Fish Passage Center

Weekly Report #01 - 5

April 13, 2001

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BPA declared a power emergency from April 3 through April 13, under the terms of the NMFS Biological Opinion. The power emergency will result in the elimination of flow and spill for fish passage that is included in the NMFS Biological Opinion, during the period of the emergency. Biological Opinion passage measures for listed stocks and unlisted stocks will not be provided.

SUMMARY OF EVENTS:

Water Supply: Precipitation increased significantly during last week over the entire region. However, the cumulative precipitation for October through April for the Columbia above Grand Coulee was 64% of average, for the Columbia above The Dalles, 65% of average, and for the Snake River above Ice Harbor, 75% of average.

The April Final Runoff Volume Forecast was issued. Forecast Runoff Volumes have continued to decrease since the January report. Monthly decreases were in the range of 1% to 9%. The largest cumulative decreases were recorded at Brownlee, which went from 41% of average in March to 33% of average in April final. The largest decreases from March Final to April Final are projected for Lower Granite, which decreased 7%, from 55% to 47% and for Mid Snake and Upper Snake projects, which dropped 4%-9%. The Summary of the Runoff Volume Forecasts is given in the following Table:

Site	February Final		March Final		April Final	
	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg	Runoff Volume [KAF]	% of avg
Mica (April-Sept.)	9990	78	9620	76	*9800*	*77*
Hungry Horse (Apr-Sep)	1320	60	1320	60	*1300*	*60*
Libby (April-Sep.)	4180	62	3570	53	*3530*	*52*
Grand Coulee (Jan-July)	41200	65	37600	59	*37500*	*59*
The Dalles (January-July)	66400	63	58600	55	*56100*	*53*
Brownlee (April-July)	2850	49	2390	41	*1890*	*33*
Dworshak (April-July)	1800	67	1550	57	*1400*	*52*
Lower Granite (Jan-July)	18800	63	16300	55	*14100*	*47*
Heise (ID) (April-July)	2230	65	2170	63	*2030*	*59*
Weiser (ID) (April-July)	2620	48	2230	41	*1730*	*32*

Reservoir Operations: Reservoirs continued to be operated for power emergency needs and are far below required end of month flood control elevations. Under the current conditions of low water supply it is highly unlikely that reservoirs will be refilled by the end of June as required by the 2000 Biological Opinion. A summary of the actual elevations and required flood control elevations at the end of April is shown in the following Table:

Reservoir	Actual Elev. as of April 12, 2001 [ft]	Required End of April Flood Control Elev. [ft]	Maximum Reservoir pool [ft]
Libby	2386.47	2448.0	2459
Hungry Horse	3488.91	3558.2	3560
Grand Coulee	1218.5	1283.3	1290
Brownlee	2074.36*	2077.0	2077
Dworshak	1517.37	1597.4	1600

**** as of April 11***

Libby reservoir continued to be at minimum outflow of 4 kcfs. Inflows were in the range of 1.8 kcfs-3.3 kcfs for the period of April 6-12.

Hungry Horse was operating on minimum outflow of 2.33 kcfs-2.41 kcfs to meet the required minimum of 3.5 kcfs at Columbia Falls. Inflows were in the range of 0.31 to 1.01 kcfs for the period of April 6-12.

Grand Coulee was operated to meet system power peaking demands. The most current outflows were in the range of 50 kcfs-85.8 kcfs for the period of April 6-12. For the same period, inflows were in the range of 52.8 kcfs-64.5 kcfs.

Brownlee was operated at elevations close to flood control elevations, fluctuating between 2073.6 ft and 2074.36 ft. The outflows at Hells Canyon Dam project were in the range of 9.7 kcfs to 13.23 kcfs for the period of April 6-12. The Brownlee inflows were in the range of 13.08 kcfs to 15.92 kcfs for the same period.

Dworshak was operated on minimum outflow of 1.5 kcfs. Inflow has increased during the previous week due to local snowmelt and it was fluctuating between 3.4 kcfs and 4 kcfs for the period of April 6-12.

Upper Snake projects continue with refill since fall. Currently, as of April 12, the system is at 79% of capacity; American Falls is full, Palisades is at 51% of capacity and Jackson Lake is at 76 % of capacity.

Flows: Flows below Bonneville were fluctuating between 104 kcfs and 137.2 kcfs for the period of April 6-12, depending upon power generation demands.

Flow at Priest Rapids have been maintained with a few exemptions at minimum 65 kcfs since the fall/winter period for protection of redds at Vernita Bar. Redd counts on November 19, 2000 determined the minimum required protection flows for the 2000-2001 season. Since the juveniles emerged earlier this season, Priest Rapids program operating constraints began on March 26 with +/- 20 kcfs hourly fluctuating band at Priest Rapids.

The Biological Opinion of 1995 spring flow target of 85 Kcfs at Lower Granite began on April 10. Current flows were in the range of 24.3 kcfs-35 kcfs for the period of April 10-12. The latest flow projection, of April 9, issued by COE, is showing that flow target will be met only 18 days out of 72 days of the spring period. The projected seasonal average is 61.5 kcfs.

Spill: Consistent with BPA's declaration of a power emergency, there was no spill in the federal power system this past week. In spite of the fact that no spill has occurred the total dissolved gas readings at all the monitors exceed 100%. Some readings have been as high as 109% (see total dissolved gas tables). Sampling for signs of gas bubble trauma has shown a few fish with bubbles in their lateral lines and one fish (at Lower Granite Dam) with bubbles in its fins.

Smolt Monitoring: Trap collections of yearling chinook are lower this reporting period (April 6-April 12) with daily counts averaging 172 chinook on the lower Salmon River (WTB), 198 chinook on the lower Imnaha River (IMN), and 104 chinook on the lower Grande Ronde River (GRN). Based on adipose fin clips, the yearling chinook collection this week consisted of nearly 90% hatchery fish at the Salmon River and Grande Ronde River traps, and nearly 70% hatchery fish at the Imnaha River trap. Current low flows allow fish to avoid capture in the Snake River trap (LEW), resulting in only a handful of fish collected to date. This week saw increased daily collections of yearling chinook and steelhead at Lower Granite Dam, reaching around 5,000 chinook and 1,500 steelhead by week's end. Large numbers of yearling chinook (peak about 9,000 fish) were collected this week at Lower Monumental Dam, following the start of the on-site Lyons Ferry Hatchery yearling fall chinook release last week. In the mid-Columbia River, about 50 yearling chinook per day dominated the collections at Rock Island Dam. Yearling chinook and steelhead collections at McNary Dam each averaged around 200 fish/day this week. Collections of yearling chinook rose this week at John Day Dam to over 1,000 fish at week's end (PIT tag detections

showed increased numbers of hatchery chinook from the Umatilla River passing the dam since April 10). The yearling chinook passage index at Bonneville Dam rose to nearly 2,700 fish on April 9, before the sampling system was dewatered for three days of repairs

Adult Fish Passage – Fish counting started April 1 at most COE projects; currently all COE projects are counting adult fish passing mainstem Columbia and Snake River dams. The PUD projects on the Mid-Columbia River will begin on or near April 15 at Priest Rapids, Rock Island, and Rocky Reach dams with Wells Dam starting May 1. The FPC Weekly Report will list in a Table; the adult fish counts for the week with the previous year (2000) and the 10-year average through the same ending date so the reader can compare passage throughout the year for the individual species.

