



Fish Passage Center

Weekly Report #02 - 30

October 18, 2002

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Water: River flows within the Columbia Basin are low. Over the last two weeks, flows have averaged 17.5 Kcfs in the lower Snake River (Lower Granite outflows), 78.8 Kcfs in the middle Columbia River (Priest Rapids outflows), and 99.4 Kcfs in the lower Columbia River (McNary outflows).

Grand Coulee has drafted slightly over the last two weeks; reservoir elevations have ranged between 1288.0 feet (10-4-02) and 1286.3 feet (10-16-02). Total outflows over the past two weeks have averaged 71.8 Kcfs.

The Libby Reservoir has drafted 1.3 feet over the past two weeks (10-4-02 to 10-16-02); reservoir elevations have ranged from 2440.3 to 2439.0 feet. Outflows have varied between 6.0 and 8.0 kcfs over the past two weeks.

The Dworshak Reservoir drafted only 0.8 feet over the last two weeks (10-4-02 to 10-16-02). Total outflows have been at the minimum project discharge for the past five weeks. Dworshak is currently at an elevation of 1517.6 feet.

Over the past six days, the Brownlee Reservoir has refilled 1.4 feet, beginning the week at 2039.2 and ending the week at 2040.6 feet. During the week, outflows have varied between 7.8 and 14.3 Kcfs.

The Hungry Horse Reservoir is currently (10-16-02) at an elevation of 3534.6 feet. Total outflows at Hungry Horse have ranged between 2.0 and 2.1 Kcfs over the last two weeks (10-4-02 to 10-16-02).

As of October 16th, 2002, the entire Upper Snake River system is at 13% of capacity. Individually, American Falls is at 6% of capacity, Palisades is at 7% of capacity and Jackson Lake is at 27% of capacity.

The Boise and Payette River systems are currently (10-16-02) at 20% and 51% of capacity, respectively. Within these basins, the Cascade Reservoir is at 56% of full and Anderson Ranch is at 27% of full.

Smolt Monitoring: This past two weeks saw steady but small numbers of subyearling chinook continuing to outmigrate throughout the Lower Snake and Lower Columbia Rivers. There were decreased numbers of subyearling chinook being captured at all SMP sites except Bonneville Dam, where the average index increased from 100 per day last week to 130 per day the week ending yesterday. In the Lower Snake River, at Lower Granite the average daily index of subyearling chinook was 470 this week compared to 700 last week. At other Snake River dams the average numbers of subyearlings were 65 at Little Goose and 71 at Lower Monumental.

In the lower Columbia, the passage index decreased at McNary from 530 per day last week to 460 per day this week. And at Bonneville Dam subyearling chinook numbers were up 24% this week compared to the previous week.

Adult Fish Passage: At Bonneville Dam, counts of adult fall chinook ranged between 1,000 fish per day at the beginning of the report week (10/4) to about 300 fish per day at the end of the report week (10/17), with the cumulative count through October 17 at 469, 281. At The Dalles, about 242,000 Upriver Bright (URB) fall chinook have been counted with about 139,000 above McNary Dam. Passage of fall chinook at Ice Harbor Dam has reduced to about 30 per day for the past week with the total through October 17 now surpassing 15,000 for the season. At Priest Rapids Dam, about 22,700 adult fall chinook were counted through October 16. A large percentage of the wild component of the upriver run is destined for the Hanford Reach area (below Priest Rapids Dam) of the Mid-Columbia River. In the lower river, Bonneville pool area, this

season's run of tule stock fall chinook counted past Bonneville Dam was again very strong and overall, this year's run of Tule and URB fall chinook counts remained well above the 10-year average similar to the performance of the spring and summer races of chinook.

Steelhead passage at Bonneville Dam ranged from a high count of near 1,900 to a low count of 400 through the past two weeks with the total counted surpassing 475,000 through October 17. Estimated wild steelhead in the passage total was nearly 141,700 (based on visual missing adipose fin on the steelhead). To date, about 79% of the adult steelhead counted past Bonneville Dam has been counted upstream past The Dalles Dam. Numbers of adult steelhead counted into the Snake River and past Ice Harbor Dam ranged between 4,000 early in the report week to near 1,000 at the end of the report week (10/17). The cumulative count now exceeds 191,000 through October 17. In the Mid-Columbia, steelhead counts at Priest Rapids Dam were normally 50 or less per day for the past two weeks with the total count approaching 16,000 for the season.

