



Fish Passage Center

Weekly Report #01 - 30

October 26,
2001

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This will be our last weekly report for the 2001 season. We will resume publishing the report in March, 2002.

SUMMARY OF EVENTS:

Reservoir Operations: Reservoir elevation changes over the past two weeks are illustrated in the following table. Libby outflow continues at 6 Kcfs targeting a reservoir elevation 2411 feet by December 31. Releases from Hungry Horse will be maintained to provide a minimum flow at Columbia falls of 3.26 Kcfs. Albeni Falls is presently releasing near 18 Kcfs. The project is targeting an end of October lake elevation of 2054 feet and is expected to reach an elevation of 2051 feet by November 15. Grand Coulee refilled to elevation 1285 feet and is expected to continue operating at that elevation. Dworshak Reservoir has likely reached its lowest elevation for the year and is expected to slowly refill from here on.

Reservoir	Elevations (feet) October 12 – October 25
Libby	2429.06 – 2426.92
Hungry Horse	3531.19 – 3528.83
Grand Coulee	1285.40 – 1285.50
Dworshak	1515.60 – 1516.02
Brownlee	2049.91- 2056.62

The Upper Snake River, Boise River and Payette River system of reservoirs have refilled slightly. The Boise system, Anderson Ranch, Arrowrock, Lucky Peak was at 21% of capacity. The Payette River system comprised of Cascade and Deadwood reservoirs is at 38%. The Upper Snake River system comprised of Jackson Lake, Palisades, Grassy Lake, Island Park, Ririe, American Falls and Lake Walcott is at 12% of capacity compared to 9% last report.

Flows: Flows at McNary, Lower Granite, and Priest Rapids dams over the past two weeks averaged 82.2 Kcfs, 15.9 Kcfs and 66.0 Kcfs, respectively.

Smolt Monitoring Program. For the last reporting period of 2001, subyearling chinook collections at Lower Granite Dam increased again starting October 20 to levels above 200 fish per day (a magnitude not seen since October 2). Collections of subyearling chinook elsewhere during this two-week period have been higher than the previous two-week period. The most notable daily increases in subyearling chinook passage occurred at McNary Dam and Bonneville dams on October 25 following a 40% rise in flows that reached a daily average flow above 100 kcfs on October 24. On October 25, the McNary and Bonneville dams' subyearling chinook passage indices were at levels not seen since the month of September.

Adult Fish Passage – To date about 865,000 adult chinook have been counted at Bonneville Dam; 103,000 jack chinook; 629,000 steelhead; 115,000 sockeye; and 252,000 adult coho. In summary, 2001 produced the greatest overall run of salmon in several decades.

At Bonneville Dam, counts of adult fall chinook ranged between 200 and 700 per day through the past two weeks with the cumulative count of 397,141 (end date 10/25). This compares with 192,234 for year 2000 and 176,945 for the 10-year average. Note: The adult fall chinook total counted at Bonneville in 2001 surpassed the previous record high at the project; tule adult fall chinook topped 128,000 for the season with bright fall chinook comprising the remainder of the fall chinook count. Tule fall chinook are destined for Bonneville Pool tributaries and Spring Creek National Fish Hatchery, while the majority of the upriver "bright" fall chinook runs continue upstream to larger

tributaries and streams in the basin. The adult fall chinook count at The Dalles Dam was 180,400 to date with about 109,700 now past McNary Dam through October 25. The McNary Dam count will likely be the 4th highest total at that project since initiation of counting in 1954. The majority of fall chinook counted at McNary Dam generally migrates to the Hanford Reach (including Priest Rapids and Ringold hatcheries) and the Yakama River basin to complete spawning. However, this year's count of adult fall chinook at Ice Harbor (about 13,400) exceeded all counts since 1970. Jack chinook counts at the project are the highest on record since counting began in 1962. In the Mid-Columbia, numbers of adult fall chinook counted at Priest Rapids Dam, about 22,500 to date, are the highest total on record to date.