At Bonneville Dam, adult spring Chinook salmon counts averaged about 10,800 per day for the week with the daily peak count of 14,520 on April 12. The total count since March 15 is now 117,293. This year's count through April 12 compares with 28,654 in 2000 and 9,061 for the 10-year average. The 2001 count is about 4.1 times and 12.9 times greater than the respective 2000 and 10-year average. The fish counts at present are 32% of the projected total for the project (364,600). At The Dalles Dam, 45,131 adult salmon were counted through April 11 with the McNary count through April 12 of 13,549. Numbers of adult spring Chinook continuing up to the Snake River are now exceeding 1,000 per day at Ice Harbor with the peak day (225) occurring at Lower Granite Dam on April 12. When the Priest Rapids counts begin on April 15, we will list the Mid-Columbia and Snake River turnoff along with the Yakama River basin fish where possible. We have noted a fair number of adult spring Chinook (PIT tagged fish) passing through the Bonneville adult facility that are destined for the Yakama R basin again this year. Rapid River H spring Chinook (PIT tagged) also were passing the Bonneville site in large numbers during the week.

Tribal commercial fishing is scheduled to begin in the Zone 6 portion of the River in the next 2 weeks. Presently, the only tribal fishing above the project is from the platforms, i.e., dipnet fishing for ceremonial purposes.

Steelhead passage ranged between 49 and 88/day through the week at Bonneville Dam with the total through April 12 of 1,856. At Bonneville Dam, steelhead are mostly lower river, winter steelhead with some upriver summer fish moving upstream to spawning sites as well. At Lower Granite Dam, steelhead counts have been greater than 100 per day for most of the week with 4,418 counted since March 1. Most steelhead passing the project are those that have over-wintered in the Snake or Columbia rivers.

Hatchery Releases – See the Hatchery Release Summary for the Previous 2-wk and next 2-wk Projected Releases for the Columbia River Basin above Bonneville Dam.

Snake River – For the week, volitional hatchery releases of yearling spring Chinook are on-going from the Salmon River (Rapid River Hatchery), and Imnaha River. About 65% of the Rapid River Chinook have emigrated from the ponds and are in-river based on the PIT tag detection equipment set up on the exit from the ponds. Yearling spring Chinook are being released from the Powell and Crooked River Acclimation Ponds located in the Clearwater River basin. Dworshak and Kooskia NFHs released spring Chinook on 3/28 and 3/27, respectively into the Clearwater R basin. Spring Chinook from the Lookingglass Complex Hatchery are being released by the Nez Perce Tribe from the Lostine and Grande Ronde Acclimation Ponds. Summer Chinook from McCall Hatchery were trucked and released into the S. Fk Salmon River throughout the week (3/26-29). About 560,000 coho were released into Lapwai Creek and Potlatch River in March. Steelhead releases from Niagara Springs Hatchery to below Hells Canyon was completed during the week with volitional and direct stream releases of steelhead continuing to

increase. The next two weeks will see the bulk of steelhead for the basin (about 9.7 million) released throughout the Salmon, Clearwater, Grande Ronde, Imnaha, and Tucannon rivers.

Mid-Columbia [above McNary Dam] – Volitional releases of spring chinook from the Acclimation Ponds in the Yakama River began mid-March and will continue through May. Yearling Chinook from Entiat NFH were released last week with Winthrop NFH releasing fish this week; other spring Chinook from the Methow River basin are projected for release next week. Leavenworth NFH will also be releasing yearling spring Chinook in the Wenatchee River basin next week. About 241,000 sockeye salmon were released into Lake Wenatchee from net pens and into Lake Osoyoos (direct releases) during the fall prior to their migration this April through May. **Yearling** summer Chinook from Wells and Eastbank complex hatcheries are being released in the Similkameen River (Okanogan R basin) this week and will be released into the Wenatchee, Methow and mainstem Columbia river over the next two weeks. About 4.3 million yearling Chinook are scheduled for release in the Mid-Columbia Reach and this total should be the highest total (about 0.5 million greater) since FPC has been reporting hatchery releases. Hatchery steelhead will be released mainly during the next 2-weeks in this Reach. Numbers scheduled for release will be near normal. The Wenatchee, Entiat, Methow, Okanogan and main Columbia (Ringold H release) will be planted with the "threatened" status steelhead from WDFW and USFWS hatcheries. Release of yearling coho will occur mainly during the latter part of April and into May. Coho will be released into the Methow, Wenatchee and Yakama R basins again this season.

Lower Columbia [McNary Dam to above Bonneville Dam]– Yearling spring chinook have been released in the Umatilla, Klickitat, and Hood Rivers to date. Yearling spring Chinook were released in the Umatilla River from Imeques Acclimation Pond. Spring Chinook were released in the Deschutes R basin as well as Hood River during the week. Most of these releases have been volitional and will continue until forced from the ponds. The 2nd release of 5.3 million subyearling tule fall Chinook is scheduled for April 19. Yearling releases of "bright" fall chinook were made in March in the Umatilla River with other releases scheduled for April from the various Acclimation ponds in the Umatilla R basin. Coho salmon have been released in the Umatilla River basin with 2.8 million released in the Klickitat River during the past week. The Umatilla, Klickitat, and Little White Salmon rivers will receive about 6.7 million coho this year, slightly below the normal release totals for this Reach. Steelhead have been released in the Umatilla R basin with most of the remaining steelhead releases scheduled for late April through early May.

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

								Number of Fish with Fin GBT Listed by Highest Rank				Fish with L. Line GBT	
Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Rank 1	Rank 2	Rank 3	Rank 4	Num Fish	Avg. Rank
Lower Granite Dam													
	04/10/01	Yearling Chinook	41	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/10/01	Steelhead	11	1	1	9.09%	0.00%	1	0	0	0	0	0
Little Goose Dam													
	04/11/01	Yearling Chinook	1	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/11/01	Steelhead	8	0	0	0.00%	0.00%	0	0	0	0	0	0
Lower Monumental Dam													
	04/09/01	Yearling Chinook	93	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/09/01	Steelhead	7	0	0	0.00%	0.00%	0	0	0	0	0	0
McNary Dam													
	04/09/01	Yearling Chinook	14	3	0	0.00%	0.00%	0	0	0	0	3	1
	04/09/01	Steelhead	19	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/12/01	Yearling Chinook	36	2	0	0.00%	0.00%	0	0	0	0	2	1
	04/12/01	Steelhead	14	1	0	0.00%	0.00%	0	0	0	0	1	1
Bonneville Dam													
	04/10/01	Yearling Chinook	90	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/13/01	Yearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/13/01	Steelhead	6	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	04/09/01	Yearling Chinook	67	4	0	0.00%	0.00%	0	0	0	0	4	1.5
	04/09/01	Steelhead	7	0	0	0.00%	0.00%	0	0	0	0	0	0
	04/12/01	Yearling Chinook	24	6	0	0.00%	0.00%	0	0	0	0	6	1
	04/12/01	Steelhead	2	0	0	0.00%	0.00%	0	0	0	0	0	0

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

	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
03/30/01	53.1	0.0	61.9	0.0	65.1	0.0	67.4	0.0	68.8	0.0	65.0	0.0	70.1	0.0
03/31/01	54.7	0.0	51.4	0.0	53.6	0.0	53.5	0.0	55.0	0.0	68.4	0.0	70.4	0.0
04/01/01	35.8	0.0	34.7	0.0	36.9	0.0	36.1	0.0	37.7	0.0	64.4	0.0	70.2	0.0
04/02/01	66.2	0.0	66.2	0.0	65.6	0.0	60.2	0.0	62.7	0.0	64.4	0.0	69.2	0.0
04/03/01	60.2	0.0	63.2	0.0	63.3	0.0	64.7	0.0	65.5	0.0	62.8	0.0	68.8	0.0
04/04/01	62.4	0.0	65.6	0.0	68.4	0.0	68.6	0.0	70.1	0.0	73.0	0.0	68.4	0.0
04/05/01	69.3	0.0	65.4	0.0	64.3	0.0	59.3	0.0	61.3	0.0	66.4	0.0	67.7	0.0
04/06/01	58.0	0.0	63.1	0.0	65.2	0.0	64.1	0.0	65.0	0.0	60.8	0.0	68.1	0.0
04/07/01	56.8	0.0	58.4	0.0	59.2	0.0	61.5	0.0	62.8	0.0	68.5	0.0	68.2	0.0
04/08/01	50.0	0.0	51.2	0.0	56.6	0.0	56.0	0.0	56.8	0.0	65.7	0.0	68.0	0.0
04/09/01	72.4	0.0	75.2	0.0	67.9	0.0	64.6	0.0	65.5	0.0	62.9	0.0	68.2	0.0
04/10/01	81.4	0.0	80.3	0.0	81.2	0.0	83.9	0.0	82.4	0.0	65.7	0.0	66.9	0.0
04/11/01	73.2	0.0	80.7	0.0	90.2	0.0	92.3	0.0	96.9	0.0	83.1	0.0	85.5	0.0
04/12/01	85.8	0.0	88.2	0.0	86.2	0.0	81.3	0.0	80.8	0.0	95.7	0.0	95.5	0.0