At Bonneville Dam, passage of adult coho remained relatively steady throughout the past 2-weeks with counts between 1,000 and 2,000 per

day and the cumulative count at Bonneville Dam now up to 75,000. Approximately 9,000 of the Bonneville coho have moved upstream past The Dalles Dam to date. A large percent of coho passing above Bonneville Dam remain in the Bonneville pool area and enter tributaries and hatcheries in this section of river. The Umatilla, Yakima, upper Mid-Columbia and Snake rivers have coho returning to those river systems.

Hatchery Releases: All hatchery releases for the 2002 fish migration season are completed. The FPC will be updating and finalizing hatchery release groups during the next few months.

About 1.4 million juvenile spring chinook have been released late summer and early fall from the Clearwater River basin. It is expected that the majority of these fish will remain in the Clearwater through the winter and migrate out next spring. Sockeye salmon have been released into the Stanley Basin lakes in the upper Salmon River basin and into Lake Wenatchee in the upper Wenatchee River basin. The majority of these sockeye will also reside in the lakes through the fall/winter and outmigrate the following spring (2003).

Hatchery Release Summary
From: 9/20/02 to 10/17/02

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
IDFG	Clearwater	CH1	SP	2003	85,064	09-27-02	09-27-02	Red River Acclim Pd	S Fk Clearwater R
IDFG	Clearwater	CH1	SP	2003	123,677	09-30-02	09-30-02	Redhouse (SFk ClearH20 R)	S Fk Clearwater R
IDFG	Clearwater	CH1	SP	2003	169,768	09-23-02	09-27-02	Crooked R Acclim Pd	S Fk Clearwater R
IDFG	Clearwater	CH1	SP	2003	526,733	09-25-02	09-27-02	Powell Acclim Pd	Lochsa River
IDFG	Clearwater	ST	SU	2003	63,957	09-30-02	09-30-02	N Fk Clearwater R	Clearwater Rvr M F
IDFG	Sawtooth	SO	UN	2003	19,981	10-08-02	10-08-02	Pettit Lake	Salmon River
IDFG	Sawtooth	SO	UN	2003	45,001	10-07-02	10-07-02	Redfish Lake	Salmon River

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
10/04/02	63.9	0.0	62.8	0.0	61.9	0.0	59.7	0.0	62.1	0.0	76.8	1.4	75.7	1.0
10/05/02	58.3	0.0	56.3	0.0	58.7	0.0	57.8	0.0	59.0	0.0	54.3	1.4	51.6	0.9
10/06/02	60.6	0.0	62.7	0.0	63.4	0.0	60.8	0.0	61.3	0.0	62.4	1.4	62.3	1.1
10/07/02	85.6	0.0	86.9	0.0	87.6	0.0	87.5	0.0	89.0	0.0	84.1	1.5	84.4	1.1
10/08/02	100.9	0.0	99.2	0.0	104.1	0.0	106.5	0.0	109.1	0.0	96.2	2.1	93.6	1.3
10/09/02	72.3	0.0	74.2	0.0	75.9	0.0	73.9	0.0	75.9	0.0	118.0	1.2	126.3	1.6
10/10/02	71.5	0.0	73.3	0.0	75.7	0.0	75.1	0.0	76.7	0.0	86.2	0.8	89.3	1.6
10/11/02	64.3	0.0	65.4	0.0	67.5	0.0	69.6	0.0	69.4	0.0	72.5	0.7	73.6	1.6
10/12/02	61.2	0.0	62.6	0.0	63.6	0.0	61.0	0.0	61.4	0.0	66.3	0.7	73.1	1.6
10/13/02	58.0	0.0	60.5	0.0	58.9	0.0	59.2	0.0	61.7	0.0	58.4	0.8	55.4	1.6
10/14/02	84.1	0.0	85.5	0.0	88.3	0.0	87.4	0.0	87.8	0.0	93.5	0.7	93.7	1.6
10/15/02	82.0	0.0	82.5	0.0	83.6	0.0	81.4	0.0	83.2	0.0	72.5	0.9	80.4	1.6
10/16/02	70.4	0.0	68.7	0.0	71.6	0.0	73.2	0.0	74.9	0.0	77.1	0.8	64.6	1.2
10/17/02	63.2	0.0	65.6	0.0	68.9	0.0	68.1	0.0	69.0	0.0	87.9	0.8	89.4	0.8

