



Fish Passage Center

Weekly Report #02 - 22

August 9, 2002

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SUMMARY OF EVENTS:

- **The BiOp summer flow objectives are 51 Kcfs at Lower Granite and 200 Kcfs at McNary. To date, summer flows have averaged 45.9 Kcfs at Lower Granite and 215.4 Kcfs at McNary; therefore, flow objectives are being met on a seasonal basis only at McNary. Weekly average flows between 8-2-02 and 8-8-02 at Lower Granite and McNary were 26.9 and 156.3 Kcfs; therefore, flow objectives are not being at either project on a weekly basis.**
- **Combined storage in the Upper Snake River System is at 33% of capacity.**

Water Year 2002 has been approximately average in terms of cumulative precipitation. Weekly precipitation totals have been updated through the 31st of July (Table 1). Precipitation throughout July has been well below normal, ranging between 21% and 68% of average within the Columbia Basin.

Flows within the Columbia Basin are currently low. Storage reservoirs along the Columbia and Snake Rivers are beginning to draft.

The Grand Coulee Reservoir has drafted 2.5 feet over last week; beginning the week at 1285.6 feet (8-2-02) and ending at 1283.1 feet (8-8-02). Total outflows have averaged 121 Kcfs over the past week (8-2-02 to 8-8-02). Based upon the April-August July Final Runoff Volume forecast (87.8 Maf), the end of August draft limit at Grand Coulee is 1278.0 feet.

The Libby reservoir has drafted 3.0 feet over the past week (8-2-02 to 8-8-02); reservoir elevations have ranged from 2454.4 to 2451.4 feet. Outflows have ranged between 21.9 Kcfs to elevation 2444

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

Location	July 2002		Cumulative 10/1/01 – 7/31/02	
	Observed (inches)	% Avg	Observed (inches)	% Avg
Columbia Above Coulee	1.21	68	22.14	99
Snake R. Above Ice Harbor	0.38	41	13.83	86
Columbia Above The Dalles	0.73	59	19.99	96
Kootenai	1.28	67	20.85	91
Clark Fork	0.65	54	15.86	103
Flathead	0.98	61	21.02	103
Pend Oreille/Spokane	0.73	53	31.70	111
Central Washington	0.15	40	7.33	88
Snake R. Plain	0.23	38	7.06	69
Clearwater	0.52	36	29.22	103
SW Washington Cascades/Cowlitz	0.33	24	71.69	107
Willamette Valley	0.17	21	56.12	99

feet by August 31st, 2002. The BiOp draft limit at Libby is 2439 feet by August 31st; therefore, five feet of water is projected to remain in the reservoir after August 31st. According to the tentative operation, an amount of water equivalent to the difference in storage between elevation 2444 and 2439 feet (218 Kaf) will be released from Canadian Storage. This operation is in response to SOR #2002-MT-1 drafted by the State of Montana. As currently outlined, the operational plan at Libby should not limit summer Columbia River flows.

The Dworshak reservoir continues to draft. Over the last week, total outflows at Dworshak have ranged between 13.6 and 13.7 Kcfs (8-2-02 to 8-8-02) to supplement flows and temperatures at Lower Granite. Operations at Dworshak continue to involve spilling between 3.8 and 3.9 Kcfs of reservoir water. Currently (midnight, 8-8-02) Dworshak is at an elevation of 1567.9 feet, drafting 7.5 feet over the last week. At the August 7th TMT Meeting fisheries managers agreed to increase the temperature of outflow water at Dworshak from approximately 45°F to 48°F. Additionally, discussions took place concerning the possibility of drafting Dworshak below elevation 1520 feet to provide a full 200 Kaf for September flows.

Over the past week, the Brownlee reservoir has remained relatively steady, beginning the week at 2071.7 feet and ending the week at 2071.4 feet. During the week, outflows have varied between 6.9 and 8.8 Kcfs.