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
03/30/01	1.5	0.0	13.6	17.9	44.1	0.0	46.4	0.0	52.5	0.0	51.1	0.0
03/31/01	1.5	0.0	13.6	16.7	40.2	0.0	43.0	0.0	43.0	0.0	41.9	0.0
04/01/01	1.5	0.0	11.5	9.0	32.2	0.0	25.0	0.0	25.2	0.0	24.7	0.0
04/02/01	1.4	0.0	13.6	14.7	37.1	0.0	39.6	0.0	41.9	0.0	40.8	0.0
04/03/01	1.5	0.0	12.9	14.5	37.6	0.0	42.0	0.0	44.3	0.0	45.5	0.0
04/04/01	1.4	0.0	12.9	13.3	35.2	0.0	37.9	0.0	40.7	0.0	40.0	0.0
04/05/01	1.4	0.0	12.1	14.4	35.9	0.0	40.8	0.0	43.5	0.0	42.7	0.0
04/06/01	1.5	0.0	12.2	13.2	32.5	0.0	42.1	0.0	45.9	0.0	43.6	0.0
04/07/01	1.5	0.0	11.4	11.0	29.9	0.0	29.0	0.0	29.6	0.0	30.6	0.0
04/08/01	1.5	0.0	11.9	9.9	26.7	0.0	25.3	0.0	26.2	0.0	25.7	0.0
04/09/01	1.5	0.0	12.1	13.1	32.7	0.0	37.0	0.0	42.5	0.0	41.2	0.0
04/10/01	1.4	0.0	11.5	13.2	35.0	0.0	36.1	0.0	38.5	0.0	41.8	0.0
04/11/01	1.4	0.0	10.6	9.7	24.3	0.0	25.6	0.0	25.9	0.0	25.0	0.0
04/12/01	1.4	0.0	---	---	27.3	0.0	27.2	0.0	28.3	0.0	27.5	0.0

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
03/30/01	123.6	0.0	136.9	0.0	138.7	0.0	147.1	0.0	29.5	108.4
03/31/01	110.2	0.0	107.9	0.0	107.6	0.0	122.5	0.0	12.9	100.4
04/01/01	89.0	0.0	94.9	0.0	95.3	0.0	111.3	0.0	4.4	97.7
04/02/01	114.4	0.0	116.6	0.0	116.7	0.0	121.2	0.0	15.3	96.7
04/03/01	112.0	0.0	124.8	0.0	126.0	0.0	134.5	0.0	24.3	101.0
04/04/01	120.0	0.0	117.5	0.0	120.3	0.0	132.1	0.0	21.6	101.3
04/05/01	106.6	0.0	120.1	0.0	113.9	0.0	119.3	0.0	14.8	95.3
04/06/01	112.3	0.0	122.6	0.0	123.7	0.0	133.8	0.0	18.6	106.0
04/07/01	97.6	0.0	111.5	0.0	114.2	0.0	121.2	0.0	9.4	102.6
04/08/01	90.6	0.0	92.3	0.0	92.8	0.0	104.0	0.0	3.4	91.4
04/09/01	115.1	0.0	119.6	0.0	120.1	0.0	120.4	0.0	12.8	98.4
04/10/01	116.3	0.0	121.8	0.0	126.7	0.0	137.2	0.0	22.6	105.4
04/11/01	104.7	0.0	125.1	0.0	123.1	0.0	133.7	0.0	23.9	100.6
04/12/01	125.2	0.0	126.6	0.0	124.0	0.0	132.5	0.0	22.3	101.5

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

	Hungry H. Dnst				Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
3/30	---	---	---	0	103	104	105	24	104	104	107	23	105	106	108	19	105	105	109	24
3/31	---	---	---	0	103	104	104	24	104	104	105	23	107	107	109	18	105	105	106	21
4/1	---	---	---	0	103	104	105	23	105	105	106	24	108	108	109	7	105	105	106	23
4/2	---	---	---	0	104	106	106	24	105	105	106	24	108	108	109	17	105	106	106	23
4/3	---	---	---	0	103	104	104	24	104	104	105	24	107	107	108	20	104	105	105	23
4/4	---	---	---	0	103	104	104	24	104	105	106	24	106	106	108	15	104	105	105	23
4/5	---	---	---	0	104	105	105	24	105	105	106	24	108	108	109	22	105	106	106	23
4/6	---	---	---	0	105	105	106	23	106	106	107	23	108	108	109	14	107	107	107	23
4/7	---	---	---	0	104	104	105	24	106	106	107	24	108	109	109	22	106	106	107	23
4/8	---	---	---	0	104	104	105	24	105	105	106	24	108	108	109	17	106	106	106	21
4/9	---	---	---	0	104	104	105	24	105	106	106	24	107	107	108	17	106	106	107	23
4/10	---	---	---	0	104	104	105	24	105	105	106	24	108	108	108	23	106	106	106	23
4/11	---	---	---	0	103	104	104	24	104	105	105	24	107	108	108	22	105	106	106	23
4/12	---	---	---	0	103	104	104	24	104	105	105	24	107	107	108	18	105	105	106	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	Chief J. Dnst				Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
3/30	105	106	106	24	104	105	105	20	104	105	105	20	---	---	---	0	---	---	---	0
3/31	105	105	107	21	106	106	107	13	106	106	107	13	---	---	---	0	---	---	---	0
4/1	106	107	108	23	107	107	109	19	106	107	108	19	---	---	---	0	---	---	---	0
4/2	105	106	107	23	106	106	107	23	106	106	107	23	---	---	---	0	---	---	---	0
4/3	105	105	105	23	105	105	105	21	105	105	105	21	---	---	---	0	---	---	---	0
4/4	104	105	106	23	104	105	105	22	104	105	105	22	---	---	---	0	---	---	---	0
4/5	105	106	107	23	106	106	107	21	105	106	106	21	---	---	---	0	---	---	---	0
4/6	106	107	108	23	107	107	107	22	107	107	107	22	---	---	---	0	---	---	---	0
4/7	106	107	108	23	106	106	107	21	106	106	107	21	---	---	---	0	---	---	---	0
4/8	106	107	107	21	106	107	107	23	106	106	107	23	---	---	---	0	---	---	---	0
4/9	106	106	107	19	106	106	106	22	106	106	107	22	---	---	---	0	---	---	---	0
4/10	106	106	107	23	106	106	107	21	106	106	107	21	---	---	---	0	---	---	---	0
4/11	105	106	106	23	106	106	106	17	106	106	106	17	---	---	---	0	---	---	---	0
4/12	105	105	106	23	105	105	105	21	105	105	106	21	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation at Mid Columbia River Sites

	Rock Island				Rock I. Tlwr				Wanapum				Wanapum Tlwr				Priest Rapids			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
3/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/31	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/2	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/3	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/4	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/5	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/6	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/10	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/11	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
4/12	---	---	---	0	---	---	---	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 Lower Columbia and Snake River Sites