Steelhead counts at Bonneville Dam ranged from 300 to 800 per day with the cumulative count now 628,630, about 2.3 and 2.8 times greater than the respective year 2000 and 10-year average counts. The 2001 count of steelhead at Bonneville Dam far exceeded any other count year since counting was started in 1938. Unclipped (mostly wild) steelhead totaled 148,545 through October 25 and accounted for about 24% of the total run. About 62% of the fish counted at Bonneville have arrived at McNary Dam (N=389,802). Steelhead passage into the Snake River averaged more than 2,000 per day through the past two weeks with peak numbers up to 5,000 per day; most days were between 2,000-3,000. The cumulative count at Ice Harbor Dam now exceeds 246,000; about 2.1 and 2.6 times greater than the respective 2000 and 10-year average. Note: The Snake River will have record returns for adult steelhead. Steelhead counts at Priest Rapids Dam have steadily declined to nearly 50 per day through the two weeks with the season total exceeding 29,000, about 2.6 and 3.4 times greater than the respective 2000 and 10-year average. This year's count of steelhead at Priest Rapids will rank about 3rd highest on record at that site.

Coho salmon counts at Bonneville Dam ranged from 700 and 1,700 per day throughout the Report Week with 251,927 through October 25, and compares with 83,738 in year 2000 and the

10-year average count of 31,265. Note: This year's run of coho has also exceeded the previous high count of coho salmon recorded at Bonneville Dam. The former record was set in 1986. Most coho salmon that pass Bonneville Dam are destined for the Bonneville pool tributaries and hatcheries with other coho returning to the Umatilla, Yakama, Snake, and upper Columbia River basins.

Hatchery Releases.

Snake River – Releases of yearling and subyearling chinook, sockeye, and coho salmon and steelhead are completed for the 2001 migration season. Sockeye salmon were released into Pettit, Alturas, and Redfish lakes in early October. Most of these fish will reside in the lakes through the fall and winter months and will migrate from the lakes in spring 2002. Release of pre-smolt spring chinook from the Clearwater River basin, Powell, Red River, and Crooked River Acclimation Ponds, and other out-plants were released in late September. These fish will primarily migrate to the ocean in Spring 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. The final release of hatchery sockeye was completed into Lake Wenatchee on 9/27/01. The August/September releases of sockeye are expected to reside in the Lake through the fall and winter and migrate in spring 2002.

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

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
10/12/01	64.5	0.0	65.8	0.0	64.2	0.0	65.6	0.0	63.5	0.9	69.6	0.9	73.2	1.1
10/13/01	41.4	0.0	42.3	0.0	42.5	0.0	47.8	0.0	49.4	1.2	45.5	0.0	49.1	0.9
10/14/01	43.8	0.0	46.9	0.0	44.7	0.0	43.2	0.0	43.1	1.2	55.0	0.0	53.0	1.0
10/15/01	73.4	0.0	71.9	0.0	68.6	0.0	70.5	0.0	70.7	0.0	66.9	0.0	70.7	0.8
10/16/01	68.2	0.0	72.7	0.0	74.0	0.0	75.2	0.0	73.6	0.0	73.4	0.0	74.2	0.8
10/17/01	61.3	0.0	66.2	0.0	64.5	0.0	72.9	0.0	74.9	0.0	96.1	0.0	104.0	0.5
10/18/01	64.7	0.0	63.8	0.0	61.4	0.0	62.4	0.0	62.2	0.0	72.4	0.0	72.6	0.8
10/19/01	65.0	0.0	64.2	0.0	64.4	0.0	66.3	0.0	66.3	0.0	49.5	0.0	48.4	0.5
10/20/01	39.8	0.0	43.7	0.0	45.7	0.0	50.6	0.0	50.4	0.0	48.4	0.0	45.1	0.9
10/21/01	44.9	0.0	47.2	0.0	44.5	0.0	44.5	0.0	46.3	0.0	45.1	0.0	44.3	0.9
10/22/01	64.3	0.0	65.8	0.0	62.9	0.0	64.3	0.0	65.0	0.0	71.5	0.0	74.0	0.8
10/23/01	62.5	0.0	59.7	0.0	58.5	0.0	59.1	0.0	59.8	0.0	85.4	0.0	87.4	0.9
10/24/01	66.1	0.0	69.1	0.0	66.1	0.0	71.3	0.0	73.1	0.0	62.6	0.0	66.6	0.8
10/25/01	62.8	0.0	64.6	0.0	63.7	0.0	---	---	---	---	67.4	0.0	60.7	0.8

