



Fish Passage Center

Weekly Report #03 - 28

October 03, 2003

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NOTE: This is the last issue of the Weekly report. The next issue will be on October 17 and will be BiWeekly through October and into November.

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied over the first three weeks of September ranging between 50% and 147% of average at the sites listed in Table 1. Through September 22nd, cumulative precipitation has ranged between 71% and 98% of average at the listed sites.

Table 1. Summary of September precipitation and cumulative October through September precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	September 1-22 2003		Cumulative October, 1 2002 to September 22, 2003	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.49	127	20.54	82
SNAKE RIVER ABOVE Ice Harbor	0.62	80	16.02	91
Columbia Above The Dalles	1.12	118	20.02	87
Kootenai	1.74	147	19.70	76
Clark Fork	0.83	94	14.95	85
Flathead	1.66	139	17.56	76
Pend Oreille/Spokane	1.27	116	27.91	90
Central Washington	0.27	83	8.80	97
SNAKE RIVER PLAIN	0.35	56	8.11	71
Salmon/Boise/ Payette	0.38	50	18.92	95
Clearwater	1.19	96	29.95	98
SW Washington Cascades/Cowlitz	1.86	82	59.04	83
Willamette Valley	1.82	116	53.29	90

Libby Reservoir is currently at an elevation of 2433.7 feet, and has drafted 0.6 feet in the last week. Outflows over the past week have been decreased from 6.0 Kcfs to a current outflow of 4.6 Kcfs. Libby is projected to be at an outflow of 4.0 kcf by Monday.

Hungry Horse Reservoir is at an elevation of 3535.2 feet and has been drafted approximately 1.0 foot over the last week. Outflows have ranged between 2.3 and 2.2 Kcfs.

Dworshak Reservoir is currently at an elevation of 1518.1 feet, and has drafted 0.7 feet in the last week. Dworshak is currently at minimum outflows.

Grand Coulee Reservoir ended October 2nd at an elevation of 1285.1 feet. Outflows over the last week have ranged between a day average of 60.3 and 92.7 Kcfs.

Brownlee Reservoir was at an elevation of 2038.2 on October 2nd, drafting 2.0 feet in the last week. Outflows at Brownlee have been fluctuating between 9.2 and 13.5 Kcfs over the week.

Smolt Monitoring: At Lower Granite Dam the average daily index for subyearling chinook ranged between 192 and 498 through October 1st. At Little Goose Dam there was a slight increase relative to last week, with an average index of 94 this week compared to 90 last week. At Lower Monumental the daily average index also increased slightly relative to last week, as sub yearling indices averaged 51 this week compared to 44 last week.

In the Lower Columbia, at McNary, the daily average index for subyearling chinook was 23 per day this week compared to 22 last week. At Bonneville Dam, the average daily index for subyearling chinook was at 72 this week compared to 100 last week.

Hatchery Releases - The preliminary total of juvenile salmonids released from Columbia River Basin hatcheries above Bonneville Dam for the 2003 migration season is an estimated 87.3 million. A few supplemental and planned releases of spring/summer chinook were completed this fall season and are primarily considered as 2004 migrants.

Adult Fish Passage - At Bonneville Dam, adult fall chinook passage decreased through the week with daily counts ranging between 3,900 and 1,800. The cumulative count through October 2 was 586,046; this total is about 124% and 254% of the respective 2002 and 10-year average. Basically, passage of Tule fall chinook is complete for the 2003 season with nearly 170,000 tallied at the Project. In addition, 5,600 Tule Jack fall chinook were counted at Bonneville Dam. Overall, 42,977 Jack fall chinook (Tule and Up-River Bright stocks) have been counted to date; this total was 116% and 134% of the respective 2002 and 10-year average counts for the 2003 season.

Upriver bright fall chinook counts past The Dalles Dam ranged from 4,600 to 1,600 for the week while upstream at McNary Dam, chinook counts ranged between 3,500 and 2,000. The cumulative count at McNary Dam was 160,471 through October 2. At Priest Rapids Dam, adult fall chinook counts ranged between 1,500 and 300 with the cumulative total being 37,803 through October 1. At Ice Harbor Dam, the high daily count for the week was 500 with the cumulative count at 18,293 through October 2nd. Adult fall chinook counts at both Priest Rapids and Ice Harbor dams exceed the 2002 and 10-year averages for the 2003 season.

