



Fish Passage Center

Weekly Report #02 - 27

September 13, 2002

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SUMMARY OF EVENTS:

- From January through July 2002, actual runoff at Grand Coulee, The Dalles, and Lower Granite has averaged 108%, 97%, and 80% of normal, respectively.
- Dworshak has dropped outflows from 10.0 to 1.6 Kcfs over the last week (9-6-02 to 9-12-02).
- As of September 12th, 2002, the entire Upper Snake River System is at 16% of capacity.
- The Boise and Payette River systems are currently (9-12-02) at 29% and 57% of capacity, respectively.

Water: River flows within the Columbia Basin have been low for approximately the last six weeks. Currently, storage reservoirs along the Columbia and Snake Rivers are varied in operation; some are continuing to draft and others are refilling.

Grand Coulee has been refilling over the last week; beginning the week at 1284.0 feet (9-6-02) and ending at 1285.8 feet (9-12-02). Total outflows over the past week (9-6-02 to 9-12-02) have averaged 65.7 Kcfs.

The Libby Reservoir has held relatively steady over the past week (9-06-02 to 9-12-02); reservoir elevations have ranged from 2441.9 to 2441.8 feet. Outflows have been approximately steady at 6.0 Kcfs over the last week. Currently (9-12-02), Libby is at an elevation of 2441.8 feet. The current operation at Libby includes drafting approximately 140 Kaf in September.

The Dworshak Reservoir continues to draft. Over the last week, total outflows at Dworshak have dropped from 10.1 to 1.6 Kcfs (9-6-02 to 9-12-02). Currently (midnight, 9-12-02) Dworshak is at an elevation of 1519.4 feet, drafting 6.3 feet over the last week. Dworshak has completed its ramp down and

is currently operating at a minimum project discharge of 1.6 Kcfs..

Over the past week the Brownlee reservoir has maintained its elevation. During the week, outflows have varied between 7.6 and 13.0 Kcfs.

The Hungry Horse Reservoir remained relatively steady over the past week; beginning the week at an elevation of 3543.9 feet and ending the week at 3544.0 feet. Total outflows at Hungry Horse have been steady at approximately 4.0 Kcfs over the last week (9-6-02 to 9-12-02). Currently (midnight, 9-12-02) Hungry Horse is at an elevation of 3544.0 feet. The remaining few feet of water left over from summer draft at Hungry Horse will be released during the month of September.

From January through July 2002, actual runoff at Grand Coulee, The Dalles, and Lower Granite has averaged 108%, 97%, and 80% of normal, respectively.

Currently, as of September 12th, 2002, the entire Upper Snake River System is at 16% of capacity. Individually, American Falls is at 5% of capacity, Palisades is at 7% of capacity and Jackson Lake is at 38% of capacity.

The Boise and Payette River systems are currently (9-12-02) at 29% and 57% of capacity, respectively. Within these basins, the Cascade Reservoir is at 63% of full and Anderson Ranch is at 32% of full.

Smolt Monitoring: Low numbers of subyearling chinook are being captured at the dams in the Lower Snake River and Columbia River as the overall number of migrants continues to decline. At Granite the number of subyearling chinook was about 50% below last week with the average daily index at 600 this week compared to 1,300 last week. At other Snake River dams the numbers of subyearlings continued to decrease with Little Goose and Lower Monumental having average weekly indices of 77 and 38 respectively. At Rock Island Dam, in the mid-Columbia, the smolt monitoring ended for the season on August 31. In the lower Columbia, the passage index decreased at McNary from 3,400 per day last week to 1,600 per day this week. At John Day Dam passage index for subyearling chinook was down, with the index averaging 700 this week versus 1,180 last week. And, at Bonneville Dam subyearling chinook numbers were down slightly, with an average daily index this week of 650 versus 680 last week.

Adult Fish Passage: At Bonneville Dam, counts of adult fall chinook averaged 20,285 per day for the week with the cumulative count through September 12 at 362,242. This year's count of adult fall chinook was about 1.2 and 2.5 times greater than the respective year 2001 and 10-year average. The adult fall chinook passage at Bonneville Dam appeared to have peaked during this week (normal) and should begin tapering off during remainder of the season. The FPC did not receive information on "Tule" stock fall chinook that will be destined for Spring Creek NFH and other Bonneville pool tributaries; however, greater than 39,000 adult fall chinook have been tallied into Spring Creek NFH to date. At The Dalles, 157,397 Upriver Bright (URB) fall chinook have been counted with 88,755 now past McNary Dam. Passage of fall chinook at Ice Harbor Dam ranged between 250 and 600 per day for the week with the total through September 12 of 7,612. This year's count is about 1.9 times and 4.3 times greater than the respective 2001 and 10-year average. At Priest Rapids Dam, 12,924 adult fall chinook were counted through September 11. A large percentage of the wild component of the upriver run will be

destined for the Hanford Reach area (below Priest Rapids Dam) of the Mid-Columbia River. To date this season's run of fall chinook, both the tule and bright stocks have been strong and remain well above the 10-year average similar to the performance of the spring and summer run chinook races.

