



Fish Passage Center

Weekly Report #01 - 23

August 17, 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.**

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 over the past week 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 10.6 kcfs.

Reservoir	Elevations (feet) August 10 – August 16
Libby	2436.48 – 2436.21
Hungry Horse	3542.37 – 3541.70
Grand Coulee	1280.60 – 1279.30
Dworshak	1546.55 – 1538.20
Brownlee	2061.52 – 2059.98*

* through August 14

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 is presently at 32% of capacity compared to 36% a week ago. The Payette River system comprised of Cascade and Deadwood reservoirs is at 49% of capacity compared to 52% 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 24% of capacity compared to 28% 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 100.9 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, 24.6 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 78.9 kcfs.

Spill: Summer spill for fish passage occurred over the past week at The Dalles and Bonneville dams. At Bonneville Dam spill occurred for 24 hours daily at 50 Kcfs. At The Dalles spill averaged 38.2 Kcfs (37% of total discharge) for 24 hours per day over the past week, with total discharge averaging 102.8 Kcfs.

In the Mid-Columbia spill continued at Wells, Wanapum and Priest Rapids dams. Spill at Wells averaged 6.3 Kcfs over the past week. At Wanapum and Priest Rapids spill averaged 1.6 Kcfs and 1.0 Kcfs, respectively.

Total dissolved gas readings are less than the waiver limits. No fish with bubbles in the unpaired fins were observed this past week.

Smolt Monitoring Program. This week's collections of subyearling chinook skyrocketed 370% at Lower Granite Dam, with average daily collections of 5,748 fish collected this week compared to 1,223 a week ago. At Little Goose Dam collections held steady increasing by 18%, while the number collected at Lower Monumental Dam decreased by 55% compared to last week. Subyearling chinook passage indices at Rock Island Dam dropped 57%. Daily collections of subyearling chinook were near 20,000 this week at McNary Dam (down 57%). Subyearling chinook collections at John Day Dam were up 46%. Passage indices of subyearling chinook increased 38% at Bonneville Dam.

The large increase in the collection of fish for transport from Lower Granite Dam resulted in a re-allocation of available trucks for transport and additional holding of some fish (beyond the 48 hour requirement). Operations at Little Goose and Lower Monumental dams were also modified in order to accommodate this influx of fish at Lower Granite. Lower Monumental and Little Goose facilities released a raceway of fish to meet the truck demand for a day. At McNary daily transport of the collected fish was initiated until numbers are further reduced.

Adult Fish Passage: Summer chinook salmon counts are basically completed at most projects for the year. See the Adult Table for the preliminary results of the summer chinook counts for 2001, 2000, and the 10-year average. Overall, summer chinook returns showed a large gain not only from the previous year but also from the 10-year average into both the Snake River and Mid-Columbia River basins.

At Bonneville Dam, counts of adult fall chinook have been between 400 and 1,100 per day through the week with the cumulative count now 10,431. This compares with 11,984 for year 2000 and 6,819 for the 10-year average. Numbers of fish were falling by the end of the week probably due to the higher water temperatures that currently prevail in the lower Columbia River as well as the Snake River. About 58.8% of the Bonneville adult fall chinook count has passed The Dalles Dam with

about 3,000 adult fall chinook counted at McNary Dam through August 16. WDFW will begin assessing numbers/percentages of "bright" and "tule" fall chinook passage at Bonneville Dam. The "tule" fall chinook are destined primarily for Spring Creek National Fish Hatchery located in the Bonneville pool area with the "bright" fall chinook destined for many of the larger tributaries of the Columbia and Snake Rivers as well as the mainstem Columbia and Snake Rivers to spawn. Preliminary estimates are for increased numbers of adult fall chinook in the Columbia River basin for 2001. CRITFC are sampling a portion of the fall chinook at the Bonneville Washington ladder. Preliminary results during the 1st two sample weeks show 43% of the adult fish have been marked (ad clip). The CRITFC ages the fish by reading scales from sampled fish. The returning adult fish are a composite of subyearling and yearling migrant fish that have spent from 1 to 4 years in the ocean. The percentage of fall chinook returns as noted by years spent in the ocean follows: Jack chinook (1-ocean) – 17%; 2-ocean – 45%; 3-ocean – 30%; and 4-ocean – 8%.

Steelhead passage at Bonneville Dam took a nosedive when compared to previous weeks, but still averaged nearly 7,100 per day through the week ending August 16. The cumulative count of steelhead is 379,260, which is about 2.5 and 3.5 times greater than the respective year 2000 and 10-year average counts. This season's total is about 600 fish less than the all-time record run of adult steelhead that occurred in 1986. Returns of unclipped (mostly wild) steelhead have exceeded 114,000 to date. About 24% of the fish counted at Bonneville have arrived at McNary Dam (89,408). The steelhead passage at Ice Harbor Dam averaged about 932 per day for the week with the season total now at 40,938, about 3.2 and 3.8 times greater than the respective 2000 and 10-year average. Steelhead counts at Mid-Columbia projects were increasing with about 467 per day passing Priest Rapids Dam and totaling 11,127 for the season, about 2.9 and 4.9 times greater than the respective 2000 and 10-year average. Both the Snake River and upper Columbia River should have record or near record returns based on passage of adult steelhead into both Reaches to

date and the continued high numbers of steelhead still passing Bonneville Dam. As a point of interest, passage of salmon species at Lower Granite Dam dropped to only 5 fish counted at the project (Aug 16), again this slow down, we believe is due to the elevated water temperatures present in the river and fish ladder (warmer surface water is drawn into the upper end of the fish ladder).

