109	110	111	23	117	118	118	23	113	114	116	24
4/24	116	117	118	24	111	112	112	23	114	116	118	23	113	114	115	24
4/25	117	117	118	24	112	113	113	23	115	117	118	23	112	113	118	24
4/26	117	118	119	24	113	114	115	23	115	116	118	23	113	115	121	24
4/27	116	118	119	24	114	114	115	23	115	117	118	23	115	117	124	24
4/28	118	119	120	24	115	116	116	23	119	119	120	23	115	115	118	16
4/29	117	118	119	24	115	116	116	23	119	119	120	23	116	117	118	24
4/30	116	117	118	24	114	115	115	24	118	118	118	24	116	116	117	24
5/1	117	118	119	24	113	113	114	23	117	117	118	23	115	116	117	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary

From: 4/18/03 to 5/1/03

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Winthrop NFH	CH1	SP	2003	45,000	04-14-03	04-18-03	Omak Creek	Okanogan River
Colville Tribe	Winthrop NFH	CH1	SP	2003	100,000	04-14-03	04-18-03	Ellisford Pond	Okanogan River
Colville Tribe Total					145,000				
Idaho Dept. of Fish and Wildlife	Clearwater Hatchery	ST	SU	2003	108,052	04-21-03	04-21-03	Clear Creek	Clearwater River M
Idaho Dept. of Fish and Wildlife	Clearwater Hatchery	ST	SU	2003	149,664	04-18-03	04-18-03	Redhouse (SFk ClearH20 R)	S Fk Clearwater Riv
Idaho Dept. of Fish and Wildlife	Clearwater Hatchery	ST	SU	2003	264,558	04-19-03	04-19-03	Crooked R Acclim Pond	S Fk Clearwater Riv
Idaho Dept. of Fish and Wildlife	Magic Valley Hatchery	ST	SU	2003	27,707	04-24-03	04-24-03	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Magic Valley Hatchery	ST	SU	2003	32,665	04-25-03	04-25-03	Valley Creek	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Magic Valley Hatchery	ST	SU	2003	166,791	04-28-03	04-29-03	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Magic Valley Hatchery	ST	SU	2003	169,747	04-18-03	04-21-03	McNabb/Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Magic Valley Hatchery	ST	SU	2003	202,079	04-23-03	04-23-03	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Magic Valley Hatchery	ST	SU	2003	215,666	04-23-03	04-25-03	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Magic Valley Hatchery	ST	SU	2003	336,983	04-29-03	05-01-03	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Niagara Springs	ST	SU	2003	170,000	05-01-03	05-04-03	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Niagara Springs	ST	SU	2003	843,257	04-12-03	05-01-03	Pahsimeroi Hatchery	Pahsimeroi River
Idaho Dept. of Fish and Wildlife	Rapid River Hatchery	CH1	SP	2003	2,330,557	03-17-03	04-28-03	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Wildlife	Sawtooth Hatchery	CH1	SP	2003	144,976	04-07-03	04-18-03	Sawtooth Hatchery	Salmon River (ID)
Idaho Dept. of Fish and Wildlife	Sawtooth Hatchery	CH1	SP	2003	960,193	04-07-03	04-18-03	Sawtooth Hatchery	Salmon River (ID)
Idaho Dept. of Fish and Wildlife Total					6,122,895				
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2003	23,310	04-22-03	04-22-03	Meadow Creek - CLES	S Fk Clearwater Riv
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2003	33,362	04-23-03	04-23-03	Mill Cr Bridge	S Fk Clearwater Riv
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2003	43,070	04-22-03	04-22-03	Lolo Creek	Clearwater River M
Nez Perce Tribe	Dworshak NFH	CO	UN	2003	293,879	04-23-03	04-23-03	Clear Creek	Clearwater River M
Nez Perce Tribe	Hagerman NFH	ST	SU	2003	100,000	04-29-03	05-05-03	American River	S Fk Clearwater Riv
Nez Perce Tribe Total					493,621				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2003	100,000	04-14-03	04-18-03	Big Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2003	320,000	04-15-03	05-09-03	Bel. Pelton Dam	Deschutes River
Oregon Dept. of Fish and Wildlife Total					420,000				
Shoshone-Bannock Tribe	Hagerman NFH	ST	SU	2003	139,445	04-18-03	05-16-03	Yankee Fk Pond	Salmon River (ID)
Shoshone-Bannock Tribe Total					139,445				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2003	200,000	04-14-03	04-18-03	Clear Creek	Clearwater River M
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2003	500,000	04-14-03	04-18-03	Redhouse (SFk ClearH20 R)	S Fk Clearwater Riv
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2003	1,300,000	04-21-03	04-25-03	Dworshak Hatchery	Clearwater River M
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2003	748,027	04-09-03	04-29-03	Sawtooth Hatchery	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2003	1,290,800	04-21-03	04-21-03	Leavenworth Hatchery	Wenatchee River
U.S. Fish and Wildlife Service	Winthrop NFH	CO	UN	2003	243,000	04-21-03	05-02-03	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2003	120,000	04-15-03	04-30-03	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					4,401,827				
Umatilla Tribe	Bonneville Hatchery	CH1	FA	2003	240,000	04-11-03	04-18-03	Thornhollow Acclim Pond	Umatilla River
Umatilla Tribe	Little White Salmon NFH	CH1	SP	2003	350,000	04-10-03	04-18-03	Imeques Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2003	50,000	04-21-03	04-30-03	Minthorn Acclimation Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2003	50,000	04-21-03	04-30-03	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe Total					690,000				
Warm Springs Tribe	Oak Springs Hatchery	ST	SU	2003	39,900	04-03-03	05-01-03	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2003	26,679	04-10-03	04-29-03	Parkdale Acclim Pond	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2003	27,368	04-10-03	04-29-03	E Fk Irrig Dist Sand Trap	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2003	40,231	04-07-03	04-22-03	Jones Creek Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2003	55,978	04-07-03	04-22-03	Blackberry Acclim Pond	Hood River
Warm Springs Tribe Total					190,156				