Steelhead passage at Bonneville Dam averaged 6,547 per day through the past week with a total of 380,143 counted through September 12. This total is 70.1% and 172% of the respective 2001 and 10-year average counts to date. Estimated wild steelhead in the passage total was 123,222 (based on visual missing adipose fin on the steelhead). To date, about 58.8% of the adult steelhead counted past Bonneville Dam have been counted upstream past The Dalles Dam with daily counts at The Dalles averaging near 5,500 per day. Numbers of adult steelhead counted into the Snake River and past Ice Harbor Dam averaged 1,815 per day with the cumulative count being 70,240 through the end of the reporting week. In the Mid-Columbia, the counts of steelhead at Priest Rapids Dam ranged from 56-157 per day and totaled 12,194 through September 11. The passage of steelhead into the Snake and Mid-Columbia Rivers was about 2.2 and 2.0 times greater than the respective 10-year averages to date. Overall, this season's run of steelhead has been very strong into the Snake and upper Mid-Columbia rivers.

Numbers of adult coho are beginning to increase at Bonneville Dam with the daily count rising from 540 to 3,410 by the end of the reporting week. The total count at Bonneville Dam is 20,710. About 2,100 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.

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.

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/30/02	112.1	0.1	111.5	0.0	111.0	0.0	105.7	0.0	106.4	0.0	94.4	7.2	89.8	4.7
08/31/02	77.3	0.1	82.5	0.0	89.5	0.0	92.7	0.0	96.9	0.0	110.3	9.7	113.3	7.0
09/01/02	36.0	0.1	43.7	0.0	46.1	0.0	49.3	0.0	51.6	0.0	56.5	1.9	56.8	1.1
09/02/02	67.8	0.1	63.7	0.0	64.9	0.0	65.3	0.0	66.4	0.0	69.4	1.6	67.6	1.0
09/03/02	84.3	0.1	91.6	0.0	92.5	0.0	91.5	0.0	93.2	0.0	89.4	1.9	91.3	1.0
09/04/02	70.1	0.1	68.3	0.0	68.1	0.0	65.9	0.0	68.2	0.0	76.2	1.3	76.1	0.9
09/05/02	69.2	0.1	64.9	0.0	69.9	0.0	70.7	0.0	72.3	0.0	82.8	1.8	86.7	1.0
09/06/02	63.9	0.1	66.5	0.0	67.4	0.0	70.3	0.0	71.3	0.0	67.7	1.7	69.1	1.0
09/07/02	54.7	0.1	52.9	0.0	54.8	0.0	53.0	0.0	54.5	0.0	61.2	1.6	62.2	1.0
09/08/02	52.0	0.1	50.8	0.0	52.5	0.0	51.5	0.0	50.9	0.0	44.7	1.8	47.2	0.7
09/09/02	84.5	0.2	84.0	0.0	86.8	0.0	89.5	0.0	93.7	0.0	89.1	2.0	82.6	0.9
09/10/02	64.7	0.2	70.0	0.0	73.5	0.0	72.3	0.0	72.4	0.0	81.4	1.6	84.3	0.8
09/11/02	58.9	0.2	60.2	0.0	62.3	0.0	62.9	0.0	64.6	0.0	69.9	1.6	67.2	0.8
09/12/02	81.1	0.1	77.8	0.0	77.8	0.0	76.4	0.0	67.2	0.0	68.5	1.5	67.1	1.0

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
08/30/02	12.1	1.8	9.9	12.7	32.8	0.0	30.2	0.0	29.5	0.0	29.2	13.0
08/31/02	12.2	1.8	9.9	8.4	30.9	0.0	31.3	0.0	30.2	0.0	29.6	16.2
09/01/02	10.3	0.0	9.4	7.6	24.0	0.0	23.7	0.0	23.4	0.0	21.3	0.3
09/02/02	10.3	0.0	10.5	10.4	23.6	2.2	13.6	0.0	15.0	0.0	12.6	0.0
09/03/02	10.1	0.0	10.2	13.6	26.3	0.0	25.6	0.0	23.6	0.0	22.3	0.0
09/04/02	10.0	0.0	10.6	13.9	28.0	0.0	27.4	0.0	29.2	0.0	30.1	0.0
09/05/02	10.0	0.0	9.0	12.9	27.6	0.0	28.5	0.0	28.8	0.0	27.7	0.0
09/06/02	10.0	0.0	8.9	9.2	27.4	0.0	26.2	0.0	27.0	0.0	25.0	0.0
09/07/02	10.0	0.0	9.2	7.5	23.5	0.0	22.5	0.0	22.7	0.0	20.8	0.0
09/08/02	10.1	0.0	9.2	8.2	21.5	0.0	21.4	0.0	22.1	0.0	19.8	0.0
09/09/02	10.1	0.0	9.0	8.6	24.4	0.0	25.5	0.0	25.4	0.0	24.8	0.0
09/10/02	10.1	0.0	10.0	8.6	23.8	0.0	22.0	0.0	22.4	0.0	21.3	0.0
09/11/02	5.5	0.0	10.7	12.6	20.8	0.0	21.2	0.0	22.4	0.0	20.4	0.0
09/12/02	1.6	0.0	---	---	21.2	0.0	20.6	0.0	19.9	0.0	19.1	0.0