Adult sockeye passage at Priest Rapids Dam through August 15 was 110,923 with most of these sockeye continuing up into Lake Wenatchee or Lake Osoyoos basins. Sockeye passage continued its rapid decline at the upper Mid-Columbia projects. About 104,600 have been counted at Rock Island Dam with about 70% of these fish passing Rocky Reach and Wells dams and destined for Lake Osoyoos. The Snake River sockeye run is 36 adult sockeye counted through August 16 at Lower Granite Dam (does not include video or night counts) and was near the 10-year average count of 35.

The return of hatchery coho salmon is estimated at 1.1 million to the mouth of the Columbia River; note that this includes both the early and late stock coho. Daily counts of coho passing Bonneville Dam decreased through this week with the season total of 486. As noted for fall chinook at Bonneville, higher water temperatures this week have likely slowed passage of coho in the lower Columbia River as well as at up-river sites.

Hatchery Releases. *Snake River* – Releases of yearling and subyearling chinook, sockeye, and coho salmon and steelhead are completed for the 2001 migration season.

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 Bonneville Dam]– Releases of yearling chinook and coho salmon, and steelhead are completed for the 2001 migration season. A release of about 300,000 subyearling spring chinook will take place in the Big White Salmon River this week. It is anticipated that these fish will migrate during this fall and in spring 2002 (listed as 2001 Migration Year).

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
08/03/01	48.3	0.1	52.4	0.0	51.3	4.2	51.3	0.0	52.2	0.0	54.5	1.9	55.2	1.0
08/04/01	33.6	0.1	38.3	0.0	40.3	3.2	38.5	0.0	38.9	0.0	47.8	1.9	53.1	0.9
08/05/01	49.7	0.1	46.0	0.0	44.2	3.6	43.5	0.0	45.0	0.0	47.4	1.7	46.3	0.9
08/06/01	82.1	0.1	81.5	0.0	83.5	6.4	83.7	0.0	81.9	0.0	65.2	2.0	59.9	0.9
08/07/01	92.0	0.1	96.6	0.0	95.4	7.3	92.0	0.0	93.4	0.0	102.0	2.4	107.0	4.7
08/08/01	67.0	0.1	72.1	0.0	76.3	6.3	72.6	0.0	73.1	0.0	83.3	1.8	91.4	1.1
08/09/01	68.7	0.1	64.1	0.0	63.6	5.4	62.9	0.0	62.8	0.0	66.9	1.6	67.6	1.0
08/10/01	67.8	0.1	72.6	0.0	75.5	5.9	78.6	0.0	79.9	0.0	78.9	1.7	78.4	1.1
08/11/01	56.4	0.1	58.3	0.0	60.6	5.1	55.4	0.0	55.2	0.0	69.7	1.7	73.1	0.8
08/12/01	59.3	0.1	58.3	0.0	54.1	4.4	53.5	0.0	54.6	0.0	61.6	1.6	64.6	1.0
08/13/01	77.8	0.1	83.7	0.0	86.8	6.9	85.9	0.0	84.3	0.0	71.2	1.6	71.6	1.0
08/14/01	80.6	0.1	76.6	0.0	75.8	6.5	77.4	0.0	78.8	0.0	92.5	1.6	96.4	1.1
08/15/01	81.6	0.1	82.2	0.0	84.5	7.4	78.2	0.0	79.8	0.0	82.1	1.7	84.7	1.0
08/16/01	75.0	0.1	76.5	0.0	75.0	7.7	77.9	0.0	76.2	0.0	77.1	1.4	83.6	0.9

