



Fish Passage Center

Weekly Report #01 - 21

August 3, 2001

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SIGNIFICANT POINTS

- **Mainstem migration flows continue to be far below the NMFS Biological Opinion targets for summer migrants both in the Snake River and in the Columbia River.**
- **Limited spill for fish passage continued this week at levels far below the Biological Opinion levels.**

SUMMARY OF EVENTS:

Reservoir Operations: Reservoir elevation changes over the past week are illustrated in the following table. In general reservoir elevations changed only slightly with the exception of Dworshak Reservoir. Dworshak reservoir continues to draft for water temperature control and flow enhancement for the main stem Snake River. The Dworshak outflow continues at an average of 9.9 kcfs.

Reservoir	Elevations (feet) July 27 – August 2
Libby	2436.23 – 2436.58
Hungry Horse	1493.73 – 1493.37
Grand Coulee	1280.96 – 1281.94
Dworshak	1564.23 – 1529.21
Brownlee	2068.17 – 2067.46 *

* through August 1

The Upper Snake River, Boise River and Payette River system of reservoirs continue to be drafted for irrigation purposes. The Boise system, Anderson Ranch, Arrowrock, Lucky Peak are presently at 39 % of capacity compared to 43 % a week ago. The Payette River system comprised of Cascade and Deadwood reservoirs is at 55% of capacity compared to 58% a week ago. The Upper Snake River system comprised of Jackson Lake, Palisades, Grassy Lake, Island Park, Ririe, American Falls and Lake Walcott is at 32% of capacity compared to 36% last week.

Flows: Main stem flows for the summer downstream migrants continue to be far below the NMFS Biological Opinion targets for summer migrants. Flows at McNary averaged 65.9 kcfs over the past week, while the Biological Opinion target for this time period at McNary is 200 kcfs. Flows at Lower Granite Dam averaged, 25.3 kcfs, compared to 50 kcfs target for this time period as established in the NMFS Biological Opinion. Weekly average flows at Priest Rapids Dam were 54.3 kcfs.

Spill: Summer spill for fish passage occurred over the past week at The Dalles and Bonneville dams. At Bonneville Dam spill occurred daily for 5 hours from 9 pm to 1 am. Average hourly spill was 44 kcfs with total discharge of 83.6 kcfs. A minimum of 39 kcfs is required for powerhouse and other operations at Bonneville, so spill has been the remainder of flow. At The Dalles spill averaged 16.5 kcfs (21.5% of total discharge) 24 hours per day over the past week, with total discharge averaging 76.7 kcfs.

In the mid-Columbia spill continued at Wells, Wanapum, and Priest Rapids dams. Spill at Wells averaged 4.1 kcfs over the past week. At Wanapum and Priest Rapids spill averaged 15.3 and 11.9 through July 31 (respectively) and was reduced to an average of 2 kcfs at Wanapum and less than 1 kcfs at Priest Rapids beginning August 1.

Smolt Monitoring Program: This weeks collections of subyearling chinook dropped 35% at Lower Granite Dam, 19% at Little Goose Dam and 45% at Lower Monumental Dam. The average passage index at Lower Snake dams was 1,558 at Lower Granite, 1,062 at Little Goose and 439 at Lower Monumental over the past week.

Subyearling passage indices at Rock Island Dam dropped 64%. The migration of subyearling chinook dropped 51% at McNary Dam from last week, with an average daily passage index of 73,000 this week compared to 150,000 fish per day last week. But at lower river projects collections of subyearling chinook were up. At John Day Dam the average passage index was 63,000, up 72% from last week, while at Bonneville Dam the passage index of subyearling chinook more than doubled, from roughly 11,000 fish per day last week, to more than 23,000 this week.

Adult Fish Passage: At Bonneville Dam, the preliminary count of adult summer chinook salmon through July 31 was 76,156, about 2.5 times and 3.6 times more than the respective Year 2000 and 10-year average. The adult chinook counts at Bonneville Dam ranged from a high of 821 to a low of 512 per day through the week. At The Dalles Dam, 71,389 adult summer chinook salmon have been counted, approximately 93.3% of the Bonneville count. The cumulative adult summer chinook salmon count at McNary Dam was 65,033, with 15,003 tallied at Ice Harbor (Snake River) and 44,079 at Priest Rapids Dam (Mid-Columbia River). Numbers of adult chinook entering the Snake River continued to decline (most counts were 50 or less per day) while the Priest Rapids counts averaged about 800 fish per day through the week.

On August 1, chinook salmon suddenly switched to the fall race at Bonneville Dam. Although it is too early for a trend, the initial two days of fall chinook passage were above 600 adults counted per day and exceeded the 2000 and 10-year average through August 2.

Steelhead passage at Bonneville Dam averaged nearly 12,100 per day through the week ending August 2 with the steelhead count at

248,306, about 2.4 and 3.9 times greater than the respective year 2000 and the 10-year average counts. Based on numbers to date, 2001 will produce a record-setting run of adult steelhead for the A-Run group (1938-2000 record = 276,000 in 1986). Returns of unclipped (mostly wild) steelhead comprise about 35% of the total steelhead run past Bonneville. Through August 2, there were more Wild fish (unclipped total = 86,945) past Bonneville Dam than hatchery and wild steelhead combined for the 10-year average (64,214). About 25% of the fish counted at Bonneville have arrived at McNary Dam (61,785). The steelhead passage at Ice Harbor Dam averaged about 850 per day for the week with the season total now at 24,219, about 2.5 times more than the 2000 and 3.3 times greater than the 10-year average. Steelhead counts at Mid-Columbia projects were increasing with about 170 per day passing Priest Rapids Dam and totaling 5,006 for the season, about 2.3 times greater than 2000 and 4.0 times the 10-year average.