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
08/30/02	131.2	0.0	129.7	26.2	129.4	50.8	142.6	89.1	0.0	45.6
08/31/02	139.0	0.0	139.8	43.0	139.9	54.9	159.4	120.6	0.0	32.2
09/01/02	114.7	0.0	111.0	0.0	113.2	0.0	123.7	1.8	3.8	111.4
09/02/02	96.7	0.0	95.8	0.0	102.2	0.0	100.4	1.7	1.8	90.1
09/03/02	95.7	0.0	94.1	0.0	100.1	0.0	100.7	1.6	1.1	91.2
09/04/02	132.1	0.0	122.9	0.0	123.2	0.0	119.0	1.9	9.6	100.6
09/05/02	100.9	0.0	101.8	0.0	107.6	0.0	115.1	1.8	5.9	100.8
09/06/02	105.5	0.0	106.5	0.0	113.2	0.0	111.9	1.8	7.4	95.8
09/07/02	93.1	0.0	87.9	0.0	90.7	0.0	95.3	2.0	1.3	85.3
09/08/02	73.0	0.0	73.6	0.0	74.5	0.0	88.1	1.4	0.0	79.8
09/09/02	71.9	0.0	75.8	0.0	84.9	0.0	89.2	1.5	0.0	81.0
09/10/02	120.8	0.0	113.9	0.0	110.8	0.0	108.8	1.8	9.6	90.7
09/11/02	96.8	0.0	101.6	0.0	111.2	0.0	107.4	1.7	6.3	92.5
09/12/02	201.8	0.0	80.5	0.0	80.0	0.0	83.4	1.6	4.9	70.3