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/03/01	10.3	0.0	7.6	10.3	27.5	0.0	27.3	0.0	28.6	0.0	28.5	0.0
08/04/01	10.4	0.0	6.7	7.6	27.1	0.0	28.3	0.0	28.9	0.0	27.6	0.0
08/05/01	10.4	0.0	7.7	8.7	24.2	0.0	25.0	0.0	25.2	0.0	24.0	0.0
08/06/01	10.5	0.0	7.8	13.3	24.9	0.0	24.6	0.0	25.8	0.0	25.9	0.0
08/07/01	10.5	0.0	7.0	13.0	27.5	0.0	28.3	0.0	28.2	0.0	26.6	0.0
08/08/01	10.5	0.0	8.4	13.9	26.9	0.0	27.8	0.0	28.5	0.0	26.6	0.0
08/09/01	10.0	0.0	6.6	10.5	27.8	0.0	29.0	0.0	30.4	0.0	31.2	0.0
08/10/01	10.6	0.0	6.6	13.1	24.6	0.0	24.3	0.0	25.4	0.0	24.5	0.0
08/11/01	10.7	0.0	7.1	10.6	29.0	0.0	30.3	0.0	30.8	0.0	29.5	0.0
08/12/01	10.7	0.0	6.7	9.6	23.5	0.0	24.7	0.0	25.0	0.0	24.1	0.0
08/13/01	10.7	0.0	7.8	10.3	24.1	0.0	24.0	0.0	25.2	0.0	24.8	0.0
08/14/01	10.4	0.0	8.1	10.7	23.3	0.0	24.7	0.0	26.3	0.0	25.4	0.0
08/15/01	10.4	0.0	7.7	8.4	25.3	0.0	25.0	0.0	24.4	0.0	23.3	0.0
08/16/01	10.5	0.0	---	---	22.1	0.0	23.0	0.0	24.2	0.0	23.7	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		
08/03/01	87.6	0.0	76.1	0.0	74.6	17.8	82.4	8.8	0.5	64.8
08/04/01	85.8	0.0	73.4	0.0	73.2	15.0	80.8	9.5	0.6	62.5
08/05/01	79.3	0.0	83.3	0.0	84.5	21.8	83.0	9.2	0.6	65.0
08/06/01	81.6	0.0	91.5	0.0	89.7	27.0	97.6	9.1	0.6	79.7
08/07/01	98.2	0.0	91.3	0.0	93.5	28.5	100.3	9.1	0.5	82.4
08/08/01	120.5	0.0	117.3	0.0	118.7	41.8	123.2	18.7	6.8	89.9
08/09/01	115.5	0.0	116.2	0.0	116.4	45.9	126.2	33.0	3.2	82.5
08/10/01	91.1	0.0	99.5	0.0	104.2	41.1	110.8	49.5	0.5	54.1
08/11/01	105.2	0.0	100.1	0.0	98.6	36.0	102.6	49.6	0.6	45.8
08/12/01	89.1	0.0	94.8	0.0	100.5	33.8	105.8	49.7	0.6	48.9
08/13/01	96.6	0.0	92.6	0.0	88.6	31.3	108.8	49.6	0.6	51.9
08/14/01	105.3	0.0	105.5	0.0	105.8	38.6	107.9	49.3	0.6	51.3
08/15/01	105.6	0.0	108.4	0.0	109.3	42.9	118.7	49.6	0.6	61.8
08/16/01	113.5	0.0	112.5	0.0	112.3	43.6	120.2	49.7	0.5	63.2

Gas Bubble Trauma Monitoring Results from Representative Sites on the 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													
	08/09/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/13/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/16/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
Bonneville Dam													
	08/09/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/13/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/16/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	08/09/01	Subyearling Chinook	100	1	0	0.00%	0.00%	0	0	0	0	1	1
	08/13/01	Subyearling Chinook	11	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/16/01	Subyearling Chinook	30	0	0	0.00%	0.00%	0	0	0	0	0	0

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary									
From:		8/17/01		to		8/30/01			
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
USFWS	Spring Creek	CH0	SP	2001	350,000	08-17-01	08-24-01	White Salmon R	White Salmon River
USFWS Total					350,000				
Grand Total					350,000				

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	#	24 h		12 h	#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
8/3	109	110	110	24	107	108	109	24	107	107	107	24	106	107	108	24	108	108	108	24
8/4	109	110	110	24	106	106	107	24	107	107	107	24	106	107	109	24	108	108	109	24
8/5	110	110	110	24	106	106	107	24	106	106	106	24	105	106	108	23	107	108	109	23
8/6	109	110	110	24	106	107	108	24	106	106	106	24	104	105	106	24	107	107	107	23
8/7	109	110	110	24	106	107	107	24	106	106	106	24	104	105	107	24	107	107	107	23
8/8	107	109	110	23	105	106	106	24	106	106	106	21	104	105	107	24	106	106	107	23
8/9	103	104	104	24	105	106	107	24	106	106	106	24	104	105	108	24	105	106	106	23
8/10	103	104	104	24	105	106	107	24	106	106	106	24	104	105	107	24	106	106	107	22
8/11	103	104	105	24	105	106	107	24	105	105	105	24	104	105	107	23	105	106	106	24
8/12	103	104	104	24	106	106	107	24	104	104	104	24	104	105	108	24	106	106	107	23
8/13	104	104	105	24	106	106	106	24	104	104	104	24	104	104	107	24	107	107	108	23
8/14	103	104	104	24	106	107	107	24	104	104	104	24	104	105	107	24	106	107	107	23
8/15	103	104	104	24	106	106	107	24	104	104	104	24	104	105	106	24	106	107	107	23
8/16	103	103	104	24	105	106	106	24	103	103	104	24	104	104	107	24	106	106	106	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	#	24 h		12 h	#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
8/3	108	108	109	24	108	109	109	24	108	109	110	24	109	109	109	21	109	109	109	21
8/4	108	109	109	24	108	109	109	23	107	108	109	23	109	109	109	20	108	109	109	20
8/5	107	108	109	23	108	109	110	24	107	108	109	24	108	108	109	20	108	108	109	18
8/6	106	107	108	23	108	109	109	22	108	110	110	22	107	108	108	20	107	107	108	20
8/7	106	107	108	23	108	109	109	24	109	110	110	24	108	108	108	21	107	108	108	19
8/8	107	108	109	23	107	107	107	24	108	108	109	24	108	108	109	20	108	108	109	20
8/9	106	106	107	23	108	109	110	23	108	109	109	23	109	109	110	18	109	109	110	17
8/10	105	106	106	22	108	108	109	24	109	110	110	24	109	109	109	22	109	109	110	22
8/11	105	105	106	24	108	108	109	24	108	109	110	24	109	109	109	19	109	109	109	19
8/12	105	106	107	23	108	109	110	24	108	109	110	24	109	109	109	17	109	109	109	17
8/13	105	105	106	23	107	108	108	22	108	109	109	22	109	109	109	22	109	109	109	22
8/14	105	105	106	23	107	108	109	24	108	109	109	24	109	109	109	17	109	109	109	17
8/15	106	106	107	23	108	109	109	24	108	108	109	24	108	109	109	19	109	109	109	19
8/16	105	106	107	23	109	109	109	23	108	109	110	23	108	108	108	20	108	108	109	19