Numbers of steelhead at Bonneville Dam ranged between 500 and 1,000 for the week. The cumulative count through October 2 was 346,869 and compares to 461,362 in 2002 and 269,677 for the 10-year average. The percent passage of adult steelhead counted at Bonneville Dam and upstream at The Dalles Dam is now at 69.8%; the steelhead count at The Dalles Dam through October 2 was 242,112. Steelhead continued exiting from some of the lower river tributaries and began

moving upstream to their natal streams or hatcheries. At McNary Dam, daily counts of adult steelhead ranged from 3,400 to 6,100 with the cumulative total now at 186,099. Steelhead counts up the Mid-Columbia ranged from 100-200 per day at Priest Rapids Dam with steelhead passage into the Snake River ranging from 4,000 to 5,000 per day (Ice Harbor counts). The cumulative count for Priest Rapids Dam was 16,297 through October 1st with Ice Harbor at 144,706 through October 2nd.

One additional item of interest is the number of "wild" steelhead counted at Bonneville and upstream projects has been fairly strong for the year. Greater than 108,000 steelhead were classified as "wild" using the adipose clip as the distinguishing sign for determining a hatchery/wild fish. Those with no clips have been tallied as a wild steelhead. At McNary Dam, about 54,000 unclipped steelhead have been counted to date.

At Bonneville Dam, adult coho counts were near 1,000 per day for the week with the cumulative count through October 2nd at 95,606. This total was 1.8-times greater than the 2002 count and double the 10-year average. About 29,000 of these fish have passed The Dalles Dam and will be destined for upstream sites in the Mid-Columbia area, the Yakama River basin, the Umatilla River basin and the Clearwater River basin. The majority of coho salmon returning to the Bonneville pool are destined for the Little White Salmon and Klickitat rivers.

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
09/19/03	62.2	0.1	64.9	0.0	61.9	0.0	58.0	0.0	58.4	0.0	60.2	1.5	55.2	1.1
09/20/03	55.0	0.2	53.1	0.0	53.6	0.0	54.4	0.0	54.1	0.0	59.4	1.5	61.1	1.0
09/21/03	63.5	0.1	65.3	0.0	63.3	0.0	62.7	0.0	61.6	0.0	53.9	1.5	54.0	1.0
09/22/03	76.1	0.2	77.9	0.0	78.3	0.0	79.5	0.0	79.6	0.0	87.4	1.9	81.1	1.1
09/23/03	68.0	0.2	68.3	0.0	66.8	0.0	68.6	0.0	66.2	0.0	68.9	1.8	66.2	1.0
09/24/03	75.6	0.2	76.1	0.0	74.2	0.0	69.9	0.0	69.0	0.0	74.7	1.8	74.1	1.1
09/25/03	89.8	0.2	89.5	0.0	86.5	0.0	86.6	0.0	85.3	0.0	87.0	2.0	84.1	1.1
09/26/03	80.5	0.2	90.2	0.0	88.8	0.0	88.8	0.0	87.6	0.0	94.1	1.9	92.5	1.2
09/27/03	60.3	0.2	57.4	0.0	58.0	0.0	60.2	0.0	60.7	0.0	73.2	1.7	73.3	0.9
09/28/03	59.6	0.2	60.8	0.0	56.2	0.0	56.0	0.0	54.8	0.0	57.7	1.5	57.7	1.1
09/29/03	86.4	0.2	88.5	0.0	86.0	0.0	89.1	0.0	87.3	0.0	91.7	1.7	87.1	1.0
09/30/03	92.7	0.2	89.9	0.0	86.4	0.0	87.8	0.0	86.0	0.0	83.2	1.8	82.3	1.0
10/01/03	73.8	0.0	78.7	0.0	79.8	0.0	81.4	0.0	79.2	0.0	89.0	1.5	88.6	1.1
10/02/03	65.0	0.0	67.4	0.0	66.0	0.0	70.3	0.0	69.9	0.0	79.0	1.7	77.7	1.0

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
09/19/03	1.6	0.0	10.4	15.6	19.7	0.0	20.1	0.0	21.3	0.0	18.9	0.0
09/20/03	1.6	0.0	10.2	12.8	21.9	0.0	20.9	0.0	21.3	0.0	17.7	0.0
09/21/03	1.6	0.0	9.5	13.7	18.1	0.0	18.2	0.0	19.1	0.0	18.2	0.0
09/22/03	1.6	0.0	8.8	14.2	21.4	0.0	21.8	0.0	22.3	0.0	21.9	0.0
09/23/03	1.6	0.0	10.4	16.3	21.1	0.0	20.3	0.0	21.3	0.0	20.6	0.0
09/24/03	1.6	0.0	10.3	14.8	21.9	0.0	23.8	0.0	24.8	0.0	22.3	0.0
09/25/03	1.6	0.0	10.0	15.1	19.3	0.0	19.2	0.0	21.5	0.0	20.3	0.0
09/26/03	1.9	0.0	9.4	13.7	20.5	0.0	21.5	0.0	21.5	0.0	20.7	0.0
09/27/03	1.6	0.0	9.2	9.6	19.6	0.0	21.3	0.0	24.4	0.0	25.5	0.0
09/28/03	1.6	0.0	9.2	9.3	14.7	0.0	13.7	0.0	13.9	0.0	10.6	0.0
09/29/03	1.6	0.0	9.7	11.0	15.1	0.0	13.4	0.0	14.3	0.0	13.8	0.0
09/30/03	1.6	0.0	9.2	11.6	18.1	0.0	17.3	0.0	17.1	0.0	16.1	0.0
10/01/03	1.6	0.0	10.1	13.3	16.5	0.0	16.7	0.0	16.2	0.0	16.9	0.0
10/02/03	1.6	0.0	---	---	18.2	0.0	18.4	0.0	19.3	0.0	18.5	0.0