	Priest R. Dnst				Pasco				Dworshak				Clrwtr-Peck				Anatone			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
3/30	---	---	---	0	103	104	105	24	106	106	107	24	---	---	---	0	102	103	103	24
3/31	---	---	---	0	104	104	105	22	106	106	107	22	101	101	102	22	102	102	103	22
4/1	---	---	---	0	103	104	105	23	106	106	107	23	102	102	103	23	102	103	104	21
4/2	---	---	---	0	104	104	105	24	105	106	106	24	101	101	102	24	101	102	102	24
4/3	---	---	---	0	102	103	103	24	105	106	107	24	101	102	102	24	102	103	104	24
4/4	---	---	---	0	103	104	105	24	105	106	107	24	101	102	103	24	102	103	105	24
4/5	---	---	---	0	105	106	106	24	106	108	109	24	102	104	105	24	103	104	106	24
4/6	---	---	---	0	104	105	105	24	107	107	108	21	102	102	103	24	102	102	103	23
4/7	---	---	---	0	104	105	105	24	105	106	106	24	101	101	102	24	101	101	102	24
4/8	---	---	---	0	104	104	105	24	104	104	105	24	101	102	102	24	101	103	104	24
4/9	---	---	---	0	103	104	105	21	105	105	106	21	101	102	103	21	102	103	104	21
4/10	---	---	---	0	104	105	105	24	106	107	108	24	102	103	104	24	102	103	104	24
4/11	---	---	---	0	103	103	104	24	107	107	108	24	102	103	104	21	102	103	104	24
4/12	---	---	---	0	103	104	104	24	106	107	108	24	102	103	104	24	101	102	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

	Clrwtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
3/30	102	103	104	24	101	101	101	24	101	101	102	24	103	103	103	24	102	102	103	24
3/31	101	102	103	22	102	102	102	22	101	102	102	22	103	104	104	22	102	103	103	22
4/1	102	104	105	23	102	103	103	24	102	102	103	24	103	103	104	24	102	103	103	24
4/2	101	101	102	24	102	103	103	24	102	103	103	24	103	103	104	24	103	103	103	24
4/3	101	102	104	24	101	101	101	24	101	101	102	24	102	102	102	24	101	102	102	24
4/4	101	103	105	24	100	100	101	24	100	100	101	24	101	101	101	24	101	101	102	24
4/5	103	105	107	24	101	103	103	24	101	102	102	24	101	102	102	24	101	101	102	24
4/6	102	103	104	24	102	102	103	21	102	102	102	23	102	102	102	24	101	101	101	24
4/7	100	101	102	24	101	102	102	23	101	101	101	23	102	102	102	24	101	101	101	24
4/8	101	103	105	24	100	100	100	24	100	100	100	24	101	101	102	24	100	100	101	24
4/9	102	104	105	21	100	101	101	21	100	100	101	21	101	101	101	21	100	100	100	21
4/10	102	103	105	24	101	102	102	24	101	101	101	24	101	102	102	24	101	101	101	24
4/11	102	103	105	24	101	101	102	24	103	105	109	24	101	101	102	24	100	101	101	24
4/12	102	103	104	24	99	100	100	24	99	100	101	24	100	100	101	24	100	100	100	24

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

	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
3/30	103	104	105	24	102	102	103	24	103	104	107	24	104	104	105	24	105	106	108	24
3/31	103	103	104	22	102	103	103	22	103	103	104	22	104	105	105	22	104	105	106	22
4/1	103	104	104	23	103	104	105	23	103	103	103	23	105	106	107	23	104	105	105	23
4/2	103	104	104	24	103	103	104	24	102	103	103	24	104	104	104	24	105	105	105	24
4/3	102	102	103	24	101	102	102	24	101	101	102	24	102	103	103	24	104	104	105	24
4/4	101	101	102	24	101	101	102	24	100	101	105	24	101	102	102	24	104	106	108	24
4/5	102	103	103	24	101	102	102	24	101	101	102	24	102	103	103	24	104	106	107	24
4/6	103	103	103	24	102	102	103	24	101	102	102	23	103	103	104	23	105	106	106	24
4/7	102	102	102	24	102	102	103	24	101	101	101	24	103	103	103	24	105	105	107	24
4/8	101	102	102	24	101	102	103	24	100	100	101	24	102	103	104	24	104	104	105	24
4/9	101	101	101	21	100	101	102	21	100	100	100	21	101	102	102	21	104	105	105	21
4/10	101	101	102	24	101	101	102	24	100	101	101	24	102	103	103	24	104	104	104	24
4/11	101	101	101	24	100	101	101	24	101	102	104	23	102	102	103	24	103	104	104	24
4/12	100	100	100	24	100	101	101	24	101	101	101	24	101	102	102	24	103	103	104	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

	McNary-Wash				McNary Tlwr				John Day				John Day Tlwr				The Dalles			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
3/30	105	107	108	24	103	104	104	24	104	105	105	24	104	104	104	24	103	103	104	24
3/31	106	106	107	22	104	104	105	22	105	105	106	21	105	105	106	22	104	105	106	21
4/1	105	105	105	23	104	104	104	23	105	105	106	23	105	106	106	23	104	105	105	23
4/2	104	104	105	24	104	104	105	24	105	105	106	23	104	105	106	24	104	104	104	23
4/3	104	104	104	24	103	104	104	24	104	104	104	23	103	104	106	24	102	102	103	23
4/4	104	104	104	24	103	103	103	24	103	104	106	23	102	103	104	24	102	102	103	23
4/5	105	106	106	24	104	104	105	24	104	105	107	23	103	104	105	24	103	104	105	23
4/6	105	105	106	24	104	104	105	24	104	105	105	23	105	108	138	24	104	104	104	23
4/7	104	104	105	24	104	104	104	24	104	104	104	23	103	104	104	24	102	103	103	23
4/8	104	104	104	24	103	103	104	24	102	103	103	23	102	103	104	24	101	102	102	23
4/9	103	104	104	21	103	103	104	21	102	102	102	23	101	102	102	21	101	101	102	19
4/10	104	104	104	24	103	103	104	24	102	103	103	23	102	102	105	24	102	102	102	23
4/11	103	104	104	24	103	103	104	24	102	103	103	23	102	103	104	24	100	101	102	23
4/12	103	103	103	24	102	103	103	24	102	102	102	23	102	102	103	24	99	102	102	21

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Skamania				Camas\Washugal			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
3/30	103	104	104	24	104	104	104	24	104	104	105	24	104	104	104	24	105	106	107	24
3/31	104	105	105	22	104	104	105	21	105	105	106	21	104	104	104	21	104	105	105	22
4/1	104	104	105	23	104	104	104	23	105	105	106	23	104	104	105	23	104	105	106	23
4/2	104	104	104	24	104	104	104	23	104	105	106	23	104	104	104	23	105	105	106	24
4/3	102	103	103	24	103	103	103	23	104	104	104	23	103	103	104	23	104	105	106	24
4/4	102	103	103	24	103	103	104	23	104	105	106	23	103	104	104	23	104	105	106	23
4/5	103	104	105	24	104	104	105	23	105	105	106	23	104	105	107	23	105	106	106	24
4/6	104	104	105	24	104	104	105	23	105	105	105	23	104	105	105	23	105	105	106	24
4/7	102	102	103	24	103	103	104	23	104	104	106	23	103	103	104	23	104	105	105	24
4/8	100	101	101	24	102	102	103	23	104	104	105	23	103	103	103	23	103	104	104	24
4/9	100	101	101	20	102	102	102	19	103	103	104	19	102	102	104	15	103	104	104	20
4/10	101	102	103	24	102	102	103	23	103	103	104	23	102	102	103	23	103	104	104	24
4/11	101	102	102	24	101	102	102	23	103	103	103	23	102	102	102	23	103	104	105	24
4/12	102	102	103	24	101	102	102	23	102	102	103	22	101	101	102	23	102	102	104	24