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>	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		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/30	103	103	103	24	107	108	108	24	110	110	110	24	108	109	111	24	109	109	110	23
8/31	103	103	103	23	108	109	110	24	108	109	109	24	108	109	111	24	108	108	108	23
9/1	103	103	104	23	108	108	109	24	108	109	109	24	109	111	113	24	107	107	107	24
9/2	103	103	103	24	107	107	108	24	108	109	109	24	109	110	114	24	107	107	107	23
9/3	103	103	104	24	107	107	107	24	109	109	109	24	108	109	111	23	106	107	107	23
9/4	103	103	103	24	106	106	106	24	108	108	109	24	108	109	110	24	106	106	107	23
9/5	103	103	104	24	106	106	106	24	108	108	108	24	107	108	109	24	106	106	107	23
9/6	103	103	103	24	105	106	106	24	108	108	108	24	108	108	109	24	106	107	109	24
9/7	103	103	104	24	105	105	106	24	108	108	108	24	109	109	111	9	107	107	108	24
9/8	102	102	102	24	104	104	105	24	107	107	107	24	---	---	---	0	106	106	107	23
9/9	101	101	102	24	103	103	104	24	106	106	106	24	---	---	---	0	105	106	106	23
9/10	101	102	102	24	104	105	105	24	106	107	107	24	135	135	135	2	106	106	107	23
9/11	102	102	103	24	104	104	105	24	107	107	107	24	135	135	135	3	106	107	108	23
9/12	102	103	103	24	104	105	105	24	107	107	107	24	---	---	---	0	107	107	108	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>	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		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/30	109	110	111	21	108	109	109	23	108	108	108	23	108	108	108	24	108	108	108	23
8/31	108	108	108	23	108	108	108	24	107	107	107	24	107	107	107	23	107	107	108	23
9/1	107	107	108	24	107	107	108	24	106	107	107	24	107	107	107	24	107	107	107	24
9/2	107	108	108	23	107	107	108	23	106	107	108	23	107	107	107	24	107	107	108	24
9/3	107	107	108	23	106	106	107	24	106	106	106	24	106	106	107	23	106	106	107	21
9/4	106	107	108	23	105	106	106	24	104	105	105	24	104	104	105	24	104	105	105	24
9/5	107	108	109	23	105	105	105	24	104	105	105	24	104	104	104	11	104	104	104	11
9/6	107	108	109	24	105	105	106	24	104	105	106	24	---	---	---	0	---	---	---	0
9/7	106	106	107	7	105	106	106	24	104	105	105	24	---	---	---	0	---	---	---	0
9/8	---	---	---	0	105	105	106	24	104	105	105	24	---	---	---	0	---	---	---	0
9/9	---	---	---	0	104	104	104	24	103	104	104	24	---	---	---	0	---	---	---	0
9/10	---	---	---	0	105	106	106	24	104	105	105	24	---	---	---	0	---	---	---	0
9/11	---	---	---	0	106	107	108	24	105	106	107	24	---	---	---	0	---	---	---	0
9/12	---	---	---	0	106	107	107	24	105	106	107	24	---	---	---	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>	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		hr	Avg	Avg		hr	Avg	Avg		hr	Avg	Avg			hr	Avg	Avg	hr
8/30	107	108	108	24	---	---	---	0	108	108	110	24	---	---	---	0	108	108	109	24
8/31	106	107	107	23	---	---	---	0	107	107	108	24	---	---	---	0	106	107	112	24
9/1	105	106	107	23	---	---	---	0	105	105	106	24	---	---	---	0	106	107	109	24
9/2	106	107	108	24	---	---	---	0	103	103	104	24	---	---	---	0	105	105	108	24
9/3	106	106	107	22	---	---	---	0	103	104	104	24	---	---	---	0	103	103	105	24
9/4	103	104	105	24	---	---	---	0	103	104	105	24	---	---	---	0	102	102	102	24
9/5	103	103	104	11	---	---	---	0	103	104	106	24	104	104	105	11	102	103	104	24
9/6	---	---	---	0	---	---	---	0	104	105	106	24	104	105	105	15	103	104	104	24
9/7	---	---	---	0	---	---	---	0	103	103	104	24	103	103	104	12	103	103	104	24
9/8	---	---	---	0	---	---	---	0	101	101	102	24	102	102	103	11	102	102	103	24
9/9	---	---	---	0	---	---	---	0	102	103	104	24	102	102	103	14	102	102	104	24
9/10	---	---	---	0	---	---	---	0	104	106	107	24	103	103	103	14	103	103	104	24
9/11	---	---	---	0	---	---	---	0	105	106	108	24	104	104	104	14	103	104	105	24
9/12	---	---	---	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>Clrwrtr-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>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
8/30	108	108	109	24	104	104	106	24	103	103	104	24	104	105	105	24	---	---	---	0
8/31	107	109	112	24	103	104	104	24	103	103	103	24	104	105	106	24	---	---	---	0
9/1	107	109	111	24	102	103	103	24	101	101	101	24	---	---	---	0	---	---	---	0
9/2	105	106	106	24	101	101	102	24	101	101	102	24	102	104	104	24	---	---	---	0
9/3	104	104	105	24	101	101	102	24	101	102	103	24	103	104	105	24	---	---	---	0
9/4	103	103	104	24	99	100	100	24	101	101	102	24	102	103	104	24	---	---	---	0
9/5	103	103	104	24	99	100	100	24	101	101	102	24	102	103	104	24	---	---	---	0
9/6	103	104	105	24	100	100	101	23	101	101	102	24	---	---	---	0	---	---	---	0
9/7	103	104	104	24	99	100	100	24	101	101	101	24	---	---	---	0	---	---	---	0
9/8	103	103	104	24	98	99	100	24	100	100	101	24	101	102	103	24	---	---	---	0
9/9	102	103	104	24	97	98	98	24	100	100	100	24	101	102	103	24	---	---	---	0
9/10	103	104	105	24	100	101	101	24	100	101	101	24	102	103	104	24	---	---	---	0
9/11	104	105	105	24	101	101	102	24	102	103	108	24	103	105	108	24	---	---	---	0
9/12	---	---	---	0	101	101	101	21	106	108	109	24	100	101	101	24	---	---	---	0

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-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>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>			
8/30	103	104	105	24	109	110	111	24	103	104	104	24	102	103	107	24	100	100	101	24
8/31	103	105	106	24	106	107	107	24	102	102	103	24	101	102	103	24	99	99	100	24
9/1	102	104	105	24	105	106	107	24	101	102	102	24	100	101	101	24	99	99	99	24
9/2	103	105	106	24	107	109	110	24	102	104	109	24	101	102	102	24	99	100	101	24
9/3	102	104	105	24	106	107	109	24	101	101	101	24	101	102	102	24	100	100	101	24
9/4	102	104	105	24	104	104	105	24	100	100	101	24	101	102	102	24	99	99	100	24
9/5	102	103	104	24	104	104	106	24	100	101	102	22	101	101	101	24	99	99	100	24
9/6	102	103	105	24	104	104	105	24	101	102	102	24	101	101	102	24	98	99	99	24
9/7	102	103	105	24	103	103	104	24	101	101	101	24	100	100	101	24	98	98	99	24
9/8	101	103	105	24	103	105	107	24	100	100	102	24	99	99	99	24	97	98	98	24
9/9	101	103	105	24	104	105	107	24	99	100	100	24	99	100	102	24	97	97	98	24
9/10	102	104	106	24	105	107	110	24	99	100	101	24	100	101	102	24	97	98	98	24
9/11	102	104	106	24	107	109	113	24	99	100	101	24	100	101	103	24	97	98	98	24
9/12	103	105	108	24	107	107	108	24	99	100	101	24	101	102	104	24	98	98	98	24