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
10/12/01	1.4	0.0	9.9	8.2	14.3	0.0	15.0	0.0	16.0	0.0	14.8	0.0
10/13/01	1.4	0.0	10.7	8.2	15.3	0.0	14.6	0.0	15.0	0.0	13.6	0.0
10/14/01	1.4	0.0	10.7	8.2	15.7	0.0	16.0	0.0	14.9	0.0	14.6	0.0
10/15/01	1.4	0.0	10.8	8.2	16.6	0.0	17.7	0.0	19.1	0.0	19.8	0.0
10/16/01	1.4	0.0	10.9	8.2	18.5	0.0	18.5	0.0	18.7	0.0	17.2	0.0
10/17/01	1.4	0.0	11.7	8.2	16.1	0.0	17.2	0.0	18.6	0.0	18.3	0.0
10/18/01	1.4	0.0	11.5	8.2	15.6	0.0	15.3	0.0	15.4	0.0	15.3	0.0
10/19/01	1.4	0.0	10.8	8.2	15.1	0.0	15.0	0.0	15.0	0.0	14.7	0.0
10/20/01	1.4	0.0	11.0	8.2	14.9	0.0	15.1	0.0	15.7	0.0	16.1	0.0
10/21/01	1.4	0.0	11.4	8.2	15.6	0.0	16.4	0.0	16.6	0.0	15.9	0.0
10/22/01	1.4	0.0	10.9	8.4	15.3	0.0	16.1	0.0	17.8	0.0	17.8	0.0
10/23/01	1.5	0.0	10.6	8.5	15.8	0.0	14.7	0.0	14.6	0.0	13.3	0.0
10/24/01	1.5	0.0	10.2	8.4	16.5	0.0	16.6	0.0	17.3	0.0	17.1	0.0
10/25/01	1.4	0.0	---	---	17.8	0.0	18.3	0.0	18.4	0.0	17.0	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		
10/12/01	77.2	0.0	79.5	0.0	82.9	0.0	87.2	2.3	0.0	78.5
10/13/01	72.3	0.0	62.8	0.0	63.7	0.0	76.1	2.3	0.0	67.4
10/14/01	63.5	0.0	64.3	0.0	66.0	0.0	79.7	2.3	0.0	71.0
10/15/01	87.5	0.0	91.6	0.0	97.1	0.0	103.4	2.3	0.0	94.7
10/16/01	85.0	0.0	83.8	0.0	83.4	0.0	95.7	2.3	0.0	87.0
10/17/01	113.6	0.0	112.9	0.0	112.6	0.0	119.0	2.3	6.1	104.2
10/18/01	102.6	0.0	109.6	0.0	110.9	0.0	117.3	2.3	3.2	105.5
10/19/01	77.7	0.0	80.2	0.0	82.9	0.0	94.5	2.3	0.0	85.8
10/20/01	62.3	0.0	67.9	0.0	73.6	0.0	80.2	2.3	0.0	71.5
10/21/01	62.1	0.0	68.3	0.0	72.9	0.0	75.2	2.3	0.0	66.5
10/22/01	70.5	0.0	76.0	0.0	77.1	0.0	76.3	2.3	0.0	67.6
10/23/01	99.1	0.0	81.7	0.0	85.6	0.0	79.6	2.3	0.0	70.9
10/24/01	101.7	0.0	107.0	0.0	107.9	0.0	107.0	2.3	0.0	98.3
10/25/01	76.1	0.0	77.2	0.0	80.7	0.0	88.4	2.3	0.0	79.7