Adult sockeye passage at Bonneville is basically complete for the season with only a handful counted per day; the season total is 114,974, about 1.2 times and 2.5 times more than the respective 2000 count and 10-year average count. About 110,000 sockeye salmon have been counted at Priest Rapids Dam through August 1 with most of these sockeye continuing up into Lake Wenatchee or Lake Osoyoos basins. Sockeye passage is rapidly declining at the upper Mid-Columbia projects. About 103,500 have been counted at Rock Island Dam with about 70% of these fish counted at Rocky Reach and Wells dams and destined for Lake Osoyoos. The Snake River sockeye run is 34 adult sockeye counted through August 1 at Lower Granite Dam (does not include video or night counts).

The return of coho salmon is estimated at 1.3 million to the mouth of the Columbia River; note that this includes both the early and late stock coho. No estimates have been made to Bonneville Dam as yet for adult coho salmon, but expectations are that the counts will be greater than in previous years. About 75% of the adult coho that pass Bonneville Dam do so in September.

Hatchery Releases: *Snake River* – Releases of yearling and subyearling chinook, sockeye, and coho salmon, and steelhead are completed for the 2001 migration season. About 12,000 sockeye (brood year 2000) were released into Alturas and Pettit Lakes during the past week. Most are expected to migrate from the lakes in 2002.

Mid-Columbia [above McNary Dam] – Releases of yearling and subyearling chinook, sockeye, and coho salmon, and steelhead are completed for the 2001 migration season.

Lower Columbia [McNary Dam to above Bonneville Dam]– Releases of yearling and subyearling chinook and coho salmon, and steelhead are completed for the 2001 migration season.

8/03/01

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/20/01	47.8	0.1	48.9	0.0	53.1	4.2	56.0	0.0	55.6	0.0	58.2	18.2	61.1	14.6
07/21/01	37.5	0.1	38.4	0.0	35.1	3.6	31.5	0.0	33.0	0.0	44.9	13.9	48.1	11.6
07/22/01	40.5	0.1	41.2	0.0	45.8	4.0	48.2	0.0	49.7	0.0	45.8	14.3	42.1	10.3
07/23/01	60.8	0.1	62.6	0.0	61.5	5.2	64.1	0.0	65.3	0.0	72.8	22.6	72.3	17.4
07/24/01	49.1	0.1	49.3	0.0	47.6	5.3	44.8	0.0	44.6	0.0	53.1	16.6	53.7	12.9
07/25/01	57.2	0.1	59.0	0.0	62.5	6.8	64.6	0.0	65.6	0.0	61.1	19.0	57.6	14.0
07/26/01	52.8	0.1	52.8	0.0	53.6	5.4	54.6	0.0	53.3	0.0	58.1	18.1	57.8	13.9
07/27/01	47.0	0.1	49.4	0.0	49.8	3.9	47.1	0.0	46.4	0.0	64.5	19.9	68.0	16.1
07/28/01	39.3	0.1	40.4	0.0	40.4	2.8	41.3	0.0	42.8	0.0	41.0	12.7	45.0	11.3
07/29/01	31.3	0.1	32.4	0.0	31.2	2.8	28.9	0.0	29.7	0.0	48.1	14.9	40.2	9.7
07/30/01	47.2	0.1	45.6	0.0	51.2	5.3	50.9	0.0	49.3	0.0	43.5	13.6	45.5	11.1
07/31/01	45.2	0.1	49.2	0.0	52.7	5.3	52.1	0.0	54.9	0.0	54.4	15.5	55.2	11.6
08/01/01	62.7	0.1	64.6	0.0	62.4	4.6	54.4	0.0	53.4	0.0	58.7	2.0	58.6	1.0
08/02/01	51.5	0.1	53.2	0.0	57.4	4.2	61.8	0.0	62.9	0.0	64.5	2.0	67.6	1.0

