



Fish Passage Center

Weekly Report #01 - 24

August 24, 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 continued to draft for water temperature control and flow enhancement for the main stem Snake River. The Dworshak outflow continues at an average of 10.4 kcfs.

Reservoir	Elevations (feet) August 17 – August 23
Libby	2436.13 – 2435.71
Hungry Horse	3541.58 – 3540.71
Grand Coulee	1278.60 – 1279.10
Dworshak	1536.67 – 1527.83
Brownlee	2057.69 – 2056.25

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 28% of capacity compared to 32% a week ago. The Payette River system comprised of Cascade and Deadwood reservoirs is at 46% of capacity compared to 49% 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 20% of capacity compared to 24% 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 91.4 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, 23.7 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 69.1 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 at 50 Kcfs. At The Dalles spill averaged 31.3 Kcfs (35% of total discharge) 24 hours per day over the past week, with total discharge averaging 90.3 Kcfs. Some spill occurred during daytime hours at Lower Monumental Dam as a result of double tests that were conducted at the project.

In the Mid-Columbia spill continued at Wells, Wanapum and Priest Rapids dams. Spill at Wells averaged 5.8 Kcfs over the past week. At Wanapum and Priest Rapids spill averaged 1.8 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. After last week's late season spike in collection of subyearling chinook and steelhead at the Snake River dams, the collections during the course of this week have dropped back to more typical levels. Combined total collections of subyearling chinook and steelhead ended this week near 1,000 fish for Lower Granite Dam, near 300 fish for Little Goose Dam, and around 500 fish for Lower Monumental Dam. During the past two weeks, the ratio of subyearling chinook to residualized looking steelhead has run about 1.8-to-1 at Lower Granite Dam, 2.4-to-1 at Little Goose Dam, and 1-to-2.6 at Lower Monumental Dam. Currently, sampled steelhead at these dams are being returned to the river. Few steelhead are showing up at the Columbia River dams. The weekly average subyearling chinook passage index at Rock Island Dam was up 30% this week due to a one-day index above 100 fish. Collections of subyearling chinook at McNary Dam were 31% lower than last week, and during the course of the week dropped from the 30,000 fish range to less than 4,000 fish by week's end. Collections of subyearling chinook dropped 64% at John Day Dam this week, and averaged nearly 24,000 fish for the week. Passage indices of subyearling chinook dropped 47% from last week's level at Bonneville Dam, and averaged around 13,000 fish for the week.

Adult Fish Passage: Summer chinook salmon counts are complete at all projects except for Wells Dam. The adult table of this report lists the preliminary counts of summer chinook passage for 2001, 2000, and the 10-year average. Overall, summer chinook adult 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. The jack summer chinook salmon count in 2001 at Bonneville Dam increased about 10% from the Year 2000 count but was four times greater than the 10-year average. At Ice Harbor Dam, the jack chinook count of 2,397 was 75% of the 2000 count but was still 3.1 times greater than the 10-year average. At Priest Rapids, this year's count of jack chinook was 3,207,

about 1.3 times greater than the 2000 count but was four times greater than the 10-year average; the same as the Bonneville Dam ratio (4:1)

At Bonneville Dam, counts of adult fall chinook ranged between 540 and 2,328 per day through the week ending August 23, with the cumulative count now 21,075. This compares with 41,663 for year 2000 and 17,639 for the 10-year average. This year's fall chinook counts remain low for the week, but should start increasing during the upcoming weeks. The percentage and numbers of "tule" and "bright" fall chinook will be listed on the FPC website and updated throughout this fall season (data supplied by WDFW). About 52.8% of the adult fall chinook counted at Bonneville Dam had passed The Dalles Dam and about 4,500 adult fall chinook over McNary Dam through August 23. CRITFC are sampling a portion of the fall chinook at the Bonneville Washington ladder. Preliminary results during the three sample weeks show 39% of the adult fish have been marked (ad clip). CRITFC ages the fish by reading scales taken from sampled fish. The returning adult fish are a composite of subyearling and yearling migrant fish that have spent from 1 to 5 years in the ocean. The percentage of fall chinook returns as noted by years spent in the ocean follows: jack chinook (1-ocean) – 18%; 2-ocean – 47%; 3-ocean – 26.5%; 4-ocean – 7.5%; and 5-ocean – 1%.