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

Date	Dworshak		Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
10/04/02	1.5	0.0	11.5	14.0	20.0	0.0	19.5	0.0	20.2	0.0	19.5	0.0
10/05/02	1.5	0.0	10.7	12.2	19.1	0.0	18.7	0.0	19.7	0.0	18.5	0.0
10/06/02	1.6	0.0	10.3	7.9	19.2	0.0	20.7	0.0	22.7	0.0	22.2	0.0
10/07/02	1.5	0.0	12.6	12.8	13.9	0.0	14.1	0.0	14.0	0.0	13.7	0.0
10/08/02	1.6	0.0	10.8	13.5	20.4	0.0	18.6	0.0	18.4	0.0	17.1	0.0
10/09/02	1.6	0.0	11.5	13.5	19.0	0.0	19.9	0.0	20.4	0.0	19.8	0.0
10/10/02	1.6	0.0	11.3	14.6	19.4	0.0	19.0	0.0	19.8	0.0	17.5	0.0
10/11/02	1.5	0.0	11.2	11.8	20.1	0.0	20.3	0.0	21.2	0.0	21.5	0.0
10/12/02	1.4	0.0	10.0	7.7	17.2	0.0	17.4	0.0	17.5	0.0	15.5	0.0
10/13/02	1.6	0.0	9.9	8.2	13.7	0.0	13.1	0.0	14.3	0.0	14.5	0.0
10/14/02	1.6	0.0	10.4	8.8	14.3	0.0	14.1	0.0	14.3	0.0	13.4	0.0
10/15/02	1.5	0.0	9.6	8.7	15.2	0.0	14.5	0.0	14.7	0.0	13.5	0.0
10/16/02	1.5	0.0	10.6	8.7	15.3	0.0	15.2	0.0	14.9	0.0	15.5	0.0
10/17/02	1.6	0.0	---	---	15.8	0.0	15.2	0.0	16.1	0.0	15.4	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		
10/04/02	102.0	0.0	113.2	0.0	123.4	0.0	129.4	2.1	4.6	116.0
10/05/02	81.5	0.0	73.2	0.0	75.8	0.0	83.2	2.1	0.3	74.1
10/06/02	81.2	0.0	80.5	0.0	85.5	0.0	83.7	2.1	0.0	74.6
10/07/02	96.5	0.0	100.5	0.0	105.6	0.0	107.3	2.0	5.3	93.1
10/08/02	92.4	0.0	79.7	0.0	84.7	0.0	97.5	2.0	5.8	82.9
10/09/02	141.0	0.0	134.4	0.0	135.5	0.0	123.5	2.1	14.6	100.2
10/10/02	123.3	0.0	124.5	0.0	127.8	0.0	127.6	2.1	19.7	99.1
10/11/02	111.2	0.0	118.2	0.0	123.5	0.0	123.9	2.1	16.6	98.5
10/12/02	93.9	0.0	94.6	0.0	98.6	0.0	101.8	2.1	1.8	91.1
10/13/02	74.5	0.0	74.1	0.0	81.6	0.0	89.4	2.1	0.0	80.4
10/14/02	98.4	0.0	98.8	0.0	102.0	0.0	101.8	1.9	0.1	92.7
10/15/02	103.9	0.0	107.2	0.0	114.4	0.0	120.4	1.9	19.7	91.8
10/16/02	92.1	0.0	88.0	0.0	90.8	0.0	91.3	1.9	1.3	81.1
10/17/02	201.8	0.6	96.1	0.0	99.2	0.0	99.8	2.0	0.3	90.6