HATCHERY RELEASE SUMMARY LAST TWO WEEKS (con't)

Hatchery Release Summary

From: 4/18/03 to 5/1/03

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SP	2003	378,000	04-21-03	04-30-03	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2003	25,000	04-30-03	04-30-03	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2003	150,806	04-22-03	04-22-03	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2003	249,043	04-30-03	04-30-03	Carlton Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2003	453,862	04-23-03	04-23-03	Dryden Acclim Pond	Wenatchee River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2003	31,000	04-14-03	04-18-03	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2003	50,000	04-14-03	04-18-03	Curl Lake	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2003	60,000	04-14-03	04-18-03	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2003	100,000	04-01-03	04-30-03	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2003	125,000	04-14-03	04-18-03	Walla Walla River	Walla Walla River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2003	135,000	04-14-03	04-18-03	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2003	200,000	04-01-03	04-30-03	Cottonwood Acclim Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2003	58,700	04-14-03	04-25-03	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2003	131,500	04-14-03	04-25-03	Methow Hatchery	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2003	262,500	04-14-03	04-25-03	Chewuch Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	ST	SU	2003	171,000	04-09-03	04-30-03	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2003	15,000	05-01-03	05-10-03	Drano Lake	Little White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2003	100,000	05-01-03	05-10-03	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2003	20,000	04-21-03	04-30-03	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2003	150,000	03-15-03	04-18-03	Curl Lake	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2003	150,000	03-15-03	04-18-03	Curl Lake	Tucannon River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2003	120,000	04-13-03	05-23-03	Above Rocky Reach Dam	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2003	204,400	04-30-03	04-30-03	Turtle Rock Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2003	16,868	04-30-03	04-30-03	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2003	16,869	04-28-03	04-30-03	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2003	112,943	04-28-03	04-30-03	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	ST	SU	2003	156,430	04-29-03	05-01-03	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2003	121,000	04-07-03	05-30-03	Bel. Priest Rapids Dam	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2003	177,300	04-14-03	04-30-03	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	57,095	04-21-03	05-16-03	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	57,095	04-21-03	05-16-03	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	105,890	04-15-03	05-16-03	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	107,055	04-21-03	05-16-03	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	107,055	04-21-03	05-16-03	Methow River	Methow River
Washington Dept. of Fish and Wildlife Total					4,376,411				
Yakama Tribe	Cascade Hatchery	CO	UN	2003	75,027	04-23-03	05-02-03	Wenatchee River	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2003	272,755	04-23-03	05-02-03	Nason Creek	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2003	453,098	04-23-03	05-02-03	Icicle Creek	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2003	39,319	03-14-03	05-15-03	Easton Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2003	81,113	03-14-03	05-15-03	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2003	250,852	03-14-03	05-15-03	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CO	UN	2003	82,525	04-07-03	05-07-03	Yakama River	Yakama River