Steelhead passage at Bonneville Dam increased throughout the week with the counts ranging from 3,200 early in the week to nearly 10,000 later in the week. The cumulative count of steelhead is 423,071, about 2.4 and 3.3 times greater than the respective year 2000 and 10-year average counts. This season's total now surpasses the all-time record run of adult steelhead that occurred in 1986 (data from 1938-present). Returns of unclipped (mostly wild) steelhead have exceeded 123,000 to date. About 24% of the fish counted at Bonneville have arrived at McNary Dam (100,315). The steelhead passage at Ice Harbor Dam averaged about 680 per day for the week with the season total now at 45,862, about 3.2 and 3.7 times greater than the respective 2000 and 10-year average. Steelhead counts at Mid-Columbia

projects declined through the week with less than 200 per day passing Priest Rapids Dam; the season total is 12,919, about 2.8 and 4.2 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. At Lower Granite Dam, passage of adult steelhead began increasing by August 18 with the count rising from only 37 on the 17th to 1,019 by the 18th as water temperatures reduced from the previous week and subsequent adult passage increased.

Adult sockeye passage at Priest Rapids Dam through August 20 was 111,174 with about 105,000 counted at Rock Island Dam and more than 70% of these fish counted upstream at Rocky Reach and Wells dams and destined for Lake Osoyoos. The difference between the Rock Island count and upstream dams (Wells or Rocky Reach) should approximate the number of sockeye that turn off into the Wenatchee River basin (or 30-35,000 sockeye for 2001).

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 increased through this week from 6 on the 17th to 727 by the 23rd. The season total is now 2,191. With the higher predicted numbers in the lower river, the counts at Bonneville should continue to increase through the fall passage season.

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. About 300,000 subyearling spring chinook have been released 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
08/10/01	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
08/17/01	82.4	0.1	80.5	0.0	82.9	6.6	82.6	0.0	82.9	0.0	71.4	1.4	76.1	1.0
08/18/01	57.9	0.1	63.3	0.0	61.4	5.2	59.6	0.0	62.9	0.0	76.8	2.0	73.9	1.1
08/19/01	41.7	0.1	46.3	0.0	51.6	4.6	53.9	0.0	55.9	0.0	60.8	1.8	61.0	1.0
08/20/01	69.7	0.1	66.6	0.0	65.2	5.6	64.1	0.0	64.6	0.0	61.8	1.7	64.0	0.9
08/21/01	63.1	0.1	63.6	0.0	61.9	5.3	58.5	0.0	57.5	0.0	59.2	1.8	65.6	1.1
08/22/01	59.4	0.1	60.5	0.0	60.3	6.1	59.7	0.0	62.0	0.0	67.5	1.8	69.2	1.0
08/23/01	67.3	0.1	68.0	0.0	68.4	7.1	67.4	0.0	68.6	0.0	70.8	1.8	74.0	0.9