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	Hungry H. Dnst			Boundary			Grand Coulee			Grand C. Tlwr			Chief Joseph			#				
	24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
10/4	---	---	---	0	101	101	102	24	101	101	101	24	---	---	---	0	101	101	101	23
10/5	---	---	---	0	101	101	101	24	100	101	101	21	---	---	---	0	100	101	101	23
10/6	---	---	---	0	100	101	101	24	100	100	100	21	---	---	---	0	100	101	101	23
10/7	---	---	---	0	100	101	101	24	100	100	100	24	---	---	---	0	100	101	101	23
10/8	---	---	---	0	100	100	101	13	100	100	100	14	100	100	100	1	100	101	101	18
10/9	---	---	---	0	101	101	101	24	100	101	101	24	100	100	101	7	101	102	102	23
10/10	---	---	---	0	101	101	101	24	101	101	101	24	100	101	102	24	101	101	102	23
10/11	---	---	---	0	99	99	100	24	99	99	100	24	99	99	102	24	99	99	100	23
10/12	---	---	---	0	98	98	98	24	98	98	98	24	98	99	101	24	98	98	99	23
10/13	---	---	---	0	98	99	99	24	99	99	99	24	99	100	102	24	99	100	101	23
10/14	---	---	---	0	98	99	99	24	98	99	99	24	98	99	101	24	98	99	100	23
10/15	---	---	---	0	99	99	99	24	99	99	99	24	98	99	101	24	99	99	100	23
10/16	---	---	---	0	99	99	100	24	99	99	99	24	99	99	102	24	99	100	101	23
10/17	---	---	---	0	99	100	100	24	99	99	99	24	100	100	102	24	100	100	101	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			Wells			Wells Dwnstrm			Rocky Reach			Rocky R. Tlwr			#				
	24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
10/4	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/5	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/6	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/10	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/11	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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	100	101	102	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Rock Island			Rock I. Tlwr			Wanapum			Wanapum Tlwr			Priest Rapids			#				
	24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h		24 h	12 h						
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
10/4	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/5	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/6	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/7	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/9	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/10	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/11	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg	Avg		
10/4	---	---	---	0	98	98	98	24	107	108	109	24	103	104	106	24	---	---	---	0
10/5	---	---	---	0	98	99	99	24	106	107	108	24	102	104	105	24	---	---	---	0
10/6	---	---	---	0	98	98	99	24	105	106	107	24	102	103	105	24	---	---	---	0
10/7	---	---	---	0	98	99	99	24	105	106	108	24	102	103	105	24	---	---	---	0
10/8	---	---	---	0	99	99	100	17	106	106	108	16	100	100	101	9	---	---	---	0
10/9	---	---	---	0	100	101	101	20	106	107	109	24	---	---	---	0	---	---	---	0
10/10	---	---	---	0	99	99	101	24	106	107	108	24	---	---	---	0	---	---	---	0
10/11	---	---	---	0	97	97	98	24	105	106	107	24	---	---	---	0	---	---	---	0
10/12	---	---	---	0	96	97	97	24	104	105	106	24	---	---	---	0	---	---	---	0
10/13	---	---	---	0	97	98	98	24	105	106	107	24	---	---	---	0	---	---	---	0
10/14	---	---	---	0	98	98	100	24	105	106	107	24	---	---	---	0	---	---	---	0
10/15	---	---	---	0	99	99	100	24	105	106	108	24	---	---	---	0	---	---	---	0
10/16	---	---	---	0	99	99	100	24	105	106	107	24	---	---	---	0	---	---	---	0
10/17	---	---	---	0	100	100	100	24	105	106	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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
10/4	102	104	106	24	96	96	96	24	96	97	98	24	---	---	---	0	96	96	100	8
10/5	102	103	105	24	95	95	95	8	96	96	97	9	---	---	---	0	---	---	---	0
10/6	102	104	107	24	96	96	98	12	95	95	95	5	---	---	---	0	---	---	---	0
10/7	102	103	106	17	97	97	98	24	96	96	97	18	---	---	---	0	---	---	---	0
10/8	---	---	---	0	96	96	98	17	95	95	96	9	---	---	---	0	---	---	---	0
10/9	---	---	---	0	98	99	100	24	96	97	97	24	---	---	---	0	---	---	---	0
10/10	---	---	---	0	97	97	98	24	96	97	97	24	---	---	---	0	---	---	---	0
10/11	---	---	---	0	96	96	96	24	96	96	96	24	---	---	---	0	---	---	---	0
10/12	---	---	---	0	96	96	97	23	96	96	97	18	---	---	---	0	---	---	---	0
10/13	---	---	---	0	96	97	98	24	96	96	97	24	---	---	---	0	---	---	---	0
10/14	---	---	---	0	96	97	98	24	96	96	97	24	---	---	---	0	---	---	---	0
10/15	---	---	---	0	97	97	98	24	96	97	98	24	---	---	---	0	---	---	---	0
10/16	---	---	---	0	97	98	98	24	96	97	98	24	---	---	---	0	---	---	---	0
10/17	---	---	---	0	97	98	98	24	97	97	98	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>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg			
10/4	96	96	96	9	96	96	96	9	96	97	98	24	98	98	99	24	98	99	100	24
10/5	---	---	---	0	---	---	---	0	96	96	96	24	97	98	98	24	99	100	100	24
10/6	---	---	---	0	---	---	---	0	96	96	96	23	97	97	98	24	100	101	101	24
10/7	---	---	---	0	---	---	---	0	96	96	97	24	98	99	99	24	100	103	104	24
10/8	---	---	---	0	---	---	---	0	97	97	97	17	98	98	100	17	99	100	103	17
10/9	---	---	---	0	---	---	---	0	97	97	98	24	98	99	100	24	100	101	102	24
10/10	---	---	---	0	---	---	---	0	97	97	97	24	98	99	99	24	99	100	100	24
10/11	---	---	---	0	---	---	---	0	96	96	97	24	97	98	98	24	99	99	99	24
10/12	---	---	---	0	---	---	---	0	96	96	97	17	97	98	99	24	98	98	98	24
10/13	---	---	---	0	---	---	---	0	96	97	97	24	98	98	99	24	98	99	99	24
10/14	---	---	---	0	---	---	---	0	96	96	97	24	98	98	99	24	98	98	99	24
10/15	---	---	---	0	---	---	---	0	96	96	96	24	98	98	99	24	98	99	100	24
10/16	---	---	---	0	---	---	---	0	96	96	96	24	97	98	99	24	98	99	100	24
10/17	---	---	---	0	---	---	---	0	96	96	96	24	98	98	99	24	99	101	102	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			
10/4	104	107	109	24	98	98	99	24	---	---	---	0	---	---	---	0	98	98	99	18
10/5	113	114	116	24	98	98	98	24	---	---	---	0	---	---	---	0	98	98	99	22
10/6	119	120	122	24	98	98	99	24	---	---	---	0	---	---	---	0	98	98	99	23
10/7	117	124	126	23	99	99	100	24	---	---	---	0	---	---	---	0	99	99	99	18
10/8	101	101	102	17	99	100	100	17	---	---	---	0	---	---	---	0	99	99	100	18
10/9	101	101	101	24	100	100	101	24	---	---	---	0	---	---	---	0	99	99	100	22
10/10	100	100	100	24	99	100	100	24	---	---	---	0	---	---	---	0	99	99	100	23
10/11	98	99	99	24	98	99	99	24	---	---	---	0	---	---	---	0	98	98	98	23
10/12	98	98	99	24	98	98	98	24	---	---	---	0	---	---	---	0	97	97	98	23
10/13	98	98	98	24	98	98	99	24	---	---	---	0	---	---	---	0	98	98	98	23
10/14	98	99	100	24	98	98	98	24	---	---	---	0	---	---	---	0	98	98	98	23
10/15	98	98	99	24	98	98	98	24	---	---	---	0	---	---	---	0	99	99	99	23
10/16	98	99	100	24	98	98	98	24	---	---	---	0	---	---	---	0	98	99	99	23
10/17	99	99	99	24	99	99	99	24	---	---	---	0	---	---	---	0	99	99	100	23