The Hungry Horse Reservoir continues to draft; beginning the week at an elevation of 3556.6 feet and ending the week at 3554.2 feet. Total outflows at Hungry Horse have ranged between 5.9 and 6.0 Kcfs over the last week (8-2-02 to 8-8-02). Currently (midnight, 8-8-02) Hungry Horse is at an elevation of 3554.2 feet. The current operational plan at Hungry Horse includes releasing 6.0 Kcfs until 8-25-02, then decreasing outflows to 4 Kcfs through the remainder of August. According to the 2000 Biological Opinion, the Hungry Horse reservoir can draft to elevation 3540 feet by the end of August for summer flow augmentation. The latest

SSARR (8-6-02) issued by the COE has Hungry Horse drafting to an elevation of 3545 feet by August 31st 2002, five feet above the BiOp draft limit of 3540 feet. The remaining five feet of water in Hungry Horse will be released during the month of September.

The BiOp summer flow objective season began at Lower Granite on 6-21-02 and at McNary on 7-1-02. The summer objectives are 51 Kcfs at Lower Granite and 200 Kcfs at McNary. To date, summer flows have averaged 45.9 Kcfs at Lower Granite and 215.4 Kcfs at McNary. Summer BiOp flow objectives are being met at McNary, but not Lower Granite, on a seasonal basis. Over the past week (8-2-02 to 8-8-02), flows have averaged 26.9 Kcfs at Lower Granite and 156.3 Kcfs at McNary. Therefore, on a weekly basis, flow objectives are not being met at either McNary or Lower Granite.

Currently, as of August 8th, 2002, the entire Upper Snake River System is at 33% of capacity. Most reservoirs on the Upper Snake River have been drafting. Individually, American Falls is at 18% of capacity, Palisades is at 23% of capacity, Jackson Lake is at 63% of capacity, Island Park is at 43% of capacity, Lake Walcott is at 101% of capacity, Milner is at 98% of capacity, and Grassy Lake is at 87% of capacity.

Smolt Monitoring: The numbers of subyearling chinook being captured at the dams in the Lower Snake and Lower Columbia continued to decline this past week at all sites. At Lower Granite Dam this past week the, number of subyearling chinook decreased compared to last week with the average daily index at 2,000 this week compared to 4,700 last week. At Rock Island Dam the subyearling chinook index decreased compared to last week, with 294 average daily index this week compared to 385 daily last week. In the lower Columbia, passage of subyearlings at McNary continued to declined with an average daily index of 19,000 compared to 28,000 per day last week. At John Day Dam passage index for subyearling chinook was down also, with the index averaging 3,900 this week versus 8,100 last week. And at

Bonneville Dam subyearling chinook numbers decreased as well with an average daily index this week of 8,900 versus 26,000 last week.

Adult Fish Passage: At Bonneville Dam, counts of adult fall chinook averaged 569 per day for the week with the cumulative count through August 8 at 4,627. This year's count of adult fall chinook is about equal the 2001 count and about 1.8 times greater than the 10-year average through the 8th. These counts of fall chinook began August 1 so these fish are just beginning for the 2002 season. At McNary Dam, the adult summer chinook count averaged near 500 per day through the week with a total count of 109,446 through August 8. The Snake River count of adult summer chinook at Ice Harbor Dam totaled 26,509 through August 8, with daily counts averaging less than 30 per day at the Snake River dams. In the Mid-Columbia, the cumulative count of adult summer chinook at Priest Rapids Dam was 89,792 through August 7, remaining about 1.8 times and 5.0 times greater than the respective 2001 and 10-year average. At Rock Island Dam about 76,000 have been counted through August 7 with 66,300 counted above Rocky Reach Dam. Of the 49,600 over Bonneville Dam, about 45,500 sockeye have passed Priest Rapids Dam to date. The number of sockeye counted at Rocky Reach Dam (near 16,000 through August 7) will be destined for Lake Osoyoos. Based on the Rock Island

count and subtracting off the Rocky Reach count should give an estimated number of sockeye returning to Lake Wenatchee. In the Snake River, at least 52 adult sockeye have been counted at Lower Granite Dam through August 8. These sockeye should be destined for the upper Salmon River area (Redfish L, Alturas L, or Pettit L).

Steelhead passage at Bonneville Dam averaged 6,617 per day through the past week with a total of 196,478 counted through August 8. This total is 61% and 186% of the respective 2001 and 10-year average counts to date. Estimated wild steelhead in the passage total was 75,103 (based on visual missing adipose fin on the steelhead). Adult steelhead are moving upstream into the Snake River with numbers reducing this week to about 300 per day passing Ice Harbor Dam; the total through August 8 was 20,558. In the Mid-Columbia, the counts of steelhead at Priest Rapids Dam ranged from 180-347 per day and total 4,838 through August 7. The passage of steelhead into the Snake and Mid-Columbia Rivers remains about double the 10-year average to date.