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

Date	Dworshak		Hells Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/10/01	10.6	0.0	7.1	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	6.7	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	7.8	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	8.1	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	7.7	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	7.2	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	7.0	12.8	22.1	0.0	23.0	0.0	24.2	0.0	23.7	0.0
08/17/01	10.5	0.0	7.2	12.4	26.5	0.0	26.8	0.0	27.3	0.0	27.5	0.0
08/18/01	10.3	0.0	7.1	8.9	25.7	0.0	25.9	0.0	25.8	0.0	23.8	0.0
08/19/01	10.4	0.0	7.0	7.2	23.6	0.0	23.7	0.0	25.8	0.0	23.9	0.0
08/20/01	10.2	0.0	7.4	8.9	20.8	0.0	21.4	0.0	20.4	2.9	21.0	0.0
08/21/01	10.5	0.0	7.7	9.3	22.8	0.0	22.0	0.0	21.2	3.0	20.5	0.0
08/22/01	10.5	0.0	6.7	8.3	23.3	0.0	23.5	0.0	24.0	3.3	21.9	0.0
08/23/01	10.6	0.0	---	---	23.0	0.0	24.1	0.0	23.8	0.0	26.2	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		
08/10/01	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
08/17/01	106.1	0.0	104.6	0.0	102.9	39.8	111.1	49.7	0.5	54.2
08/18/01	91.1	0.0	88.5	0.0	89.2	31.3	102.6	49.7	0.5	45.6
08/19/01	88.5	0.0	87.3	0.0	86.4	26.5	98.3	49.7	0.5	41.4
08/20/01	82.0	0.0	84.5	0.0	90.1	31.8	103.4	49.6	0.5	46.6
08/21/01	90.6	0.0	86.7	0.0	83.0	28.4	94.0	49.4	0.6	37.3
08/22/01	88.1	0.0	93.7	0.0	97.3	34.8	103.2	49.6	0.6	46.3
08/23/01	93.2	0.0	89.2	0.0	83.4	26.4	96.8	49.7	0.6	39.8

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													
	08/16/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/20/01	Subyearling Chinook	98	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/20/01	Yearling Chinook	2	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/23/01	Subyearling Chinook	100	2	0	0.00%	0.00%	0	0	0	0	2	1
Bonneville Dam													
	08/16/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/21/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/23/01	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	08/16/01	Subyearling Chinook	30	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/20/01	Subyearling Chinook	18	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/23/01	Subyearling Chinook	37	0	0	0.00%	0.00%	0	0	0	0	0	0

HATCHERY RELEASE SUMMARY NEXT TWO WEEKS

Hatchery Release Summary

From: **8/24/01** to **9/6/01**

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						
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High		hr			
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	103	24	104	104	107	24	106	106	106	23
8/17	103	104	105	24	105	106	107	24	103	103	103	24	103	104	106	24	105	106	106	24
8/18	104	104	105	23	105	106	107	23	103	103	103	23	103	104	107	23	104	105	105	23
8/19	104	104	105	24	105	105	106	24	102	103	103	24	103	104	107	20	104	105	105	23
8/20	103	104	105	24	105	106	107	24	103	103	104	24	103	104	106	21	105	105	105	23
8/21	103	103	104	23	106	106	107	17	103	103	108	24	103	104	107	24	104	105	107	23
8/22	103	103	104	24	---	---	---	0	103	103	103	24	103	103	107	24	104	104	104	23
8/23	102	103	103	23	---	---	---	0	102	102	102	24	102	102	102	20	104	104	104	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			
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
8/17	105	105	106	24	107	108	109	23	108	108	109	23	106	107	108	15	108	108	108	13
8/18	104	105	106	23	105	105	105	23	106	107	107	23	106	106	106	15	108	108	108	14
8/19	103	104	104	23	104	104	105	23	105	106	107	23	106	106	106	16	108	108	108	13
8/20	103	104	105	23	104	104	105	23	106	107	107	23	106	106	107	16	109	109	109	13
8/21	104	104	107	23	104	104	105	24	106	107	107	24	106	106	107	15	109	109	109	14
8/22	103	104	105	23	103	104	104	21	105	106	107	21	106	106	107	14	109	109	109	13
8/23	102	104	104	23	103	103	104	21	105	106	107	21	106	106	107	12	108	108	109	10