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
07/20/01	9.8	0.0	8.0	11.0	26.9	0.0	26.6	0.0	27.4	0.0	26.4	0.0	26.4	0.0
07/21/01	9.8	0.0	7.8	7.9	27.0	0.0	28.1	0.0	29.8	0.0	28.1	0.0	28.1	0.0
07/22/01	9.8	0.0	7.9	8.4	26.0	0.0	25.3	0.0	25.6	0.0	24.9	0.0	24.9	0.0
07/23/01	9.9	0.0	8.3	15.1	26.4	0.0	26.4	0.0	26.2	0.0	25.8	0.0	25.8	0.0
07/24/01	9.9	0.0	8.0	14.4	31.7	0.0	32.2	0.0	33.2	0.0	32.2	0.0	32.2	0.0
07/25/01	9.9	0.0	7.7	15.7	31.1	0.0	31.3	0.0	33.1	0.0	32.7	0.0	32.7	0.0
07/26/01	9.9	0.0	7.5	14.0	32.3	0.0	32.7	0.0	33.8	0.0	32.6	0.0	32.6	0.0
07/27/01	9.9	0.0	7.1	14.4	29.6	0.0	29.6	0.0	29.7	0.0	30.2	0.0	30.2	0.0
07/28/01	9.9	0.0	7.0	8.2	27.2	0.0	26.6	0.0	27.0	0.0	24.9	0.0	24.9	0.0
07/29/01	9.9	0.0	6.1	7.8	23.3	0.0	24.2	0.0	26.0	0.0	26.2	0.0	26.2	0.0
07/30/01	9.9	0.0	7.3	7.8	23.4	0.0	23.5	0.0	23.9	0.0	23.4	0.0	23.4	0.0
07/31/01	10.0	0.0	7.6	7.7	23.4	0.0	24.3	0.0	24.5	0.0	23.4	0.0	23.4	0.0
08/01/01	10.0	0.0	8.1	10.5	24.1	0.0	25.6	0.0	26.0	0.0	25.9	0.0	25.9	0.0
08/02/01	10.0	0.0	---	---	26.4	0.0	26.4	0.0	27.9	0.0	27.0	0.0	27.0	0.0

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
07/20/01	86.3	0.0	76.8	0.0	79.2	0.0	84.5	0.0	0.5	75.4
07/21/01	80.2	0.0	84.3	0.0	84.4	0.0	88.3	0.0	0.5	79.2
07/22/01	70.4	0.0	67.0	0.0	68.4	0.0	78.4	0.0	0.5	69.3
07/23/01	82.8	0.0	81.6	0.0	84.5	0.0	83.2	0.0	0.5	74.2
07/24/01	95.9	0.0	84.4	0.0	86.2	11.6	85.2	7.3	0.5	69.2
07/25/01	82.4	0.0	81.2	0.0	80.3	21.2	88.4	9.6	0.6	69.7
07/26/01	85.1	0.0	82.3	0.0	88.8	24.1	91.6	9.8	0.6	72.9
07/27/01	89.1	0.0	89.9	0.0	88.8	21.8	96.7	9.8	0.5	77.9
07/28/01	79.9	0.0	77.8	0.0	79.9	17.3	92.6	9.1	0.5	74.6
07/29/01	69.6	0.0	71.9	0.0	72.5	15.0	79.3	9.0	0.6	61.5
07/30/01	68.6	0.0	70.5	0.0	72.0	15.0	78.0	9.0	0.6	60.2
07/31/01	72.2	0.0	75.2	0.0	76.8	16.7	80.4	9.0	0.5	62.6
08/01/01	72.7	0.0	72.9	0.0	73.6	15.0	80.3	9.3	0.6	62.1
08/02/01	82.0	0.0	69.5	0.0	73.3	15.0	78.1	9.3	0.6	59.9

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

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank				Fish with L. Line GBT	
								Rank 1	Rank 2	Rank 3	Rank 4	Num Fish	Avg. Rank
McNary Dam													
	07/26/01	Subyearling Chinook	100	1	0	0.00%	0.00%	0	0	0	0	1	1
	07/30/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/02/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
Bonneville Dam													
	07/24/01	Subyearling Chinook	80	0	0	0.00%	0.00%	0	0	0	0	0	0
	07/27/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	07/30/01	Subyearling Chinook	100	1	0	0.00%	0.00%	0	0	0	0	1	1
Rock Island Dam													
	07/26/01	Subyearling Chinook	100	1	1	1.00%	0.00%	1	0	0	0	0	0
	07/30/01	Subyearling Chinook	72	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/02/01	Subyearling Chinook	59	1	1	1.69%	0.00%	1	0	0	0	0	0

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary									
From:		8/3/01		to		8/16/01			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Sawtooth	SO	UN	2002	6,057	7/27/01	7/31/01	Pettit Lake	Salmon River
IDFG	Sawtooth	SO	UN	2002	6,123	7/27/01	7/31/01	Alturas Lake	Salmon River
IDFG TOTAL					12,180				
GRAND TOTAL					12,180				

