



Fish Passage Center

Weekly Report #02 - 9

May 10, 2002

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SUMMARY OF EVENTS:

- Precipitation over the start of May has averaged between 15% and 108% of that recorded over the same period between 1971 and 2000.
- Grand Coulee is currently drafting reservoir water at a rate of 0.6 feet/day (not to exceed an elevation of 1240 feet AMSL), to supplement flows in the Columbia River.
- The NWRFC released the May Final water supply forecast; many sites reported increasing forecasts between the April Final and May Final forecasts.
- Flows at Lower Granite have averaged 73.4 Kcfs between April 3rd and May 9th and 72.8 Kcfs over the week from May 3rd to May 9th (BiOp target = 97 Kcfs).
- Flows at McNary have averaged 235.7 Kcfs between April 10th and May 9th and 225.9 Kcfs over the week May 3rd to May 9th (BiOp target = 246 Kcfs).
- Flows at Priest Rapids have averaged 155.7 Kcfs between April 10th and May 9th and 150.5 Kcfs over the week from May 3rd to May 9th (BiOp target = 135 Kcfs).
- Combined storage in the Upper Snake River System is at 62% of capacity.

Water Supply: Precipitation has been minimal over the start of May, ranging from 15% to 108% of average. May precipitation appears to be especially low in the Snake River Basin, Central Washington, and the Willamette Valley. WY 2002 remains approximately average in terms of cumulative precipitation.

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

Location	May 2002		Cumulative 10/1/01 - 5/7/02	
	Observed (inches)	% Avg	Observed (inches)	% Avg
Columbia Above Coulee	0.47	93	16.21	99
Snake R. Above Ice Harbor	0.17	39	11.41	94
Columbia Above The Dalles	0.32	73	16.11	98
Kootenai	0.54	108	14.46	86
Clark Fork	0.26	57	11.3	106
Flathead	0.50	92	15.07	105
Pend Oreille/Spokane	0.60	101	26.96	117
Central Washington	0.03	15	6.20	92
Snake R. Plain	0.08	23	5.67	76
Clearwater	0.47	68	23.65	108
SW Washington Cascades/Cowlitz	0.64	75	66.10	111
Willamette Valley	0.40	51	52.79	104

According to the Northwest River Forecast Center (NWRFC), warmer conditions are expected to exist throughout the Pacific Northwest (PNW) over the over the next several days, accompanied also with some precipitation. In general, river flows are expected to increase slightly as a result of precipitation and increases in snowmelt.

The NWRFC released the May Final water supply forecast. Table 2 displays the 2002 April Final runoff volume forecast along with the May Final forecast for multiple reservoirs. Of the ten locations displayed in Table 2, five reported increasing forecasts between the April Final and

May Final water supply forecasts, three reported no change, and two showed decreasing forecasts.

Table 2. April Final and May Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins during WY 2002.

Site	April Final		May Final	
	Runoff Volume (Kaf)	% of Avg	Runoff Volume (Kaf)	% of Avg
Mica (April-Sept)	11700	94	11700	94
Hungry Horse (April-Sept)	2060	97	2180	103
Libby (April-Sept)	6570	99	6750	102
Grand Coulee (Jan-July)	61100	97	62300	99
The Dalles (Jan-July)	96400	90	98200	92
Brownlee (April-July)	3630	58	3580	57
Dworshak (April-July)	3050	115	3050	115
Lower Granite (Jan-July)	24200	81	24200	81
Heise (ID) (April-July)	2670	75	2870	81
Weiser (ID) (April-July)	3210	56	3130	54

Generally, operations have varied at storage reservoirs along the Columbia and Snake Rivers.

The Grand Coulee Reservoir has been passing inflows and drafting reservoir water at a rate of 0.6 feet per day over the last four days to supplement flows in the Columbia River. The Bureau of Reclamation (BOR) has agreed to draft Grand Coulee down to an elevation of 1240 feet AMSL to assist Columbia River flows before the onset of the spring freshet. As of midnight on 5-9-02, Grand Coulee was at an elevation of 1242.3 feet AMSL; therefore, at the current draft rate, Grand Coulee will continue to supplement flows for approximately four more days. Outflows over the last five days (5-5-02 to 5-9-02) have averaged 126.5 Kcfs.

Libby has been refilling over the past 4 ½ weeks, operating to a minimum outflow of 4.0 Kcfs, in anticipation of future flows needed for bull trout and sturgeon. Libby is currently (midnight, 5-9-02) at an elevation of 2383.2 feet AMSL; 75.8 feet from the full pool elevation of 2459 feet AMSL.

Over the past week, the Dworshak reservoir refilled from 5-3-02 to 5-5-02, gaining 0.5 feet in elevation. After 5-5-02, Dworshak has been drafting at an average rate of 0.4 feet per day. Throughout the last week (5-3-02 to 5-9-02), total outflows have averaged approximately 14.5 Kcfs. Currently (midnight, 5-9-02), Dworshak is at an elevation of 1513.7 feet AMSL; 86.3 feet below the full pool elevation of 1600 feet AMSL.

Over the past week, the Brownlee reservoir has been actively refilling, increasing 3.2 feet from 5-3-02 to 5-9-02. Currently (midnight, 5-9-02), Brownlee is at an elevation of 2067.0 feet AMSL; 10.0 feet below its full pool elevation of 2077 feet AMSL.

The Hungry Horse Reservoir has been passing inflows and drafting reservoir water at a rate of 0.1 feet per day over the last six days. Currently (midnight, 5-9-02), Hungry Horse is at an elevation of 3514.7 feet AMSL; 45.3 feet below its full pool elevation of 3560 feet AMSL.

Flows along the Columbia River are projected to continue to be low over the upcoming week, influencing the Biological Opinion flow targets at McNary, Priest Rapids, and Lower Granite. To meet flow targets, flows will likely need to be supplemented with water from the storage reservoirs.

Based upon the April final forecasts, flow objectives are 97 kcfs at Lower Granite between 4/3/02 and 6/20/02, 246 kcfs at McNary between 4/10/02 and 6/30/02, and 135 kcfs at Priest Rapids from 4/10/02 and 6/30/02. The flow objectives are intended to represent averages over the designated time periods. From April 3rd to May 9th, 2002, outflows at Lower Granite have averaged 73.4 Kcfs; from April 10th to May 9th, 2002, outflows at McNary have averaged 235.7 Kcfs; from April 10th to May 9th, 2002, outflows at Priest Rapids have averaged 155.7 Kcfs. Therefore, to date, flow objectives are only being met at Priest

Rapids. Over the week from May 3rd to 9th, 2002 flows have averaged 72.8 Kcfs at Lower Granite, 225.9 Kcfs at McNary, and 150.5 Kcfs at Priest Rapids. On a weekly basis, BiOp flow objectives are again only being met at Priest Rapids. It is important to note that without significant supplemental water from storage reservoirs, each of the projects will likely continue to struggle to meet the BiOp flow objectives until the spring freshet begins.

Over the beginning of WY 2002, reservoirs on the Upper Snake River have been consistently refilling, yet many remain behind where they are ordinarily in terms refill. Currently, as of May 9th, 2002, the entire Upper Snake River System is at 62% of capacity. Individually, American Falls is at 82% of capacity, Palisades is at 49% of capacity, Jackson Lake is at 30% of capacity, Island Park is at 98% of capacity, Lake Walcott is at 101% of capacity, Milner is at 95% of capacity, and Grassy Lake is at 71% of capacity.

Spill. Spill continued at Dworshak Dam at a rate of 3.5 to 3.8 Kcfs. Testing of the RSW at Lower Granite Dam continues with alternating spill levels. At Little Goose Dam the 12-hour spill levels were increased to better approach the TDG waiver levels. Lower Monumental Dam continues to operate in alternating blocks of transportation for two days followed by one day of primary bypass. At Ice Harbor Dam spill is being implemented up to the daytime cap during daylight hours and 100 % of instantaneous flow during nighttime hours.