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
09/19/03	83.8	0.0	78.0	0.0	81.9	0.0	90.0	2.6	15.8	64.9
09/20/03	71.3	0.0	70.2	0.0	76.3	0.0	81.0	2.2	16.7	55.4
09/21/03	78.1	0.0	76.1	0.0	79.3	0.0	84.3	2.4	15.9	59.4
09/22/03	98.8	0.0	101.3	0.0	106.1	0.0	105.7	2.5	16.3	79.4
09/23/03	109.4	0.0	107.9	0.0	115.8	0.0	121.7	2.4	16.9	95.7
09/24/03	94.0	0.0	96.5	0.0	100.4	0.0	107.4	2.4	2.1	96.1
09/25/03	99.2	0.0	95.9	0.0	99.7	0.0	101.2	2.5	4.9	87.2
09/26/03	103.5	0.0	102.4	0.0	109.8	0.0	116.5	2.5	9.5	97.8
09/27/03	115.5	0.0	119.9	0.0	123.3	0.0	127.3	2.5	15.5	102.4
09/28/03	68.7	0.0	57.6	0.0	70.4	0.0	102.1	2.5	3.7	89.2
09/29/03	90.7	0.0	82.9	0.0	83.7	0.0	91.2	2.4	0.0	82.0
09/30/03	102.3	0.0	101.0	0.0	104.0	0.0	100.0	2.5	4.9	85.9
10/01/03	106.8	0.0	96.2	0.0	99.8	0.0	83.2	2.3	0.0	74.1
10/02/03	108.5	0.0	111.8	0.0	117.2	0.0	121.8	2.4	7.3	105.4

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 9/19/03 to 10/2/03

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Wildlife	Clearwater Hatchery	CH1	SP	2004	80,000	09-26-03	09-26-03	Red River Acclim Pond	S Fk Clearwater R
Idaho Dept. of Fish and Wildlife Total					80,000				
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2004	75,000	10-01-03	10-01-03	Newsome Creek	S Fk Clearwater R
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2004	150,000	10-01-03	10-01-03	Lolo Creek	Clearwater Riv. M F
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2004	400,000	10-01-03	10-01-03	Meadow Creek - CLES	S Fk Clearwater R
Nez Perce Tribe Total					625,000				
Grand Total					705,000				

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	<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>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
9/19	---	---	---	0	102	102	103	24	103	103	104	24	102	102	103	24	---	---	---	0
9/20	---	---	---	0	101	102	103	24	102	103	103	24	101	102	102	24	---	---	---	0
9/21	---	---	---	0	101	102	102	24	102	102	102	24	101	102	102	24	---	---	---	0
9/22	---	---	---	0	100	101	102	15	102	103	103	24	101	102	102	24	---	---	---	0
9/23	---	---	---	0	---	---	---	0	102	102	104	24	101	101	102	24	---	---	---	0
9/24	---	---	---	0	---	---	---	0	101	101	101	24	101	101	104	24	---	---	---	0
9/25	---	---	---	0	---	---	---	0	100	101	101	24	101	101	105	24	---	---	---	0
9/26	---	---	---	0	---	---	---	0	100	100	100	24	100	101	103	24	---	---	---	0
9/27	---	---	---	0	---	---	---	0	99	99	99	24	100	101	105	24	---	---	---	0
9/28	---	---	---	0	---	---	---	0	99	99	100	24	101	102	105	24	---	---	---	0
9/29	---	---	---	0	---	---	---	0	100	101	102	24	100	101	105	24	---	---	---	0
9/30	---	---	---	0	---	---	---	0	100	101	101	24	100	100	102	24	---	---	---	0
10/1	---	---	---	0	---	---	---	0	101	101	102	24	100	101	104	24	---	---	---	0
10/2	---	---	---	0	---	---	---	0	101	101	102	24	100	101	103	24	---	---	---	0