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	#	24 h		12 h	#
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
8/3	108	109	109	22	109	109	110	21	107	107	107	24	107	107	108	24	106	107	108	24
8/4	108	108	109	23	109	109	109	22	105	106	107	24	107	107	108	24	106	106	107	24
8/5	107	108	108	23	108	108	109	23	104	105	106	24	106	106	107	24	105	106	108	24
8/6	107	108	109	18	108	108	109	18	106	107	108	19	106	106	107	23	106	106	108	24
8/7	108	108	108	22	108	108	109	22	107	108	109	24	106	107	109	24	106	106	108	24
8/8	107	108	108	22	108	108	109	21	107	108	110	24	107	107	107	24	106	107	107	24
8/9	108	109	110	22	110	111	111	22	108	109	111	24	107	108	109	24	107	107	108	20
8/10	109	110	110	20	111	111	112	19	109	110	112	24	108	109	109	24	---	---	---	0
8/11	109	109	110	23	111	111	112	23	108	110	111	24	107	108	108	24	---	---	---	0
8/12	109	109	109	22	111	111	111	22	109	111	113	24	108	109	109	24	---	---	---	0
8/13	109	109	109	22	111	111	111	21	---	---	---	0	---	---	---	0	---	---	---	0
8/14	109	109	110	24	111	111	112	23	---	---	---	0	---	---	---	0	---	---	---	0
8/15	109	109	109	24	111	111	111	24	---	---	---	0	---	---	---	0	---	---	---	0
8/16	108	108	109	13	111	111	111	13	---	---	---	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			Clrwrtr-Peck			Anatone			#				
	24 h		12 h	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			
8/3	106	107	108	24	105	106	107	24	100	100	101	24	---	---	---	0	102	104	107	24
8/4	106	106	107	24	103	104	104	24	99	100	100	24	---	---	---	0	101	103	105	24
8/5	105	106	107	24	102	102	103	24	99	100	100	24	101	103	105	24	102	104	106	24
8/6	106	106	107	24	103	104	105	24	99	99	99	24	101	103	104	24	102	104	106	24
8/7	106	107	110	24	104	105	105	21	99	99	100	24	101	103	105	24	102	104	106	24
8/8	106	106	107	24	104	104	104	21	99	99	100	23	101	103	104	23	102	104	107	24
8/9	106	107	108	24	104	104	105	24	99	100	106	24	101	103	106	23	103	105	107	24
8/10	107	108	109	24	104	105	105	24	98	99	99	24	---	---	---	0	102	104	106	24
8/11	108	108	109	24	104	105	105	24	99	99	99	24	---	---	---	0	102	104	106	24
8/12	108	109	109	24	104	105	105	24	99	99	100	22	101	102	104	22	102	104	106	24
8/13	---	---	---	0	104	105	105	24	98	99	99	24	100	101	102	24	101	103	105	24
8/14	---	---	---	0	105	106	106	24	99	99	100	24	101	102	103	24	102	104	106	24
8/15	---	---	---	0	105	106	106	24	99	99	99	24	101	102	103	24	102	104	106	24
8/16	---	---	---	0	106	107	107	24	98	99	99	24	101	102	103	24	102	104	106	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwrtr-Lewiston			Lower Granite			L. Granite Tlwr			Little Goose			L. Goose Tlwr			#				
	24 h		12 h	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			
8/3	103	105	106	24	102	103	105	24	99	100	100	23	100	100	100	24	99	100	100	24
8/4	102	103	104	24	100	101	103	24	100	100	100	24	99	100	101	23	98	98	99	23
8/5	102	105	106	24	107	110	111	24	100	101	101	23	102	103	105	22	99	100	101	22
8/6	103	105	106	24	107	108	108	24	100	101	101	22	106	108	113	24	99	100	100	24
8/7	103	105	107	24	106	106	107	24	100	100	101	24	102	106	114	24	97	98	98	24
8/8	103	105	106	23	106	107	109	23	100	100	101	22	100	102	105	23	98	99	99	24
8/9	103	105	106	24	111	116	117	24	100	101	102	24	108	111	115	23	100	101	102	23
8/10	103	105	106	24	115	116	117	24	101	102	103	24	114	115	116	24	100	101	102	24
8/11	102	105	106	24	115	116	117	24	101	102	103	24	113	114	115	24	101	102	102	24
8/12	103	105	106	22	116	116	117	24	101	101	102	24	111	113	114	24	100	100	101	24
8/13	102	104	105	24	114	115	117	24	100	101	101	24	111	112	113	23	100	100	100	23
8/14	102	105	106	24	113	114	115	23	100	101	101	22	111	111	112	24	99	100	100	24
8/15	102	104	106	24	112	112	113	24	100	101	102	24	110	111	112	23	99	99	100	23
8/16	104	108	109	24	111	112	114	24	100	101	101	24	108	111	112	24	99	99	100	24