HATCHERY RELEASE SUMMARY LAST TWO WEEKS

From: 3/30/01 to 4/12/01

IDFG	Clearwater	CH1	SP	2001	212,777	04-12-01	04-12-01	Powell Acclim Pd	Lochsa River
IDFG	Clearwater	ST	SU	2001	249,000	04-09-01	04-26-01	Red River Acclim Pd	S Fk Clearwater River
IDFG	Magic Valley	ST	SU	2001	60,000	04-11-01	04-11-01	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2001	80,000	04-09-01	04-10-01	Little Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	80,000	04-09-01	04-12-01	Squaw Cr Acclim Pd	Salmon River
IDFG	Magic Valley	ST	SU	2001	115,000	04-12-01	04-24-01	Salmon R Idaho	Salmon River
IDFG	Magic Valley	ST	SU	2001	435,000	04-10-01	04-27-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	250,000	04-08-01	04-13-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	550,000	03-26-01	04-07-01	Hells Canyon Dam	Snake River
IDFG	Pahsimeroi	CH1	SP	2001	85,000	04-12-01	04-20-01	Pahsimeroi H	Pahsimeroi River
IDFG	Pahsimeroi	CH1	SP	2001	197,000	04-12-01	04-20-01	Pahsimeroi H	Pahsimeroi River
IDFG	Rapid River	CH1	SP	2001	736,000	03-15-01	04-25-01	Rapid River H	Little Salmon River
IDFG Total					**3,049,777**				
Nez Perce Tribe	Clearwater	CH1	SP	2001	155,000	03-19-01	03-30-01	Lolo Cr	Clearwater Rvr M F
Nez Perce Tribe	Clearwater	CH1	SP	2001	155,000	03-19-01	03-30-01	Newsome Cr	S Fk Clearwater River
Nez Perce Tribe	Hagerman	ST	SU	2001	50,000	04-02-01	04-02-01	Hazard Cr/Little Salmon R	Little Salmon River
Nez Perce Tribe	Hagerman	ST	SU	2001	140,000	04-11-01	04-15-01	Yankee Fk (Salmon R)	Salmon River
Nez Perce Tribe	Hagerman	ST	SU	2001	164,000	04-02-01	04-10-01	Little Salmon R	Salmon River
Nez Perce Tribe	Lookingglass	CH1	SP	2001	134,800	04-01-01	04-15-01	Lostine Accim Pd	Grande Ronde River
Nez Perce Tribe	Lookingglass	CH1	SP	2001	142,400	04-01-01	04-15-01	Catherine Cr Acclim Pd	Grande Ronde River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	111,000	04-09-01	04-13-01	Cpt John Acclim Pd	Snake River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	113,000	04-09-01	04-13-01	Pittsburg Landing	Snake River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	129,000	04-09-01	04-13-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe Total					**1,294,200**				
ODFW	Big Canyon	ST	SU	2001	87,000	04-06-01	04-07-01	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Big Canyon	ST	SU	2001	87,000	04-08-01	04-22-01	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Imnaha	CH1	SP	2001	123,000	03-21-01	04-19-01	Imnaha Acclim Pd	Imnaha River
ODFW	Li Sheep	ST	SU	2001	155,000	04-12-01	04-13-01	L Sheep Acclim Pd	Imnaha River
ODFW	Lookingglass	CH1	SP	2001	2,500	04-01-01	04-15-01	Grande Ronde Acclim Pd	Grande Ronde River
ODFW	Round Butte	CH1	SP	2001	302,000	04-02-01	04-19-01	Bel. Pelton Dam	Deschutes River
ODFW	Round Butte	ST	SU	2001	169,000	04-02-01	04-09-01	Bel. Pelton Dam	Deschutes River
ODFW	Wallowa	ST	SU	2001	174,000	03-30-01	03-31-01	Wallowa Acclim Pd	Grande Ronde River
ODFW	Wallowa	ST	SU	2001	174,000	04-01-01	04-15-01	Wallowa Acclim Pd	Grande Ronde River
ODFW Total					**1,273,500**				
Umatilla Tribe	Bonneville	CH1	FA	2001	240,000	04-10-01	04-20-01	Thornhollow Acclim Pd	Umatilla River
Umatilla Tribe	Cascade	CO	UN	2001	750,000	04-10-01	04-20-01	Pendelton Acclim Pd	Umatilla River
Umatilla Tribe	L White Salmon	CH1	SP	2001	183,378	04-10-01	04-20-01	Imeques Acclim Pd	Umatilla River
Umatilla Tribe	Umatilla	ST	SU	2001	48,508	04-06-01	04-06-01	Bonifer Acclim Pd	Umatilla River
Umatilla Tribe	Umatilla	ST	SU	2001	53,000	04-03-01	04-04-01	Minthorn Acclim Pd	Umatilla River
Umatilla Tribe Total					**1,274,886**				
USFWS	Entiat	CH1	SP	2001	402,000	04-03-01	04-04-01	Entiat H	Entiat River
USFWS	Warm Springs	CH1	SP	2001	785,036	03-22-01	04-18-01	Warm Springs H	Deschutes River
USFWS	Winthrop	CH1	SP	2001	177,000	04-11-01	04-20-01	Winthrop H	Methow River
USFWS	Winthrop	ST	SU	2001	99,000	04-11-01	05-20-01	Winthrop H	Methow River
USFWS Total					**1,463,036**				

HATCHERY RELEASE SUMMARY LAST TWO WEEKS (CON'T)

Warm Spgs Tribe	Oak Springs	ST	SU	2001	15,000	04-12-01	04-12-01	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	31,400	04-09-01	04-24-01	Parkdale Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	40,000	04-09-01	04-23-01	Jones Creek Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	57,800	04-09-01	04-23-01	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe Total					**144,200**				
WDFW	Lyons Ferry	CH1	FA	2001	450,000	04-02-01	04-13-01	Lyons Ferry H	Snake River
WDFW	Lyons Ferry	ST	SU	2001	40,000	04-02-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	100,000	03-26-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	200,000	03-26-01	04-30-01	Cottonwood Acclim Pd	Grande Ronde River
WDFW	Ringold Springs	ST	SU	2001	225,000	04-02-01	04-15-01	Ringold Springs H	Mid-Columbia River
WDFW	Tucannon	CH1	SP	2001	100,000	04-02-01	04-13-01	Curl Lake	Tucannon River
WDFW	Washougal	CO	SO	2001	2,800,000	04-02-01	04-12-01	Klickitat R	Klickitat River
WDFW	Wells	CH1	SU	2001	632,151	04-11-01	04-11-01	Similkameen Acclim Pd	Okanogan River
WDFW Total					**4,547,151**				
Yakima Tribe	Cle Elum	CH1	SP	2001	232,700	03-15-01	05-31-01	Clark Flat Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	257,700	03-15-01	05-31-01	Jack Creek Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	266,600	03-15-01	05-31-01	Easton Pd	Yakama River
Yakima Tribe Total					757,000				
GRAND TOTAL					**13,803,750**				