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>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
9/19	---	---	---	0	101	101	103	12	100	100	102	12	---	---	---	0	---	---	---	0
9/20	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/22	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/26	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/27	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/2	---	---	---	0	---	---	---	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>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
9/19	---	---	---	0	---	---	---	0	101	101	101	24	101	101	102	24	100	101	101	24
9/20	---	---	---	0	---	---	---	0	100	100	100	24	100	100	101	24	100	100	100	24
9/21	---	---	---	0	---	---	---	0	100	100	100	24	100	100	100	24	100	100	100	24
9/22	---	---	---	0	---	---	---	0	101	102	103	24	101	101	102	24	100	101	103	24
9/23	---	---	---	0	---	---	---	0	102	102	104	24	102	102	102	24	101	101	102	24
9/24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/26	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/27	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/1	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/2	---	---	---	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>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
9/19	102	102	103	24	101	101	103	17	105	106	107	21	103	106	109	21	101	101	103	14
9/20	101	102	102	24	101	101	102	21	105	105	106	24	102	105	107	24	101	102	103	24
9/21	101	102	102	24	101	101	102	21	104	105	106	24	102	105	107	24	101	102	104	24
9/22	102	102	103	24	102	103	104	24	105	106	107	24	103	105	108	24	102	103	104	24
9/23	102	102	103	24	102	102	103	24	106	107	108	24	100	100	101	5	101	101	101	9
9/24	---	---	---	0	102	103	103	24	105	106	107	24	---	---	---	0	---	---	---	0
9/25	---	---	---	0	102	103	103	24	105	106	107	24	---	---	---	0	---	---	---	0
9/26	---	---	---	0	102	103	103	24	104	106	107	24	---	---	---	0	---	---	---	0
9/27	---	---	---	0	102	103	103	24	104	106	107	24	---	---	---	0	---	---	---	0
9/28	---	---	---	0	102	103	104	20	105	106	107	24	---	---	---	0	---	---	---	0
9/29	---	---	---	0	102	103	104	24	105	106	107	24	---	---	---	0	---	---	---	0
9/30	---	---	---	0	101	102	102	24	105	106	107	24	---	---	---	0	---	---	---	0
10/1	---	---	---	0	102	103	104	24	106	107	109	24	---	---	---	0	---	---	---	0
10/2	---	---	---	0	102	103	104	24	106	107	108	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>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
9/19	102	104	107	21	99	99	99	17	98	98	99	17	96	96	96	17	96	96	97	16
9/20	101	104	106	24	97	98	98	24	98	98	100	24	95	96	96	24	96	96	96	24
9/21	101	104	106	24	98	99	100	24	98	98	99	24	95	95	96	15	96	96	99	23
9/22	102	104	107	24	101	103	105	23	99	100	100	24	95	95	96	9	96	96	98	9
9/23	99	99	100	5	101	102	104	24	100	100	101	24	---	---	---	0	---	---	---	0
9/24	---	---	---	0	102	104	105	24	99	100	101	24	---	---	---	0	---	---	---	0
9/25	---	---	---	0	101	102	103	24	100	100	101	24	---	---	---	0	---	---	---	0
9/26	---	---	---	0	102	104	105	24	99	99	100	24	---	---	---	0	---	---	---	0
9/27	---	---	---	0	104	106	108	24	99	100	102	24	---	---	---	0	---	---	---	0
9/28	---	---	---	0	105	106	108	24	100	101	102	24	---	---	---	0	---	---	---	0
9/29	---	---	---	0	103	105	107	24	100	100	101	24	---	---	---	0	---	---	---	0
9/30	---	---	---	0	102	103	103	24	99	100	100	24	---	---	---	0	---	---	---	0
10/1	---	---	---	0	103	106	108	24	99	100	100	24	---	---	---	0	---	---	---	0
10/2	---	---	---	0	104	104	106	24	99	100	100	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>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>	<u>24 h</u>	<u>12 h</u>		<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
9/19	96	96	96	17	96	96	98	13	96	96	97	14	99	100	102	18	100	100	101	17
9/20	96	96	96	24	96	96	97	23	96	96	97	22	98	99	100	24	99	99	101	24
9/21	96	96	96	24	96	96	97	15	96	96	98	22	98	98	99	24	98	99	102	24
9/22	96	96	96	9	95	95	96	9	98	99	100	24	98	99	100	24	101	104	105	24
9/23	---	---	---	0	---	---	---	0	97	98	99	24	99	99	101	24	102	105	106	24
9/24	---	---	---	0	---	---	---	0	99	100	102	24	99	99	100	24	101	102	103	24
9/25	---	---	---	0	---	---	---	0	98	99	100	24	99	99	100	24	102	104	106	24
9/26	---	---	---	0	---	---	---	0	99	99	102	24	98	99	99	24	102	103	105	24
9/27	---	---	---	0	---	---	---	0	100	102	106	24	98	99	99	24	102	102	104	24
9/28	---	---	---	0	---	---	---	0	99	100	101	24	99	100	102	24	102	102	104	24
9/29	---	---	---	0	---	---	---	0	99	99	100	24	99	100	100	24	102	103	103	24
9/30	---	---	---	0	---	---	---	0	98	98	100	24	99	99	100	24	101	102	103	24
10/1	---	---	---	0	---	---	---	0	97	98	101	23	99	100	101	24	101	103	105	24
10/2	---	---	---	0	---	---	---	0	98	99	100	24	99	100	101	24	102	103	105	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		Avg	Avg		High	hr		Avg	Avg		High	hr			Avg	Avg	High	hr
9/19	101	101	102	17	99	100	100	21	---	---	---	0	---	---	---	0	---	---	---	0
9/20	99	99	100	24	99	100	100	24	---	---	---	0	---	---	---	0	---	---	---	0
9/21	100	101	103	24	99	99	100	24	---	---	---	0	---	---	---	0	---	---	---	0
9/22	101	102	104	24	100	100	101	24	---	---	---	0	---	---	---	0	---	---	---	0
9/23	101	102	104	24	100	101	101	24	---	---	---	0	---	---	---	0	---	---	---	0
9/24	103	104	105	24	100	101	102	24	---	---	---	0	---	---	---	0	---	---	---	0
9/25	101	102	103	24	100	100	101	24	---	---	---	0	---	---	---	0	---	---	---	0
9/26	103	104	106	24	100	101	102	24	---	---	---	0	---	---	---	0	---	---	---	0
9/27	103	104	104	24	101	101	102	24	---	---	---	0	---	---	---	0	---	---	---	0
9/28	103	104	105	24	101	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
9/29	103	104	105	24	101	101	102	24	---	---	---	0	---	---	---	0	---	---	---	0
9/30	102	102	104	24	101	101	101	24	---	---	---	0	---	---	---	0	---	---	---	0
10/1	102	102	103	24	101	101	101	24	---	---	---	0	---	---	---	0	---	---	---	0
10/2	102	102	104	24	101	101	101	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>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>	#				
	Avg	Avg		High	hr		Avg	Avg		High	hr			Avg	Avg	High
9/19	---	---	---	0	99	99	99	19	100	100	101	19	---	---	---	0
9/20	---	---	---	0	99	99	99	23	100	100	101	23	---	---	---	0
9/21	---	---	---	0	99	99	99	23	100	100	101	23	---	---	---	0
9/22	---	---	---	0	100	100	100	23	100	101	102	23	---	---	---	0
9/23	---	---	---	0	100	100	101	22	101	101	101	23	---	---	---	0
9/24	---	---	---	0	100	100	101	23	101	101	102	23	---	---	---	0
9/25	---	---	---	0	100	100	100	23	101	101	102	23	---	---	---	0
9/26	---	---	---	0	100	100	100	23	101	101	102	23	---	---	---	0
9/27	---	---	---	0	100	100	101	23	100	101	101	23	---	---	---	0
9/28	---	---	---	0	100	100	101	24	101	102	102	24	---	---	---	0
9/29	---	---	---	0	100	100	100	23	100	101	101	23	---	---	---	0
9/30	---	---	---	0	99	100	100	23	100	100	101	22	---	---	---	0
10/1	---	---	---	0	99	99	100	23	100	100	101	23	---	---	---	0
10/2	---	---	---	0	100	100	100	23	100	100	101	23	---	---	---	0