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			
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	110	111	112	24	109	109	110	24	109	110	110	15
8/14	109	109	110	24	111	111	112	23	111	112	114	24	110	110	111	24	110	110	112	24
8/15	109	109	109	24	111	111	111	24	110	111	113	24	109	110	111	24	111	111	112	24
8/16	108	108	109	13	111	111	111	13	110	111	114	24	110	110	111	24	111	112	112	24
8/17	108	108	108	14	110	110	111	14	107	108	109	24	107	108	109	24	110	110	111	24
8/18	108	108	108	13	110	110	110	13	105	105	106	24	105	106	106	24	107	107	108	24
8/19	108	108	108	18	110	110	110	18	104	105	105	24	104	104	105	24	105	106	106	24
8/20	108	108	109	17	110	110	111	17	106	107	108	24	105	106	106	24	106	107	109	24
8/21	108	108	109	20	110	111	111	19	106	106	107	24	105	105	106	24	105	106	107	24
8/22	108	108	108	17	110	110	111	17	106	106	106	24	105	105	106	24	105	106	106	24
8/23	108	108	108	15	110	110	110	14	---	---	---	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	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					
8/10	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	108	108	108	24	104	105	105	24	98	99	99	24	100	101	102	24	101	103	105	24
8/14	108	109	110	24	105	106	106	24	99	99	100	24	101	102	103	24	102	104	106	24
8/15	109	110	110	24	105	106	106	24	99	99	99	24	101	102	103	24	102	104	106	24
8/16	109	110	111	24	106	107	107	24	98	99	99	24	101	102	103	24	102	104	106	24
8/17	108	109	110	24	106	107	108	24	98	99	99	24	---	---	---	0	102	104	105	24
8/18	106	106	107	24	105	105	106	24	98	99	99	23	---	---	---	0	102	103	105	23
8/19	104	105	105	24	103	103	104	24	98	99	99	23	100	101	102	23	102	103	105	24
8/20	104	105	106	24	103	104	105	24	99	99	99	24	100	101	103	24	102	104	106	24
8/21	104	105	105	24	103	103	104	24	99	99	100	24	100	101	102	24	102	103	105	24
8/22	104	104	105	24	101	102	102	24	98	99	99	23	100	101	101	23	102	103	105	23
8/23	---	---	---	0	100	101	101	24	98	98	99	24	99	100	101	24	101	102	103	24

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	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					
8/10	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
8/17	109	109	109	24	108	109	110	21	100	101	101	21	102	103	108	23	99	99	100	23
8/18	109	109	109	23	102	103	104	24	100	100	100	24	98	98	99	23	98	98	98	23
8/19	109	109	109	23	103	104	104	23	100	100	101	23	99	100	101	23	98	98	99	23
8/20	107	109	109	24	103	104	105	22	100	101	102	22	102	103	105	24	100	101	102	24
8/21	102	104	106	24	103	103	104	23	100	101	101	23	99	100	101	23	99	100	106	22
8/22	102	103	105	23	103	103	105	22	100	100	102	22	100	100	101	23	98	99	99	23
8/23	101	103	104	24	101	101	102	23	99	99	99	23	99	100	100	24	98	98	99	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	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
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
8/17	100	100	101	24	99	100	101	24	98	99	101	24	99	100	101	24	107	108	109	24
8/18	100	101	102	24	99	100	100	24	99	100	101	23	99	101	101	23	104	105	105	24
8/19	101	102	104	24	99	100	100	24	101	102	103	23	100	101	102	23	104	104	106	24
8/20	104	105	106	24	107	114	117	24	102	103	105	23	102	103	105	23	104	104	107	24
8/21	100	101	104	24	106	112	116	24	100	101	102	24	101	102	103	24	104	105	106	24
8/22	101	102	103	24	110	117	124	24	102	103	105	24	101	102	103	24	103	104	104	24
8/23	101	101	102	22	111	121	127	22	101	102	104	24	100	101	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