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	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	#				
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	hr
7/20	108	108	109	24	107	108	108	24	107	107	107	24	106	107	109	20	108	109	110	24
7/21	107	108	109	24	105	106	107	24	107	107	107	24	106	106	108	20	108	108	109	24
7/22	106	107	107	23	105	106	106	24	107	107	107	24	106	106	108	17	107	108	108	23
7/23	106	106	107	24	106	107	107	24	107	107	107	24	105	106	108	23	108	109	109	23
7/24	106	107	108	24	106	106	107	24	107	107	108	24	106	107	109	23	108	109	109	23
7/25	107	108	109	24	105	106	107	24	107	107	107	24	106	106	108	24	108	108	109	23
7/26	108	109	109	24	105	106	107	24	107	108	108	24	106	107	109	22	108	109	109	23
7/27	108	109	110	24	105	106	106	24	107	108	108	24	106	107	108	24	109	109	110	23
7/28	108	108	109	24	104	104	105	24	107	107	108	24	106	106	108	20	107	108	108	23
7/29	108	109	110	24	104	105	105	24	107	107	107	24	106	107	109	21	108	109	110	23
7/30	108	109	109	24	105	106	106	24	107	107	107	24	106	107	108	20	108	109	110	23
7/31	106	107	108	24	105	106	106	24	107	107	107	24	105	106	108	24	108	108	109	23
8/1	105	106	107	24	105	106	106	24	106	107	107	24	105	105	107	24	107	108	109	23
8/2	109	110	110	23	106	107	109	23	107	107	110	23	105	106	108	22	107	107	110	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	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	#				
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	hr
7/20	109	110	110	24	111	111	112	22	111	111	112	22	111	111	112	22	110	111	111	21
7/21	108	109	109	24	109	110	111	14	110	110	112	14	111	111	112	19	110	110	111	19
7/22	108	109	110	23	110	110	112	24	110	111	111	24	111	111	112	20	110	110	111	19
7/23	108	109	109	23	110	111	111	24	110	111	112	24	111	111	111	16	110	110	111	15
7/24	108	109	109	23	110	111	112	21	110	111	112	21	111	111	111	18	110	111	111	18
7/25	108	108	109	23	110	111	112	22	110	111	111	22	111	111	111	21	110	110	111	21
7/26	109	109	110	23	110	111	112	24	110	111	112	24	111	111	112	21	110	111	111	19
7/27	109	110	111	23	110	111	111	23	109	111	111	23	111	112	112	20	110	111	111	20
7/28	107	108	109	23	109	109	110	23	108	109	109	23	111	111	111	22	110	110	111	22
7/29	107	108	108	23	109	110	112	23	108	109	110	23	110	110	111	23	110	110	110	22
7/30	107	108	109	23	110	110	111	23	109	110	111	23	110	110	110	19	109	110	110	19
7/31	107	108	108	23	109	109	110	24	109	110	110	24	108	108	109	19	108	108	109	19
8/1	107	107	108	23	108	109	111	23	108	109	110	23	107	108	108	21	107	107	107	21
8/2	108	109	112	23	108	109	109	22	108	109	109	22	108	109	109	22	108	109	109	20

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	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	#				
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	hr
7/20	107	108	108	23	110	110	111	23	105	106	107	24	109	110	110	24	108	108	109	24
7/21	108	108	108	20	111	111	111	20	105	105	107	24	109	109	110	24	108	109	110	24
7/22	108	108	108	24	110	111	112	24	105	106	108	24	109	110	111	24	107	108	108	24
7/23	108	108	108	23	111	112	112	23	106	107	109	22	110	111	112	22	108	109	111	24
7/24	108	108	108	24	111	111	112	23	107	107	108	24	109	110	111	24	108	108	109	24
7/25	107	108	108	22	110	111	112	22	106	106	107	24	109	110	111	24	107	108	109	24
7/26	109	110	111	20	111	111	112	19	106	107	108	24	109	110	111	24	107	108	109	24
7/27	109	110	111	22	110	110	111	22	106	107	108	24	110	110	111	24	107	107	108	24
7/28	109	109	109	22	109	110	110	22	106	106	106	24	109	109	111	24	106	107	107	24
7/29	107	109	109	23	108	109	109	23	104	105	105	24	108	109	109	24	106	106	106	24
7/30	108	109	110	24	109	110	110	24	---	---	---	0	---	---	---	0	---	---	---	0
7/31	107	108	108	24	108	109	109	23	---	---	---	0	---	---	---	0	---	---	---	0
8/1	107	107	108	24	108	108	108	24	---	---	---	0	---	---	---	0	---	---	---	0
8/2	107	107	108	23	107	108	108	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	Priest R. Dnst			Pasco			Dworshak			Clrwtr-Peck			Anatone			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg				hr	Avg	Avg
7/20	108	108	109	24	105	105	106	24	100	100	101	24	---	---	---	0	102	104	107	24
7/21	108	109	109	24	104	104	105	24	100	100	100	23	---	---	---	0	103	105	107	24
7/22	108	108	109	21	104	105	106	21	99	100	100	24	102	104	105	24	102	104	106	24
7/23	108	109	109	17	107	108	108	24	100	100	100	24	102	104	105	24	103	105	107	24
7/24	108	109	110	24	107	107	108	23	100	100	101	23	103	104	106	23	103	105	107	24
7/25	107	108	109	24	106	106	107	21	100	100	100	24	102	104	105	24	103	105	108	24
7/26	107	108	109	24	106	106	107	21	100	100	101	24	102	104	106	24	103	105	108	24
7/27	107	108	109	24	106	106	108	21	99	100	100	24	102	104	106	24	103	105	108	24
7/28	107	107	108	14	103	104	106	24	99	100	100	24	102	103	104	24	102	104	106	24
7/29	104	104	105	4	102	103	103	24	99	99	100	24	101	102	103	24	101	102	103	24
7/30	---	---	---	0	102	103	103	24	99	100	100	24	101	102	102	24	101	102	103	24
7/31	---	---	---	0	103	104	105	24	99	100	100	24	102	103	104	24	102	104	107	24
8/1	---	---	---	0	103	104	105	21	99	100	100	24	102	103	104	24	102	105	107	24
8/2	---	---	---	0	104	105	106	24	99	100	100	24	102	103	105	24	102	105	107	23