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. Preliminary hatchery release totals are listed in the Table below the Snake, Mid-Columbia, and Lower Columbia River Zones.

Hatchery Release Totals by River Zone for 2002 Migration Season

	Spr Chin	SumChin	F Chin	Steelhd	Coho	Sockeye	Total
Snake	10,226,650	1,677,497	3,665,801	9,481,688	840,000	182,835	26,074,471
MidCol	3,926,275	3,527,243	10,913,482	1,312,693	2,065,603	308,042	22,053,338
LowCol	5,754,845		26,343,158	620,029	6,116,269		38,834,301
Total	19,907,770	5,204,740	40,922,441	11,414,410	9,021,872	490,877	86,962,110

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
07/26/02	111.5	0.2	114.4	0.0	119.3	8.9	122.2	20.5	125.4	31.1	134.6	47.0	132.0	64.1
07/27/02	95.1	0.2	99.4	0.0	103.5	7.9	103.0	19.1	102.5	29.5	104.6	36.7	106.6	55.6
07/28/02	97.0	0.2	98.8	0.0	105.7	7.8	107.0	17.4	107.9	24.0	117.7	41.5	115.4	61.0
07/29/02	136.0	0.2	127.5	0.0	129.2	13.0	129.0	19.9	127.1	32.9	143.5	49.4	153.9	74.3
07/30/02	142.5	0.2	143.6	0.0	147.7	16.4	143.2	22.3	141.9	32.3	146.7	52.1	140.8	73.1
07/31/02	133.4	0.1	140.5	0.0	151.7	16.3	149.2	25.3	147.9	33.2	161.8	56.6	161.6	87.4
08/01/02	127.2	0.1	128.4	0.0	137.1	8.9	138.5	20.3	137.8	26.6	137.1	47.9	135.4	68.5
08/02/02	134.4	0.1	141.1	0.0	145.4	9.0	146.1	17.8	144.1	25.7	155.0	54.1	152.3	70.2
08/03/02	109.3	0.1	112.1	0.0	116.1	8.1	117.5	16.4	120.4	24.5	124.8	43.5	125.2	65.7
08/04/02	94.8	0.1	91.0	0.0	93.5	7.0	92.4	15.8	93.4	22.1	96.5	33.9	97.7	49.4
08/05/02	112.3	0.1	114.9	0.0	114.0	7.8	116.2	22.4	118.2	30.1	129.7	45.6	130.2	69.3
08/06/02	120.4	0.1	123.2	0.0	123.1	8.2	120.8	19.9	118.9	29.2	115.6	40.7	111.9	61.8
08/07/02	136.0	0.2	140.7	0.0	144.2	8.8	143.1	19.2	141.3	29.7	151.8	53.3	150.5	81.7
08/08/02	140.3	0.1	136.2	0.0	147.3	10.4	147.7	20.7	149.2	28.6	159.9	55.8	159.0	84.5

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
07/26/02	13.6	3.9	8.8	7.2	30.2	0.0	30.5	0.0	32.2	0.0	34.7	28.8
07/27/02	13.6	3.9	7.4	7.4	27.0	0.0	25.7	0.0	24.6	0.0	26.6	20.6
07/28/02	13.6	3.9	8.0	7.6	29.0	0.0	30.1	0.0	31.3	0.0	34.6	28.7
07/29/02	13.6	3.9	7.9	7.4	28.3	0.0	29.3	0.0	29.1	0.0	31.5	25.7
07/30/02	13.2	3.9	8.1	10.3	26.1	0.0	27.3	0.0	28.4	0.0	33.8	27.9
07/31/02	13.6	3.8	7.5	7.7	31.6	0.0	30.6	0.0	31.3	0.0	32.2	26.3
08/01/02	13.6	3.8	6.9	7.3	25.9	0.0	26.3	0.0	25.8	0.0	27.2	21.1
08/02/02	13.6	3.9	7.6	7.7	28.1	0.0	28.5	0.0	28.2	0.0	30.6	24.9
08/03/02	13.6	3.9	7.6	7.7	25.4	0.0	24.3	0.0	26.0	0.0	28.0	22.3
08/04/02	13.6	3.8	7.6	7.9	25.8	0.0	25.8	0.0	25.8	0.0	30.3	24.9
08/05/02	13.7	3.8	7.8	9.2	26.7	0.0	27.0	0.0	27.6	0.0	32.1	26.2
08/06/02	13.7	3.8	7.8	7.6	28.8	0.0	30.1	0.0	31.2	0.0	31.7	26.1
08/07/02	13.7	3.8	7.1	9.0	26.3	0.0	27.8	0.0	27.5	0.0	30.9	25.3
08/08/02	13.7	3.8	---	---	27.4	0.0	25.7	0.0	26.1	0.0	26.6	20.9