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>							
	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#				
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
10/12	---	---	---	0	99	100	100	24	99	99	99	24	97	98	101	23	98	99	99	23
10/13	---	---	---	0	99	99	99	24	99	99	99	24	97	99	101	24	98	98	98	23
10/14	---	---	---	0	99	99	99	24	98	99	99	24	97	98	100	24	97	98	98	23
10/15	---	---	---	0	98	99	100	24	98	98	98	24	96	97	99	22	97	97	97	23
10/16	---	---	---	0	99	99	100	24	99	99	99	24	97	98	99	24	98	98	99	23
10/17	---	---	---	0	99	100	105	24	99	99	109	24	97	97	104	24	97	97	97	23
10/18	---	---	---	0	99	99	100	24	98	98	98	24	96	97	99	24	97	98	98	23
10/19	---	---	---	0	99	100	100	24	98	98	99	24	97	97	99	24	98	98	98	23
10/20	---	---	---	0	99	99	100	24	98	98	98	24	97	98	100	24	97	97	98	23
10/21	---	---	---	0	100	100	100	24	98	99	99	24	98	98	101	24	97	98	98	23
10/22	---	---	---	0	101	101	102	24	99	99	100	24	97	98	99	24	98	99	99	23
10/23	---	---	---	0	100	101	101	24	99	99	100	24	97	98	101	24	98	98	99	23
10/24	---	---	---	0	99	99	99	24	97	97	97	24	96	97	99	24	97	97	97	23
10/25	---	---	---	0	99	99	99	24	96	97	97	23	96	96	100	17	96	96	97	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#				
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
10/12	99	100	102	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/13	99	100	100	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/14	99	99	100	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/15	98	99	100	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/16	99	99	100	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/17	99	99	101	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/18	98	99	100	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/19	98	99	100	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/20	99	100	101	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/21	99	100	101	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/22	99	100	101	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/23	99	100	101	20	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/24	98	99	100	22	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/25	97	98	98	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>							
	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#	<u>24 h</u>		<u>12 h</u>	#				
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
10/12	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/13	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/14	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/15	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/16	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/17	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/19	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/20	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/22	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
10/12	---	---	---	0	98	99	100	24	103	104	105	24	---	---	---	0	---	---	---	0
10/13	---	---	---	0	99	100	100	24	104	105	106	24	---	---	---	0	---	---	---	0
10/14	---	---	---	0	99	99	100	24	104	104	105	24	---	---	---	0	---	---	---	0
10/15	---	---	---	0	99	99	99	13	104	104	105	24	---	---	---	0	---	---	---	0
10/16	---	---	---	0	100	100	101	19	104	105	106	24	---	---	---	0	---	---	---	0
10/17	---	---	---	0	98	99	100	24	103	104	105	24	---	---	---	0	---	---	---	0
10/18	---	---	---	0	98	99	100	24	103	104	105	24	---	---	---	0	---	---	---	0
10/19	---	---	---	0	99	100	101	24	104	105	105	24	---	---	---	0	---	---	---	0
10/20	---	---	---	0	99	100	100	24	104	105	105	24	---	---	---	0	---	---	---	0
10/21	---	---	---	0	99	100	100	24	104	105	106	24	---	---	---	0	---	---	---	0
10/22	---	---	---	0	99	100	100	24	105	105	105	24	---	---	---	0	---	---	---	0
10/23	---	---	---	0	98	98	99	24	105	105	108	24	---	---	---	0	---	---	---	0
10/24	---	---	---	0	97	98	99	24	105	105	106	24	---	---	---	0	---	---	---	0
10/25	---	---	---	0	98	99	99	24	104	104	105	24	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
10/12	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/13	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/14	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/15	---	---	---	0	---	---	---	0	95	95	95	1	---	---	---	0	---	---	---	0
10/16	---	---	---	0	96	96	96	4	95	95	96	9	---	---	---	0	---	---	---	0
10/17	---	---	---	0	---	---	---	0	95	95	95	1	---	---	---	0	---	---	---	0
10/18	---	---	---	0	---	---	---	0	96	96	96	9	---	---	---	0	---	---	---	0
10/19	---	---	---	0	95	95	95	9	96	96	97	24	---	---	---	0	---	---	---	0
10/20	---	---	---	0	97	97	98	11	96	97	97	24	---	---	---	0	---	---	---	0
10/21	---	---	---	0	96	96	97	22	97	97	97	24	---	---	---	0	---	---	---	0
10/22	---	---	---	0	96	96	97	17	97	97	98	24	---	---	---	0	---	---	---	0
10/23	---	---	---	0	95	96	96	19	96	97	97	24	---	---	---	0	---	---	---	0
10/24	---	---	---	0	---	---	---	0	96	96	97	24	---	---	---	0	---	---	---	0
10/25	---	---	---	0	95	95	95	8	95	96	96	24	---	---	---	0	---	---	---	0