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	Avg		Avg	High		Avg	Avg		High	Avg	AVG	High
10/4	99	99	99	24	99	99	100	23	100	100	100	23	---	---	---	0
10/5	99	99	99	24	99	99	100	23	100	100	101	23	---	---	---	0
10/6	99	100	100	24	99	99	100	23	100	100	101	23	---	---	---	0
10/7	100	100	100	24	100	100	100	23	100	101	101	23	---	---	---	0
10/8	100	100	101	18	100	100	100	18	101	101	102	18	---	---	---	0
10/9	100	100	100	24	101	101	101	23	101	101	102	23	---	---	---	0
10/10	99	100	100	24	100	101	101	23	101	101	102	23	---	---	---	0
10/11	98	99	99	24	99	99	100	23	100	100	101	23	---	---	---	0
10/12	98	99	99	24	99	99	99	23	99	100	100	23	---	---	---	0
10/13	99	99	99	24	99	99	100	23	100	101	102	23	---	---	---	0
10/14	99	99	100	24	99	100	100	23	100	100	101	23	---	---	---	0
10/15	99	100	100	24	100	100	100	23	100	101	101	22	---	---	---	0
10/16	100	100	100	24	100	100	100	23	100	101	102	23	---	---	---	0
10/17	100	100	100	24	100	100	100	23	101	101	102	23	---	---	---	0

Two-Week Summary of Passage Indices

* See sampling comments

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

this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmpsubmitdata.asp>

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

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)	
10/04/2002	*	---	---	---	---	0	0	1	---	0	---	0
10/05/2002	*	---	---	---	---	0	1	0	---	4	---	4
10/06/2002	*	---	---	---	---	0	0	0	---	0	---	8
10/07/2002		---	---	---	---	0	0	0	---	0	---	0
10/08/2002	*	---	---	---	---	0	0	0	---	0	---	0
10/09/2002		---	---	---	---	0	0	0	---	0	---	0
10/10/2002	*	---	---	---	---	0	0	0	---	0	---	0
10/11/2002	*	---	---	---	---	20	0	0	---	0	---	0
10/12/2002	*	---	---	---	---	16	0	1	---	0	---	12
10/13/2002	*	---	---	---	---	36	1	1	---	0	---	31
10/14/2002	*	---	---	---	---	28	1	0	---	0	---	0
10/15/2002	*	---	---	---	---	0	0	0	---	0	---	0
10/16/2002	*	---	---	---	---	20	0	0	---	0	---	0
10/17/2002		---	---	---	---	24	0	0	---	0	---	0
Total:		0	0	0	0	144	3	3	0	4	0	55
# Days:		0	0	0	0	14	14	14	0	14	0	14
Average:		0	0	0	0	10	0	0	0	0	0	4
YTD		38,199	29,095	8,013	7,847	2,459,324	2,847,388	2,221,940	28,982	3,519,416	2,104,938	3,328,146