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwtr-Lewiston			Lower Granite			L. Granite Tlwr			Little Goose			L. Goose Tlwr			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg				hr	Avg	Avg
7/20	102	104	106	24	103	104	107	24	99	100	101	24	98	99	100	23	99	99	100	23
7/21	102	104	106	23	102	104	106	24	99	99	100	24	98	99	99	23	98	99	99	23
7/22	102	104	106	24	104	105	107	24	99	99	100	24	98	99	99	24	99	99	99	24
7/23	103	105	106	24	105	106	108	24	99	100	101	23	100	100	101	24	99	100	100	24
7/24	103	105	106	23	101	103	105	24	100	100	101	24	98	99	101	23	99	99	100	23
7/25	103	105	106	24	101	102	103	24	100	100	101	24	99	101	101	23	98	99	100	23
7/26	103	105	106	24	103	104	105	24	100	101	102	24	102	102	103	23	98	99	99	23
7/27	103	105	106	24	103	104	106	24	101	101	102	24	101	101	103	24	98	99	99	24
7/28	101	103	104	24	101	102	102	24	100	100	102	24	99	99	99	24	98	98	99	24
7/29	101	102	103	24	100	101	101	24	100	100	101	24	99	100	100	24	98	99	99	24
7/30	101	102	102	24	101	102	102	24	100	101	107	24	100	100	100	24	99	100	100	24
7/31	102	104	106	24	101	102	103	24	100	100	100	24	99	99	100	24	98	99	99	24
8/1	102	104	105	24	102	103	103	24	99	99	100	24	99	100	101	24	98	99	99	24
8/2	103	105	106	24	104	104	106	24	98	99	100	24	99	99	100	23	98	99	100	23

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

Date	Lower Mon.			L. Mon. Tlwr			Ice Harbor			Ice Harbor Tlwr			McNary-Oregon			#				
	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High	#	24 h	12 h	High		#			
	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg				hr	Avg	Avg
7/20	99	99	99	24	98	99	100	24	98	99	99	23	101	101	102	23	103	104	105	24
7/21	99	99	100	23	98	99	100	23	98	99	100	24	100	101	101	24	103	103	104	24
7/22	99	100	101	23	99	100	100	23	99	99	101	24	101	101	103	24	103	103	104	24
7/23	100	101	101	24	98	99	100	24	100	101	103	24	101	101	102	24	103	104	105	24
7/24	99	99	100	23	98	99	100	23	100	101	105	24	100	100	101	24	105	106	108	23
7/25	100	102	104	24	99	100	101	24	101	104	108	24	100	101	101	24	106	107	109	24
7/26	102	102	103	23	100	101	103	23	102	103	106	24	101	102	103	24	108	109	110	24
7/27	100	101	102	23	99	100	101	23	99	100	103	24	100	101	102	24	107	108	108	24
7/28	99	99	100	24	99	99	101	24	97	97	98	24	99	100	101	24	103	104	105	24
7/29	99	100	100	24	99	100	101	24	98	99	99	24	100	101	102	24	102	102	102	24
7/30	100	100	101	24	99	100	102	24	98	98	99	24	100	101	102	24	101	101	102	24
7/31	99	99	100	23	99	100	100	23	97	98	98	24	100	100	101	24	100	100	101	24
8/1	99	100	101	24	99	99	100	24	98	99	100	24	100	100	101	24	99	99	100	24
8/2	99	99	100	24	99	99	100	24	98	99	100	24	100	100	102	24	100	100	101	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	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	#					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High		hr			
7/20	102	103	104	24	101	102	102	24	99	99	100	24	99	100	100	24	100	100	100	24
7/21	101	101	102	24	101	102	102	24	98	99	99	24	99	99	99	24	99	99	100	23
7/22	102	103	104	24	102	102	103	20	98	98	99	23	99	100	100	24	99	100	100	23
7/23	104	106	108	24	103	103	104	24	98	99	99	23	99	99	100	24	99	100	100	23
7/24	104	105	105	23	103	104	104	23	98	98	98	23	98	98	99	23	100	100	100	23
7/25	107	108	108	24	103	104	104	24	98	98	99	23	99	99	99	24	99	100	100	23
7/26	107	108	110	24	104	104	105	20	97	98	99	23	99	100	100	24	99	99	100	23
7/27	105	106	107	24	104	104	105	24	98	98	99	23	99	99	99	24	99	99	100	23
7/28	103	104	104	24	102	102	103	24	97	97	98	23	98	99	99	24	99	99	99	23
7/29	102	102	102	24	102	102	103	24	96	96	97	17	99	99	99	24	99	99	99	23
7/30	101	102	102	24	102	102	103	24	97	98	99	23	99	99	99	24	99	99	99	23
7/31	100	100	101	24	101	101	102	24	98	98	98	23	98	99	99	24	99	99	100	23
8/1	99	99	100	24	100	101	101	24	97	98	98	23	99	100	100	24	99	99	99	23
8/2	99	100	102	24	100	101	101	20	97	97	97	23	98	99	99	24	99	99	100	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	The Dalles Dnst			Bonneville			Warrendale			Skamania			Camas\Washugal			#				
	24 h	12 h	#	24 h	12 h	#	24h	12h	#	24h	12h	#	24h	12h	#					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High		hr			
7/20	100	100	100	24	100	100	100	24	101	101	101	24	100	100	101	24	101	101	101	24
7/21	99	100	100	23	99	99	99	24	100	101	101	24	100	100	101	24	101	101	102	24
7/22	99	100	101	24	99	99	99	23	101	101	101	23	100	100	101	23	101	102	103	24
7/23	100	100	101	24	99	100	100	23	101	101	102	23	100	101	101	23	101	102	102	24
7/24	101	103	107	24	100	100	100	23	101	101	102	23	100	101	102	23	101	102	102	24
7/25	108	109	109	23	100	100	100	23	104	105	110	23	103	105	109	23	102	103	105	24
7/26	109	109	110	24	100	100	100	23	103	105	110	23	102	104	108	23	103	105	106	24
7/27	106	108	109	24	99	99	100	23	103	105	109	23	101	103	108	23	102	104	106	24
7/28	106	107	108	24	99	100	100	23	102	104	110	23	101	103	108	23	102	103	105	24
7/29	106	107	107	24	100	100	101	23	104	107	110	23	103	104	109	23	101	102	104	24
7/30	107	107	107	24	101	101	101	23	104	106	110	23	103	105	110	23	102	103	104	24
7/31	107	108	108	22	100	100	101	23	104	106	111	23	103	104	110	23	103	103	105	24
8/1	108	109	109	24	101	101	101	23	104	105	109	22	103	105	109	23	103	104	106	24
8/2	108	108	109	24	101	101	101	23	105	107	112	23	104	105	110	23	104	105	107	24