Two-Week Summary of Passage Indices

	COMBINED YEARLING CHINOOK										
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/19/2003	---	---	---	---	0	1	0	---	0	---	0
09/20/2003	---	---	---	---	1	0	8	---	0	---	0
09/21/2003	---	---	---	---	1	0	5	---	0	---	0
09/22/2003	---	---	---	---	1	0	10	---	0	---	13
09/23/2003 *	---	---	---	---	2	0	21	---	0	---	0
09/24/2003	---	---	---	---	3	0	0	---	0	---	0
09/25/2003 *	---	---	---	---	3	0	0	---	0	---	0
09/26/2003 *	---	---	---	---	3	0	0	---	0	---	0
09/27/2003 *	---	---	---	---	3	0	0	---	0	---	0
09/28/2003 *	---	---	---	---	4	0	0	---	0	---	0
09/29/2003 *	---	---	---	---	1	0	1	---	0	---	0
09/30/2003 *	---	---	---	---	0	0	1	---	0	---	0
10/01/2003 *	---	---	---	---	3	0	1	---	0	---	0
10/02/2003	---	---	---	---	---	1	---	---	---	---	0
Total:	0	0	0	0	25	2	47	0	0	0	13
# Days:	0	0	0	0	13	14	13	0	13	0	14
Average:	0	0	0	0	2	0	4	0	0	0	1
YTD	32,064	34,028	11,123	2,417	3,599,232	2,483,145	785,335	15,355	1,624,087	2,074,671	4,043,776