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

Hatchery Release Summary Next Two Weeks

From: **4/13/01** **to** **4/26/01**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Clearwater	CH1	SP	2001	84,654	04-13-01	04-13-01	Crooked R Acclim Pd	S Fk Clearwater River
IDFG	Clearwater	ST	SU	2001	97,500	04-20-01	04-26-01	Clear Cr	Clearwater Rvr M F
IDFG	Clearwater	ST	SU	2001	97,500	04-23-01	04-27-01	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
IDFG	Clearwater	ST	SU	2001	245,000	04-18-01	04-26-01	Crooked R Acclim Pd	S Fk Clearwater River
IDFG	Clearwater	ST	SU	2001	249,000	04-09-01	04-26-01	Red River Acclim Pd	S Fk Clearwater River
IDFG	Magic Valley	ST	SU	2001	50,000	04-16-01	05-11-01	E Fk Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	65,000	04-17-01	04-17-01	Salmon R Idaho	Salmon River
IDFG	Magic Valley	ST	SU	2001	80,000	04-16-01	04-16-01	N Fk Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	100,000	04-16-01	05-11-01	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2001	100,000	04-16-01	05-11-01	Yankee Fk (Salmon R)	Salmon River
IDFG	Magic Valley	ST	SU	2001	115,000	04-12-01	04-24-01	Salmon R Idaho	Salmon River
IDFG	Magic Valley	ST	SU	2001	140,000	04-17-01	04-20-01	McNabb/Salmon R	Salmon River
IDFG	Magic Valley	ST	SU	2001	150,000	04-14-01	04-18-01	Shoup Br (Salmon R)	Salmon River
IDFG	Magic Valley	ST	SU	2001	180,000	04-16-01	05-11-01	Hammer Cr	Salmon River
IDFG	Magic Valley	ST	SU	2001	185,000	04-19-01	05-04-01	Squaw Cr Acclim Pd	Salmon River
IDFG	Magic Valley	ST	SU	2001	240,000	04-16-01	05-11-01	Lemhi R	Salmon River
IDFG	Magic Valley	ST	SU	2001	435,000	04-10-01	04-27-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	250,000	04-08-01	04-13-01	Little Salmon R	Salmon River
IDFG	Niagara Springs	ST	SU	2001	830,000	04-15-01	05-02-01	Pahsimeroi H	Pahsimeroi River
IDFG	Pahsimeroi	CH1	SP	2001	85,000	04-12-01	04-20-01	Pahsimeroi H	Pahsimeroi River
IDFG	Pahsimeroi	CH1	SP	2001	197,000	04-12-01	04-20-01	Pahsimeroi H	Pahsimeroi River
IDFG	Rapid River	CH1	SP	2001	736,000	03-15-01	04-25-01	Rapid River H	Little Salmon River
IDFG	Sawtooth	CH1	SP	2001	57,000	04-20-01	04-20-01	Sawtooth H	Salmon River
IDFG Total					**4,768,654**				
Nez Perce Tribe	Hagerman	ST	SU	2001	140,000	04-11-01	04-15-01	Yankee Fk (Salmon R)	Salmon River
Nez Perce Tribe	Lookingglass	CH1	SP	2001	134,800	04-01-01	04-15-01	Lostine Accim Pd	Grande Ronde River
Nez Perce Tribe	Lookingglass	CH1	SP	2001	142,400	04-01-01	04-15-01	Catherine Cr Acclim Pd	Grande Ronde River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	111,000	04-09-01	04-13-01	Cpt John Acclim Pd	Snake River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	113,000	04-09-01	04-13-01	Pittsburg Landing	Snake River
Nez Perce Tribe	Lyons Ferry	CH1	FA	2001	129,000	04-09-01	04-13-01	Big Canyon (Clearwater R)	Clearwater Rvr M F
Nez Perce Tribe Total					**770,200**				
ODFW	Big Canyon	ST	SU	2001	87,000	04-08-01	04-22-01	Big Canyon Acclim.Pd	Grande Ronde River
ODFW	Imnaha	CH1	SP	2001	123,000	03-21-01	04-19-01	Imnaha Acclim Pd	Imnaha River
ODFW	Irrigon	ST	SU	2001	100,000	04-16-01	04-18-01	Big Sheep Cr	Imnaha River
ODFW	Li Sheep	ST	SU	2001	155,000	04-12-01	04-13-01	L Sheep Acclim Pd	Imnaha River
ODFW	Lookingglass	CH1	SP	2001	2,500	04-01-01	04-15-01	Grande Ronde Acclim Pd	Grande Ronde River
ODFW	Round Butte	CH1	SP	2001	302,000	04-02-01	04-19-01	Bel. Pelton Dam	Deschutes River
ODFW	Wallowa	ST	SU	2001	174,000	04-01-01	04-15-01	Wallowa Acclim Pd	Grande Ronde River
ODFW Total					**943,500**				
Umatilla Tribe	Bonneville	CH1	FA	2001	240,000	04-10-01	04-20-01	Thornhollow Acclim Pd	Umatilla River
Umatilla Tribe	Cascade	CO	UN	2001	750,000	04-10-01	04-20-01	Pendelton Acclim Pd	Umatilla River
Umatilla Tribe	L White Salmon	CH1	SP	2001	183,378	04-10-01	04-20-01	Imeques Acclim Pd	Umatilla River
Umatilla Tribe	Umatilla	ST	SU	2001	53,000	04-23-01	04-30-01	Minthorn Acclim Pd	Umatilla River
Umatilla Tribe Total					**1,226,378**				

Hatchery Release Summary Next Two Weeks (con't)

USFWS	Carson	CH1	SP	2001	1,609,000	04-20-01	04-23-01	Carson H	Wind River
USFWS	Dworshak	ST	SU	2001	300,000	04-16-01	04-20-01	Kooskia H	Clearwater Rvr M F
USFWS	Dworshak	ST	SU	2001	600,000	04-16-01	04-20-01	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
USFWS	Dworshak	ST	SU	2001	1,300,000	04-23-01	04-27-01	Dworshak H	Clearwater Rvr M F
USFWS	L White Salmon	CH1	SP	2001	1,100,000	04-19-01	04-19-01	Little White Salmon H	Little White Salmon River
USFWS	Leavenworth	CH1	SP	2001	1,695,000	04-18-01	04-18-01	Leavenworth H	Wenatchee River
USFWS	Spring Creek	CH0	FA	2001	5,250,000	04-19-01	04-19-01	Spring Creek H	L Col R (D/s McN Dam)
USFWS	Warm Springs	CH1	SP	2001	785,036	03-22-01	04-18-01	Warm Springs H	Deschutes River
USFWS	Willard	CO	UN	2001	1,000,000	04-19-01	04-19-01	Willard H	Little White Salmon River
USFWS	Winthrop	CH1	SP	2001	177,000	04-11-01	04-20-01	Winthrop H	Methow River
USFWS	Winthrop	ST	SU	2001	99,000	04-11-01	05-20-01	Winthrop H	Methow River
USFWS Total					**13,915,036**				
Warm Spgs Tribe	Oak Springs	ST	SU	2001	20,000	04-26-01	04-26-01	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	31,400	04-09-01	04-24-01	Parkdale Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	40,000	04-09-01	04-23-01	Jones Creek Acclim Pd	Hood River
Warm Spgs Tribe	Round Butte	CH1	SP	2001	57,800	04-09-01	04-23-01	Blackberry Acclim Pd	Hood River
Warm Spgs Tribe Total					**149,200**				
WDFW	East Bank	CH1	SU	2001	1,013,000	04-23-01	05-05-01	Dryden Acclim Pd	Wenatchee River
WDFW	East Bank	ST	SU	2001	33,475	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	45,500	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	48,058	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	East Bank	ST	SU	2001	57,814	04-23-01	05-11-01	Chiwawa H	Wenatchee River
WDFW	Klickitat	CO	NO	2001	1,350,000	04-16-01	05-18-01	Klickitat H	Klickitat River
WDFW	Lyons Ferry	CH1	FA	2001	450,000	04-02-01	04-13-01	Lyons Ferry H	Snake River
WDFW	Lyons Ferry	ST	SU	2001	40,000	04-02-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	60,000	04-16-01	04-27-01	Lyons Ferry H	Snake River
WDFW	Lyons Ferry	ST	SU	2001	60,000	04-16-01	04-30-01	Tucannon R	Tucannon River
WDFW	Lyons Ferry	ST	SU	2001	100,000	03-26-01	04-30-01	Dayton Acclim Pd	Touchet River
WDFW	Lyons Ferry	ST	SU	2001	125,000	04-16-01	04-30-01	Walla Walla R	Walla Walla River
WDFW	Lyons Ferry	ST	SU	2001	135,000	04-16-01	04-30-01	Tucannon R	Tucannon River
WDFW	Lyons Ferry	ST	SU	2001	200,000	03-26-01	04-30-01	Cottonwood Acclim Pd	Grande Ronde River
WDFW	Methow	CH1	SP	2001	66,500	04-16-01	05-07-01	Twisp R	Methow River
WDFW	Methow	CH1	SP	2001	180,000	04-16-01	04-27-01	Methow H	Methow River
WDFW	Ringold Springs	ST	SU	2001	225,000	04-02-01	04-15-01	Ringold Springs H	Mid-Columbia River
WDFW	Tucannon	CH1	SP	2001	100,000	04-02-01	04-13-01	Curl Lake	Tucannon River
WDFW	Turtle Rock	CH1	SU	2001	294,020	04-25-01	04-25-01	Turtle Rock H	Mid-Columbia River
WDFW	Wells	CH1	SU	2001	424,787	04-18-01	05-07-01	Carlton Acclim Pd	Methow River
WDFW	Wells	CH1	SU	2001	430,000	04-16-01	05-07-01	Wells H	Mid-Columbia River
WDFW	Wells	ST	SU	2001	50,000	04-16-01	04-16-01	Okanogan R	Okanogan River
WDFW	Wells	ST	SU	2001	50,000	04-16-01	04-16-01	Similkameen Acclim Pd	Okanogan River
WDFW	Wells	ST	SU	2001	116,000	04-16-01	04-16-01	Chewuch R	Methow River
WDFW	Wells	ST	SU	2001	116,000	04-16-01	04-16-01	Methow R	Methow River
WDFW	Wells	ST	SU	2001	116,000	04-16-01	04-16-01	Twisp R	Methow River
WDFW	Wells	ST	SU	2001	117,000	04-16-01	04-16-01	Methow R	Methow River
WDFW Total					**6,003,154**				