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)
07/20/2001	---	---	---	---	0	50	70	0	780	450	0
07/21/2001	---	---	---	---	20	35	110	0	400	350	0
07/22/2001	---	---	---	---	20	24	30	0	300	375	0
07/23/2001	---	---	---	---	0	4	40	0	390	225	30
07/24/2001 *	---	---	---	---	10	12	40	0	240	0	75
07/25/2001	---	---	---	---	15	12	70	1	340	900	58
07/26/2001 *	---	---	---	---	15	28	78	0	500	300	29
07/27/2001	---	---	---	---	0	20	78	0	390	0	0
07/28/2001	---	---	---	---	0	36	18	1	200	0	56
07/29/2001	---	---	---	---	0	40	54	1	600	150	0
07/30/2001	---	---	---	---	0	8	30	0	800	900	35
07/31/2001 *	---	---	---	---	0	20	18	0	100	900	58
08/01/2001 *	---	---	---	---	10	9	12	1	0	1,050	58
08/02/2001	---	---	---	---	10	0	32	0	30	0	58
08/03/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	100	298	680	4	5,070	5,600	457
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	7	21	49	0	362	400	33
YTD	12,660	26,732	9,049	527	1,957,826	749,405	553,127	6,635	2,298,054	1,000,681	1,686,646

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)
07/20/2001	---	---	---	---	5,140	1,220	1,050	752	119,320	23,300	18,728
07/21/2001	---	---	---	---	2,540	1,253	690	926	219,400	35,250	13,759
07/22/2001	---	---	---	---	2,270	1,578	1,700	534	154,000	29,325	9,181
07/23/2001	---	---	---	---	1,670	1,363	500	478	114,210	21,000	6,073
07/24/2001 *	---	---	---	---	1,460	1,137	470	484	121,610	52,575	7,423
07/25/2001	---	---	---	---	1,850	999	430	326	169,720	47,700	8,753
07/26/2001 *	---	---	---	---	2,095	1,619	792	406	146,100	39,450	12,162
07/27/2001	---	---	---	---	1,835	961	1,212	399	150,520	65,850	11,229
07/28/2001	---	---	---	---	2,095	857	516	211	140,600	72,600	14,413
07/29/2001	---	---	---	---	1,345	1,132	324	166	92,900	62,100	28,850
07/30/2001	---	---	---	---	1,035	1,449	324	176	64,400	73,350	38,384
07/31/2001 *	---	---	---	---	1,610	1,647	276	170	35,100	79,500	26,648
08/01/2001 *	---	---	---	---	1,865	787	156	153	18,300	48,600	17,276
08/02/2001	---	---	---	---	1,120	598	268	98	8,910	38,400	24,465
08/03/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	27,930	16,600	8,708	5,279	1,555,090	689,000	237,344
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	1,995	1,186	622	377	111,078	49,214	16,953
YTD	1	1	13	31	655,770	149,976	43,872	21,088	9,987,022	1,657,204	2,450,757

*The total, #days and average do not include the current day's data. *See sampling comments. [http://www.fpc.org/current daily/smpcomments.htm](http://www.fpc.org/current%20daily/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)
07/20/2001	---	---	---	---	440	85	10	34	0	50	0
07/21/2001	---	---	---	---	220	50	0	19	0	150	0
07/22/2001	---	---	---	---	250	68	30	37	0	0	50
07/23/2001	---	---	---	---	210	100	40	14	90	0	30
07/24/2001 *	---	---	---	---	110	72	20	34	100	75	50
07/25/2001	---	---	---	---	75	124	10	35	220	150	0
07/26/2001 *	---	---	---	---	75	115	186	18	100	0	0
07/27/2001	---	---	---	---	90	216	54	17	180	450	0
07/28/2001	---	---	---	---	50	208	12	13	300	600	63
07/29/2001	---	---	---	---	55	68	0	10	0	150	0
07/30/2001	---	---	---	---	65	117	6	11	0	150	0
07/31/2001 *	---	---	---	---	40	72	12	0	100	150	58
08/01/2001 *	---	---	---	---	45	24	12	3	0	150	0
08/02/2001	---	---	---	---	30	72	20	3	0	150	58
08/03/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	1,755	1,391	412	248	1,090	2,225	309
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	125	99	29	18	78	159	22
YTD	0	0	0	6	56,495	20,253	1,902	45,364	146,423	62,063	2,162,376