	COMBINED SUBYEARLING CHINOOK										
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/19/2003	---	---	---	---	114	166	66	---	20	---	232
09/20/2003	---	---	---	---	80	95	41	---	12	---	77
09/21/2003	---	---	---	---	31	144	50	---	20	---	175
09/22/2003	---	---	---	---	32	78	38	---	20	---	91
09/23/2003 *	---	---	---	---	99	64	22	---	48	---	36
09/24/2003	---	---	---	---	150	44	45	---	16	---	0
09/25/2003 *	---	---	---	---	524	70	43	---	20	---	92
09/26/2003 *	---	---	---	---	498	32	54	---	24	---	88
09/27/2003 *	---	---	---	---	251	19	74	---	24	---	34
09/28/2003 *	---	---	---	---	338	93	51	---	20	---	119
09/29/2003 *	---	---	---	---	402	130	58	---	20	---	21
09/30/2003 *	---	---	---	---	192	36	29	---	16	---	51
10/01/2003 *	---	---	---	---	303	261	41	---	32	---	131
10/02/2003	---	---	---	---	---	90	---	---	---	---	62
Total:	0	0	0	0	3,014	1,322	612	0	292	0	1,209
# Days:	0	0	0	0	13	14	13	0	13	0	14
Average:	0	0	0	0	232	94	47	0	22	0	86
YTD	1	118	74	355	1,401,970	684,092	341,254	28,113	7,682,087	2,713,873	7,901,441

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>

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											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/19/2003	---	---	---	---	1	0	0	---	0	---	0
09/20/2003	---	---	---	---	1	0	0	---	0	---	0
09/21/2003	---	---	---	---	1	0	0	---	0	---	0
09/22/2003	---	---	---	---	0	0	0	---	0	---	0
09/23/2003 *	---	---	---	---	0	0	0	---	0	---	0
09/24/2003	---	---	---	---	0	0	0	---	0	---	0
09/25/2003 *	---	---	---	---	0	0	0	---	0	---	0
09/26/2003 *	---	---	---	---	1	0	0	---	0	---	0
09/27/2003 *	---	---	---	---	0	0	1	---	0	---	0
09/28/2003 *	---	---	---	---	2	1	0	---	0	---	0
09/29/2003 *	---	---	---	---	0	4	0	---	0	---	0
09/30/2003 *	---	---	---	---	0	0	0	---	0	---	0
10/01/2003 *	---	---	---	---	0	2	1	---	0	---	0
10/02/2003	---	---	---	---	---	0	---	---	---	---	0
Total:	0	0	0	0	6	7	2	0	0	0	0
# Days:	0	0	0	0	13	14	13	0	13	0	14
Average:	0	0	0	0	0	1	0	0	0	0	0
YTD	0	0	0	17	132,906	116,666	37,604	41,690	113,584	258,277	2,116,459

COMBINED STEELHEAD											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/19/2003	---	---	---	---	4	0	0	---	0	---	0
09/20/2003	---	---	---	---	3	2	1	---	0	---	0
09/21/2003	---	---	---	---	3	2	1	---	0	---	0
09/22/2003	---	---	---	---	2	3	0	---	0	---	0
09/23/2003 *	---	---	---	---	2	0	0	---	0	---	0
09/24/2003	---	---	---	---	11	2	0	---	0	---	0
09/25/2003 *	---	---	---	---	6	0	1	---	0	---	0
09/26/2003 *	---	---	---	---	5	1	0	---	0	---	0
09/27/2003 *	---	---	---	---	2	1	0	---	0	---	0
09/28/2003 *	---	---	---	---	7	1	0	---	0	---	0
09/29/2003 *	---	---	---	---	1	2	0	---	0	---	0
09/30/2003 *	---	---	---	---	2	4	1	---	0	---	0
10/01/2003 *	---	---	---	---	3	2	1	---	0	---	0
10/02/2003	---	---	---	---	---	0	---	---	---	---	0
Total:	0	0	0	0	51	20	5	0	0	0	0
# Days:	0	0	0	0	13	14	13	0	13	0	14
Average:	0	0	0	0	4	1	0	0	0	0	0
YTD	2,347	48,404	2,521	5,601	3,355,757	2,583,388	1,865,478	15,507	245,583	553,522	1,635,163