Spill for fish passage is also being implemented in the lower Columbia River. Spill over the past week averaged 31% of average daily flow at McNary Dam, 29% of average daily flow at John Day Dam, 39% of average daily flow at The Dalles Dam and 55 of average daily flow at Bonneville Dam. Daytime spill test are being implemented at John Day and Bonneville dams. All Mid Columbia River projects are spilling at this time. A spill test of surface spill through a fully open spillbay at gate 17 is being conducted at Priest Rapids Dam between May 8 and 15. During this time spill will be 60 Kcfs for 24 hours. Subsequent to the test the project will return to spilling the normal MOA spill of 61% of instantaneous hourly flow. The total dissolved gas

levels at all federal and Mid Columbia hydroprojects are presently below the water quality waiver standards. A few fish with minor signs of GBT were observed at Rock Island, Little Goose and Lower Monumental dams this past week.

Smolt Monitoring: The yearling chinook numbers collected at Snake River basin Traps were down again this week with a total of 1,395 collected at all SMP traps versus over 4,078 last week. The average daily collection for all traps combined declined from 213 to 69. Steelhead numbers were up compared to the previous week with 5,718 being collected this week versus 4,905 the previous week, with the largest increase in capture due mainly to much higher collection at the White Bird Trap this past week. The Lewiston Trap on the Snake River also showed an increase in steelhead captured with the average daily catch up 50% from last week.

It appears that the juvenile migration is later than historic average in the Snake River this year, with the numbers of juvenile chinook about two weeks behind and steelhead approximately a week behind historic averages. This late migration is probably due to colder than average air temperatures which have resulted in a later than normal run-off.

The passage index for migrant yearling chinook at Lower Granite increased over the past week averaging 115,000 per day versus 40,000 per day last week. On 5/4 there was a large spike of 245,000 chinook which coincided with the return to service of 3 turbines, that were brought back on line after a full load rejection on 5/2. All but turbine 6 were off line, and a full powerhouse shutdown occurred on the 3rd for 8 hours while repairs were made. On the evening of the 3 May three units came back on line. Steelhead indices also spiked on 5/4 when 88,000 were estimated to have passed the project. At Little Goose the average daily index for chinook increased from 41,000 last week to 141,000 this week. The steelhead index nearly doubled from 31,000 daily average last week to 61,000 this week.

At Lower Monumental the project began sampling on 5/1 and no samples two days and then

sends fish through primary bypass on the third day, so that indices are only available on those days when fish are being collected for transporation. Based on this sampling regime there was a slight decrease in the daily average index for yearling chinook, with the index down about 18% from last week at 102,000 fish per day, while steelhead indices were up about 20%, to about 46,000 fish per day.

Rock Island Dam yearling chinook index doubled over the past week with the average daily index increasing from 313 to 660. Steelhead numbers also increased from an average of 56 to 464 comparing this week to last. The sockeye numbers have increased about 15% at Rock Island Dam with 579 average daily index this week versus 506 the previous week.

In the lower Columbia, McNary saw a large increase in juvenile migrants this past week, with an average index of 85,000 yearling chinook this week versus 26,000 last week. Steelhead numbers also rose this week with an average daily index of 15,000 this week compared to 8,400 last week. Sockeye indices were up again this week, about five-fold above last week, with the average daily index of 56,000 compared to 10,000 per day last week. Subyearling chinook numbers were about 20% above last week with an average index of 520 this week compared to 450 the previous week. Coho indices continued increasing at McNary, with average daily index of 1,300 this week versus 500 last week.

At John Day Dam passage index for yearling chinook averaged 53,000 per day this week compared to 20,000. Steelhead indices averaged 11,000 this week versus 9,000 last. Coho numbers increased to an average index of 1,600 this week versus about 700 per day last week, and sockeye average index increased from 3,700 to 12,000 over the past week.

At Bonneville Dam yearling chinook numbers increased 70% with average daily index this week of 81,000 versus 47,000 last week. While steelhead numbers rose to 19,000 per day versus 15,000 per day for last week. An estimated 275,000 subyearling chinook passed the project on 5/3, after that date the index continually decreased

to near 7,000 on 5/9. Coho indices increased dramatically over the last week with an average index of 43,000 versus 10,000 last week. The sockeye index increased this week with daily average index of 4,600 versus 870 last week.

Adult Fish Passage: At Bonneville Dam, passage of adult spring chinook began to decline through the past week with counts ranging between 7,500 and 1,400 per day. The season total of 209,643 adult spring chinook for 2002 compares to 343,781 in 2001 and 88,524 for the 10-year average through May 9 with this year's total about 61% of the 2001 count and 237% of the 10-year average. At The Dalles Dam, 124,217 adult spring chinook have been counted, about 47.9% and 229.3% of the respective 2001 count and the ten-year average. A total of 69,188 adult spring chinook have been counted at McNary Dam with about 38,800 turning off into the Snake River (count at Ice Harbor Dam) and 23,000 counted at Lower Granite Dam. Adult spring chinook at Priest Rapids Dam totaled 12,700 through May 9 with daily counts ranging from 500 to 2,100 per day. The 2002 counts are 32% of the 2001 count, and surpassed the 10-year average this week (149% of 10-yr). The jack chinook count at Bonneville Dam is about 92% of the 10-year average and considering the drought season when these chinook migrated as juvenile fish in 2001, plus reduced numbers of juvenile spring chinook released from hatcheries in 2001, counts of Jack chinook appear encouraging given the circumstances seen in 2001.

Numbers of over-wintering summer steelhead passing upstream projects are nearing completion for 2002 with the Lower Granite Dam count for the spring season totaling 11,546, about double the 2001 and 10-year average. At Bonneville Dam, most steelhead passing the project should still be destined for the lower river tributaries such as the Wind, Hood, White Salmon, and Klickitat. About 50 steelhead per day were passing the project during the week.

Hatchery Releases: For the past two weeks, approximately 14.2 million juvenile chinook, coho and sockeye salmon and steelhead were directly or volitionally released from State, Federal or Tribal

facilities in the Columbia River basin. For the upcoming two weeks, about 6.8 million chinook, sockeye, coho, and steelhead are scheduled for release from hatcheries in the Columbia River basins.

Snake River - Releases of yearling spring chinook are completed for the season. Overall, about 10 million yearling chinook were released from hatcheries last fall (01) and this spring in the Snake River basin for this 2002 migration season. Yearling summer chinook from McCall and Pahsimeroi hatcheries were released in the S. Fk Salmon and Pahsimeroi River basins in late March. About 560,000 coho have been released into Lapwai Creek and Potlatch River with the remaining group scheduled for release from Kooskia NFH in the 2nd week of May. Releases of yearling fall chinook from Lyons Ferry H (direct Snake R releases) and those from the Acclimation ponds at CPT Johns, Pittsburg Landing and Big Canyon (Clearwater) have been completed for the season. About 9.5 million steelhead will be released in the Snake R basin during April/May and hatchery releases are nearing completion for this season's migration. Subyearling fall chinook will be released from the same acclimation ponds as the yearling fall chinook, i.e., CPT Johns, Pittsburg Landing and Big Canyon (Clearwater) with a direct release from Lyons Ferry H also scheduled mainly for June.

Mid-Columbia [above McNary Dam] - Releases of yearling spring chinook from acclimation ponds, outplants or direct stream releases from hatcheries are essentially completed for the 2002 migration season. Sockeye in the Mid-Columbia were released into Lake Wenatchee (direct releases) and the Okanogan River basin during the fall prior to their migration in April through May. Steelhead have been released from Ringold H (mid-April) with the Methow, Okanogan, and Wenatchee River basins still releasing fish through this week and will continue for the next 2-weeks. Coho were released in the Yakama, Wenatchee, and Methow River basins from mid- to late-April and will be completed by late May from the Yakama R basin. Subyearling summer and fall

chinook will be liberated from hatcheries from late May through early July. The subyearling summer and fall chinook release groups comprise almost 50% of the total hatchery production released in this River Zone.