Yakama Tribe	Cle Elem Hatchery	CO	UN	2003	180,761	04-07-03	05-07-03	Lost Creek Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CO	UN	2003	262,046	04-07-03	05-07-03	Easton Pond	Yakama River
Yakama Tribe	Stiles Pond	CO	UN	2003	169,629	04-07-03	05-07-03	Yakama River	Yakama River
Yakama Tribe	Willard Hatchery	CO	UN	2003	37,483	04-23-03	05-02-03	Wenatchee River	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2003	100,794	04-23-03	05-02-03	Little Wenatchee River	Wenatchee River
Yakama Tribe Total					2,005,402				
Grand Total					18,984,757				

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary

From:	5/2/03	to	5/15/03						
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Wildlife	Niagara Springs	ST	SU	2003	170,000	05-01-03	05-04-03	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Wildlife Total					170,000				
Nez Perce Tribe	Hagerman NFH	ST	SU	2003	100,000	04-29-03	05-05-03	American River	S Fk Clearwater River
Nez Perce Tribe	Hagerman NFH	ST	SU	2003	100,000	05-07-03	05-12-03	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe Total					200,000				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2003	3,000	05-03-03	05-04-03	Deer Creek	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2003	76,500	05-07-03	05-08-03	L Sheep Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2003	320,000	04-15-03	05-09-03	Bel. Pelton Dam	Deschutes River
Oregon Dept. of Fish and Wildlife Total					399,500				
Shoshone-Bannock Tribe	Hagerman NFH	ST	SU	2003	139,445	04-18-03	05-16-03	Yankee Fk Pond	Salmon River (ID)
Shoshone-Bannock Tribe Total					139,445				
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2003	3,500,000	05-08-03	05-08-03	Spring Creek Hatchery	L Col R (D/s McN Dam)
U.S. Fish and Wildlife Service	Winthrop NFH	CO	UN	2003	243,000	04-21-03	05-02-03	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					3,743,000				
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2003	15,000	05-01-03	05-10-03	Drano Lake	Little White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2003	100,000	05-01-03	05-10-03	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Turtle Rock Hatchery	CH1	SU	2003	120,000	04-13-03	05-23-03	Above Rocky Reach Dam	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2003	121,000	04-07-03	05-30-03	Bel. Priest Rapids Dam	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	57,095	04-21-03	05-16-03	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	57,095	04-21-03	05-16-03	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	105,890	04-15-03	05-16-03	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	107,055	04-21-03	05-16-03	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2003	107,055	04-21-03	05-16-03	Methow River	Methow River
Washington Dept. of Fish and Wildlife Total					790,190				
Yakama Tribe	Cascade Hatchery	CO	UN	2003	75,027	04-23-03	05-02-03	Wenatchee River	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2003	272,755	04-23-03	05-02-03	Nason Creek	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2003	453,098	04-23-03	05-02-03	Icicle Creek	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2003	39,319	03-14-03	05-15-03	Easton Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2003	81,113	03-14-03	05-15-03	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2003	250,852	03-14-03	05-15-03	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CO	UN	2003	82,525	04-07-03	05-07-03	Yakama River	Yakama River
Yakama Tribe	Cle Elem Hatchery	CO	UN	2003	180,761	04-07-03	05-07-03	Lost Creek Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CO	UN	2003	262,046	04-07-03	05-07-03	Easton Pond	Yakama River
Yakama Tribe	Klickitat Hatchery	CH0	SP	2003	300,000	05-06-03	05-07-03	Klickitat River	Klickitat River
Yakama Tribe	Stiles Pond	CO	UN	2003	169,629	04-07-03	05-07-03	Yakama River	Yakama River
Yakama Tribe	Willard Hatchery	CO	UN	2003	37,483	04-23-03	05-02-03	Wenatchee River	Wenatchee River
Yakama Tribe	Willard Hatchery	CO	UN	2003	100,794	04-23-03	05-02-03	Little Wenatchee River	Wenatchee River
Yakama Tribe Total					2,305,402				
Grand Total					7,747,537				