* See sampling comments

<http://www.fpc.org/currentDaily/smpcomments.htm>

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/19/2003	---	---	---	---	0	0	0	---	0	---	0
09/20/2003	---	---	---	---	0	0	0	---	4	---	0
09/21/2003	---	---	---	---	0	0	0	---	4	---	0
09/22/2003	---	---	---	---	0	0	0	---	0	---	0
09/23/2003	*	---	---	---	0	0	0	---	0	---	0
09/24/2003	---	---	---	---	0	0	0	---	0	---	0
09/25/2003	*	---	---	---	0	0	0	---	0	---	0
09/26/2003	*	---	---	---	0	0	0	---	0	---	0
09/27/2003	*	---	---	---	0	0	0	---	0	---	0
09/28/2003	*	---	---	---	0	0	0	---	0	---	0
09/29/2003	*	---	---	---	0	0	0	---	0	---	0
09/30/2003	*	---	---	---	0	0	0	---	0	---	0
10/01/2003	*	---	---	---	0	0	0	---	4	---	0
10/02/2003	---	---	---	---	---	0	---	---	---	---	0
Total:	0	0	0	0	0	0	0	0	12	0	0
# Days:	0	0	0	0	13	14	13	0	13	0	14
Average:	0	0	0	0	0	0	0	0	1	0	0
YTD	1	0	0	11	16,388	8,128	4,545	10,312	841,734	726,163	1,261,373

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>

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: 10/02

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2003		2002		10-Yr Avg.		2003		2002		10-Yr Avg.		2003		2002		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	192,010	14,258	268,813	6,477	122,177	6,086	114,808	13,358	127,436	7,952	38,022	5,207	586,726	42,977	460,120	37,041	230,749	32,070
TDA	131,207	11,522	181,176	3,870	80,975	4,136	101,490	10,441	113,069	5,743	32,585	3,775	290,810	33,869	233,950	29,628	122,339	21,507
JDA	101,436	10,206	139,887	2,403	67,822	3,122	95,542	10,073	105,354	5,615	30,300	3,298	199,447	28,669	155,389	25,895	89,307	16,861
MCN	95,550	11,123	129,357	3,872	62,536	3,162	93,844	11,104	109,937	6,810	31,244	3,358	160,471	23,263	128,642	21,537	71,949	13,997
IHR	78,170	8,020	85,207	1,826	38,964	1,925	20,742	4,602	26,607	2,437	7,616	1,067	18,293	7,790	14,068	5,009	5,176	2,698
LMN	70,603	7,344	76,304	1,537	38,073	1,899	18,718	3,589	23,744	1,710	7,642	945	11,134	5,507	13,890	4,342	4,593	2,305
LGS	69,017	7,079	77,232	1,815	37,097	2,034	14,340	3,537	20,854	2,254	6,945	1,196	11,442	4,095	11,590	2,946	3,266	1,437
LWG	70,609	8,295	75,025	2,089	35,689	2,016	16,422	4,137	22,159	1,953	6,987	1,260	9,160	4,875	10,868	3,391	2,854	1,492
PRD	18,136	656	34,083	196	15,528	317	83,004	3,933	96,326	1,455	27,332	1,075	37,803	4,394	23,579	2,183	16,480	2,061
RIS	16,881	753	24,017	827	11,565	538	81,543	6,858	86,825	3,216	24,224	3,420	13,797	2,993	12,004	947	5,641	1,347
RRH	4,216	450	9,999	161	4,017	126	63,167	6,195	73,104	2,807	16,932	1,550	8,443	1,934	8,378	1,000	3,696	1,091
WEL	4,313	172	7,585	41	2,377	152	44,503	1,888	62,595	412	128,816	1,120	4,315	635	3,849	178	1,545	403

DAM	Coho						Sockeye			Steelhead			
	2003		2002		10-Yr Avg.		2003	2002	10-Yr Avg.	2003	2002	10-Yr Avg.	Wild 2003
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	95,606	4,419	52,867	5,099	46,677	3,244	39,291	49,610	46,748	346,869	461,362	269,677	108,368
TDA	28,766	2,248	6,214	2,706	9,165	1,251	34,176	40,554	37,479	242,112	341,392	183,212	75,625
JDA	23,178	3,393	4,337	1,198	6,351	889	35,417	41,914	40,486	243,794	297,977	156,988	70,670
MCN	11,399	1,266	1,188	724	2,772	357	32,037	39,175	36,935	186,099	216,670	116,237	54,436
IHR	422	71	22	0	96	8	37	61	17	144,706	144,385	79,923	33,719
LMN	195	35	17	0	24	4	14	46	24	116,419	145,140	73,540	30,105
LGS	170	16	24	4	11	0	23	38	26	103,452	132,928	60,148	28,294
LWG	196	14	52	53	24	2	12	55	24	106,128	125,835	58,076	28,131
PRD	2,702	290	553	220	289	57	36,551	47,882	45,469	16,297	14,977	9,447	n/c
RIS	2,310	0	555	0	257	0	34,778	44,320	41,024	15,568	14,131	8,257	9,979
RRH	124	0	88	0	33	0	30,354	12,371	24,256	11,397	10,476	5,921	7,112
WEL	1	0	13	0	0	0	28,996	10,584	23,918	7,212	8,113	4,235	4,122

PRD, RIS, RRH, and WEL are through 10/01.