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				
8/10	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
8/17	104	104	105	24	103	103	103	24	99	99	99	24	99	99	99	24	99	99	99	24
8/18	103	104	104	24	102	103	104	24	98	98	99	24	100	100	100	24	98	98	99	24
8/19	103	103	104	24	102	103	104	24	97	97	98	23	100	100	100	24	98	99	99	23
8/20	104	105	106	24	102	103	103	24	98	98	98	23	100	100	101	24	99	99	100	23
8/21	102	103	104	24	102	102	103	24	97	97	97	23	100	100	100	24	99	99	99	23
8/22	103	104	104	24	102	103	103	24	98	98	99	23	99	99	100	24	98	98	99	23
8/23	103	103	105	24	102	102	102	24	96	97	98	23	98	99	100	24	98	98	98	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				
8/10	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
8/17	110	111	111	24	101	101	101	24	111	111	111	24	107	108	109	24	106	107	108	24
8/18	109	110	110	24	100	101	101	24	111	111	111	24	107	108	108	24	106	106	107	24
8/19	109	110	110	23	100	101	101	23	112	112	112	23	108	109	110	23	107	108	109	24
8/20	109	110	110	24	101	101	102	23	111	112	112	23	107	108	108	23	108	108	109	24
8/21	109	110	110	24	101	101	102	23	112	112	113	23	108	109	110	23	107	108	108	24
8/22	110	110	110	24	102	102	103	23	112	113	113	23	108	109	109	23	107	108	108	23
8/23	109	110	110	24	102	102	102	23	112	113	114	23	108	109	110	23	107	107	108	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)
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
08/17/2001	---	---	---	---	20	0	5	0	0	0	0
08/18/2001	---	---	---	---	10	2	4	0	0	300	0
08/19/2001	---	---	---	---	10	12	4	0	0	150	0
08/20/2001	---	---	---	---	0	27	6	0	0	300	0
08/21/2001	---	---	---	---	0	3	2	0	22	300	0
08/22/2001	---	---	---	---	4	4	8	0	0	300	0
08/23/2001 *	---	---	---	---	0	0	4	0	10	150	52
Total:	0	0	0	0	78	313	93	0	232	2,850	686
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	6	22	7	0	17	204	49
YTD	12,660	26,732	9,049	527	1,957,908	749,729	553,388	6,575	2,299,066	1,004,431	1,687,681

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)
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
08/17/2001	---	---	---	---	3,140	955	170	54	31,750	30,900	18,924
08/18/2001	---	---	---	---	2,670	779	171	107	33,650	24,900	18,252
08/19/2001	---	---	---	---	1,600	559	185	41	13,350	28,950	20,705
08/20/2001	---	---	---	---	1,080	575	245	30	8,160	15,600	11,965
08/21/2001	---	---	---	---	1,008	716	173	68	5,478	15,500	8,826
08/22/2001	---	---	---	---	752	547	207	28	4,395	28,100	7,767
08/23/2001 *	---	---	---	---	676	194	224	47	3,610	22,350	6,221
Total:	0	0	0	0	51,161	12,367	3,019	663	245,693	628,000	265,891
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	3,654	883	216	47	17,550	44,857	18,992
YTD	1	1	13	31	715,491	168,907	50,531	22,415	10,567,844	2,601,554	2,842,298

*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)
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
08/17/2001	---	---	---	---	80	33	19	3	0	1,050	0
08/18/2001	---	---	---	---	40	23	22	5	0	300	0
08/19/2001	---	---	---	---	40	34	12	1	0	300	0
08/20/2001	---	---	---	---	60	46	21	0	0	300	106
08/21/2001	---	---	---	---	28	66	30	2	0	900	0
08/22/2001	---	---	---	---	32	60	54	9	0	100	0
08/23/2001 *	---	---	---	---	48	21	32	1	0	0	52
Total:	0	0	0	0	1,177	615	398	36	80	14,650	745
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	84	44	28	3	6	1,046	53
YTD	0	0	0	6	57,880	21,189	2,564	45,421	146,933	80,013	2,163,579