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>					
	<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>			
8/30	101	102	102	24	100	100	102	24	103	103	104	24	107	109	110	24	106	107	108	24
8/31	101	101	102	24	100	100	104	24	102	103	104	24	107	110	111	24	107	109	112	24
9/1	100	101	101	24	99	100	103	24	102	103	104	24	104	106	111	24	107	109	110	24
9/2	101	101	101	24	100	101	102	24	102	102	103	24	103	104	105	24	106	107	109	24
9/3	101	101	101	24	100	100	104	24	101	102	103	24	102	102	103	24	104	105	105	24
9/4	100	101	101	24	99	100	105	24	101	102	103	23	101	101	102	23	104	105	107	24
9/5	100	100	102	24	99	99	100	24	101	101	102	24	101	101	103	24	103	105	105	24
9/6	100	101	102	24	99	100	100	24	100	101	102	24	101	101	102	24	102	103	106	24
9/7	99	100	101	24	99	100	102	24	99	100	100	24	101	101	103	16	101	102	103	24
9/8	99	99	99	24	98	98	99	24	98	98	99	24	---	---	---	0	101	102	104	24
9/9	99	99	102	24	99	101	116	24	99	100	102	24	---	---	---	0	100	101	102	24
9/10	100	101	103	24	98	98	99	10	99	100	103	24	---	---	---	0	101	103	106	24
9/11	100	101	103	24	---	---	---	0	98	99	100	24	---	---	---	0	101	103	104	24
9/12	102	103	104	24	---	---	---	0	100	102	103	24	---	---	---	0	103	104	106	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> Avg	<u>12 h</u> Avg	High	# hr	<u>24 h</u> Avg	<u>12 h</u> Avg	High	# hr	<u>24h</u> Avg	<u>12h</u> Avg	High	# hr	<u>24h</u> Avg	<u>12h</u> Avg	High	# hr	<u>24h</u> Avg	<u>AVG</u>	High	# hr
8/30	105	105	105	24	105	105	105	24	100	101	101	23	108	114	118	24	102	103	104	22
8/31	105	106	109	24	104	104	105	24	99	100	100	23	110	117	118	24	102	102	104	23
9/1	105	106	107	24	104	104	105	24	99	99	100	24	102	103	112	24	105	108	109	24
9/2	103	104	105	24	103	104	105	24	98	99	99	23	101	101	102	24	103	104	105	22
9/3	104	104	105	23	103	103	104	24	99	99	100	23	101	102	102	24	100	101	101	23
9/4	104	104	105	24	103	103	103	24	99	99	100	23	101	101	102	24	99	100	100	23
9/5	104	104	104	24	103	103	103	24	99	100	101	23	101	101	103	24	99	100	100	23
9/6	102	103	103	24	101	101	102	24	99	100	100	24	100	100	101	24	100	100	100	23
9/7	101	101	102	24	100	101	101	24	99	99	99	24	100	100	101	24	99	99	100	24
9/8	99	100	100	24	99	100	100	24	97	98	98	23	99	100	100	24	98	98	99	23
9/9	101	102	104	24	99	100	100	24	98	98	100	23	100	100	101	24	98	98	99	23
9/10	103	104	105	24	100	101	101	24	99	100	102	23	100	101	103	24	99	100	100	20
9/11	103	104	105	24	100	101	101	24	100	100	101	23	101	102	103	24	100	100	100	17
9/12	102	103	104	24	101	101	102	24	99	100	101	23	102	102	103	24	100	100	101	17

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashugal</u>						
	<u>24 h</u> Avg	<u>12 h</u> Avg	High	# hr	<u>24 h</u> Avg	<u>12 h</u> Avg	High	# hr	<u>24h</u> Avg	<u>12h</u> Avg	High	# hr	<u>24h</u> Avg	<u>12h</u> Avg	High	# hr
8/30	112	113	113	24	106	107	108	23	111	114	117	22	107	107	110	24
8/31	112	113	113	24	104	104	105	23	114	114	116	23	110	112	113	24
9/1	106	108	111	24	103	103	104	24	106	109	116	24	110	111	113	24
9/2	103	105	106	24	105	105	106	23	104	105	105	23	104	105	105	24
9/3	100	101	102	24	104	105	105	23	104	104	105	23	104	104	105	24
9/4	99	100	100	24	103	103	104	23	103	103	104	23	104	105	110	24
9/5	100	101	101	24	101	101	101	22	101	102	102	23	103	104	110	24
9/6	100	100	101	24	100	100	101	24	101	102	102	24	102	102	103	24
9/7	100	100	100	24	99	99	100	24	100	101	101	24	100	101	101	24
9/8	99	100	100	24	99	99	99	23	100	100	101	23	100	100	101	24
9/9	100	100	100	24	99	99	100	23	101	102	103	23	100	101	102	24
9/10	100	100	101	24	100	100	100	23	101	101	102	23	102	103	103	24
9/11	100	101	101	24	100	101	101	22	101	102	102	23	102	102	103	24
9/12	100	101	101	24	101	101	101	23	102	102	103	23	102	102	103	24