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)
04/18/2003	*	193	432	264	84	30,962	9,310	6,778	191	---	3,641	48,690
04/19/2003	*	---	943	---	---	---	11,153	8,733	224	15,423	4,497	77,547
04/20/2003	*	---	851	---	---	43,732	10,332	7,001	125	---	5,720	111,984
04/21/2003	*	64	614	153	4	40,568	9,761	7,236	69	5,663	6,592	61,443
04/22/2003	*	56	410	112	13	69,019	15,910	8,223	10	---	5,274	51,590
04/23/2003	*	115	608	160	9	95,806	20,212	13,526	---	14,236	6,500	66,845
04/24/2003	*	469	407	148	31	99,732	62,404	9,086	567	---	11,171	68,424
04/25/2003	*	1,209	327	198	118	134,922	43,308	11,658	1,008	24,281	11,265	61,779
04/26/2003	*	---	122	---	---	76,540	62,566	19,094	430	---	13,850	59,861
04/27/2003	*	---	235	---	---	167,516	61,111	23,189	409	47,282	11,741	59,662
04/28/2003	*	2,188	217	114	65	118,134	52,806	17,756	426	---	10,244	47,980
04/29/2003	*	1,117	96	46	46	63,420	53,122	16,925	68	51,461	12,394	57,580
04/30/2003	*	930	112	20	19	75,718	37,366	23,931	484	---	13,744	66,937
05/01/2003	*	116	167	36	15	105,409	45,591	19,867	270	68,810	21,852	62,716
Total:		6,457	5,541	1,251	404	1,121,478	494,952	193,003	4,281	227,156	138,485	903,038
# Days:		10	14	10	10	13	14	14	13	7	14	14
Average:		646	396	125	40	86,268	35,354	13,786	329	32,451	9,892	64,503
YTD		31,644	32,362	10,437	1,032	1,424,676	533,459	275,696	5,133	251,523	190,387	1,072,859