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)
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
08/17/2001	---	---	---	---	3,580	692	712	2	50	0	0
08/18/2001	---	---	---	---	2,510	418	558	0	0	150	0
08/19/2001	---	---	---	---	1,050	287	162	2	100	0	0
08/20/2001	---	---	---	---	680	147	193	0	0	0	106
08/21/2001	---	---	---	---	700	143	284	0	0	0	0
08/22/2001	---	---	---	---	532	199	358	1	0	0	0
08/23/2001 *	---	---	---	---	320	91	306	0	0	0	0
Total:	0	0	0	0	29,027	5,201	7,841	10	395	1,050	522
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	2,073	372	560	1	28	75	37
YTD	4,567	34,103	4,357	5,399	5,573,399	835,226	356,546	17,842	561,694	190,339	489,169

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)
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
08/17/2001	---	---	---	---	0	1	0	0	50	0	0
08/18/2001	---	---	---	---	0	0	3	1	0	0	0
08/19/2001	---	---	---	---	0	4	2	0	0	0	112
08/20/2001	---	---	---	---	0	1	0	0	0	0	0
08/21/2001	---	---	---	---	0	3	0	0	0	100	0
08/22/2001	---	---	---	---	0	11	0	0	0	0	0
08/23/2001 *	---	---	---	---	4	1	0	0	0	0	0
Total:	0	0	0	0	29	31	9	2	145	400	357
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	2	2	1	0	10	29	26
YTD	24	0	0	0	4,574	9,770	1,009	3,005	284,317	103,434	106,653

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: 08/23

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	14,723	30,616	13,554	21,085	3,689	21,075	4,947	41,663	4,544	17,639	1,611
TDA	302,372	9,953	102,953	14,796	41,161	3,200	71,462	10,926	25,147	10,433	16,934	2,708	11,117	2,426	23,721	2,748	8,031	932
JDA	262,221	6,181	86,553	12,157	33,812	2,643	64,186	10,049	23,023	8,113	15,922	2,287	4,963	1,730	14,170	2,442	4,341	591
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	4,532	1,378	6,547	1,114	2,750	392
IHR	171,173	3,026	38,807	9,489	16,921	1,647	15,278	2,397	4,241	3,179	4,326	762	285	48	357	36	119	11
LMN	180,787	1,784	35,520	10,336	15,613	1,755	19,287	1,612	4,680	3,277	4,108	777	275	174	175	88	72	16
LGS	174,823	2,990	34,330	10,152	14,769	1,744	15,927	2,785	4,204	3,788	3,944	847	261	77	90	55	40	9
LWG	171,958	3,136	33,822	10,318	13,830	1,676	13,737	3,804	3,939	3,756	4,106	857	140	67	40	37	29	6
PRD	51,133	987	20,098	1,092	9,843	292	53,846	3,207	22,306	2,504	14,742	806	2,678	560	1,851	329	977	133
RIS	39,785	1,761	14,850	1,558	7,292	362	48,844	13,086	20,251	12,056	12,475	2,102	582	330	649	381	440	127
RRH	15,895	543	5,336	392	1,847	90	39,174	5,548	14,633	4,198	6,239	868	0	0	389	201	262	110
WEL	9,994	887	2,130	457	869	97	31,184	4,186	6,111	3,306	3,277	625	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	2,191	301	2,626	488	370	74	114,928	93,397	46,477	423,071	177,008	129,205	123,335
TDA	32	4	384	111	43	12	102,707	73,378	36,179	187,161	74,229	47,853	69,302
JDA	107	4	126	8	14	1	107,791	88,349	38,882	101,554	51,433	32,336	37,730
MCN	12	10	12	0	3	1	97,159	60,240	37,140	100,315	31,646	24,422	36,390
IHR	4	0	0	0	0	0	27	215	29	45,862	14,138	12,525	11,823
LMN	0	0	0	0	0	0	32	291	37	45,689	11,759	10,560	13,105
LGS	0	0	0	0	0	0	71	296	38	26,372	7,507	6,067	9,349
LWG	0	0	0	0	0	0	36	294	36	22,156	8,390	8,565	7,733
PRD	25	34	39	6	9	1	111,197	89,535	44,779	12,919	4,230	2,856	**
RIS	30	0	12	0	3	0	104,711	76,505	39,080	9,661	3,676	2,259	5,825
RRH	32	0	8	0	0	0	66,114	57,395	23,287	6,099	2,280	1,433	3,056
WEL	0	0	0	0	0	0	74,309	59,805	22,205	3,995	1,227	829	1,803

RIS, RRH are through 8/19. PRD is through 8/22 and is from Grant CO PUD.