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: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

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

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/30/2002 *	---	---	---	---	0	0	2	0	0	12	0
08/31/2002 *	---	---	---	---	0	0	4	0	0	0	0
09/01/2002	---	---	---	---	0	0	2	---	0	0	11
09/02/2002	---	---	---	---	0	0	2	---	0	0	0
09/03/2002	---	---	---	---	0	0	0	---	7	0	0
09/04/2002	---	---	---	---	0	1	0	---	14	0	0
09/05/2002	---	---	---	---	0	0	0	---	0	0	4
09/06/2002	---	---	---	---	0	0	---	---	5	0	0
09/07/2002	---	---	---	---	0	0	---	---	0	0	0
09/08/2002	---	---	---	---	0	0	---	---	7	0	0
09/09/2002 *	---	---	---	---	0	0	---	---	0	0	0
09/10/2002	---	---	---	---	0	0	---	---	0	0	0
09/11/2002	---	---	---	---	0	0	0	---	0	0	0
09/12/2002 *	---	---	---	---	0	0	---	---	10	0	0
Total:	0	0	0	0	0	1	10	0	43	12	15
# Days:	0	0	0	0	14	14	8	2	14	14	14
Average:	0	0	0	0	0	0	1	0	3	1	1
YTD	38,199	29,095	8,013	7,847	2,459,180	2,843,812	2,221,924	28,982	3,519,412	2,104,938	3,328,091

COMBINED SUBYEARLING CHINOOK

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/30/2002 *	---	---	---	---	1,944	243	261	88	3,686	749	1,293
08/31/2002 *	---	---	---	---	2,160	248	183	37	5,170	1,143	771
09/01/2002	---	---	---	---	1,292	258	171	---	4,700	1,448	911
09/02/2002	---	---	---	---	820	136	80	---	3,280	1,610	493
09/03/2002	---	---	---	---	824	94	42	---	2,853	971	300
09/04/2002	---	---	---	---	752	222	59	---	2,314	868	380
09/05/2002	---	---	---	---	1,280	224	210	---	1,786	1,480	601
09/06/2002	---	---	---	---	984	146	---	---	1,980	793	411
09/07/2002	---	---	---	---	704	90	---	---	2,360	820	179
09/08/2002	---	---	---	---	600	94	---	---	1,860	326	765
09/09/2002 *	---	---	---	---	468	74	---	---	1,600	227	896
09/10/2002	---	---	---	---	660	49	---	---	793	767	843
09/11/2002	---	---	---	---	492	53	38	---	1,301	1,380	525
09/12/2002 *	---	---	---	---	456	35	---	---	1,400	655	901
Total:	0	0	0	0	13,436	1,966	1,044	125	35,083	13,237	9,269
# Days:	0	0	0	0	14	14	8	2	14	14	14
Average:	0	0	0	0	960	140	131	63	2,506	946	662
YTD	0	4	26	3,488	726,631	332,415	304,245	25,466	8,336,856	3,464,588	6,991,600

Two-Week Summary of Passage Indices COMBINED COHO

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/30/2002 *	---	---	---	---	0	1	0	0	0	0	0
08/31/2002 *	---	---	---	---	4	2	1	0	0	0	0
09/01/2002	---	---	---	---	0	2	3	---	0	0	0
09/02/2002	---	---	---	---	0	1	3	---	0	0	0
09/03/2002	---	---	---	---	0	2	2	---	0	0	0
09/04/2002	---	---	---	---	0	2	1	---	0	0	0
09/05/2002	---	---	---	---	0	2	2	---	0	0	4
09/06/2002	---	---	---	---	0	3	---	---	0	0	4
09/07/2002	---	---	---	---	0	3	---	---	0	0	4
09/08/2002	---	---	---	---	0	5	---	---	0	0	0
09/09/2002 *	---	---	---	---	0	3	---	---	0	0	0
09/10/2002	---	---	---	---	0	1	---	---	0	0	0
09/11/2002	---	---	---	---	0	3	0	---	0	0	0
09/12/2002 *	---	---	---	---	0	5	---	---	0	0	0
Total:	0	0	0	0	4	35	12	0	0	0	12
# Days:	0	0	0	0	14	14	8	2	14	14	14
Average:	0	0	0	0	0	3	2	0	0	0	1
YTD	0	0	0	101	124,060	104,539	66,178	86,227	201,998	315,280	2,331,573