Lower Columbia [Bonneville Dam to McNary Dam] - Yearling spring chinook were released in the Wind, Little White Salmon, Hood, Deschutes, and Umatilla rivers in April with the Umatilla, Klickitat and Hood rivers also releasing fish in March. The remaining release of spring chinook in the Klickitat River will be subyearling spring chinook scheduled for release in the upper Klickitat in late May. The final release of yearling "bright" fall chinook was completed in the Umatilla River (Thornhollow Pd) in April.

Subyearling "tule" fall chinook from Spring Creek NFH was completed early this season with 3.5 million released on 4/30. The remaining subyearling upriver "bright" fall chinook will be released from mid-May through late June. Most yearling coho salmon have been released in this Zone for the season with the final release of coho scheduled for completion in the Klickitat River by May 10. Steelhead releases were scheduled from mid-April through early May in the Umatilla, Klickitat, Deschutes, Hood, and White Salmon rivers. A small number of these released steelhead will be Winter-Run fish.

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
04/26/02	132.5	0.0	135.8	0.0	145.2	9.4	145.1	24.5	147.9	31.0	157.6	60.4	165.5	101.2
04/27/02	108.6	0.0	112.8	0.0	124.1	8.6	125.4	19.6	126.3	25.6	122.2	46.6	119.4	72.7
04/28/02	112.1	0.0	110.7	0.0	113.5	7.5	110.1	17.3	116.0	23.1	118.2	27.2	121.4	74.8
04/29/02	139.8	0.0	142.7	0.0	151.9	9.3	152.6	25.7	152.9	31.5	151.8	12.8	157.6	96.2
04/30/02	149.2	0.0	145.9	0.0	151.9	9.1	153.6	40.6	148.0	33.8	161.9	11.8	176.3	95.5
05/01/02	110.9	0.0	117.4	0.0	124.0	8.9	129.6	39.7	131.9	32.7	142.5	11.6	143.1	88.5
05/02/02	127.7	0.0	124.1	0.0	133.0	8.2	134.2	33.8	135.6	26.6	136.5	32.8	148.4	90.2
05/03/02	109.9	0.0	117.5	0.0	128.5	8.5	133.0	32.4	135.6	25.4	144.9	50.0	154.1	94.7
05/04/02	114.6	0.0	111.6	0.0	120.4	7.7	123.9	28.8	129.1	25.8	142.4	49.8	154.4	94.2
05/05/02	101.8	0.0	103.4	0.0	111.3	7.8	109.9	26.4	114.0	24.1	113.1	39.7	103.3	63.0
05/06/02	143.7	0.0	147.1	0.0	157.6	9.4	159.8	39.2	157.0	32.9	166.9	30.7	171.9	103.9
05/07/02	133.9	0.0	142.7	0.0	155.7	9.4	159.6	38.7	157.8	32.3	168.8	12.5	173.4	105.6
05/08/02	124.8	0.0	121.9	0.0	128.0	9.5	128.5	39.9	128.7	32.1	136.3	11.7	147.9	77.4
05/09/02	128.1	0.0	135.3	0.0	144.7	9.2	148.0	34.8	151.7	28.1	150.2	12.3	148.6	60.9

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
04/26/02	14.9	4.1	13.1	9.3	59.8	19.6	59.0	28.6	61.4	0.0	63.4	47.4
04/27/02	14.7	3.9	14.0	9.4	59.7	18.5	59.5	28.3	62.0	0.0	65.2	50.7
04/28/02	14.7	3.9	13.5	9.4	59.3	19.5	57.0	29.4	59.2	0.0	59.9	51.4
04/29/02	14.7	3.9	12.2	9.4	61.5	22.1	60.6	29.9	64.3	0.0	68.6	56.7
04/30/02	14.6	3.8	12.2	9.4	51.8	23.7	48.9	26.3	47.5	0.0	48.9	38.3
05/01/02	14.4	3.6	14.3	9.3	62.6	43.1	61.7	14.8	66.0	0.0	69.9	56.5
05/02/02	14.4	3.6	14.1	12.6	74.1	53.6	69.4	14.7	72.0	0.0	75.0	56.6
05/03/02	14.1	3.5	15.1	16.1	71.9	56.8	67.4	14.6	70.9	0.0	73.2	60.2
05/04/02	14.4	3.6	12.7	9.4	86.7	27.2	83.5	17.5	87.5	0.0	88.0	65.1
05/05/02	14.4	3.6	15.3	9.4	76.1	23.6	73.3	21.4	75.3	0.0	79.0	60.3
05/06/02	14.5	3.6	15.1	14.5	69.6	17.0	67.7	22.8	72.8	0.0	76.8	58.2
05/07/02	14.4	3.6	13.1	13.1	73.0	22.7	70.6	23.0	75.1	0.0	76.6	54.8
05/08/02	14.4	3.6	14.4	12.2	68.5	24.6	64.2	23.2	66.8	0.0	71.6	55.7
05/09/02	14.6	3.8	---	---	63.8	24.8	55.3	22.2	59.3	0.0	60.5	50.7

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		
04/26/02	232.2	101.7	226.6	67.5	217.9	86.0	242.2	102.6	27.4	105.5
04/27/02	205.2	93.8	228.4	66.7	229.2	82.1	245.9	98.9	30.2	110.1
04/28/02	187.1	77.0	181.3	42.4	169.2	68.6	199.3	139.0	0.3	53.4
04/29/02	217.2	79.6	214.7	65.2	208.9	79.8	205.4	135.3	0.0	63.3
04/30/02	224.8	87.3	234.4	86.6	228.0	88.4	240.3	93.8	17.2	122.6
05/01/02	211.0	76.2	211.6	62.0	210.0	81.8	230.6	90.2	16.7	117.0
05/02/02	214.7	50.2	203.6	38.3	196.3	77.0	213.9	109.1	-0.3	98.8
05/03/02	224.7	59.0	247.9	57.6	246.0	91.2	251.2	116.4	13.5	118.0
05/04/02	239.4	68.3	236.4	88.0	229.1	89.7	245.0	95.2	21.6	121.4
05/05/02	217.5	56.9	219.5	65.0	213.8	84.5	248.0	99.6	24.2	117.9
05/06/02	212.4	65.0	216.2	51.3	215.9	84.8	210.1	149.5	0.6	53.2
05/07/02	241.4	88.0	241.2	71.3	234.7	93.8	240.0	152.6	0.0	80.7
05/08/02	247.3	78.4	257.6	74.9	252.3	97.3	265.5	146.7	3.8	108.4
05/09/02	201.8	73.2	204.4	60.2	209.0	79.0	212.7	144.0	0.0	62.1