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)	
10/04/2002	*	---	---	---	---	832	276	12	---	492	---	135
10/05/2002	*	---	---	---	---	672	357	14	---	516	---	123
10/06/2002	*	---	---	---	---	684	242	7	---	288	---	74
10/07/2002		---	---	---	---	840	101	10	---	296	---	94
10/08/2002	*	---	---	---	---	540	53	1	---	364	---	79
10/09/2002		---	---	---	---	712	59	6	---	840	---	91
10/10/2002	*	---	---	---	---	644	51	13	---	928	---	123
10/11/2002	*	---	---	---	---	644	84	12	---	1,912	---	161
10/12/2002	*	---	---	---	---	840	58	33	---	764	---	123
10/13/2002	*	---	---	---	---	600	80	231	---	164	---	164
10/14/2002	*	---	---	---	---	352	109	168	---	28	---	82
10/15/2002	*	---	---	---	---	264	75	23	---	48	---	153
10/16/2002	*	---	---	---	---	332	40	19	---	60	---	93
10/17/2002		---	---	---	---	240	11	8	---	264	---	115
Total:		0	0	0	0	8,196	1,596	557	0	6,964	0	1,610
# Days:		0	0	0	0	14	14	14	0	14	0	14
Average:		0	0	0	0	585	114	40	0	497	0	115
YTD		0	4	26	3,488	748,227	335,212	306,064	25,466	8,357,260	3,465,726	6,997,186

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)
10/04/2002 *	---	---	---	---	0	0	0	---	0	---	0
10/05/2002 *	---	---	---	---	0	0	0	---	0	---	0
10/06/2002 *	---	---	---	---	0	0	0	---	0	---	0
10/07/2002	---	---	---	---	0	0	0	---	0	---	0
10/08/2002 *	---	---	---	---	0	0	0	---	0	---	0
10/09/2002	---	---	---	---	0	0	0	---	0	---	0
10/10/2002 *	---	---	---	---	0	1	0	---	0	---	0
10/11/2002 *	---	---	---	---	4	0	0	---	0	---	0
10/12/2002 *	---	---	---	---	0	0	0	---	0	---	0
10/13/2002 *	---	---	---	---	0	1	0	---	0	---	0
10/14/2002 *	---	---	---	---	0	1	0	---	0	---	10
10/15/2002 *	---	---	---	---	0	0	0	---	0	---	0
10/16/2002 *	---	---	---	---	0	1	0	---	0	---	0
10/17/2002	---	---	---	---	0	2	0	---	0	---	0
Total:	0	0	0	0	4	6	0	0	0	0	10
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	0	0	0	0	0	0	1
YTD	0	0	0	101	124,064	104,580	66,186	86,227	201,998	315,280	2,331,587

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)
10/04/2002 *	---	---	---	---	0	0	10	---	0	---	0
10/05/2002 *	---	---	---	---	4	0	4	---	4	---	0
10/06/2002 *	---	---	---	---	0	1	8	---	0	---	0
10/07/2002	---	---	---	---	0	1	8	---	4	---	0
10/08/2002 *	---	---	---	---	0	0	5	---	0	---	0
10/09/2002	---	---	---	---	0	0	2	---	4	---	0
10/10/2002 *	---	---	---	---	0	2	4	---	0	---	0
10/11/2002 *	---	---	---	---	4	0	30	---	0	---	0
10/12/2002 *	---	---	---	---	0	1	20	---	0	---	0
10/13/2002 *	---	---	---	---	0	0	46	---	0	---	0
10/14/2002 *	---	---	---	---	0	0	19	---	0	---	0
10/15/2002 *	---	---	---	---	0	0	3	---	0	---	0
10/16/2002 *	---	---	---	---	0	0	9	---	0	---	0
10/17/2002	---	---	---	---	8	0	2	---	4	---	0
Total:	0	0	0	0	16	5	170	0	16	0	0
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	1	0	12	0	1	0	0
YTD	2,833	32,043	3,494	11,810	2,603,063	2,274,780	1,795,076	28,714	794,552	545,814	1,455,004