COMBINED STEELHEAD

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/30/2002 *	---	---	---	---	4	0	116	1	14	0	0
08/31/2002 *	---	---	---	---	24	13	64	0	0	0	0
09/01/2002	---	---	---	---	4	1	61	---	0	0	0
09/02/2002	---	---	---	---	8	1	7	---	0	0	0
09/03/2002	---	---	---	---	9	2	4	---	0	0	0
09/04/2002	---	---	---	---	0	3	2	---	0	0	0
09/05/2002	---	---	---	---	0	0	7	---	0	0	0
09/06/2002	---	---	---	---	0	0	---	---	0	0	0
09/07/2002	---	---	---	---	0	0	---	---	0	0	0
09/08/2002	---	---	---	---	0	0	---	---	0	0	0
09/09/2002 *	---	---	---	---	0	0	---	---	7	0	0
09/10/2002	---	---	---	---	0	0	---	---	0	0	0
09/11/2002	---	---	---	---	0	0	2	---	0	0	0
09/12/2002 *	---	---	---	---	0	1	---	---	0	0	0
Total:	0	0	0	0	49	21	263	1	21	0	0
# Days:	0	0	0	0	14	14	8	2	14	14	14
Average:	0	0	0	0	4	2	33	1	2	0	0
YTD	2,833	32,043	3,494	11,810	2,603,027	2,273,385	1,794,519	28,714	794,521	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

COMBINED SOCKEYE

Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
08/30/2002 *	---	---	---	---	4	0	0	1	14	23	0
08/31/2002 *	---	---	---	---	0	1	0	8	0	0	0
09/01/2002	---	---	---	---	0	1	0	---	10	10	0
09/02/2002	---	---	---	---	0	0	0	---	0	10	4
09/03/2002	---	---	---	---	0	0	1	---	7	13	0
09/04/2002	---	---	---	---	0	2	0	---	0	0	0
09/05/2002	---	---	---	---	8	0	0	---	0	0	0
09/06/2002	---	---	---	---	4	0	---	---	60	13	0
09/07/2002	---	---	---	---	0	0	---	---	100	0	0
09/08/2002	---	---	---	---	4	2	---	---	87	0	0
09/09/2002 *	---	---	---	---	0	0	---	---	46	0	0
09/10/2002	---	---	---	---	0	0	---	---	34	0	0
09/11/2002	---	---	---	---	4	0	0	---	94	0	0
09/12/2002 *	---	---	---	---	0	0	---	---	85	13	0
Total:	0	0	0	0	24	6	1	9	537	82	4
# Days:	0	0	0	0	14	14	8	2	14	14	14
Average:	0	0	0	0	2	0	0	5	38	6	0
YTD	18	0	0	261	77,590	66,611	38,982	20,629	1,409,988	934,108	848,192

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: 09/12

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	362,242	19,348	295,250	39,015	147,698	15,489
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	157,397	11,888	105,879	19,245	69,389	8,121
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	88,755	8,705	62,390	12,973	46,171	5,122
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	68,194	7,191	40,255	8,921	31,271	3,516
IHR	85,207	1,826	171,173	3,026	32,988	1,807	26,607	2,437	15,270	2,397	5,356	857	7,612	1,209	3,932	1,318	1,763	329
LMN	76,304	1,537	180,787	1,784	32,792	1,811	23,743	1,686	19,287	1,612	5,597	792	6,112	1,051	3,448	1,122	1,243	294
LGS	77,232	1,815	174,823	2,990	31,528	1,921	20,844	2,253	15,929	2,803	5,147	995	4,820	515	2,232	646	740	162
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	4,086	455	1,642	721	565	154
PRD	34,083	196	50,379	987	14,082	343	96,326	1,455	53,170	3,207	18,552	1,069	12,924	774	8,865	2,125	9,615	844
RIS	24,017	827	39,785	1,761	10,725	505	86,825	4,762	48,844	13,086	16,340	3,328	7,087	540	3,975	2,332	2,750	720
RRH	9,999	161	15,895	543	3,314	135	73,104	2,807	39,174	5,548	9,858	1,394	5,233	526	3,795	1,347	1,935	637
WEL	7,587	39	9,989	892	1,799	176	62,564	389	33,244	4,882	6,718	1,165	2,247	95	2,297	880	756	231