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
Lower Granite Dam											
	04/30/02	Yearling Chinook	51	0	0	0.00%	0.00%	0	0	0	0
	04/30/02	Steelhead	49	0	0	0.00%	0.00%	0	0	0	0
	05/07/02	Yearling Chinook	44	0	0	0.00%	0.00%	0	0	0	0
	05/07/02	Steelhead	56	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	05/01/02	Yearling Chinook	59	0	0	0.00%	0.00%	0	0	0	0
	05/01/02	Steelhead	41	0	0	0.00%	0.00%	0	0	0	0
	05/08/02	Yearling Chinook	56	0	0	0.00%	0.00%	0	0	0	0
	05/08/02	Steelhead	43	2	2	4.65%	0.00%	2	0	0	0
Lower Monumental Dam											
	05/06/02	Yearling Chinook	44	1	1	2.27%	0.00%	1	0	0	0
	05/06/02	Steelhead	56	1	1	1.78%	0.00%	1	0	0	0
McNary Dam											
	05/02/02	Yearling Chinook	85	0	0	0.00%	0.00%	0	0	0	0
	05/02/02	Steelhead	15	0	0	0.00%	0.00%	0	0	0	0
	05/06/02	Yearling Chinook	95	0	0	0.00%	0.00%	0	0	0	0
	05/06/02	Steelhead	5	0	0	0.00%	0.00%	0	0	0	0
	05/09/02	Yearling Chinook	93	0	0	0.00%	0.00%	0	0	0	0
	05/09/02	Steelhead	7	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	05/02/02	Yearling Chinook	56	0	0	0.00%	0.00%	0	0	0	0
	05/02/02	Steelhead	2	0	0	0.00%	0.00%	0	0	0	0
	05/09/02	Yearling Chinook	4	0	0	0.00%	0.00%	0	0	0	0
	05/09/02	Steelhead	4	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	05/02/02	Yearling Chinook	60	2	1	1.66%	0.00%	1	0	0	0
	05/02/02	Steelhead	40	2	2	5.00%	0.00%	2	0	0	0
	05/06/02	Yearling Chinook	50	0	0	0.00%	0.00%	0	0	0	0
	05/06/02	Steelhead	50	3	3	6.00%	0.00%	3	0	0	0
	05/09/02	Yearling Chinook	50	0	0	0.00%	0.00%	0	0	0	0
	05/09/02	Steelhead	50	0	0	0.00%	0.00%	0	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
4/26	96	96	97	24	116	119	121	24	109	109	110	24	106	106	106	24	107	107	108	23
4/27	96	97	97	24	115	116	118	24	109	109	110	23	106	106	107	24	107	107	108	24
4/28	96	96	97	24	115	115	116	24	109	109	109	24	106	106	107	24	106	107	107	23
4/29	97	97	97	24	114	116	117	24	109	109	109	21	106	107	107	24	107	108	109	23
4/30	97	98	98	24	114	115	116	20	110	110	111	24	107	107	108	24	109	109	109	23
5/1	98	99	99	24	112	116	117	24	110	110	111	24	108	108	108	24	109	109	110	23
5/2	99	100	100	24	115	117	123	24	111	111	112	21	108	109	110	22	109	110	111	23
5/3	98	99	100	24	114	115	117	24	109	109	110	24	107	107	108	23	109	109	109	23
5/4	98	98	99	24	112	114	117	24	108	109	109	24	107	107	108	23	108	109	109	23
5/5	99	99	99	24	114	115	118	24	109	109	110	24	108	108	109	23	108	109	109	23
5/6	98	99	99	24	113	114	114	24	108	108	108	24	107	107	107	24	107	108	108	23
5/7	96	97	100	21	113	114	114	24	108	108	108	24	106	107	108	24	107	107	108	23
5/8	95	95	96	10	113	114	115	24	108	109	110	21	107	107	107	24	106	107	107	23
5/9	97	97	98	24	115	117	120	24	109	110	111	24	107	108	108	19	107	107	108	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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
4/26	107	108	109	23	106	106	106	24	107	108	109	24	107	108	108	22	108	109	110	22
4/27	108	108	109	24	106	106	106	24	108	108	108	24	107	108	111	24	108	109	111	24
4/28	107	107	108	23	105	105	105	24	107	107	108	24	106	106	107	23	107	108	109	23
4/29	108	108	109	23	105	105	106	24	108	109	109	24	107	107	108	24	108	109	111	24
4/30	109	109	110	23	106	106	106	23	109	109	110	23	108	109	109	24	111	112	113	24
5/1	109	109	110	23	105	106	106	24	109	110	110	24	108	109	109	24	111	113	114	24
5/2	110	111	112	23	106	106	107	23	110	111	111	23	110	110	110	24	112	113	116	24
5/3	109	110	111	23	105	105	106	23	108	109	109	23	108	108	109	24	110	111	113	24
5/4	109	109	110	23	105	105	105	24	108	109	110	24	107	107	107	23	109	110	111	23
5/5	109	110	110	23	106	106	106	23	109	109	109	23	107	107	107	23	109	110	111	23
5/6	107	108	109	23	105	105	105	24	108	108	108	24	106	106	107	24	109	110	111	24
5/7	107	108	109	23	105	105	105	24	107	107	108	24	106	106	106	24	109	110	113	24
5/8	107	108	108	23	105	106	106	24	107	108	108	24	106	106	107	23	110	111	112	23
5/9	107	108	108	23	106	106	107	22	108	108	108	22	107	107	107	23	110	111	112	23