		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)
04/18/2003	*	0	0	0	0	0	0	0	52	---	26	12,645
04/19/2003	*	---	0	---	---	---	0	0	37	925	11	12,156
04/20/2003	*	---	0	---	---	0	0	0	8	---	0	6,639
04/21/2003	*	0	0	1	2	149	0	0	40	1,008	14	7,164
04/22/2003	*	0	0	0	2	144	35	0	1	---	0	7,107
04/23/2003	*	0	2	0	2	0	0	0	---	524	0	1,692
04/24/2003	*	0	0	0	0	415	0	0	39	---	0	3,769
04/25/2003	*	0	6	1	1	0	0	0	27	612	0	2,323
04/26/2003	*	---	0	---	---	0	0	0	13	---	0	1,541
04/27/2003	*	---	0	---	---	197	0	0	11	1,206	0	517
04/28/2003	*	0	0	0	2	207	0	37	19	---	36	1,072
04/29/2003	*	0	0	0	0	0	7	0	80	3,441	11	1,614
04/30/2003	*	0	0	0	0	207	5	0	1	---	14	722
05/01/2003	*	0	0	1	0	208	0	0	4	1,306	70	120
Total:		0	8	3	9	1,527	47	37	332	9,022	182	59,081
# Days:		10	14	10	10	13	14	14	13	7	14	14
Average:		0	1	0	1	117	3	3	26	1,289	13	4,220
YTD		1	14	9	85	4,306	64	202	1,323	22,510	874	1,103,589

* 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)
04/18/2003	*	0	0	0	0	0	27	0	1	---	52	2,326
04/19/2003	*	---	0	---	---	---	87	0	0	65	57	1,806
04/20/2003	*	---	0	---	---	0	71	0	0	---	77	3,541
04/21/2003	*	0	0	0	0	0	29	0	3	0	85	4,493
04/22/2003	*	0	0	0	0	0	0	0	1	---	18	7,633
04/23/2003	*	0	0	0	0	0	0	0	---	37	148	14,102
04/24/2003	*	0	0	0	0	0	0	0	5	---	218	29,573
04/25/2003	*	0	0	0	0	0	87	0	1	0	404	29,031
04/26/2003	*	---	0	---	---	0	---	0	1	---	899	34,992
04/27/2003		---	0	---	---	791	---	56	1	0	392	34,609
04/28/2003	*	0	0	0	0	207	---	37	1	---	416	20,371
04/29/2003	*	0	0	0	0	206	---	36	0	299	592	31,346
04/30/2003	*	0	0	0	0	0	---	0	1	---	712	44,063
05/01/2003	*	0	0	0	0	0	---	37	7	145	1,340	39,975
Total:		0	0	0	0	1,204	301	166	22	546	5,410	297,861
# Days:		10	14	10	10	13	8	14	13	7	14	14
Average:		0	0	0	0	93	38	12	2	78	386	21,276
YTD		0	0	0	10	1,538	324	166	26	604	6,755	348,613

		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)
04/18/2003	*	44	3,419	273	172	31,658	7,330	7,826	7	---	844	727
04/19/2003	*	---	1,738	---	---	---	6,681	8,019	9	4,058	879	2,453
04/20/2003	*	---	818	---	---	32,762	8,120	4,430	5	---	772	1,475
04/21/2003	*	25	487	150	66	26,748	11,148	7,641	8	1,123	923	3,157
04/22/2003	*	61	338	48	263	34,870	7,290	6,508	0	---	896	3,422
04/23/2003	*	68	452	48	62	26,356	15,171	6,348	---	4,720	1,669	6,205
04/24/2003	*	93	1,237	14	114	35,041	13,644	7,217	40	---	3,521	1,740
04/25/2003	*	57	1,469	33	219	96,718	18,469	6,563	41	4,474	3,033	6,271
04/26/2003	*	---	1,136	---	---	95,083	43,319	12,476	31	---	5,366	5,942
04/27/2003		---	634	---	---	79,705	28,105	19,294	49	2,975	5,352	6,715
04/28/2003	*	126	450	20	151	135,780	21,492	15,399	79	---	3,560	8,845
04/29/2003	*	102	214	8	79	61,773	28,319	26,508	25	2,703	4,312	10,225
04/30/2003	*	66	339	6	68	93,955	33,128	31,753	142	---	5,871	12,882
05/01/2003	*	87	326	11	132	59,279	234,189	53,079	125	4,645	5,843	14,243
Total:		729	13,057	611	1,326	809,728	476,405	213,061	561	24,698	42,841	84,302
# Days:		10	14	10	10	13	14	14	13	7	14	14
Average:		73	933	61	133	62,287	34,029	15,219	43	3,528	3,060	6,022
YTD		1,246	17,726	1,261	2,076	968,073	495,477	225,105	592	31,285	58,836	111,860