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

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

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)	
10/04/2002	*	---	---	---	---	32	1	1	---	0	---	0
10/05/2002	*	---	---	---	---	4	1	1	---	8	---	0
10/06/2002	*	---	---	---	---	4	2	0	---	4	---	0
10/07/2002		---	---	---	---	12	2	0	---	4	---	0
10/08/2002	*	---	---	---	---	4	0	0	---	8	---	0
10/09/2002		---	---	---	---	4	1	0	---	16	---	0
10/10/2002	*	---	---	---	---	4	1	1	---	24	---	0
10/11/2002	*	---	---	---	---	0	5	2	---	8	---	0
10/12/2002	*	---	---	---	---	4	0	1	---	4	---	0
10/13/2002	*	---	---	---	---	12	2	13	---	0	---	0
10/14/2002	*	---	---	---	---	0	0	1	---	0	---	0
10/15/2002	*	---	---	---	---	0	1	2	---	0	---	0
10/16/2002	*	---	---	---	---	4	0	0	---	0	---	0
10/17/2002		---	---	---	---	4	0	0	---	0	---	0
Total:		0	0	0	0	88	16	22	0	76	0	0
# Days:		0	0	0	0	14	14	14	0	14	0	14
Average:		0	0	0	0	6	1	2	0	5	0	0
YTD		18	0	0	261	77,754	66,819	39,031	20,629	1,410,424	934,115	848,197

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: 10/17

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2002		2001		10-Yr Avg.		2002		2001		10-Yr Avg.		2002		2001		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	268,813	6,477	391,367	14,172	104,143	5,654	127,436	7,952	76,156	14,723	26,786	4,828	469,281	39,586	394,558	72,514	200,628	33,901
TDA	181,176	3,870	303,912	9,953	68,558	3,895	113,069	5,743	71,462	10,926	22,478	3,504	242,769	32,699	178,033	50,368	110,986	23,161
JDA	139,887	2,403	264,177	6,208	58,196	3,052	105,354	5,615	64,186	10,049	20,885	3,005	162,849	28,952	123,166	40,474	84,319	18,280
MCN	129,357	3,872	258,689	6,683	54,462	2,970	109,937	6,818	67,914	9,600	21,443	2,927	139,019	24,573	108,018	35,164	70,716	16,728
IHR	85,207	1,826	171,173	3,026	32,988	1,807	26,607	2,437	15,270	2,397	5,356	857	15,154	6,024	13,101	9,770	4,742	3,129
LMN	76,304	1,537	180,787	1,784	32,792	1,811	23,743	1,686	19,287	1,612	5,597	792	14,977	5,794	12,956	8,110	3,915	2,788
LGS	77,232	1,815	174,823	2,990	31,528	1,921	20,844	2,253	15,929	2,803	5,147	995	12,600	3,799	9,912	6,787	2,676	1,846
LWG	75,025	2,132	171,958	3,135	30,329	1,865	22,159	1,953	13,735	3,804	5,072	1,094	11,941	5,102	8,214	8,092	2,230	1,846
PRD	34,083	196	50,379	987	14,082	343	96,326	1,455	53,170	3,207	18,552	1,069	22,723	2,247	21,940	6,203	15,398	2,565
RIS	24,017	827	39,785	1,761	10,725	505	86,825	4,762	48,844	13,086	16,340	3,328	13,139	1,019	9,800	5,332	5,155	1,917
RRH	9,999	161	15,895	543	3,314	135	73,104	2,807	39,174	5,548	9,858	1,394	9,256	1,126	7,787	3,555	3,367	1,269
WEL	7,587	39	9,989	892	1,779	176	62,595	412	33,244	4,882	6,718	1,165	4,595	193	5,249	2,260	1,472	562

DAM	Coho						Sockeye			Steelhead			
	2002		2001		10-Yr Avg.		2002	2001	10-Yr Avg.	2002	2001	10-Yr Avg.	Wild 2002
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	76,089	6,308	242,545	6,215	47,848	3,609	49,608	114,934	50,283	475,264	625,468	260,222	141,725
TDA	8,669	2,959	49,665	1,946	11,295	1,261	40,554	102,562	40,061	376,796	483,291	186,731	113,203
JDA	6,620	1,522	37,122	2,085	8,822	1,056	41,916	107,869	43,271	364,438	441,035	172,211	105,209
MCN	1,790	947	16,746	1,352	4,218	443	39,177	97,188	39,888	270,647	373,249	137,149	76,403
IHR	135	11	713	65	144	11	60	38	13	192,448	233,017	100,239	49,052
LMN	99	5	401	86	71	9	45	32	21	197,435	230,037	92,188	51,921
LGS	81	9	235	27	38	0	38	72	24	183,482	208,484	78,829	48,819
LWG	152	126	172	44	72	0	51	36	23	187,245	203,851	78,608	49,677
PRD	797	348	4,758	730	487	52	47,882	111,320	48,768	15,978	28,833	9,912	***
RIS	1,227	0	4,002	0	557	0	44,319	104,847	43,487	14,617	27,507	8,881	9,730
RRH	291	0	438	0	97	0	12,371	66,221	27,245	11,422	21,063	6,324	6,574
WEL	100	0	68	0	14	1	10,587	74,490	27,112	8,763	17,012	4,695	4,890