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>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
4/26	110	110	110	22	118	121	123	22	116	117	121	24	117	118	118	24	116	116	118	24
4/27	109	110	110	24	118	122	125	24	115	116	117	24	115	116	117	24	115	115	116	24
4/28	109	109	109	23	116	117	119	23	113	114	114	24	114	115	115	24	114	115	117	24
4/29	109	110	111	24	117	121	123	24	114	116	118	20	115	115	116	24	114	114	115	24
4/30	111	111	112	24	120	123	125	23	116	117	117	24	115	115	116	24	115	116	117	24
5/1	112	112	114	24	121	123	126	23	117	120	122	24	115	116	117	24	114	115	116	24
5/2	113	114	114	24	120	122	126	23	116	116	117	24	115	116	116	24	114	114	115	24
5/3	110	111	112	24	119	122	125	24	113	114	115	24	115	115	116	24	111	112	113	24
5/4	110	110	111	23	116	118	121	23	113	113	114	24	114	115	116	24	113	113	115	24
5/5	110	110	111	23	117	118	123	23	113	113	114	24	113	113	115	24	112	112	113	24
5/6	109	110	110	24	120	121	125	23	112	112	113	24	113	114	115	24	111	113	114	24
5/7	110	111	111	23	121	122	125	23	112	112	113	24	111	112	112	24	110	111	112	24
5/8	110	111	111	23	118	121	125	23	---	---	---	0	---	---	---	0	---	---	---	0
5/9	111	112	112	23	116	117	118	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>Clrwrtr-Peck</u>				<u>Anatone</u>			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/26	121	121	122	24	116	117	118	24	109	109	109	24	104	105	105	24	102	103	104	24
4/27	118	120	120	24	115	115	116	24	108	108	108	24	---	---	---	0	101	101	102	24
4/28	119	119	119	11	113	114	115	24	107	107	107	24	103	104	105	24	102	103	104	24
4/29	120	120	121	13	114	115	116	24	108	108	109	24	104	105	106	24	102	103	104	24
4/30	119	120	121	24	116	117	117	24	109	109	109	24	104	105	105	24	102	103	104	24
5/1	120	120	121	24	115	116	116	24	109	109	110	24	104	105	106	24	102	103	104	23
5/2	119	120	120	24	114	115	116	24	108	109	109	24	104	105	106	24	102	103	104	22
5/3	119	119	120	24	111	112	113	24	107	108	109	24	103	104	104	24	101	102	103	24
5/4	119	119	119	24	112	113	113	24	109	109	109	24	104	104	105	24	102	103	104	24
5/5	116	118	119	24	110	112	113	24	109	109	109	24	104	104	104	24	102	102	103	24
5/6	118	119	119	24	108	110	110	24	108	109	109	24	103	104	104	24	102	102	103	24
5/7	118	119	120	24	111	112	113	21	108	108	109	24	103	103	104	24	101	102	102	24
5/8	---	---	---	0	112	114	115	24	107	108	108	24	103	104	105	24	102	103	104	24
5/9	---	---	---	0	113	113	114	24	108	109	109	24	104	105	106	23	102	103	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-Lewiston</u>				<u>Lower Granite</u>				<u>L. Granite Tlwr</u>				<u>Little Goose</u>				<u>L. Goose Tlwr</u>			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/26	104	105	106	24	103	103	104	24	111	118	120	24	109	110	110	24	114	114	115	24
4/27	102	103	104	24	104	104	104	24	110	116	118	24	109	109	110	24	114	114	115	24
4/28	103	104	106	24	103	104	104	18	109	112	119	18	107	107	107	18	114	114	114	18
4/29	103	105	106	24	104	105	105	24	111	114	119	24	108	109	110	24	114	115	115	24
4/30	103	105	106	24	103	104	105	24	112	115	118	24	110	111	112	24	114	115	115	24
5/1	103	105	106	24	103	104	104	24	116	116	117	24	111	111	112	24	112	114	115	24
5/2	104	105	107	24	105	105	106	24	118	119	121	23	111	112	112	24	112	114	115	24
5/3	102	103	104	24	103	103	104	24	119	120	120	23	108	108	110	24	110	113	114	24
5/4	102	103	104	24	102	102	103	24	113	117	121	24	110	110	110	24	112	115	118	24
5/5	103	103	104	24	102	102	102	24	111	115	121	24	111	111	111	24	115	118	119	24
5/6	102	103	105	24	101	101	102	24	108	108	109	24	111	111	111	24	115	119	120	24
5/7	102	103	104	24	101	101	102	24	110	111	112	24	107	108	110	24	113	119	120	24
5/8	103	104	106	24	102	103	105	24	111	111	112	24	106	106	107	24	113	119	120	24
5/9	103	105	106	24	103	103	104	24	112	112	113	24	105	106	107	24	113	119	120	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>			
	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#	24 h		12 h		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/26	117	118	118	24	117	117	117	24	115	116	116	24	113	114	115	24	117	119	121	24
4/27	126	126	143	11	116	117	117	24	114	115	115	24	113	113	113	24	116	117	118	24
4/28	---	---	---	0	114	114	115	18	113	113	114	18	113	113	113	18	116	118	122	24
4/29	114	114	116	12	113	113	114	24	115	116	118	24	113	114	115	24	114	115	116	24
4/30	116	117	119	24	114	115	116	24	116	117	118	24	112	113	114	24	115	117	121	24
5/1	116	116	118	24	115	115	115	24	115	115	116	24	114	114	115	23	114	116	118	24
5/2	115	116	117	24	115	115	115	24	113	114	114	24	114	114	116	24	113	114	114	24
5/3	111	112	113	24	111	112	113	24	112	112	112	24	114	115	117	24	110	111	112	24
5/4	109	110	111	24	109	110	110	24	110	111	111	24	115	116	119	24	108	108	109	24
5/5	110	110	111	24	109	110	110	24	109	110	110	24	114	115	119	24	108	109	109	24
5/6	109	110	112	23	109	110	111	23	107	107	107	24	114	114	115	24	108	108	108	24
5/7	111	112	113	24	110	111	113	24	106	106	107	24	113	115	118	24	107	107	108	24
5/8	113	114	115	24	112	112	113	24	107	108	111	24	114	115	118	24	109	111	112	24
5/9	113	114	114	24	112	113	113	24	109	109	111	24	113	114	115	24	111	112	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High					
4/26	117	117	117	24	118	120	121	24	109	109	110	23	117	119	120	24	110	110	111	23
4/27	116	117	118	24	117	120	121	24	111	111	111	24	117	119	119	24	109	109	110	24
4/28	115	115	115	24	116	119	121	24	111	111	112	16	113	113	115	16	110	110	110	16
4/29	115	116	118	24	117	119	121	24	113	115	116	23	115	118	119	24	113	115	117	22
4/30	116	117	121	23	118	122	125	23	115	115	115	23	118	119	120	24	115	115	116	23
5/1	116	117	118	24	118	122	123	24	115	115	116	23	116	118	119	24	112	112	113	23
5/2	116	116	117	24	117	120	123	24	115	115	116	23	116	118	119	24	111	111	112	23
5/3	110	111	113	24	115	118	118	24	112	112	113	23	115	119	120	24	109	110	111	23
5/4	109	109	110	24	115	118	118	24	109	109	110	23	118	118	119	24	111	113	114	23
5/5	109	109	110	24	113	117	118	24	108	108	108	23	117	119	119	24	110	110	112	23
5/6	107	108	108	24	113	117	118	24	105	105	106	23	111	117	119	24	107	108	108	23
5/7	106	107	107	24	114	118	118	24	104	104	104	23	110	115	119	21	108	111	112	23
5/8	108	110	113	24	114	118	120	24	105	106	107	23	112	119	120	24	110	113	115	23
5/9	112	113	113	24	116	119	120	24	105	105	106	23	111	117	119	24	110	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>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>				
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	hr			
4/26	117	117	118	24	115	116	116	23	116	118	120	23	115	117	119	24
4/27	116	116	117	24	112	113	113	24	114	117	118	24	114	115	117	24
4/28	116	116	117	16	112	112	113	23	118	119	119	23	113	116	118	24
4/29	118	119	120	24	113	114	116	23	119	119	120	23	118	119	120	24
4/30	119	120	120	24	115	116	116	23	116	117	118	23	116	117	118	24
5/1	118	118	119	24	112	112	113	23	114	115	117	23	114	115	116	24
5/2	117	117	118	24	111	111	112	23	115	115	116	23	112	112	113	24
5/3	115	116	116	24	109	109	110	23	113	114	115	23	111	112	112	24
5/4	116	117	119	24	110	110	110	23	112	113	115	23	112	113	114	24
5/5	116	117	118	24	111	111	111	23	113	114	116	23	110	111	112	24
5/6	115	115	115	24	111	111	111	23	118	119	120	23	112	115	117	24
5/7	115	116	117	24	110	110	111	23	118	119	119	23	116	116	117	24
5/8	116	118	119	24	111	111	114	23	118	118	118	22	115	116	117	24
5/9	116	117	118	23	114	115	116	23	119	119	119	23	115	116	116	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary

Agency	Hatchery	Species	Race	MiqYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Bonneville	SO	UN	2002	70,000	05-02-02	05-02-02	Redfish Lake Cr	Salmon River
IDFG	Magic Valley	ST	SU	2002	3,800	05-01-02	05-01-02	E Fk Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2002	99,738	05-02-02	05-02-02	Yankee Fk (Salmon R)	Salmon River
IDFG	Magic Valley	ST	SU	2002	115,223	05-03-02	05-07-02	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2002	143,363	05-03-02	05-07-02	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2002	217,371	04-29-02	05-01-02	E Fk Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2002	289,534	04-24-02	05-01-02	Squaw Cr	Salmon River
IDFG	Niagara Springs	ST	SU	2002	474,272	04-06-02	05-09-02	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2002	836,713	04-14-02	05-04-02	Pahsimeroi H	Pahsimeroi River
IDFG	Sawtooth	SO	UN	2002	37,000	05-02-02	05-02-02	Salmon R Idaho	Salmon River
IDFG Total					2,287,014				
Nez Perce Tribe	Clearwater	ST	SU	2002	29,700	04-22-02	04-26-02	Lolo Cr	Clearwater Rvr M F
Nez Perce Tribe	Clearwater	ST	SU	2002	50,000	04-22-02	04-26-02	Meadow Cr	S Fk Clearwater River
Nez Perce Tribe	Hagerman	ST	SU	2002	100,000	05-01-02	05-06-02	American R	S Fk Clearwater River
Nez Perce Tribe	Hagerman	ST	SU	2002	100,000	05-06-02	05-13-02	Newsome Cr	S Fk Clearwater River
Nez Perce Tribe Total					279,700				
ODFW	Irrigon	ST	SU	2002	1,150	05-03-02	05-03-02	Deer Cr	Grande Ronde River
ODFW	Irrigon	ST	SU	2002	76,500	05-09-02	05-10-02	L Sheep Acclim Pd	Imnaha River
ODFW	Irrigon	ST	SU	2002	125,000	05-08-02	05-23-02	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Wallowa	ST	SU	2002	217,500	05-01-02	05-16-02	Wallowa Acclim Pd	Wallowa River
ODFW Total					420,150				
Umatilla Tribe	Umatilla	ST	SU	2002	48,211	04-29-02	04-30-02	Minthorn Acclim Pd	Umatilla River
Umatilla Tribe	Umatilla	ST	SU	2002	54,400	04-29-02	04-30-02	Pendelton Acclim Pd	Umatilla River
Umatilla Tribe Total					102,611				
USFWS	Hagerman	ST	SU	2002	750,000	04-03-02	04-30-02	Sawtooth H	Salmon River
USFWS	Spring Creek	CH0	FA	2002	3,500,000	04-30-02	04-30-02	Spring Creek H	L Col R (D/s McN Dam)
USFWS	Winthrop	CO	SO	2002	186,000	04-19-02	04-30-02	Winthrop H	Methow River
USFWS	Winthrop	ST	SU	2002	150,000	04-14-02	04-30-02	Winthrop H	Methow River
USFWS Total					4,586,000				
Warm Spgs Tribe	Blackberry Pond	CH1	SP	2002	47,000	04-01-02	04-26-02	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe	Jones Cr Pond	CH1	SP	2002	33,000	04-01-02	04-26-02	Jones Creek Acclim Pd	Hood River
Warm Spgs Tribe	Oak Springs	ST	SU	2002	42,000	04-26-02	05-10-02	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe	Oak Springs	ST	WI	2002	30,000	05-01-02	05-17-02	E Fk Irrig Dist Sand Trap	Hood River
Warm Spgs Tribe	Oak Springs	ST	WI	2002	30,000	05-01-02	05-17-02	Parkdale Acclim Pd	Hood River
Warm Spgs Tribe Total					182,000				
WDFW	East Bank	CH1	SP	2002	47,154	04-22-02	04-29-02	Chiwawa H	Wenatchee River
WDFW	East Bank	CH1	SU	2002	127,926	04-08-02	05-10-02	Bel. Rocky Reach Dam	Mid-Columbia River
WDFW	East Bank	CH1	SU	2002	310,812	04-30-02	05-01-02	Carlton Acclim Pd	Methow River
WDFW	East Bank	CH1	SU	2002	807,820	04-06-02	05-06-02	Dryden Acclim Pd	Wenatchee River
WDFW	East Bank	ST	SU	2002	48,152	04-29-02	05-03-02	Nason Cr	Wenatchee River
WDFW	East Bank	ST	SU	2002	75,318	04-29-02	05-03-02	Nason Cr	Wenatchee River
WDFW	East Bank	ST	SU	2002	92,757	04-29-02	05-15-02	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2002	120,567	04-29-02	05-15-02	Chiwawa H	Wenatchee River
WDFW	Klickitat	CO	SO	2002	1,025,000	05-01-02	05-10-02	Klickitat H	Klickitat River
WDFW	Lyons Ferry	ST	SU	2002	45,000	04-01-02	04-30-02	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2002	50,000	04-15-02	04-30-02	Lyons Ferry H	Snake River
WDFW	Lyons Ferry	ST	SU	2002	60,000	04-10-02	04-30-02	Tucannon H	Tucannon River
WDFW	Lyons Ferry	ST	SU	2002	100,000	04-01-02	04-30-02	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2002	100,000	04-10-02	04-30-02	Tucannon R	Tucannon River
WDFW	Lyons Ferry	ST	SU	2002	100,000	04-15-02	04-30-02	Walla Walla R	Walla Walla River
WDFW	Lyons Ferry	ST	SU	2002	200,000	04-01-02	04-30-02	Cottonwood Acclim Pd	Grande Ronde River
WDFW	Skamania	ST	SU	2002	20,000	05-01-02	05-10-02	Drano L	Little White Salmon River
WDFW	Skamania	ST	SU	2002	100,000	05-01-02	05-10-02	Klickitat R	Klickitat River
WDFW	Skamania	ST	WI	2002	20,000	04-25-02	04-30-02	White Salmon R	White Salmon River
WDFW	Tucannon	CH1	SP	2002	3,000	04-01-02	04-30-02	Curl Lake	Tucannon River
WDFW	Tucannon	CH1	SP	2002	105,000	04-01-02	04-30-02	Curl Lake	Tucannon River
WDFW	Wells	CH1	SU	2002	343,423	04-15-02	05-02-02	Wells H	Mid-Columbia River
WDFW	Wells	ST	SU	2002	88,000	04-29-02	05-10-02	Chewuch R	Methow River
WDFW	Wells	ST	SU	2002	88,000	04-29-02	05-10-02	Methow R	Methow River
WDFW	Wells	ST	SU	2002	88,000	04-29-02	05-10-02	Twisp R	Methow River
WDFW	Wells	ST	SU	2002	118,890	04-29-02	05-10-02	Okanogan R	Okanogan River
WDFW Total					4,284,819				

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

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

Hatchery Release Summary
From: 4/26/02 to 5/9/02

Yakima Tribe	Cle Elum	CH1	SP	2002	264,708	03-15-02	06-07-02	Easton Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2002	286,384	03-15-02	06-07-02	Jack Creek Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2002	287,082	03-15-02	06-07-02	Clark Flat Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CO	UN	2002	185,000	05-06-02	05-20-02	Cle Elem Slough	Yakama River
Yakima Tribe	Easton Pond	CO	UN	2002	209,000	05-06-02	05-20-02	Easton Pd	Yakama River
Yakima Tribe	Klickitat	CH0	SP	2002	230,000	05-07-02	05-07-02	Upper Klickitat R	Klickitat River
Yakima Tribe	Leavenworth	CO	UN	2002	298,500	04-25-02	05-06-02	Nason Cr	Wenatchee River
Yakima Tribe	Lost Creek	CO	UN	2002	185,000	05-06-02	05-20-02	Lost Creek Acclim Pd	Yakama River
Yakima Tribe	Prosser	CH0	FA	2002	3,100	04-25-02	04-26-02	Prosser Acclim Pd	Yakama River
Yakima Tribe	Prosser	CH0	FA	2002	80,000	04-22-02	05-22-02	Prosser Acclim Pd	Yakama River
Yakima Tribe	Stiles Pond	CO	UN	2002	209,000	05-06-02	05-20-02	Naches R	Yakama River
Yakima Tribe	Winthrop	CO	UN	2002	150,000	04-25-02	05-10-02	Winthrop H	Methow River
Yakima Tribe Total					2,387,774				
Grand Total					14,530,068				

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary

From: 5/10/02 to 5/23/02

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Dworshak	CO	UN	2002	280,000	05-15-02	05-15-02	Kooskia H	Clearwater Rvr M F
Nez Perce Tribe	Hagerman	ST	SU	2002	100,000	05-06-02	05-13-02	Newsome Cr	S Fk Clearwater River
Nez Perce Tribe	Hagerman	ST	SU	2002	140,000	05-14-02	05-17-02	Yankee Fk (Salmon R)	Salmon River
Nez Perce Tribe Total					520,000				
ODFW	Irrigon	ST	SU	2002	76,500	05-09-02	05-10-02	L Sheep Acclim Pd	Imnaha River
ODFW	Irrigon	ST	SU	2002	125,000	05-08-02	05-23-02	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Wallowa	ST	SU	2002	217,500	05-01-02	05-16-02	Wallowa Acclim Pd	Wallowa River
ODFW Total					419,000				
Umatilla Tribe	Umatilla	CH0	FA	2002	300,000	05-20-02	05-31-02	Thornhollow Acclim Pd	Umatilla River
Umatilla Tribe Total					300,000				
Warm Spgs Tribe	Oak Springs	ST	SU	2002	42,000	04-26-02	05-10-02	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe	Oak Springs	ST	WI	2002	30,000	05-01-02	05-17-02	E Fk Irrig Dist Sand Trap	Hood River
Warm Spgs Tribe	Oak Springs	ST	WI	2002	30,000	05-01-02	05-17-02	Parkdale Acclim Pd	Hood River
Warm Spgs Tribe Total					102,000				
WDFW	East Bank	CH1	SU	2002	127,926	04-08-02	05-10-02	Bel. Rocky Reach Dam	Mid-Columbia River
WDFW	East Bank	ST	SU	2002	92,757	04-29-02	05-15-02	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2002	120,567	04-29-02	05-15-02	Chiwawa H	Wenatchee River
WDFW	Klickitat	CO	SO	2002	1,025,000	05-01-02	05-10-02	Klickitat H	Klickitat River
WDFW	Skamania	ST	SU	2002	20,000	05-01-02	05-10-02	Drano L	Little White Salmon River
WDFW	Skamania	ST	SU	2002	100,000	05-01-02	05-10-02	Klickitat R	Klickitat River
WDFW	Wells	ST	SU	2002	88,000	04-29-02	05-10-02	Chewuch R	Methow River
WDFW	Wells	ST	SU	2002	88,000	04-29-02	05-10-02	Methow R	Methow River
WDFW	Wells	ST	SU	2002	88,000	04-29-02	05-10-02	Twisp R	Methow River
WDFW	Wells	ST	SU	2002	118,890	04-29-02	05-10-02	Okanogan R	Okanogan River
WDFW Total					1,869,140				
Yakima Tribe	Cle Elum	CH1	SP	2002	264,708	03-15-02	06-07-02	Easton Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2002	286,384	03-15-02	06-07-02	Jack Creek Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2002	287,082	03-15-02	06-07-02	Clark Flat Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CO	UN	2002	185,000	05-06-02	05-20-02	Cle Elem Slough	Yakama River
Yakima Tribe	Easton Pond	CO	UN	2002	209,000	05-06-02	05-20-02	Easton Pd	Yakama River
Yakima Tribe	Lost Creek	CO	UN	2002	185,000	05-06-02	05-20-02	Lost Creek Acclim Pd	Yakama River
Yakima Tribe	Prosser	CH0	FA	2002	80,000	04-22-02	05-22-02	Prosser Acclim Pd	Yakama River
Yakima Tribe	Prosser	CH0	FA	2002	1,700,000	05-20-02	06-01-02	Prosser Acclim Pd	Yakama River
Yakima Tribe	Stiles Pond	CO	UN	2002	209,000	05-06-02	05-20-02	Naches R	Yakama River
Yakima Tribe	Winthrop	CO	UN	2002	150,000	04-25-02	05-10-02	Winthrop H	Methow River
Yakima Tribe Total					3,556,174				
Grand Total					6,766,314				