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)
07/20/2001	---	---	---	---	1,440	218	190	2	10	0	0
07/21/2001	---	---	---	---	1,260	288	70	16	100	0	0
07/22/2001	---	---	---	---	1,610	203	160	12	100	0	0
07/23/2001	---	---	---	---	1,040	80	90	8	120	150	0
07/24/2001 *	---	---	---	---	1,180	49	170	6	220	0	50
07/25/2001	---	---	---	---	1,535	177	170	6	160	0	0
07/26/2001 *	---	---	---	---	1,295	168	594	5	200	150	143
07/27/2001	---	---	---	---	1,655	156	744	5	120	0	29
07/28/2001	---	---	---	---	1,505	142	468	3	0	0	13
07/29/2001	---	---	---	---	1,175	200	444	2	0	0	29
07/30/2001	---	---	---	---	675	98	144	1	0	0	138
07/31/2001 *	---	---	---	---	395	48	90	1	0	0	0
08/01/2001 *	---	---	---	---	295	45	24	0	0	0	115
08/02/2001	---	---	---	---	200	20	40	1	60	0	0
08/03/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	15,260	1,892	3,398	68	1,090	300	517
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	1,090	135	243	5	78	21	37
YTD	4,567	34,103	4,357	5,399	5,541,456	829,329	347,069	17,885	560,943	189,289	488,576

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)
07/20/2001	---	---	---	---	0	0	0	2	0	150	0
07/21/2001	---	---	---	---	0	0	0	1	0	50	0
07/22/2001	---	---	---	---	0	4	0	1	0	0	0
07/23/2001	---	---	---	---	0	12	0	3	30	0	60
07/24/2001 *	---	---	---	---	0	4	0	4	100	75	0
07/25/2001	---	---	---	---	5	8	0	3	100	0	0
07/26/2001 *	---	---	---	---	0	4	0	0	0	150	29
07/27/2001	---	---	---	---	0	0	12	2	90	0	0
07/28/2001	---	---	---	---	0	4	0	0	100	150	0
07/29/2001	---	---	---	---	0	4	0	2	100	0	0
07/30/2001	---	---	---	---	0	0	0	1	100	0	0
07/31/2001 *	---	---	---	---	0	0	0	4	0	0	0
08/01/2001 *	---	---	---	---	5	0	0	2	0	0	115
08/02/2001	---	---	---	---	5	4	4	0	0	0	0
08/03/2001	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	15	44	16	25	620	575	204
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	1	3	1	2	44	41	15
YTD	24	0	0	0	4,525	9,732	992	3,005	283,922	102,584	106,210

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: 08/02

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.		2001		2000		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	391,367	14,172	178,302	21,259	70,775	4,654	76,156	14,724	30,616	13,554	21,085	3,689	1,270	315	803	281	460	92
TDA	302,372	9,953	102,953	14,796	41,161	3,200	71,022	10,740	24,840	10,314	16,781	2,671	0	0	0	0	0	0
JDA	262,221	6,181	86,553	12,157	33,812	2,643	62,551	9,624	22,669	7,859	15,608	2,200	0	0	0	0	0	0
MCN	258,689	6,683	64,647	10,836	30,645	2,566	65,033	8,873	19,537	6,715	15,527	2,074	0	0	0	0	0	0
IHR	171,173	3,026	38,807	9,489	16,921	1,647	15,003	2,357	4,185	3,173	4,276	757	0	0	0	0	0	0
LMN	180,787	1,784	35,520	10,336	15,613	1,755	19,010	1,491	4,611	3,245	4,050	765	0	0	0	0	0	0
LGS	174,823	2,990	34,330	10,152	14,769	1,744	15,696	2,662	4,128	3,734	3,879	834	0	0	0	0	0	0
LWG	171,958	3,136	33,822	10,318	13,830	1,676	13,436	3,727	3,852	3,717	4,026	842	0	0	0	0	0	0
PRD	51,133	987	20,098	1,092	9,843	292	46,884	2,405	19,455	1,837	13,132	626	0	0	0	0	0	0
RIS	39,785	1,761	14,850	1,558	7,292	362	40,302	9,803	17,141	9,962	10,574	1,622	0	0	0	0	0	0
RRH	15,895	543	5,336	392	1,847	90	28,423	3,533	11,184	2,934	4,721	534	0	0	0	0	0	0
WEL	9,994	877	2,130	457	869	97	22,755	2,345	4,564	1,734	2,321	373	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2001		2000		10-Yr Avg.		10-Yr			10-Yr			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2001	2000	Avg.	2001	2000	Avg.	2001
BON	16	0	2	0	22	7	114,974	93,350	46,378	248,306	104,256	64,214	86,945
TDA	0	0	0	0	1	0	102,514	73,314	36,078	124,634	46,703	26,345	52,722
JDA	46	3	2	0	0	0	107,986	88,304	38,736	67,429	33,154	18,960	26,362
MCN	2	0	0	0	0	0	97,102	60,168	36,949	61,785	20,166	13,837	24,046
IHR	0	0	0	0	0	0	26	213	27	24,219	9,783	7,367	6,457
LMN	0	0	0	0	0	0	32	291	36	25,332	7,652	6,197	7,571
LGS	0	0	0	0	0	0	68	287	35	14,797	4,930	3,454	5,439
LWG	0	0	0	0	0	0	34	284	33	14,154	5,758	6,434	4,737
PRD	14	25	37	5	5	0	109,605	89,124	43,959	5,006	2,199	1,266	**
RIS	30	0	12	0	3	0	103,563	76,216	37,488	3,531	1,535	886	1,662*
RRH	28	0	8	0	0	0	65,213	56,754	21,966	2,196	831	529	850*
WEL	1	0	0	0	0	0	72,451	58,608	20,237	1,102	361	328	478