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

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>			#				
	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High	#	<u>24 h</u>	<u>12 h</u>	High		#			
	Avg	Avg			Avg	Avg			Avg	Avg			Avg	Avg						
10/12	---	---	---	0	---	---	---	0	96	96	96	13	99	101	106	24	97	98	98	24
10/13	---	---	---	0	---	---	---	0	95	95	95	20	99	100	102	24	98	98	98	24
10/14	---	---	---	0	---	---	---	0	95	95	96	18	98	99	99	24	98	99	99	24
10/15	---	---	---	0	---	---	---	0	95	95	96	13	98	99	100	24	98	99	99	24
10/16	---	---	---	0	---	---	---	0	95	96	96	19	99	100	102	24	99	100	101	24
10/17	---	---	---	0	---	---	---	0	---	---	---	0	97	97	98	24	98	99	100	24
10/18	---	---	---	0	---	---	---	0	95	95	95	9	97	98	100	24	98	99	101	24
10/19	---	---	---	0	---	---	---	0	95	96	96	24	98	98	99	24	99	100	100	24
10/20	---	---	---	0	---	---	---	0	96	96	97	24	98	99	99	24	100	101	101	24
10/21	---	---	---	0	---	---	---	0	96	96	97	24	98	99	99	24	99	99	100	24
10/22	---	---	---	0	---	---	---	0	97	97	98	24	99	101	104	24	99	99	99	24
10/23	---	---	---	0	---	---	---	0	96	97	97	24	100	102	107	24	98	98	99	24
10/24	---	---	---	0	---	---	---	0	95	95	95	17	97	97	98	24	97	97	98	24
10/25	---	---	---	0	---	---	---	0	95	95	96	24	97	98	99	24	98	99	99	24

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>				#			
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg		High		
10/12	97	98	99	24	97	98	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/13	98	98	98	24	98	98	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/14	98	98	98	24	98	98	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/15	98	99	99	24	98	98	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/16	99	99	99	24	98	99	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/17	97	98	98	24	98	98	98	24	---	---	---	0	---	---	---	0	---	---	---	0
10/18	98	99	99	24	98	98	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/19	99	99	99	24	98	99	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/20	99	99	100	24	99	99	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/21	99	99	99	24	99	99	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/22	99	100	100	24	99	99	100	24	---	---	---	0	---	---	---	0	---	---	---	0
10/23	98	99	99	24	98	98	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/24	97	97	98	24	97	97	98	24	---	---	---	0	---	---	---	0	---	---	---	0
10/25	97	97	98	24	97	97	98	24	---	---	---	0	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Skamania</u>			<u>Camas\Washugal</u>				#			
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg		High		
10/12	---	---	---	0	98	98	98	23	99	99	100	23	---	---	---	0	---	---	---	0
10/13	---	---	---	0	98	98	99	23	99	100	100	23	---	---	---	0	---	---	---	0
10/14	---	---	---	0	99	99	99	8	100	100	100	8	---	---	---	0	---	---	---	0
10/15	---	---	---	0	99	99	100	23	100	100	101	23	---	---	---	0	---	---	---	0
10/16	---	---	---	0	99	99	100	23	100	100	101	23	---	---	---	0	---	---	---	0
10/17	---	---	---	0	98	99	99	23	99	99	100	23	---	---	---	0	---	---	---	0
10/18	---	---	---	0	99	99	99	23	100	100	100	23	---	---	---	0	---	---	---	0
10/19	---	---	---	0	99	99	100	23	100	100	101	23	---	---	---	0	---	---	---	0
10/20	---	---	---	0	99	100	100	23	100	100	101	23	---	---	---	0	---	---	---	0
10/21	---	---	---	0	99	99	100	23	100	100	100	23	---	---	---	0	---	---	---	0
10/22	---	---	---	0	99	100	100	23	100	101	101	23	---	---	---	0	---	---	---	0
10/23	---	---	---	0	98	99	99	23	99	99	100	23	---	---	---	0	---	---	---	0
10/24	---	---	---	0	98	98	99	23	99	99	100	23	---	---	---	0	---	---	---	0
10/25	---	---	---	0	99	99	99	23	100	101	101	23	---	---	---	0	---	---	---	0

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)
10/12/2001	---	---	---	---	0	0	0	---	4	---	4
10/13/2001	---	---	---	---	0	0	0	---	0	---	0
10/14/2001	---	---	---	---	0	0	0	---	0	---	0
10/15/2001	---	---	---	---	0	0	0	---	0	---	0
10/16/2001	---	---	---	---	0	0	1	---	0	---	0
10/17/2001	---	---	---	---	0	0	0	---	0	---	0
10/18/2001	---	---	---	---	0	0	0	---	0	---	7
10/19/2001	---	---	---	---	0	0	0	---	0	---	0
10/20/2001	---	---	---	---	2	0	0	---	10	---	0
10/21/2001	---	---	---	---	4	0	1	---	0	---	0
10/22/2001	---	---	---	---	17	0	0	---	0	---	0
10/23/2001	---	---	---	---	10	0	0	---	0	---	0
10/24/2001	---	---	---	---	10	0	0	---	6	---	0
10/25/2001	---	---	---	---	14	0	0	---	6	---	0
Total:	0	0	0	0	57	0	2	0	26	0	11
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	4	0	0	0	2	0	1
YTD	12,660	26,732	9,049	527	1,958,024	749,737	553,435	6,575	2,299,328	1,006,078	1,687,845