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/26/2002 *	147	100	333	3	33,705	20,792	---	206	38,825	20,425	29,184
04/27/2002	---	95	---	---	39,496	44,342	---	143	24,827	18,258	29,970
04/28/2002 *	---	271	---	---	40,815	45,946	---	231	22,394	20,111	43,956
04/29/2002 *	179	114	133	72	22,944	24,321	---	264	25,677	18,186	19,163
04/30/2002 *	263	261	424	20	39,018	29,993	---	363	26,221	18,237	49,563
05/01/2002 *	233	309	454	45	41,695	51,454	104,544	338	26,408	22,892	56,348
05/02/2002 *	90	---	516	16	57,266	55,377	146,746	371	32,682	20,467	68,094
05/03/2002 *	38	21	453	4	66,345	108,916	---	456	56,142	40,623	86,700
05/04/2002 *	---	---	---	---	245,310	153,357	51,114	492	102,932	45,808	111,205
05/05/2002 *	---	15	---	---	151,779	171,621	149,137	494	98,634	45,182	79,511
05/06/2002 *	44	18	160	63	134,261	226,930	---	477	79,809	36,877	71,061
05/07/2002 *	98	36	143	1	82,680	146,754	64,191	840	90,179	45,292	90,166
05/08/2002 *	63	34	88	27	70,575	87,255	149,552	743	82,076	77,862	65,189
05/09/2002 *	51	0	28	10	52,304	96,177	---	1,120	85,508	80,922	63,415
Total:	1,206	1,274	2,732	261	1,078,193	1,263,235	665,284	6,538	792,314	511,142	863,525
# Days:	10	12	10	10	14	14	6	14	14	14	14
Average:	121	106	273	26	77,014	90,231	110,881	467	56,594	36,510	61,680
YTD	38,129	28,271	7,392	6,789	1,576,809	1,481,125	721,535	8,858	1,000,225	617,895	1,228,435

COMBINED SUBYEARLING CHINOOK

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/26/2002 *	0	0	0	0	75	0	---	0	3,786	144	1,519
04/27/2002	---	0	---	---	0	0	---	4	1,034	212	557
04/28/2002 *	---	0	---	---	0	0	---	0	749	239	918
04/29/2002 *	0	0	0	0	0	0	---	1	297	319	1,448
04/30/2002 *	0	0	0	0	0	0	---	5	298	214	694
05/01/2002 *	0	0	0	0	0	0	0	2	393	299	10,152
05/02/2002 *	0	---	0	0	0	0	0	0	294	78	111,400
05/03/2002 *	0	0	0	0	0	0	---	11	64	50	274,763
05/04/2002 *	---	---	---	---	0	0	0	6	411	87	159,541
05/05/2002 *	---	0	---	---	0	0	0	1	285	107	60,871
05/06/2002 *	0	0	0	0	0	0	---	5	288	84	26,332
05/07/2002 *	0	0	1	0	0	0	0	4	144	109	14,939
05/08/2002 *	0	0	1	1	0	0	0	0	1,404	13	7,967
05/09/2002 *	0	0	2	0	0	0	---	0	1,088	0	6,112
Total:	0	0	4	1	75	0	0	39	10,535	1,955	677,213
# Days:	10	12	10	10	14	14	6	14	14	14	14
Average:	0	0	0	0	5	0	0	3	753	140	48,372
YTD	0	4	11	27	2,199	0	0	458	64,071	4,779	1,800,805

*The total, #days and average do not include the current day's data. *See sampling comments. <http://www.fpc.org/current/daily/smpcomments.htm>. This means that one or more of the sites on this date had an incomplete or biased sample.

These data are preliminary and have been derived from various sources. For verification and/or origin of these data, contact the operators of the Fish Passage Data System at (503) 230-4099.

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

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/26/2002 *	0	0	0	0	75	0	---	2	462	1,295	3,580
04/27/2002	---	0	---	---	0	0	---	0	564	495	2,228
04/28/2002 *	---	0	---	---	299	0	---	3	283	1,096	5,164
04/29/2002 *	0	0	0	0	0	0	---	4	594	463	2,451
04/30/2002 *	0	0	0	0	0	0	---	5	347	1,489	4,779
05/01/2002 *	0	0	0	0	0	0	180	5	630	1,424	10,380
05/02/2002 *	0	---	0	0	0	0	152	13	512	2,084	15,385
05/03/2002 *	0	0	0	0	0	0	---	22	836	4,312	29,325
05/04/2002 *	---	---	---	---	1,067	0	0	26	959	4,102	30,960
05/05/2002 *	---	0	---	---	686	0	0	38	1,565	4,404	50,386
05/06/2002 *	0	0	0	1	195	0	---	57	1,729	2,829	40,039
05/07/2002 *	0	0	0	0	596	0	286	109	1,298	4,597	38,414
05/08/2002 *	0	0	0	0	227	253	0	143	1,248	9,129	45,030
05/09/2002 *	0	0	0	0	0	0	---	171	1,241	19,712	67,744
Total:	0	0	0	1	3,145	253	618	598	12,268	57,431	345,865
# Days:	10	12	10	10	14	14	6	14	14	14	14
Average:	0	0	0	0	225	18	103	43	876	4,102	24,705
YTD	0	0	0	17	3,381	349	619	609	16,995	62,889	416,592

COMBINED STEELHEAD

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/26/2002 *	59	64	33	44	31,393	29,600	---	29	12,880	12,442	16,274
04/27/2002	---	200	---	---	84,401	27,614	---	24	8,934	9,978	14,038
04/28/2002 *	---	301	---	---	96,281	17,847	---	36	6,744	7,715	14,690
04/29/2002 *	66	160	38	150	58,944	24,629	---	39	6,332	6,183	2,451
04/30/2002 *	91	366	623	572	42,257	35,881	---	86	9,079	6,688	4,085
05/01/2002 *	95	866	175	456	33,235	49,011	37,480	80	8,253	7,407	20,361
05/02/2002 *	102	---	59	385	26,929	33,113	40,588	60	7,896	8,786	30,486
05/03/2002 *	110	500	49	27	23,686	31,860	---	65	11,986	15,481	18,488
05/04/2002 *	---	---	---	---	88,525	82,020	27,566	79	22,671	13,598	16,112
05/05/2002 *	---	496	---	---	44,116	101,505	56,141	131	18,076	13,535	21,844
05/06/2002 *	138	363	155	288	91,657	89,865	---	249	11,676	9,496	29,218
05/07/2002 *	426	393	13	260	66,383	44,236	31,765	1,868	16,025	8,954	26,676
05/08/2002 *	255	390	29	627	38,751	41,429	70,871	426	9,677	7,366	9,126
05/09/2002 *	343	0	2	854	32,150	36,328	---	430	14,437	11,126	14,262
Total:	1,685	4,099	1,176	3,663	758,708	644,938	264,411	3,602	164,666	138,755	238,111
# Days:	10	12	10	10	14	14	6	14	14	14	14
Average:	169	342	118	366	54,193	46,067	44,069	257	11,762	9,911	17,008
YTD	2,364	10,012	2,401	5,729	1,222,589	956,587	267,840	4,102	305,063	228,463	300,684