LGR is through 8/1; RIS, RRH are through 8/1 and are from Chelan CO PUD.

WEL is through 8/1 and is from Douglas CO PUD. PRD is through 8/1 and is from Grant CO PUD; TDA duplicate counts for 7/22 & 7/23.

*As Chelan CO PUD does not report wild, these numbers are from the COE.

**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

07/21/01 TO 08/03/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	27,930	100	1,755	15	15,260	45,060
	Sum of NumberBarged	24,607	79	1,642	5	14,650	40,983
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	2,950	19	75	10	491	3,545
	Sum of TotalProjectMortalities	373	2	38	0	119	532
LGS	Sum of NumberCollected	16,600	298	1,391	44	1,892	20,225
	Sum of NumberBarged	14,279	127	1,237	37	1,715	17,395
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	1,298	3	91	3	60	1,455
	Sum of TotalProjectMortalities	1,023	168	63	4	117	1,375
LMN	Sum of NumberCollected	8,708	680	412	16	3,398	13,214
	Sum of NumberBarged	8,060	517	379	12	3,193	12,161
	Sum of NumberBypassed	0	0	0	0	14	14
	Sum of Numbertrucked	408	40	32	4	45	529
	Sum of TotalProjectMortalities	240	123	1	0	146	510
MCN	Sum of NumberCollected	1,555,090	5,070	1,090	620	1,090	1,562,960
	Sum of NumberBarged	1,782,517	5,649	1,070	609	1,002	1,790,847
	Sum of NumberBypassed	9,928	0	0	0	0	9,928
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	23,699	100	119	11	38	23,967
Total Sum of NumberCollected		1,608,328	6,148	4,648	695	21,640	1,641,459
Total Sum of NumberBarged		1,829,463	6,372	4,328	663	20,560	1,861,386
Total Sum of NumberBypassed		9,928	0	0	0	14	9,942
Total Sum of Numbertrucked		4,656	62	198	17	596	5,529
Total Sum of TotalProjectMortalities		25,335	393	221	15	420	26,384

YTD Transportation Summary

TO: 08/03/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	655,770	1,957,826	56,495	4,525	5,541,456	8,216,072
	Sum of NumberBarged	651,045	1,867,778	55,289	4,115	5,270,209	7,848,436
	Sum of NumberBypassed	1	79,198	976	221	265,274	345,670
	Sum of NumberTrucked	2,950	6,452	105	177	3,877	13,561
	Sum of TotalProjectMortalities	1,774	4,397	125	12	2,095	8,403
LGS	Sum of NumberCollected	150,656	751,562	20,262	9,738	830,809	1,763,027
	Sum of NumberBarged	144,995	745,094	19,896	9,648	820,895	1,740,528
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	1,298	901	91	31	396	2,717
	Sum of TotalProjectMortalities	4,363	3,637	125	49	5,050	13,224
LMN	Sum of NumberCollected	43,872	553,127	1,902	992	347,069	946,962
	Sum of NumberBarged	42,822	529,615	1,868	983	343,630	918,918
	Sum of NumberBypassed	0	16,478	0	0	525	17,003
	Sum of NumberTrucked	408	5,559	32	4	364	6,367
	Sum of TotalProjectMortalities	642	1,475	2	5	2,550	4,674
MCN	Sum of NumberCollected	9,939,819	2,224,825	140,766	268,454	551,421	13,125,285
	Sum of NumberBarged	9,085,046	1,021,547	76,419	126,803	232,148	10,541,963
	Sum of NumberBypassed	458,819	1,162,074	57,288	136,862	303,005	2,118,048
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	68,911	6,278	806	541	4,051	80,587
Total Sum of NumberCollected		10,790,117	5,487,340	219,425	283,709	7,270,755	24,051,346
Total Sum of NumberBarged		9,923,908	4,164,034	153,472	141,549	6,666,882	21,049,845
Total Sum of NumberBypassed		458,820	1,257,750	58,264	137,083	568,804	2,480,721
Total Sum of NumberTrucked		4,656	12,912	228	212	4,637	22,645
Total Sum of TotalProjectMortalities		75,690	15,787	1,058	607	13,746	106,888