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)
10/12/2001	---	---	---	---	59	44	33	---	300	---	411
10/13/2001	---	---	---	---	84	100	32	---	320	---	239
10/14/2001	---	---	---	---	89	86	17	---	256	---	265
10/15/2001	---	---	---	---	81	60	22	---	308	---	392
10/16/2001	---	---	---	---	125	52	25	---	428	---	500
10/17/2001	---	---	---	---	139	94	18	---	344	---	406
10/18/2001	---	---	---	---	150	73	22	---	352	---	578
10/19/2001	---	---	---	---	90	73	9	---	420	---	466
10/20/2001	---	---	---	---	224	44	24	---	240	---	284
10/21/2001	---	---	---	---	244	43	23	---	120	---	204
10/22/2001	---	---	---	---	286	56	43	---	252	---	124
10/23/2001	---	---	---	---	224	63	50	---	288	---	198
10/24/2001	---	---	---	---	315	105	53	---	678	---	355
10/25/2001	---	---	---	---	240	97	14	---	1,056	---	602
Total:	0	0	0	0	2,350	990	385	0	5,362	0	5,024
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	168	71	28	0	383	0	359
YTD	1	1	13	31	734,932	177,146	53,378	22,638	10,732,314	2,849,766	2,939,235

*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)
10/12/2001	---	---	---	---	0	2	0	---	0	---	4
10/13/2001	---	---	---	---	2	0	0	---	0	---	0
10/14/2001	---	---	---	---	1	0	1	---	0	---	0
10/15/2001	---	---	---	---	0	0	0	---	0	---	0
10/16/2001	---	---	---	---	0	1	0	---	0	---	4
10/17/2001	---	---	---	---	0	1	1	---	0	---	6
10/18/2001	---	---	---	---	2	0	0	---	0	---	13
10/19/2001	---	---	---	---	1	0	0	---	0	---	18
10/20/2001	---	---	---	---	0	1	0	---	0	---	56
10/21/2001	---	---	---	---	0	0	0	---	0	---	12
10/22/2001	---	---	---	---	1	1	0	---	0	---	0
10/23/2001	---	---	---	---	1	0	0	---	0	---	29
10/24/2001	---	---	---	---	1	0	0	---	0	---	58
10/25/2001	---	---	---	---	1	0	0	---	0	---	20
Total:	0	0	0	0	10	6	2	0	0	0	220
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	1	0	0	0	0	0	16
YTD	0	0	0	6	58,272	21,819	2,690	45,428	147,027	81,644	2,163,935

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)
10/12/2001	---	---	---	---	23	41	23	---	4	---	4
10/13/2001	---	---	---	---	30	71	53	---	0	---	0
10/14/2001	---	---	---	---	23	67	37	---	4	---	0
10/15/2001	---	---	---	---	58	83	43	---	12	---	8
10/16/2001	---	---	---	---	120	104	43	---	8	---	0
10/17/2001	---	---	---	---	84	96	47	---	12	---	0
10/18/2001	---	---	---	---	74	62	73	---	12	---	13
10/19/2001	---	---	---	---	43	46	23	---	10	---	6
10/20/2001	---	---	---	---	147	52	42	---	0	---	6
10/21/2001	---	---	---	---	70	67	52	---	12	---	6
10/22/2001	---	---	---	---	171	115	147	---	12	---	0
10/23/2001	---	---	---	---	60	106	66	---	6	---	4
10/24/2001	---	---	---	---	127	87	60	---	6	---	4
10/25/2001	---	---	---	---	81	48	33	---	18	---	0
Total:	0	0	0	0	1,111	1,045	742	0	116	0	51
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	79	75	53	0	8	0	4
YTD	4,567	34,103	4,357	5,399	5,579,912	839,258	360,181	17,846	562,178	191,132	489,378