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

		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)
04/18/2003	*	0	0	0	0	0	0	0	69	---	0	0
04/19/2003	*	---	0	---	---	---	0	0	157	16	0	0
04/20/2003	*	---	0	---	---	0	64	0	291	---	22	0
04/21/2003	*	0	0	0	0	0	0	0	278	39	0	0
04/22/2003	*	0	0	0	0	0	0	0	25	---	34	0
04/23/2003	*	0	0	0	0	0	0	0	---	489	0	282
04/24/2003	*	0	0	0	0	0	0	0	251	---	0	0
04/25/2003	*	0	0	0	0	201	0	0	204	2,414	58	0
04/26/2003	*	---	0	---	---	0	0	0	40	---	90	0
04/27/2003	*	---	0	---	---	0	0	56	182	9,328	28	0
04/28/2003	*	0	0	0	0	0	0	37	627	---	72	0
04/29/2003	*	0	0	0	0	0	11	0	67	20,197	72	135
04/30/2003	*	0	0	0	0	207	1	36	271	---	197	120
05/01/2003	*	0	0	0	0	0	0	0	101	41,227	363	239
Total:		0	0	0	0	408	76	129	2,563	73,710	936	776
# Days:		10	14	10	10	13	14	14	13	7	14	14
Average:		0	0	0	0	31	5	9	197	10,530	67	55
YTD		0	0	0	0	574	179	267	3,161	73,936	1,314	962

* 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: 05/01

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	136,395	1,941	170,891	1,497	84,794	1,347	0	0	0	0	0	0	0	0	0	0	0	0
TDA	83,763	795	71,817	257	47,912	608	0	0	0	0	0	0	0	0	0	0	0	0
JDA	62,127	702	43,933	130	35,095	374	0	0	0	0	0	0	0	0	0	0	0	0
MCN	55,515	493	18,774	209	25,861	235	0	0	0	0	0	0	0	0	0	0	0	0
IHR	38,125	184	5,933	7	14,257	128	0	0	0	0	0	0	0	0	0	0	0	0
LMN	32,565	120	4,790	44	13,240	88	0	0	0	0	0	0	0	0	0	0	0	0
LGS	27,439	157	3,163	23	11,617	97	0	0	0	0	0	0	0	0	0	0	0	0
LWG	30,281	83	1,471	8	10,387	49	0	0	0	0	0	0	0	0	0	0	0	0
PRD	9,963	3	2,186	1	4,221	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	6,748	50	176	3	1,072	2	0	0	0	0	0	0	0	0	0	0	0	0
RRH	1,672	0	43	0	363	1	0	0	0	0	0	0	0	0	0	0	0	0
WEL	0	0	1	0	32	0	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	0	0	0	2,632	3,858	2,301	658
TDA	0	0	0	0	0	0	0	0	0	795	2,327	991	441
JDA	0	0	0	0	0	0	0	0	0	1,333	7,371	3,008	797
MCN	0	0	0	0	0	0	0	0	0	1,329	4,664	1,855	794
IHR	0	0	0	0	0	0	0	0	0	1,418	4,518	2,224	690
LMN	0	0	0	0	0	0	0	0	0	1,788	4,904	2,311	1,072
LGS	0	0	0	0	0	0	1	0	0	1,930	5,915	1,695	1,175
LWG	0	0	0	0	0	0	0	0	0	15,602	12,103	5,361	3,585
PRD	0	0	0	0	0	0	1	0	0	7	22	2	0
RIS	0	0	0	0	0	0	0	0	0	17	53	26	13
RRH	0	0	0	0	0	0	0	0	0	43	141	42	32
WEL	0	0	0	0	0	0	0	0	0	0	4	2	0