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/26/2002 *	0	0	0	0	149	180	---	142	9,791	2,877	108
04/27/2002	---	0	---	---	213	614	---	194	6,865	1,769	668
04/28/2002 *	---	0	---	---	0	1,384	---	246	7,128	2,839	1,148
04/29/2002 *	0	0	0	0	302	617	---	293	8,214	2,273	0
04/30/2002 *	0	0	0	0	141	316	---	531	6,800	2,970	540
05/01/2002 *	0	0	0	0	235	753	519	580	6,057	4,003	1,369
05/02/2002 *	0	---	0	0	0	393	3,172	681	10,311	4,043	1,425
05/03/2002 *	0	0	0	0	594	0	---	1,016	27,535	8,091	956
05/04/2002 *	---	---	---	---	609	631	457	511	54,417	11,017	3,475
05/05/2002 *	---	0	---	---	1,371	352	920	548	49,677	9,689	4,369
05/06/2002 *	1	0	0	0	1,173	1,076	---	447	44,949	6,261	4,689
05/07/2002 *	2	0	0	0	596	768	151	522	62,656	10,174	5,335
05/08/2002 *	1	0	0	0	2,274	0	1,145	557	83,188	17,526	4,563
05/09/2002 *	6	0	0	0	2,879	398	---	453	71,580	24,148	9,168
Total:	10	0	0	0	10,536	7,482	6,364	6,721	449,168	107,680	37,813
# Days:	10	12	10	10	14	14	6	14	14	14	14
Average:	1	0	0	0	753	534	1,061	480	32,083	7,691	2,701
YTD	10	0	0	5	18,192	10,932	6,473	9,948	487,577	110,898	39,444

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

These data are preliminary and have been derived from various sources. For verification and/or origin of these data, contact the operators of the Fish Passage Data System at (503) 230-4099.

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.

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: 05/09

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2002		2001		10-Yr Avg.		2002		2001		10-Yr Avg.		2002		2001		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	209,643	2,825	343,781	7,028	88,524	3,080												
TDA	124,217	1,051	259,451	3,779	54,174	1,586												
JDA	91,932	547	215,542	2,102	42,899	1,060												
MCN	69,188	1,143	202,637	1,528	36,891	772												
IHR	38,811	210	127,844	933	20,584	422												
LMN	28,618	152	128,879	323	19,212	354												
LGS	23,270	121	120,778	891	17,360	345												
LWG	18,417	189	116,026	384	16,044	236												
PRD	12,690	6	39,591	66	8,517	20												
RIS	3,114	104	23,489	93	3,696	17												
RRH	576	5	9,354	21	1,146	3												
WEL	0	0	3,587	25	408	1												

DAM	Coho						Sockeye			Steelhead			
	2002		2001		10-Yr Avg.		10-Yr			10-Yr			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2002	2001	Avg.	2002	2001	Avg.	2002
BON	0	0	0	0	0	0	0	0	0	4,265	3,531	2,590	1,286
TDA	0	0	0	0	0	0	0	0	0	2,379	891	953	921
JDA	0	0	0	0	0	0	0	0	0	7,663	2,137	2,585	2,744
MCN	0	0	0	0	0	0	0	0	0	4,631	1,446	1,628	1,816
IHR	0	0	0	0	0	0	0	0	0	4,472	1,365	1,982	1,257
LMN	0	0	0	0	0	0	0	0	0	5,040	1,689	2,017	2,076
LGS	0	0	0	0	0	0	0	0	0	6,074	1,935	1,227	2,451
LWG	0	0	0	0	0	0	0	0	0	11,546	5,665	4,705	3,234
PRD	0	0	0	0	0	0	0	2	0	28	20	12	**
RIS	0	0	0	0	0	0	1	0	0	71	50	48	41
RRH	0	0	0	0	0	0	0	0	0	170	87	55	70
WEL	0	0	0	0	0	0	0	0	0	0	11	4	0

WEL numbers have not yet been posted, RIS/RRH are through 05/08.

MCN is missing counts for 04/27;

**PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files.

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.

Two Week Transportation Summary

04/27/02 TO 05/10/02

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	50	596,645	1,800	6,550	465,935	1,070,980
	Sum of NumberBarged	49	588,122	1,800	6,411	453,196	1,049,578
	Sum of NumberBypassed	1	7,123	0	2	12,518	19,644
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	0	1,398	0	137	221	1,756
LGS	Sum of NumberCollected		859,998	168	4,523	425,334	1,290,023
	Sum of NumberBarged		859,477	167	4,470	425,053	1,289,167
	Sum of NumberBypassed		0	0	0	0	0
	Sum of Numbertrucked		0	0	0	0	0
	Sum of TotalProjectMortalities		521	1	53	281	856
LMN	Sum of NumberCollected		665,617	618	6,373	264,649	937,257
	Sum of NumberBarged		656,123	623	6,278	483,775	1,146,799
	Sum of NumberBypassed		9,076	0	8	236	9,320
	Sum of Numbertrucked		0	0	0	0	0
	Sum of TotalProjectMortalities		418	0	82	638	1,138
MCN	Sum of NumberCollected	6,262	530,438	8,172	302,861	108,585	956,318
	Sum of NumberBarged	0	0	0	0	40	40
	Sum of NumberBypassed	6,258	530,287	8,170	302,654	108,508	955,877
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4	151	2	207	37	401
Total Sum of NumberCollected		6,312	2,652,698	10,758	320,307	1,264,503	4,254,578
Total Sum of NumberBarged		49	2,103,722	2,590	17,159	1,362,064	3,485,584
Total Sum of NumberBypassed		6,259	546,486	8,170	302,664	121,262	984,841
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		4	2,488	3	479	1,177	4,151

YTD Transportation Summary

TO: 05/10/02

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,433	940,023	1,970	11,825	785,671	1,740,922
	Sum of NumberBarged	1,377	911,220	1,950	11,119	757,284	1,682,950
	Sum of NumberBypassed	1	16,963	0	4	24,715	41,683
	Sum of NumberTrucked	29	9,847	20	343	3,383	13,622
	Sum of TotalProjectMortalities	26	1,991	0	359	289	2,665
LGS	Sum of NumberCollected		959,712	223	6,255	576,108	1,542,298
	Sum of NumberBarged		958,015	217	6,073	574,774	1,539,079
	Sum of NumberBypassed		0	0	0	0	0
	Sum of NumberTrucked		1,034	4	74	1,024	2,136
	Sum of TotalProjectMortalities		663	2	108	310	1,083
LMN	Sum of NumberCollected		721,535	619	6,473	267,840	996,467
	Sum of NumberBarged		656,123	623	6,278	483,775	1,146,799
	Sum of NumberBypassed		44,769	1	95	3,064	47,929
	Sum of NumberTrucked		20,104	0	13	356	20,473
	Sum of TotalProjectMortalities		539	0	82	645	1,266
MCN	Sum of NumberCollected	34,445	642,638	10,760	322,640	183,882	1,194,365
	Sum of NumberBarged	0	0	0	0	40	40
	Sum of NumberBypassed	34,417	642,410	10,758	322,422	183,787	1,193,794
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	28	228	2	218	55	531
Total Sum of NumberCollected		35,878	3,263,908	13,572	347,193	1,813,501	5,474,052
Total Sum of NumberBarged		1,377	2,525,358	2,790	23,470	1,815,873	4,368,868
Total Sum of NumberBypassed		34,418	704,142	10,759	322,521	211,566	1,283,406
Total Sum of NumberTrucked		29	30,985	24	430	4,763	36,231
Total Sum of TotalProjectMortalities		54	3,421	4	767	1,299	5,545