WEL is through 8/21 and is from Douglas CO PUD. TDA is missing 8/22.

**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

		08/11/01 TO 08/24/01					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	51,161	78	1,177	29	29,027	81,472
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	963	963
	Sum of Numbertrucked	50,609	78	1,153	31	28,065	79,936
	Sum of TotalProjectMortalities	1,260	0	5	2	132	1,399
LGS	Sum of NumberCollected	12,367	313	615	31	5,201	18,527
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	2,253	53	44	1	1,838	4,189
	Sum of Numbertrucked	9,926	199	592	27	3,360	14,104
	Sum of TotalProjectMortalities	496	61	21	3	126	707
LMN	Sum of NumberCollected	2,931	91	382	9	7,706	11,119
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	338	0	221	0	3,836	4,395
	Sum of Numbertrucked	2,615	87	186	9	4,286	7,183
	Sum of TotalProjectMortalities	67	17	1	1	38	124
MCN	Sum of NumberCollected	245,693	232	80	145	395	246,545
	Sum of NumberBarged	57,951	47	44	0	0	58,042
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	179,978	136	23	137	378	180,652
	Sum of TotalProjectMortalities	4,192	39	13	8	17	4,269
Total Sum of NumberCollected		312,152	714	2,254	214	42,329	357,663
Total Sum of NumberBarged		57,951	47	44	0	0	58,042
Total Sum of NumberBypassed		2,591	53	265	1	6,637	9,547
Total Sum of Numbertrucked		243,128	500	1,954	204	36,089	281,875
Total Sum of TotalProjectMortalities		6,015	117	40	14	313	6,499

YTD Transportation Summary

TO: 08/24/01

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	715,491	1,957,908	57,880	4,574	5,573,399	8,309,252
	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	266,237	346,633
	Sum of NumberTrucked	60,553	6,534	1,437	219	34,456	103,199
	Sum of TotalProjectMortalities	3,245	4,397	131	15	2,247	10,035
LGS	Sum of NumberCollected	169,838	751,897	21,201	9,777	836,759	1,789,472
	Sum of NumberBarged	144,995	745,094	19,896	9,648	820,895	1,740,528
	Sum of NumberBypassed	2,253	53	44	1	1,838	4,189
	Sum of NumberTrucked	17,418	1,100	938	65	4,305	23,826
	Sum of TotalProjectMortalities	5,011	3,720	155	53	5,190	14,129
LMN	Sum of NumberCollected	50,443	553,386	2,548	1,009	356,411	963,797
	Sum of NumberBarged	42,822	529,615	1,868	983	343,630	918,918
	Sum of NumberBypassed	338	16,478	221	0	4,649	21,686
	Sum of NumberTrucked	6,321	5,772	453	17	5,524	18,087
	Sum of TotalProjectMortalities	777	1,519	6	7	2,603	4,912
MCN	Sum of NumberCollected	10,520,641	2,225,837	141,276	268,849	552,172	13,708,775
	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	179,978	136	23	137	378	180,652
	Sum of TotalProjectMortalities	79,051	6,366	885	556	4,082	90,940
Total Sum of NumberCollected		11,456,413	5,489,028	222,905	284,209	7,318,741	24,771,296
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	58,529	137,084	575,729	2,490,556
Total Sum of NumberTrucked		264,270	13,542	2,851	438	44,663	325,764
Total Sum of TotalProjectMortalities		88,084	16,002	1,177	631	14,122	120,016