LGR is missing data for 3/6.

**PRD is not reporting Wild Steelhead numbers.

These numbers were collected from the COE's Running Sums text files, except where otherwise noted.

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.

Page last updated on: 10/3/03

BON counts from January 1, 2003 to March 14, 2003 (our counts begin March 15)

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
3,758	0	3,443	408

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

10/3/03 7:35 AM

		09/20/03 TO 10/03/03						
		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	3,014	25	6	51		3,096	
	Sum of NumberBarged	0	0	0	0		0	
	Sum of NumberBypassed	0	0	0	48		48	
	Sum of Numbertrucked	3,064	25	6	0		3,095	
	Sum of TotalProjectMortalities	54	0	0	3		57	
LGS	Sum of NumberCollected	1,322		7	20		1,349	
	Sum of NumberBarged	0		0	0		0	
	Sum of NumberBypassed	0		0	0		0	
	Sum of Numbertrucked	1,360		3	21		1,384	
	Sum of TotalProjectMortalities	19		4	1		24	
LMN	Sum of NumberCollected	612	47	2	5		666	
	Sum of NumberBarged	0	0	0	0		0	
	Sum of NumberBypassed	0	0	0	5		5	
	Sum of Numbertrucked	645	47	2	0		694	
	Sum of TotalProjectMortalities	18	0	0	0		18	
MCN	Sum of NumberCollected	292			12		304	
	Sum of NumberBarged	0			0		0	
	Sum of NumberBypassed	0			0		0	
	Sum of Numbertrucked	329			16		345	
	Sum of TotalProjectMortalities	11			0		11	
Total Sum of NumberCollected		5,240	72	15	12	76	5,415	
Total Sum of NumberBarged		0	0	0	0	0	0	
Total Sum of NumberBypassed		0	0	0	0	53	53	
Total Sum of Numbertrucked		5,398	72	11	16	21	5,518	
Total Sum of TotalProjectMortalities		102	0	4	0	4	110	

YTD Transportation Summary

Source: Fish Passage Center

Updated:

10/3/03 7:35 AM

TO: 10/03/03

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	1,158,796	2,577,010	90,050	9,752	2,337,078	6,172,686
	Sum of NumberBarged	1,122,378	2,470,893	89,264	9,549	2,265,797	5,957,881
	Sum of NumberBypassed	2,894	45,590	7	0	53,482	101,973
	Sum of NumberTrucked	15,112	54,246	169	81	15,727	85,335
	Sum of TotalProjectMortalities	18,408	5,982	610	122	2,073	27,195
LGS	Sum of NumberCollected	601,727	1,832,622	86,755	5,440	1,938,441	4,464,985
	Sum of NumberBarged	574,927	1,776,598	86,171	5,399	1,934,367	4,377,462
	Sum of NumberBypassed	0	22	0	0	3	25
	Sum of NumberTrucked	19,255	52,602	134	3	1,136	73,130
	Sum of TotalProjectMortalities	7,454	3,401	450	38	2,935	14,278
LMN	Sum of NumberCollected	290,325	463,390	26,554	3,307	1,229,842	2,013,418
	Sum of NumberBarged	246,893	440,282	25,842	3,262	1,150,928	1,867,207
	Sum of NumberBypassed	34,112	6,866	681	0	75,966	117,625
	Sum of NumberTrucked	7,581	15,238	13	40	1,658	24,530
	Sum of TotalProjectMortalities	1,739	1,004	18	5	1,290	4,056
MCN	Sum of NumberCollected	7,028,584	1,041,821	71,927	546,131	155,070	8,843,533
	Sum of NumberBarged	4,606,418	5,470	8,989	10,989	701	4,632,567
	Sum of NumberBypassed	2,284,576	1,035,087	62,604	534,287	154,084	4,070,638
	Sum of NumberTrucked	65,426	31	0	122	0	65,579
	Sum of TotalProjectMortalities	72,166	1,140	334	438	242	74,320
Total Sum of NumberCollected		9,079,432	5,914,843	275,286	564,630	5,660,431	21,494,622
Total Sum of NumberBarged		6,550,616	4,693,243	210,266	29,199	5,351,793	16,835,117
Total Sum of NumberBypassed		2,321,582	1,087,565	63,292	534,287	283,535	4,290,261
Total Sum of NumberTrucked		107,374	122,117	316	246	18,521	248,574
Total Sum of TotalProjectMortalities		99,767	11,527	1,412	603	6,540	119,849