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	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			
8/3	100	100	102	23	99	100	101	23	99	100	101	24	100	101	101	24	101	102	104	24
8/4	101	101	103	24	99	99	100	24	99	100	101	24	100	100	101	24	102	102	104	24
8/5	101	101	103	24	100	101	101	24	100	101	103	24	100	101	101	24	103	104	105	24
8/6	100	101	103	21	99	100	102	21	100	101	103	24	100	101	101	24	103	104	106	24
8/7	99	100	101	24	99	99	100	24	101	104	107	24	100	100	101	24	103	106	108	23
8/8	102	106	111	24	99	100	102	24	103	105	107	24	100	101	103	24	107	109	111	24
8/9	109	109	110	24	100	101	102	24	104	106	107	24	101	102	102	24	108	109	110	24
8/10	106	108	109	24	100	101	102	24	104	106	108	24	101	102	103	24	109	110	111	24
8/11	106	108	109	24	98	99	100	24	104	107	108	24	101	101	102	24	106	108	110	24
8/12	106	110	112	23	99	99	100	23	106	108	109	24	101	102	103	24	107	108	111	24
8/13	102	104	106	24	99	100	101	24	104	106	108	24	101	101	102	24	109	110	111	24
8/14	107	108	108	24	99	100	101	24	104	107	108	24	101	102	102	24	110	111	112	24
8/15	108	109	109	23	100	101	102	23	106	107	108	24	101	101	102	24	109	110	112	24
8/16	106	108	108	24	100	101	101	24	103	105	107	23	100	101	101	23	110	111	113	24

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	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			
8/3	100	100	101	24	101	102	102	24	97	97	98	24	99	99	99	24	99	99	100	24
8/4	101	102	103	24	101	101	102	24	97	97	97	24	99	99	99	24	99	99	99	23
8/5	103	104	105	24	102	102	103	24	97	97	98	23	98	99	99	24	98	98	99	23
8/6	103	103	105	24	102	103	103	24	97	98	98	23	98	98	99	23	98	99	100	23
8/7	104	105	107	24	102	103	103	24	98	98	104	13	98	98	99	23	99	99	99	23
8/8	107	108	111	24	103	104	104	24	101	101	103	13	98	99	99	24	99	99	99	23
8/9	108	109	110	24	104	104	105	24	103	105	107	23	99	100	100	24	98	99	99	18
8/10	107	107	110	24	104	104	105	24	102	103	105	24	100	100	101	24	99	100	100	24
8/11	107	108	109	24	104	104	104	24	99	100	100	24	98	99	99	24	100	100	100	24
8/12	106	107	109	24	104	105	105	24	99	101	104	23	98	98	99	24	99	99	100	23
8/13	109	110	111	24	104	105	106	24	98	98	100	23	98	98	99	24	99	99	99	23
8/14	108	109	112	24	104	104	105	24	98	99	100	23	98	98	100	24	99	99	99	23
8/15	107	108	109	24	104	105	105	24	99	100	101	23	99	99	100	24	99	99	100	23
8/16	107	108	108	24	104	105	105	24	100	100	100	23	99	99	100	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			
8/3	108	108	109	24	101	101	102	24	105	106	110	24	104	105	109	24	104	106	108	24
8/4	108	108	109	24	101	102	102	24	105	107	111	24	104	106	109	24	103	104	106	24
8/5	108	108	109	24	101	102	102	23	105	106	110	23	104	105	109	23	104	104	106	24
8/6	109	110	111	24	102	102	103	23	104	106	110	23	104	105	108	23	105	106	107	24
8/7	109	109	110	24	102	102	103	23	104	105	110	23	104	105	108	23	104	105	107	24
8/8	109	110	111	24	103	103	104	23	106	108	112	23	105	106	108	23	104	106	108	24
8/9	110	110	110	18	104	105	105	23	110	113	113	23	107	108	109	23	105	107	109	23
8/10	110	111	113	24	106	107	107	24	113	113	114	24	110	111	111	23	107	109	110	24
8/11	110	110	111	24	106	106	107	24	112	113	113	24	111	111	111	24	109	110	110	24
8/12	109	110	110	24	105	106	106	21	113	114	114	23	110	110	111	23	109	110	111	24
8/13	109	109	110	24	104	105	106	23	112	112	113	23	109	110	110	23	108	109	110	24
8/14	109	110	111	24	103	103	103	23	111	111	112	23	108	109	109	23	107	107	108	24
8/15	110	110	111	24	102	102	102	23	110	111	111	23	107	107	108	23	107	107	108	24
8/16	110	110	111	24	101	101	101	23	110	110	111	23	106	107	107	23	105	106	107	24