Hatchery Release Summary Next Two Weeks (con't)

Yakima Tribe	Cascade	CO	UN	2001	853,000	04-25-01	04-25-01	Icicle Cr	Wenatchee River
Yakima Tribe	Cle Elum	CH1	SP	2001	232,700	03-15-01	05-31-01	Clark Flat Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	257,700	03-15-01	05-31-01	Jack Creek Acclim Pd	Yakama River
Yakima Tribe	Cle Elum	CH1	SP	2001	266,600	03-15-01	05-31-01	Easton Pd	Yakama River
Yakima Tribe	Eagle Creek	CO	UN	2001	250,000	04-25-01	05-15-01	Winthrop H	Methow River
Yakima Tribe	Prosser	CH0	FA	2001	162,000	04-25-01	04-25-01	Prosser Acclim Pd	Yakama River
Yakima Tribe	Winthrop	CO	UN	2001	146,500	04-25-01	04-25-01	Methow R	Methow River
Yakima Tribe Total					**2,168,500**				
GRAND TOTAL					**29,944,622**				

Two-Week Summary of Passage Indices

COMBINED YEARLING CHINOOK

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/30/2001 *	536	191	23	0	530	---	---	---	---	80	299
03/31/2001	---	396	---	---	380	---	---	---	---	268	335
04/01/2001	---	1,358	---	---	400	---	---	3	---	112	217
04/02/2001 *	154	356	990	0	360	65	10	4	50	152	389
04/03/2001 *	821	1,464	1,035	0	780	160	70	2	112	236	413
04/04/2001	393	1,295	957	0	950	204	370	4	100	240	548
04/05/2001 *	618	957	318	0	690	245	970	6	156	188	528
04/06/2001	115	109	146	0	1,380	228	4,100	55	180	208	689
04/07/2001	---	67	---	---	1,290	180	1,970	56	76	416	579
04/08/2001	---	270	---	---	1,450	220	4,360	51	152	172	986
04/09/2001	310	231	115	0	1,550	244	4,833	74	224	208	2,698
04/10/2001 *	182	165	116	2	1,280	317	8,420	28	218	340	---
04/11/2001 *	80	143	70	1	3,771	421	9,050	53	252	936	---
04/12/2001 *	172	399	73	0	5,170	165	1,710	31	316	1,104	---
04/13/2001 *	209	---	---	1	3,430	273	---	23	420	804	2,809
Total:	**3,590**	**7,401**	**3,843**	**4**	**23,411**	**2,722**	**35,863**	**390**	**2,256**	**5,464**	**10,490**
# Days:	**11**	**14**	**10**	**11**	**15**	**12**	**11**	**13**	**12**	**15**	**12**
Average:	**326**	**529**	**384**	**0**	**1,561**	**227**	**3,260**	**30**	**188**	**364**	**874**

COMBINED SUBYEARLING CHINOOK

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/30/2001 *	0	0	0	0	0	---	---	---	---	0	546
03/31/2001	---	1	---	---	0	---	---	---	---	0	444
04/01/2001	---	0	---	---	0	---	---	19	---	0	382
04/02/2001 *	0	0	0	1	0	0	0	27	0	0	295
04/03/2001 *	0	0	0	0	0	0	0	15	20	0	392
04/04/2001	0	0	0	0	0	0	0	10	24	0	259
04/05/2001 *	0	0	0	0	0	0	0	0	48	0	311
04/06/2001	0	0	0	0	0	0	0	2	20	0	160
04/07/2001	---	0	---	---	0	0	0	7	28	0	129
04/08/2001	---	0	---	---	10	0	0	3	12	0	117
04/09/2001	0	0	0	0	0	0	0	5	28	0	152
04/10/2001 *	0	0	0	0	0	0	0	2	20	0	---
04/11/2001 *	0	0	0	0	0	0	0	8	40	0	---
04/12/2001 *	0	0	0	0	0	0	0	6	32	0	---
04/13/2001 *	0	---	---	0	0	0	---	8	45	0	202
Total:	**0**	**1**	**0**	**1**	**10**	**0**	**0**	**112**	**317**	**0**	**3,389**
# Days:	**11**	**14**	**10**	**11**	**15**	**12**	**11**	**13**	**12**	**15**	**12**
Average:	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**9**	**26**	**0**	**282**

*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)
03/30/2001 *	0	0	0	2	0	---	---	---	---	0	7
03/31/2001	---	0	---	---	0	---	---	---	---	0	0
04/01/2001	---	0	---	---	10	---	---	0	---	0	7
04/02/2001 *	0	0	0	0	0	0	0	0	0	0	19
04/03/2001 *	0	0	0	0	0	0	0	0	0	0	14
04/04/2001	0	0	0	0	0	0	0	0	0	0	0
04/05/2001 *	0	0	0	0	0	0	0	0	0	0	0
04/06/2001	0	0	0	0	0	0	0	0	4	0	0
04/07/2001	---	0	---	---	0	0	0	1	0	0	36
04/08/2001	---	0	---	---	0	0	0	0	8	0	52
04/09/2001	0	0	0	0	10	0	0	0	0	4	74
04/10/2001 *	0	0	0	0	0	0	0	0	8	8	---
04/11/2001 *	0	0	0	0	0	0	0	0	12	8	---
04/12/2001 *	0	0	0	0	0	0	0	0	8	12	---
04/13/2001 *	0	---	---	0	0	0	---	0	16	8	79
Total:	**0**	**0**	**0**	**2**	**20**	**0**	**0**	**1**	**56**	**40**	**288**
# Days:	**11**	**14**	**10**	**11**	**15**	**12**	**11**	**13**	**12**	**15**	**12**
Average:	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**5**	**3**	**24**