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)
10/12/2001	---	---	---	---	7	1	1	---	12	---	0
10/13/2001	---	---	---	---	4	0	0	---	24	---	0
10/14/2001	---	---	---	---	5	0	0	---	8	---	0
10/15/2001	---	---	---	---	4	0	1	---	20	---	0
10/16/2001	---	---	---	---	4	0	0	---	0	---	0
10/17/2001	---	---	---	---	4	0	0	---	0	---	0
10/18/2001	---	---	---	---	2	0	0	---	12	---	7
10/19/2001	---	---	---	---	4	1	0	---	20	---	0
10/20/2001	---	---	---	---	2	0	1	---	0	---	6
10/21/2001	---	---	---	---	7	1	0	---	0	---	0
10/22/2001	---	---	---	---	6	0	0	---	0	---	0
10/23/2001	---	---	---	---	4	0	0	---	0	---	0
10/24/2001	---	---	---	---	33	0	0	---	6	---	0
10/25/2001	---	---	---	---	4	0	0	---	0	---	0
Total:	0	0	0	0	90	3	3	0	102	0	13
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	6	0	0	0	7	0	1
YTD	24	0	0	0	4,771	9,835	1,025	3,028	284,841	103,971	106,961

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: 10/25

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	397,141	73,664	192,234	55,187	176,945	31,196
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	180,403	51,317	124,579	37,698	100,992	21,616
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	124,109	41,239	102,469	36,505	78,265	17,030
MCN	258,689	6,683	64,647	10,836	30,645	2,566	67,914	9,600	20,544	7,152	16,193	2,237	109,669	36,029	67,181	20,012	65,376	16,382
IHR	171,173	3,026	38,807	9,489	16,921	1,647	15,270	2,397	4,241	3,179	4,326	762	13,381	10,078	6,431	9,703	3,999	2,491
LMN	180,787	1,784	35,520	10,336	15,613	1,755	19,287	1,612	4,680	3,277	4,108	777	13,184	8,356	5,388	9,548	2,948	2,236
LGS	174,823	2,990	34,330	10,152	14,769	1,744	15,929	2,803	4,204	3,788	3,944	847	10,358	7,127	3,473	6,500	1,852	1,353
LWG	171,958	3,136	33,822	10,318	13,830	1,676	13,735	3,804	3,939	3,756	4,106	857	8,324	8,313	3,576	6,676	1,550	1,207
PRD	50,379	987	20,098	1,092	9,843	292	53,170	3,207	22,306	2,504	14,742	806	23,131	6,324	37,559	6,244	13,923	2,399
RIS	39,785	1,761	14,850	1,558	7,292	362	48,844	13,086	20,251	12,056	12,475	2,102	10,532	5,621	8,133	2,917	4,548	1,692
RRH	15,895	543	5,336	392	1,847	90	39,174	5,548	14,633	4,198	6,239	868	8,182	3,738	4,971	1,338	2,856	1,034
WEL	9,994	877	2,130	457	869	97	33,244	4,882	6,447	3,709	3,571	703	6,093	2,437	2,003	1,193	1,093	398

DAM	Coho						Sockeye			Steelhead			
	2001		2000		10-Yr Avg.		2001		2000	10-Yr Avg.	10-Yr		Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2001	2000	Avg.	2001	2000	Avg.	2001
BON	251,927	6,511	83,738	11,160	31,265	3,773	114,934	93,398	46,485	628,630	274,682	226,178	148,545
TDA	61,005	2,141	24,860	4,500	7,467	1,221	102,562	73,383	36,197	492,515	204,504	160,634	123,493
JDA	43,342	2,225	20,356	3,364	6,075	1,061	107,869	88,372	38,896	459,299	218,434	148,958	109,612
MCN	19,631	1,603	11,023	995	2,933	404	97,188	60,242	37,157	389,802	128,537	119,509	91,887
IHR	1,025	73	885	194	109	20	28	216	31	246,357	117,551	94,316	45,132
LMN	676	131	535	160	63	17	32	291	37	245,627	110,228	84,216	44,315
LGS	387	46	278	0	40	0	74	296	42	224,925	98,755	72,879	42,203
LWG	397	60	741	31	99	5	36	299	37	218,457	104,656	74,341	41,835
PRD	6,539	837	335	37	46	4	111,320	89,547	44,813	29,120	11,162	8,549	**
RIS	5,307	0	1,600	0	170	0	104,849	76,515	39,214	27,893	10,396	7,297	15,833
RRH	704	0	510	0	57	0	66,223	57,428	23,367	21,410	8,125	5,060	10,374
WEL	186	0	0	0	16	2	74,490	59,944	22,414	17,674	6,111	3,868	8,011

PRD is through 10/24; RIS, RRH are through 10/23. WEL is through 10/23 and is from Douglas CO PUD.