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)
08/03/2001	---	---	---	---	0	4	16	0	30	0	94
08/04/2001	---	---	---	---	0	0	16	0	200	0	0
08/05/2001	---	---	---	---	0	4	32	0	200	150	0
08/06/2001	---	---	---	---	4	4	28	0	150	150	57
08/07/2001	---	---	---	---	0	0	40	0	0	150	0
08/08/2001	---	---	---	---	0	0	20	0	200	150	56
08/09/2001	---	---	---	---	0	10	16	0	0	300	142
08/10/2001	---	---	---	---	0	68	12	0	0	450	0
08/11/2001	---	---	---	---	4	86	8	0	50	300	154
08/12/2001	---	---	---	---	0	32	20	0	0	0	0
08/13/2001 *	---	---	---	---	20	14	12	0	0	0	195
08/14/2001	---	---	---	---	10	7	8	0	60	450	0
08/15/2001 *	---	---	---	---	0	54	0	0	60	0	285
08/16/2001 *	---	---	---	---	0	4	0	0	30	150	0
Total:	0	0	0	0	38	287	228	0	980	2,250	983
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	3	21	16	0	70	161	70
YTD	12,660	26,732	9,049	527	1,957,864	749,683	553,355	6,575	2,299,034	1,002,931	1,687,629

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)
08/03/2001	---	---	---	---	1,356	1,439	672	74	36,655	26,400	15,278
08/04/2001	---	---	---	---	816	1,379	712	72	50,650	37,350	18,748
08/05/2001	---	---	---	---	1,000	1,219	512	41	47,250	21,600	16,034
08/06/2001	---	---	---	---	1,388	999	672	48	55,800	70,050	11,360
08/07/2001	---	---	---	---	1,272	863	448	143	48,024	60,450	14,999
08/08/2001	---	---	---	---	1,348	427	344	140	46,100	37,200	17,573
08/09/2001	---	---	---	---	1,380	489	280	159	50,650	63,300	31,658
08/10/2001	---	---	---	---	3,364	819	276	72	34,300	108,150	24,562
08/11/2001	---	---	---	---	4,816	694	292	63	24,800	70,650	13,057
08/12/2001	---	---	---	---	7,015	957	360	30	22,500	82,650	27,793
08/13/2001 *	---	---	---	---	6,410	1,087	144	22	8,520	52,200	33,651
08/14/2001	---	---	---	---	8,430	1,258	188	40	9,790	51,300	29,775
08/15/2001 *	---	---	---	---	5,920	1,782	212	15	26,925	57,150	22,238
08/16/2001 *	---	---	---	---	4,280	1,445	172	46	18,465	39,600	22,155
Total:	0	0	0	0	48,795	14,857	5,284	965	480,429	778,050	298,881
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	3,485	1,061	377	69	34,316	55,575	21,349
YTD	1	1	13	31	704,565	164,646	49,156	22,040	10,467,451	2,435,254	2,749,638

*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	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/03/2001	---	---	---	---	40	44	32	3	30	300	0
08/04/2001	---	---	---	---	20	36	24	6	50	300	172
08/05/2001	---	---	---	---	20	32	56	4	100	0	174
08/06/2001	---	---	---	---	48	48	40	1	50	300	0
08/07/2001	---	---	---	---	20	52	40	1	0	300	0
08/08/2001	---	---	---	---	32	52	44	10	50	900	112
08/09/2001	---	---	---	---	28	60	28	5	150	1,200	0
08/10/2001	---	---	---	---	28	40	40	2	50	1,650	9
08/11/2001	---	---	---	---	96	88	24	1	0	1,500	0
08/12/2001	---	---	---	---	125	64	20	3	0	3,000	0
08/13/2001 *	---	---	---	---	60	32	32	3	0	1,800	293
08/14/2001	---	---	---	---	220	50	24	4	0	900	0
08/15/2001 *	---	---	---	---	120	36	48	0	30	2,250	285
08/16/2001 *	---	---	---	---	200	22	20	2	0	600	0
Total:	0	0	0	0	1,057	656	472	45	510	15,000	1,045
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	76	47	34	3	36	1,071	75
YTD	0	0	0	6	57,552	20,909	2,374	45,400	146,933	77,063	2,163,421