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)
03/30/2001 *	0	14	3	9	270	---	---	---	---	20	30
03/31/2001	---	3	---	---	180	---	---	---	---	116	23
04/01/2001	---	9	---	---	300	---	---	2	---	76	26
04/02/2001 *	0	4	1	2	310	20	20	1	10	24	50
04/03/2001 *	0	7	2	2	330	36	80	5	48	80	63
04/04/2001	0	2	13	1	460	96	50	0	108	100	74
04/05/2001 *	1	4	0	2	670	120	80	1	148	88	29
04/06/2001	0	1	3	1	550	64	90	2	160	100	42
04/07/2001	---	1	---	---	890	64	30	4	244	84	114
04/08/2001	---	1	---	---	1,020	172	120	3	176	36	73
04/09/2001	7	0	4	1	1,130	136	27	8	232	64	103
04/10/2001 *	8	0	20	4	990	72	90	3	271	84	---
04/11/2001 *	21	1	6	8	1,651	272	110	7	300	164	---
04/12/2001 *	34	11	31	4	1,490	148	30	5	244	212	---
04/13/2001 *	68	---	---	21	1,290	128	---	1	362	208	173
Total:	**139**	**58**	**83**	**55**	**11,531**	**1,328**	**727**	**42**	**2,303**	**1,456**	**800**
# Days:	**11**	**14**	**10**	**11**	**15**	**12**	**11**	**13**	**12**	**15**	**12**
Average:	**13**	**4**	**8**	**5**	**769**	**111**	**66**	**3**	**192**	**97**	**67**

Two-Week Summary of Passage Indices

COMBINED SOCKEYE

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/30/2001 *	0	0	0	0	30	---	---	---	---	0	0
03/31/2001	---	0	---	---	0	---	---	---	---	8	0
04/01/2001	---	0	---	---	10	---	---	0	---	0	0
04/02/2001 *	0	0	0	0	0	0	0	0	0	0	6
04/03/2001 *	0	0	0	0	30	9	0	0	0	0	0
04/04/2001	0	0	0	0	20	8	0	0	0	0	0
04/05/2001 *	0	0	0	0	30	4	0	0	4	8	0
04/06/2001	0	0	0	0	0	8	0	0	12	0	14
04/07/2001	---	0	---	---	40	0	0	0	4	0	7
04/08/2001	---	0	---	---	40	4	0	0	0	4	4
04/09/2001	0	0	0	0	20	4	0	0	4	4	4
04/10/2001 *	0	0	0	0	40	4	0	0	12	0	---
04/11/2001 *	0	0	0	0	40	8	0	0	4	0	---
04/12/2001 *	0	0	0	0	50	24	0	0	0	4	---
04/13/2001 *	0	---	---	0	0	4	---	0	4	4	5
Total:	**0**	**0**	**0**	**0**	**350**	**77**	**0**	**0**	**44**	**32**	**40**
# Days:	**11**	**14**	**10**	**11**	**15**	**12**	**11**	**13**	**12**	**15**	**12**
Average:	**0**	**0**	**0**	**0**	**23**	**6**	**0**	**0**	**4**	**2**	**3**

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 04/12

	Spring Chinook						Summer Chinook						Fall Chinook					
	2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.	
DAM	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	117,293	132	28,654	275	9,061	48	0	0	0	0	0	0	0	0	0	0	0	0
TDA	45,131	31	8,851	105	2,285	15	0	0	0	0	0	0	0	0	0	0	0	0
JDA	22,812	11	3,843	19	927	9	0	0	0	0	0	0	0	0	0	0	0	0
MCN	13,549	41	1,159	8	499	6	0	0	0	0	0	0	0	0	0	0	0	0
IHR	6,597	31	290	8	120	1	0	0	0	0	0	0	0	0	0	0	0	0
LMN	3,253	5	96	4	48	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	1,771	14	55	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0
LWG	639	0	29	4	13	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	---	---					---	---					---	---				
RIS	---	---					---	---					---	---				
RRH	---	---					---	---					---	---				
WEL	---	---					---	---					---	---				

	Coho						Sockeye			Steelhead			
	2001		2000		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2001	2000	Avg.	2001	2000	Avg.	2001
BON	0	0	0	0	0	0	0	0	0	1,856	1,307	1,309	614
TDA	0	0	0	0	0	0	0	0	0	401	300	550	135
JDA	0	0	0	0	0	0	0	0	0	1,192	1,574	1,278	206
MCN	0	0	0	0	0	0	0	0	0	878	329	1,047	377
IHR	0	0	0	0	0	0	0	0	0	828	533	1,336	247
LMN	0	0	0	0	0	0	0	0	0	1,066	549	1,264	424
LGS	0	0	0	0	0	0	0	0	0	1,150	487	388	493
LWG	0	0	0	0	0	0	0	0	0	4,418	2,011	3,863	930
PRD	---	---					---			---			---
RIS	---	---					---			---			---
RRH	---	---					---			---			---
WEL	---	---					---			---			---

TDA, JDA, LMN are through 04/11. JDA is missing 4/6 and 4/7; LGR is missing 4/11.
These numbers were collected from the COE's Running Sums text files.
Wild steelhead numbers are included in the total.
***PRD is not reporting Wild Steelhead numbers.
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

03/31/01 TO 04/13/01

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	10	23,411	20	350	11,531	35,322
	Sum of NumberBarged	0	8,931	0	89	2,982	12,002
	Sum of NumberBypassed	0	0	0	0	220	220
	Sum of Numbertrucked	10	10,987	20	258	7,093	18,368
	Sum of TotalProjectMortalities	0	70	0	3	7	80
LGS	Sum of NumberCollected		2,722		77	1,328	4,127
	Sum of NumberBarged		1,540		43	863	2,446
	Sum of NumberBypassed		0		0	0	0
	Sum of Numbertrucked		899		28	336	1,263
	Sum of TotalProjectMortalities		14		2	1	17
LMN	Sum of NumberCollected		35,863			727	36,590
	Sum of NumberBarged		30,155			400	30,555
	Sum of NumberBypassed		93			7	100
	Sum of Numbertrucked		5,519			319	5,838
	Sum of TotalProjectMortalities		96			1	97
MCN	Sum of NumberCollected	317	2,256	56	44	2,303	4,976
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	313	2,250	56	44	2,301	4,964
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4	6	0	0	2	12
Total Sum of NumberCollected		327	64,252	76	471	15,889	81,015
Total Sum of NumberBarged		0	40,626	0	132	4,245	45,003
Total Sum of NumberBypassed		313	2,343	56	44	2,528	5,284
Total Sum of Numbertrucked		10	17,405	20	286	7,748	25,469
Total Sum of TotalProjectMortalities		4	186	0	5	11	206

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YTD Transportation Summary

TO: 04/13/01

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	10	24,411	40	400	11,851	36,712
	Sum of NumberBarged	0	8,931	0	89	2,982	12,002
	Sum of NumberBypassed	0	0	0	0	220	220
	Sum of NumberTrucked	10	11,984	40	306	7,413	19,753
	Sum of TotalProjectMortalities	0	73	0	5	7	85
LGS	Sum of NumberCollected		2,722		77	1,328	4,127
	Sum of NumberBarged		1,540		43	863	2,446
	Sum of NumberBypassed		0		0	0	0
	Sum of NumberTrucked		899		28	336	1,263
	Sum of TotalProjectMortalities		14		2	1	17
LMN	Sum of NumberCollected		35,863			727	36,590
	Sum of NumberBarged		30,155			400	30,555
	Sum of NumberBypassed		93			7	100
	Sum of NumberTrucked		5,519			319	5,838
	Sum of TotalProjectMortalities		96			1	97
MCN	Sum of NumberCollected	317	2,256	56	44	2,303	4,976
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	313	2,250	56	44	2,301	4,964
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	4	6	0	0	2	12
Total Sum of NumberCollected		327	65,252	96	521	16,209	82,405
Total Sum of NumberBarged		0	40,626	0	132	4,245	45,003
Total Sum of NumberBypassed		313	2,343	56	44	2,528	5,284
Total Sum of NumberTrucked		10	18,402	40	334	8,068	26,854
Total Sum of TotalProjectMortalities		4	189	0	7	11	211

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