JDA is missing 10/21; LGR is missing 10/22 and counts for 10/6 don't appear complete.

IHR Steelhead counts for 10/19 are incomplete.

**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.

YTD Transportation Summary

TO: 10/26/01

		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	734,229	1,958,021	58,254	4,771	5,579,597	8,334,872	
	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	270,161	350,557	
	Sum of NumberTrucked	79,414	6,645	1,844	389	36,926	125,218	
	Sum of TotalProjectMortalities	3,769	4,399	145	46	2,300	10,659	
LGS	Sum of NumberCollected	178,194	751,905	21,862	9,847	840,815	1,802,623	
	Sum of NumberBarged	144,995	745,094	19,896	9,648	820,895	1,740,528	
	Sum of NumberBypassed	2,531	53	47	1	5,845	8,477	
	Sum of NumberTrucked	25,140	1,104	1,536	115	4,342	32,237	
	Sum of TotalProjectMortalities	5,528	3,724	233	73	5,265	14,823	
LMN	Sum of NumberCollected	53,290	553,433	2,674	1,025	360,046	970,468	
	Sum of NumberBarged	42,822	529,615	1,868	983	343,630	918,918	
	Sum of NumberBypassed	338	16,478	293	0	8,252	25,361	
	Sum of NumberTrucked	9,262	5,821	506	35	5,529	21,153	
	Sum of TotalProjectMortalities	868	1,519	7	7	2,635	5,036	
MCN	Sum of NumberCollected	10,685,111	2,226,099	141,370	269,373	552,656	13,874,609	
	Sum of NumberBarged	9,728,599	1,037,644	80,195	128,948	237,330	11,212,716	
	Sum of NumberBypassed	529,460	1,181,681	60,173	139,208	310,382	2,220,904	
	Sum of NumberTrucked	346,263	402	113	650	844	348,272	
	Sum of TotalProjectMortalities	80,789	6,372	889	567	4,099	92,716	
Total Sum of NumberCollected		11,650,824	5,489,458	224,160	285,016	7,333,114	24,982,572	
Total Sum of NumberBarged		10,567,461	4,180,131	157,248	143,694	6,672,064	21,720,598	
Total Sum of NumberBypassed		532,330	1,277,410	61,489	139,430	594,640	2,605,299	
Total Sum of NumberTrucked		460,079	13,972	3,999	1,189	47,641	526,880	
Total Sum of TotalProjectMortalities		90,954	16,014	1,274	693	14,299	123,234	

Two Week Transportation Summary

		10/13/01 TO 10/26/01						
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	2,350	57	10	90	1,111	3,618	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	0	0	0	0	1,107	1,107	
	Sum of Numbertrucked	2,337	57	10	80	0	2,484	
	Sum of TotalProjectMortalities	13	0	0	10	4	27	
LGS	Sum of NumberCollected	990			6	3	1,045	2,044
	Sum of NumberBarged	0			0	0	0	0
	Sum of NumberBypassed	0			0	0	1,035	1,035
	Sum of Numbertrucked	957			6	3	0	966
	Sum of TotalProjectMortalities	33			0	0	10	43
LMN	Sum of NumberCollected	385	2	2	3	742	1,134	
	Sum of NumberBarged	0	0	0	0	0	0	
	Sum of NumberBypassed	0	0	0	0	736	736	
	Sum of Numbertrucked	383	2	2	3	0	390	
	Sum of TotalProjectMortalities	2	0	0	0	6	8	
MCN	Sum of NumberCollected	5,362	26			102	116	5,606
	Sum of NumberBarged	0	0			0	0	0
	Sum of NumberBypassed	0	0			0	0	0
	Sum of Numbertrucked	5,331	24			101	116	5,572
	Sum of TotalProjectMortalities	31	2			1	0	34
Total Sum of NumberCollected		9,087	85	18	198	3,014	12,402	
Total Sum of NumberBarged		0	0	0	0	0	0	
Total Sum of NumberBypassed		0	0	0	0	2,878	2,878	
Total Sum of Numbertrucked		9,008	83	18	187	116	9,412	
Total Sum of TotalProjectMortalities		79	2	0	11	20	112	