COMBINED STEELHEAD

Date	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/03/2001	---	---	---	---	228	28	104	2	30	0	0
08/04/2001	---	---	---	---	204	28	112	3	100	0	0
08/05/2001	---	---	---	---	348	44	100	4	0	0	0
08/06/2001	---	---	---	---	596	40	204	1	0	0	0
08/07/2001	---	---	---	---	700	169	180	3	76	0	0
08/08/2001	---	---	---	---	456	246	320	2	100	0	0
08/09/2001	---	---	---	---	384	194	616	0	50	0	71
08/10/2001	---	---	---	---	620	331	880	2	0	600	177
08/11/2001	---	---	---	---	1,000	426	644	1	0	0	0
08/12/2001	---	---	---	---	2,295	447	720	2	50	0	0
08/13/2001 *	---	---	---	---	2,880	565	1,240	0	30	0	98
08/14/2001	---	---	---	---	5,060	487	456	0	45	150	0
08/15/2001 *	---	---	---	---	4,240	374	492	0	75	150	0
08/16/2001 *	---	---	---	---	3,560	594	836	0	45	0	141
Total:	0	0	0	0	22,571	3,973	6,904	20	601	900	487
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	1,612	284	493	1	43	64	35
YTD	4,567	34,103	4,357	5,399	5,564,027	833,277	353,973	17,837	561,544	190,189	489,063

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)
08/03/2001	---	---	---	---	4	0	4	0	0	0	0
08/04/2001	---	---	---	---	0	0	0	0	100	0	86
08/05/2001	---	---	---	---	4	4	0	0	0	0	0
08/06/2001	---	---	---	---	4	0	0	0	100	0	0
08/07/2001	---	---	---	---	0	0	0	1	0	300	0
08/08/2001	---	---	---	---	0	4	0	1	50	150	0
08/09/2001	---	---	---	---	8	0	4	0	0	0	0
08/10/2001	---	---	---	---	0	0	0	1	0	150	0
08/11/2001	---	---	---	---	0	4	4	0	0	0	0
08/12/2001	---	---	---	---	5	2	0	0	50	0	104
08/13/2001 *	---	---	---	---	0	2	0	0	30	0	0
08/14/2001	---	---	---	---	0	0	0	0	0	150	0
08/15/2001 *	---	---	---	---	20	0	0	0	0	0	0
08/16/2001 *	---	---	---	---	0	2	0	0	15	0	141
Total:	0	0	0	0	45	18	12	3	345	750	331
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	3	1	1	0	25	54	24
YTD	24	0	0	0	4,570	9,750	1,004	3,004	284,267	103,334	106,541

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: 08/16

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	10,431	2,670	11,984	2,234	6,819	860
TDA	302,372	9,953	102,953	14,796	41,161	3,200	71,664	10,902	25,147	10,433	16,934	2,708	6,135	1,730	6,474	1,609	2,942	516
JDA	262,221	6,181	86,553	12,157	33,812	2,643	64,079	9,949	23,023	8,113	15,922	2,287	3,374	1,210	3,139	1,245	1,517	304
MCN	258,689	6,683	64,647	10,836	30,645	2,566	67,894	9,600	20,544	7,152	16,193	2,237	2,915	847	1,766	565	997	186
IHR	171,173	3,026	38,807	9,489	16,921	1,647	15,169	2,379	4,241	3,179	4,326	762	106	19	35	7	28	3
LMN	180,787	1,784	35,520	10,336	15,613	1,755	19,264	1,596	4,680	3,277	4,108	777	43	55	25	25	16	5
LGS	174,823	2,990	34,330	10,152	14,769	1,744	15,927	2,785	4,204	3,788	3,944	847	4	10	8	5	3	1
LWG	171,958	3,136	33,822	10,318	13,830	1,676	13,733	3,804	3,933	3,752	4,102	856	0	0	0	0	0	0
PRD	50,379	987	20,098	1,092	9,843	292	53,170	3,207	22,306	2,504	14,742	806	888	115	330	55	189	28
RIS	39,785	1,761	14,850	1,558	7,292	362	47,271	12,308	19,721	11,709	12,119	2,006	0	0	0	0	0	0
RRH	15,895	543	5,336	392	1,847	90	36,618	4,991	13,827	3,885	5,848	754	0	0	0	0	0	0
WEL	9,994	877	2,130	457	869	97	28,955	3,674	5,777	2,857	3,051	546	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			
	2001		2000		10-Yr Avg.		10-Yr Avg.			10-Yr Avg.			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2001	2000	Avg.	2001	2000	Avg.	2001
BON	486	90	209	83	60	20	115,022	93,397	46,469	379,260	149,129	108,412	114,624
TDA	1	0	29	14	5	1	102,564	73,359	36,170	172,325	57,522	39,485	66,676
JDA	75	4	3	0	1	0	108,048	88,337	38,874	94,220	38,944	27,016	36,289
MCN	3	0	0	0	0	0	97,153	60,240	37,131	89,408	26,815	21,052	33,181
IHR	0	0	0	0	0	0	26	215	29	40,938	12,783	10,885	10,916
LMN	0	0	0	0	0	0	32	291	36	36,913	10,844	9,203	10,994
LGS	0	0	0	0	0	0	71	296	37	20,455	6,680	5,209	7,590
LWG	0	0	0	0	0	0	36	292	35	17,435	7,530	7,784	6,185
PRD	22	31	38	6	9	1	110,923	89,498	44,720	11,127	3,791	2,256	**
RIS	30	0	12	0	3	0	104,576	76,480	38,807	6,982	2,854	1,561	4,118
RRH	31	0	8	0	0	0	65,985	57,344	23,108	4,159	1,668	944	2,019
WEL	0	0	0	0	0	0	74,138	59,678	22,006	2,486	890	624	1,128