IHR, LMN, LGS are missing data for 4/23. IHR is missing data for 04/26. LGR is missing data for 3/6.
 RIS, RRH are through 04/30. Although WEL began their counts early on 4/15, they won't have data posted until early May.
 **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: 5/2/03

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

04/19/03 TO 05/02/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,095	862,020	1,044	298	632,015	1,496,472
	Sum of NumberBarged	1,344	901,514	1,143	390	658,996	1,563,387
	Sum of NumberBypassed	0	12,324	0	0	7,966	20,290
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	0	1,604	1	5	180	1,790
LGS	Sum of NumberCollected	34	373,367	221	54	355,924	729,600
	Sum of NumberBarged	32	371,028	220	53	359,409	730,742
	Sum of NumberBypassed	0	4	0	0	0	4
	Sum of Numbertrucked	0	8,673	0	0	0	8,673
	Sum of TotalProjectMortalities	2	360	1	1	76	440
LMN	Sum of NumberCollected	20	105,214	90	70	115,976	221,370
	Sum of NumberBarged	20	107,982	86	70	117,609	225,767
	Sum of NumberBypassed	0	623	0	0	109	732
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	0	121	4	0	58	183
MCN	Sum of NumberCollected	5,790	145,441	360	49,337	15,087	216,015
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	5,789	145,400	360	49,331	15,079	215,959
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	1	41	0	6	8	56
Total Sum of NumberCollected		6,939	1,486,042	1,715	49,759	1,119,002	2,663,457
Total Sum of NumberBarged		1,396	1,380,524	1,449	513	1,136,014	2,519,896
Total Sum of NumberBypassed		5,789	158,351	360	49,331	23,154	236,985
Total Sum of Numbertrucked		0	8,673	0	0	0	8,673
Total Sum of TotalProjectMortalities		3	2,126	6	12	322	2,469

YTD Transportation Summary

TO: 05/02/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	3,205	1,038,442	1,144	438	703,193	1,746,422
	Sum of NumberBarged	2,382	989,363	1,203	448	692,657	1,686,053
	Sum of NumberBypassed	0	17,617	0	0	11,596	29,213
	Sum of NumberTrucked	816	54,208	40	78	15,402	70,544
	Sum of TotalProjectMortalities	7	2,585	1	9	215	2,817
LGS	Sum of NumberCollected	47	402,216	237	127	370,009	772,636
	Sum of NumberBarged	40	391,135	235	119	369,071	760,600
	Sum of NumberBypassed	0	4	0	0	0	4
	Sum of NumberTrucked	5	10,544	0	5	850	11,404
	Sum of TotalProjectMortalities	2	511	1	3	88	605
LMN	Sum of NumberCollected	165	161,057	90	180	123,744	285,236
	Sum of NumberBarged	105	144,802	86	140	121,900	267,033
	Sum of NumberBypassed	0	737	0	0	132	869
	Sum of NumberTrucked	60	15,149	0	40	1,637	16,886
	Sum of TotalProjectMortalities	0	369	4	0	75	448
MCN	Sum of NumberCollected	18,323	164,342	406	49,528	20,950	253,549
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	18,289	164,283	406	49,521	20,941	253,440
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	34	59	0	7	9	109
Total Sum of NumberCollected		21,740	1,766,057	1,877	50,273	1,217,896	3,057,843
Total Sum of NumberBarged		2,527	1,525,300	1,524	707	1,183,628	2,713,686
Total Sum of NumberBypassed		18,289	182,641	406	49,521	32,669	283,526
Total Sum of NumberTrucked		881	79,901	40	123	17,889	98,834
Total Sum of TotalProjectMortalities		43	3,524	6	19	387	3,979