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		
07/26/02	158.1	4.0	151.1	44.6	150.6	59.4	169.3	91.9	0.0	70.6
07/27/02	161.7	6.7	159.8	28.9	154.0	57.8	171.7	138.5	0.0	26.5
07/28/02	153.5	9.4	141.4	42.7	143.0	51.0	162.0	138.6	---	16.4
07/29/02	169.5	14.4	176.9	63.9	178.1	66.5	165.6	95.1	1.1	63.9
07/30/02	180.8	24.2	187.5	55.3	184.0	69.5	198.1	95.9	0.6	94.8
07/31/02	175.1	28.3	168.6	49.6	162.1	62.4	167.5	97.1	0.1	63.7
08/01/02	165.3	4.4	162.9	47.3	163.9	63.7	175.9	99.7	0.2	69.3
08/02/02	160.6	0.1	163.0	36.3	155.6	58.7	166.6	128.6	0.3	31.0
08/03/02	160.3	0.0	166.7	50.0	167.6	65.5	171.2	132.8	0.8	30.9
08/04/02	160.9	0.0	143.3	52.5	139.6	53.0	151.2	91.2	0.0	53.2
08/05/02	150.1	0.0	163.9	48.4	159.6	62.5	178.9	91.8	0.6	79.8
08/06/02	142.8	0.0	155.9	34.3	154.8	61.7	171.4	133.9	0.4	30.4
08/07/02	149.3	0.0	150.1	43.3	149.3	59.8	148.7	110.5	0.2	31.2
08/08/02	201.8	0.0	174.9	55.7	168.4	66.9	172.4	133.9	0.1	31.5

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
McNary Dam											
	08/01/02	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	08/05/02	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	08/08/02	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	07/30/02	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	08/01/02	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	08/06/02	Subyearling Chinook	75	0	0	0.00%	0.00%	0	0	0	0
	08/08/02	Subyearling Chinook	79	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	08/01/02	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0
	08/05/02	Subyearling Chinook	100	4	3	3.00%	0.00%	3	0	0	0
	08/08/02	Subyearling Chinook	100	1	1	1.00%	0.00%	1	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 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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>		
7/26	107	107	108	24	---	---	---	0	122	122	122	24	119	119	119	24	118	118	118	24
7/27	107	107	108	24	---	---	---	0	121	121	122	24	119	119	120	24	117	117	118	23
7/28	107	107	108	23	---	---	---	0	121	121	121	24	118	119	120	24	116	116	117	23
7/29	107	107	108	24	---	---	---	0	121	121	121	24	118	118	119	24	116	116	117	23
7/30	107	107	108	24	117	117	123	8	121	121	121	24	118	119	119	24	117	117	118	23
7/31	107	107	108	23	114	115	115	24	120	120	120	24	118	118	119	24	116	116	117	23
8/1	106	106	107	22	114	114	115	24	120	120	121	24	117	118	119	24	116	117	117	23
8/2	107	107	107	24	114	115	115	24	120	120	121	24	117	118	119	24	117	117	117	24
8/3	106	106	107	22	114	114	115	24	120	120	120	24	117	118	118	24	116	116	117	24
8/4	105	105	106	24	113	113	114	24	119	120	120	24	116	118	119	24	115	116	116	23
8/5	107	108	109	24	113	113	114	24	---	---	---	0	115	115	117	24	115	115	116	24
8/6	109	109	110	20	113	113	114	17	118	118	119	16	118	118	119	16	114	114	115	19
8/7	109	109	110	24	113	113	114	24	117	117	118	24	114	114	116	24	112	113	113	23
8/8	106	109	110	24	112	112	113	24	116	117	117	24	113	114	115	24	112	112	113	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>		
7/26	118	118	119	24	116	117	117	24	117	117	118	24	114	115	115	24	115	115	116	24
7/27	117	118	119	23	115	115	116	24	116	116	117	24	113	114	114	23	115	115	115	23
7/28	116	116	118	23	114	115	115	24	115	115	116	24	113	113	113	24	115	115	115	24
7/29	116	116	116	23	113	114	114	22	115	115	117	22	111	112	112	24	113	115	115	24
7/30	115	116	117	23	114	115	115	22	116	117	118	22	111	112	112	24	111	111	111	24
7/31	116	116	117	23	113	114	114	24	115	116	119	24	112	112	113	24	111	112	112	24
8/1	115	116	116	23	115	115	116	24	115	116	117	24	114	115	115	23	111	112	112	23
8/2	116	116	117	24	115	115	115	24	116	116	117	24	113	114	115	24	113	114	115	24
8/3	116	117	118	24	115	116	117	24	116	117	117	24	113	113	114	24	113	113	114	24
8/4	114	114	115	23	114	115	115	24	115	115	116	24	114	114	114	24	113	114	114	23
8/5	114	115	116	24	112	112	113	24	113	114	114	24	113	113	113	23	113	114	114	23
8/6	114	114	115	19	112	113	114	19	113	114	114	19	111	111	112	19	112	112	112	19
8/7	112	112	113	23	112	112	112	24	113	114	114	24	111	111	111	23	111	111	112	23
8/8	112	112	113	22	111	111	112	24	113	113	116	24	111	112	112	24	112	112	112	24