RIS, RRH are through 10/16; WEL is through 10/15.

LGR is missing counts for 10/16.

RIS, RRH, PRD and WEL data for the last week are from the PUDs.

**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.

Two Week Transportation Summary

10/05/02 TO 10/18/02

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	8,196	144	4	88	16	8,448
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	8,174	144	4	86	16	8,424
	Sum of TotalProjectMortalities	22	0	0	2	0	24
LGS	Sum of NumberCollected	1,596	3	6	16	5	1,626
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	1,485	3	4	13	5	1,510
	Sum of TotalProjectMortalities	111	0	2	3	0	116
LMN	Sum of NumberCollected	557	3		22	170	752
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	0	0		0	166	166
	Sum of Numbertrucked	545	2		22	0	569
	Sum of TotalProjectMortalities	12	1		0	4	17
MCN	Sum of NumberCollected	6,964	4		76	16	7,060
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	1,056	0		4	0	1,060
	Sum of Numbertrucked	5,862	4		72	16	5,954
	Sum of TotalProjectMortalities	46	0		0	0	46
Total Sum of NumberCollected		17,313	154	10	202	207	17,886
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		1,056	0	0	4	166	1,226
Total Sum of Numbertrucked		16,066	153	8	193	37	16,457
Total Sum of TotalProjectMortalities		191	1	2	5	4	203

YTD Transportation Summary

TO: 10/18/02

		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	626,938	1,535,803	80,774	51,661	1,698,925	3,994,101	
	Sum of NumberBarged	567,550	1,483,798	80,608	49,501	1,627,988	3,809,445	
	Sum of NumberBypassed	210	38,152	5	7	65,895	104,269	
	Sum of NumberTrucked	51,417	9,995	36	595	3,567	65,610	
	Sum of TotalProjectMortalities	7,803	3,858	125	1,558	1,255	14,599	
LGS	Sum of NumberCollected	291,541	1,907,384	79,982	48,248	1,562,841	3,889,996	
	Sum of NumberBarged	282,631	1,904,701	79,281	47,412	1,559,479	3,873,504	
	Sum of NumberBypassed	0	0	0	0	0	0	
	Sum of NumberTrucked	7,636	1,043	128	139	1,234	10,180	
	Sum of TotalProjectMortalities	1,274	1,640	573	697	2,131	6,315	
LMN	Sum of NumberCollected	306,019	2,214,727	63,081	38,633	1,754,199	0	4,376,659
	Sum of NumberBarged	266,730	2,122,021	60,932	37,468	1,713,937	0	4,201,088
	Sum of NumberBypassed	29,272	68,125	1,994	208	34,413	0	134,012
	Sum of NumberTrucked	7,384	20,214	95	71	356	0	28,120
	Sum of TotalProjectMortalities	2,633	4,367	60	886	5,493	0	13,439
MCN	Sum of NumberCollected	5,374,405	2,205,143	111,899	910,053	464,672		9,066,172
	Sum of NumberBarged	1,785,415	792	2,094	4,976	979		1,794,256
	Sum of NumberBypassed	3,282,249	2,203,310	109,765	902,711	463,340		6,961,375
	Sum of NumberTrucked	266,593	41	0	1,464	51		268,149
	Sum of TotalProjectMortalities	40,114	1,000	40	901	302		42,357
Total Sum of NumberCollected		6,598,903	7,863,057	335,736	1,048,595	5,480,637	0	21,326,928
Total Sum of NumberBarged		2,902,326	5,511,312	222,915	139,357	4,902,383	0	13,678,293
Total Sum of NumberBypassed		3,311,731	2,309,587	111,764	902,926	563,648	0	7,199,656
Total Sum of NumberTrucked		333,030	31,293	259	2,269	5,208	0	372,059
Total Sum of TotalProjectMortalities		51,824	10,865	798	4,042	9,181	0	76,710