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	20,710	1,828	151,578	3,746	24,273	1,396	49,605	114,934	50,283	380,143	542,113	220,906	123,222
TDA	2,111	935	13,183	721	3,079	305	40,554	102,560	40,061	223,549	309,374	114,344	75,966
JDA	704	119	4,741	492	1,479	197	41,913	107,851	43,271	162,113	191,531	79,495	55,001
MCN	130	60	747	246	346	56	39,173	97,170	39,888	113,860	147,653	56,072	39,882
IHR	2	0	85	9	6	0	60	38	13	70,240	67,758	31,714	19,332
LMN	2	0	5	0	0	2	45	32	21	65,166	64,829	26,789	19,486
LGS	1	0	9	0	0	0	38	71	24	53,428	45,891	17,427	17,471
LWG	0	0	0	6	0	0	51	36	23	51,119	38,903	17,594	16,189
PRD	107	55	58	48	18	6	47,882	111,316	48,820	12,291	18,303	6,289	***
RIS	47	0	63	0	14	0	44,316	104,834	43,418	10,689	15,776	5,076	7,081
RRH	30	0	45	0	8	0	12,367	66,213	27,235	7,818	11,306	3,448	4,564
WEL	4	0	0	0	0	0	10,577	74,479	27,083	6,008	8,837	2,374	1,851

RIS, RRH, and WEL are through 09/11

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

08/31/02 TO 09/13/02

		Species						
Site	Data	CH0	CH1	CO	SO	ST	Grand Total	
LGR	Sum of NumberCollected	13,352			4	24	48	13,428
	Sum of NumberBarged	0			0	0	0	0
	Sum of NumberBypassed	0			0	0	0	0
	Sum of Numbertrucked	14,592			8	25	48	14,673
	Sum of TotalProjectMortalities	78			0	3	0	81
LGS	Sum of NumberCollected	1,966	1	35	6	21		2,029
	Sum of NumberBarged	0	0	0	0	0		0
	Sum of NumberBypassed	0	0	0	0	0		0
	Sum of Numbertrucked	2,024	1	35	6	22		2,088
	Sum of TotalProjectMortalities	27	0	2	0	0		29
LMN	Sum of NumberCollected	1,044	10	12	1	263		1,330
	Sum of NumberBarged	0	0	0	0	0		0
	Sum of NumberBypassed	0	0	0	0	259		259
	Sum of Numbertrucked	1,173	19	15	1	0		1,208
	Sum of TotalProjectMortalities	128	0	1	0	4		133
MCN	Sum of NumberCollected	35,083	43			537	21	35,684
	Sum of NumberBarged	0	0			0	0	0
	Sum of NumberBypassed	0	0			0	0	0
	Sum of Numbertrucked	33,240	27			448	20	33,735
	Sum of TotalProjectMortalities	457	6			4	1	468
Total Sum of NumberCollected		51,445	54	51	568	353		52,471
Total Sum of NumberBarged		0	0	0	0	0		0
Total Sum of NumberBypassed		0	0	0	0	259		259
Total Sum of Numbertrucked		51,029	47	58	480	90		51,704
Total Sum of TotalProjectMortalities		690	6	3	7	5		711

YTD Transportation Summary

TO: 09/13/02

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	605,342	1,535,659	80,770	51,497	1,698,889	3,972,157
	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	29,437	9,851	32	436	3,531	43,287
	Sum of TotalProjectMortalities	7,733	3,858	125	1,553	1,255	14,524
LGS	Sum of NumberCollected	288,744	1,907,378	79,949	48,200	1,562,816	3,887,087
	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	4,942	1,037	92	97	1,209	7,377
	Sum of TotalProjectMortalities	1,136	1,640	571	691	2,130	6,168
LMN	Sum of NumberCollected	304,200	2,214,711	63,073	38,584	1,753,642	4,374,210
	Sum of NumberBarged	266,730	2,122,021	60,932	37,468	1,713,937	4,201,088
	Sum of NumberBypassed	29,272	68,125	1,994	208	33,870	133,469
	Sum of NumberTrucked	5,642	20,203	87	23	356	26,311
	Sum of TotalProjectMortalities	2,556	4,362	60	885	5,479	13,342
MCN	Sum of NumberCollected	5,354,001	2,205,139	111,899	909,617	464,641	9,045,297
	Sum of NumberBarged	1,785,415	792	2,094	4,976	979	1,794,256
	Sum of NumberBypassed	3,281,193	2,203,310	109,765	902,707	463,340	6,960,315
	Sum of NumberTrucked	246,089	27	0	951	20	247,087
	Sum of TotalProjectMortalities	39,884	1,000	40	897	302	42,123
Total Sum of NumberCollected		6,552,287	7,862,887	335,691	1,047,898	5,479,988	21,278,751
Total Sum of NumberBarged		2,902,326	5,511,312	222,915	139,357	4,902,383	13,678,293
Total Sum of NumberBypassed		3,310,675	2,309,587	111,764	902,922	563,105	7,198,053
Total Sum of NumberTrucked		286,110	31,118	211	1,507	5,116	324,062
Total Sum of TotalProjectMortalities		51,309	10,860	796	4,026	9,166	76,157