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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</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>		
7/26	113	114	115	24	117	118	118	23	113	114	115	24	116	117	117	24	113	113	115	24
7/27	112	112	113	23	116	117	117	23	111	112	112	24	115	116	116	24	111	112	113	24
7/28	111	111	112	24	115	115	116	23	110	110	110	24	115	115	116	24	109	110	110	24
7/29	112	113	113	24	117	118	118	24	109	109	110	24	115	116	116	24	112	113	114	24
7/30	112	112	113	24	116	117	118	24	110	111	111	24	116	116	117	24	113	113	114	24
7/31	112	112	113	24	116	117	117	24	111	112	114	24	115	116	116	24	112	113	115	24
8/1	113	114	116	23	117	118	119	22	113	115	116	24	116	117	117	24	115	116	118	24
8/2	113	113	114	24	117	117	118	24	112	113	113	24	116	117	118	24	113	114	116	24
8/3	112	113	113	24	117	117	117	24	113	114	115	24	117	117	118	24	113	114	117	24
8/4	112	112	113	24	116	117	117	24	111	112	114	24	116	116	118	24	114	115	115	24
8/5	112	113	114	23	117	118	118	23	111	112	113	24	116	116	116	24	113	113	115	24
8/6	112	112	113	19	117	117	118	19	111	111	112	24	115	116	116	24	112	113	114	24
8/7	111	111	112	22	116	116	117	22	112	113	115	24	116	116	117	24	113	114	115	24
8/8	111	112	113	24	116	117	118	24	---	---	---	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>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>
7/26	116	117	119	24	109	110	110	24	106	107	107	24	---	---	---	0	102	102	103	24
7/27	115	116	117	24	105	106	107	24	106	106	106	23	106	107	108	23	102	102	103	24
7/28	113	113	114	4	103	103	104	24	105	106	106	24	106	107	108	24	102	103	104	24
7/29	117	117	118	10	103	103	104	24	106	106	107	24	106	107	108	24	102	103	104	24
7/30	116	119	120	24	105	105	106	21	106	107	109	24	106	108	109	24	102	104	105	24
7/31	117	118	120	21	104	105	105	24	105	105	106	24	105	106	107	24	102	103	104	23
8/1	116	117	120	24	106	107	108	24	105	106	106	24	105	107	107	23	102	104	106	24
8/2	116	117	120	18	107	107	108	24	105	105	105	24	---	---	---	0	102	103	105	24
8/3	116	117	119	16	106	106	107	24	104	105	105	24	---	---	---	0	102	104	105	24
8/4	115	116	118	24	105	106	106	24	104	104	105	24	105	105	106	24	101	102	103	24
8/5	115	117	118	24	104	105	106	24	---	---	---	0	---	---	---	0	102	103	104	24
8/6	115	116	118	24	104	104	105	17	104	104	104	17	105	105	106	17	101	102	103	17
8/7	116	116	118	13	104	105	106	24	104	104	105	24	104	105	106	24	102	103	104	24
8/8	---	---	---	0	106	107	108	21	105	105	105	24	105	106	107	24	102	103	104	24