RIS, RRH are through 8/13; PRD is through 8/15. LMN is missing 8/10.

WEL is through 8/15 and is from Douglas CO PUD.

*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

		08/04/01 TO 08/17/01					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	48,795	38	1,057	45	22,571	72,506
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	47,622	38	1,054	42	22,463	71,219
	Sum of TotalProjectMortalities	1,173	0	3	3	108	1,287
LGS	Sum of NumberCollected	14,857	287	656	18	3,973	19,791
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,253	53	44	1	598	2,949
	Sum of Numbertrucked	11,286	157	586	14	2,937	14,980
	Sum of TotalProjectMortalities	429	76	14	2	89	610
LMN	Sum of NumberCollected	5,284	228	472	12	6,904	12,900
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	338	0	63	0	1,785	2,186
	Sum of Numbertrucked	4,842	187	406	11	5,077	10,523
	Sum of TotalProjectMortalities	104	41	3	1	42	191
MCN	Sum of NumberCollected	480,429	980	510	345	601	482,865
	Sum of NumberBarged	395,907	797	408	243	392	397,747
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	84,723	117	23	87	235	85,185
	Sum of TotalProjectMortalities	8,574	85	79	15	24	8,777
Total Sum of NumberCollected		549,365	1,533	2,695	420	34,049	588,062
Total Sum of NumberBarged		395,907	797	408	243	392	397,747
Total Sum of NumberBypassed		2,591	53	107	1	2,383	5,135
Total Sum of Numbertrucked		148,473	499	2,069	154	30,712	181,907
Total Sum of TotalProjectMortalities		10,280	202	99	21	263	10,865

YTD Transportation Summary

TO: 08/17/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	704,565	1,957,864	57,552	4,570	5,564,027	8,288,578
	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	50,572	6,490	1,159	219	26,340	84,780
	Sum of TotalProjectMortalities	2,947	4,397	128	15	2,203	9,690
LGS	Sum of NumberCollected	165,513	751,849	20,918	9,756	834,782	1,782,818
	Sum of NumberBarged	144,995	745,094	19,896	9,648	820,895	1,740,528
	Sum of NumberBypassed	2,253	53	44	1	598	2,949
	Sum of NumberTrucked	12,584	1,058	677	45	3,333	17,697
	Sum of TotalProjectMortalities	4,792	3,713	139	51	5,139	13,834
LMN	Sum of NumberCollected	49,156	553,355	2,374	1,004	353,973	959,862
	Sum of NumberBarged	42,822	529,615	1,868	983	343,630	918,918
	Sum of NumberBypassed	338	16,478	63	0	2,310	19,189
	Sum of NumberTrucked	5,250	5,746	438	15	5,441	16,890
	Sum of TotalProjectMortalities	746	1,516	5	6	2,592	4,865
MCN	Sum of NumberCollected	10,420,248	2,225,805	141,276	268,799	552,022	13,608,150
	Sum of NumberBarged	9,480,953	1,022,344	76,827	127,046	232,540	10,939,710
	Sum of NumberBypassed	458,819	1,162,074	57,288	136,862	303,005	2,118,048
	Sum of NumberTrucked	84,723	117	23	87	235	85,185
	Sum of TotalProjectMortalities	77,485	6,363	885	556	4,075	89,364
Total Sum of NumberCollected		11,339,482	5,488,873	222,120	284,129	7,304,804	24,639,408
Total Sum of NumberBarged		10,319,815	4,164,831	153,880	141,792	6,667,274	21,447,592
Total Sum of NumberBypassed		461,411	1,257,803	58,371	137,084	571,187	2,485,856
Total Sum of NumberTrucked		153,129	13,411	2,297	366	35,349	204,552
Total Sum of TotalProjectMortalities		85,970	15,989	1,157	628	14,009	117,753