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>	<u>24 h</u>	<u>12 h</u>	<u>#</u>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>
7/26	102	104	105	24	105	105	107	24	102	102	102	24	101	102	103	24	101	102	106	24
7/27	102	103	105	23	103	104	104	24	102	102	102	24	101	101	101	24	100	101	101	24
7/28	102	104	105	24	103	103	104	24	101	102	102	24	101	101	101	24	100	100	101	24
7/29	102	104	106	24	103	103	104	24	101	101	101	24	101	101	103	24	100	100	101	24
7/30	103	105	108	24	103	104	105	24	101	101	102	24	102	103	119	24	100	101	101	24
7/31	101	102	104	24	102	103	104	24	100	101	101	23	103	103	115	14	100	100	100	24
8/1	101	103	105	24	105	107	108	24	101	102	102	24	102	103	104	24	101	102	102	24
8/2	101	103	104	24	104	105	108	24	101	101	102	24	101	102	102	24	101	101	103	24
8/3	101	103	104	24	105	107	107	24	101	102	103	24	102	104	105	24	101	102	102	24
8/4	100	101	102	24	103	104	106	24	101	101	102	24	101	101	103	24	100	100	101	24
8/5	---	---	---	0	103	105	106	24	101	102	102	24	101	102	103	24	100	101	101	24
8/6	100	101	103	17	103	103	104	17	101	101	102	17	101	101	102	17	100	100	100	17
8/7	101	102	104	24	102	103	103	24	101	101	102	24	100	100	101	24	99	100	100	24
8/8	101	102	104	24	101	102	103	23	100	101	101	23	100	100	101	24	99	99	100	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>#</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>		
	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>
7/26	104	105	106	22	103	104	104	23	106	107	108	24	110	112	113	24	113	114	115	24
7/27	104	104	105	24	103	103	104	24	105	106	106	24	109	110	111	24	111	112	113	24
7/28	104	104	104	24	102	103	104	24	104	105	105	24	111	111	112	24	110	111	112	23
7/29	103	103	104	24	101	102	103	24	104	104	105	24	109	111	112	24	110	112	115	24
7/30	103	103	104	24	102	102	104	24	103	104	104	24	110	112	113	24	109	111	112	24
7/31	101	102	102	24	101	101	102	24	102	103	104	24	109	111	112	24	107	108	112	24
8/1	103	104	106	24	102	103	103	24	103	104	104	24	109	110	111	24	108	110	111	24
8/2	101	102	103	24	101	101	102	24	102	102	104	24	109	110	111	24	109	111	112	24
8/3	102	103	104	24	101	101	102	24	102	103	103	24	109	111	112	24	109	110	113	24
8/4	100	101	102	24	100	100	102	24	101	101	102	24	109	110	110	24	107	107	109	24
8/5	100	100	101	24	100	101	103	24	101	101	103	24	110	111	112	24	107	109	110	24
8/6	100	100	100	17	100	100	102	17	100	100	101	17	109	111	112	17	107	107	108	17
8/7	99	100	101	24	99	100	102	24	100	100	101	23	109	110	111	23	106	108	110	24
8/8	99	100	101	24	99	99	100	24	100	100	100	24	108	110	111	24	108	111	113	24

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	McNary-Wash			#	McNary Tlwr			#	John Day			#	John Day Tlwr			#	The Dalles			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24h Avg	12h Avg	High		24h Avg	12h Avg	High		24h Avg	12h Avg	High	
7/26	112	113	113	24	112	112	113	24	108	109	109	24	115	115	116	24	106	107	109	24
7/27	110	110	111	24	110	111	111	24	106	106	106	23	111	115	118	24	104	105	105	23
7/28	108	109	109	24	109	110	112	24	104	104	105	23	111	117	119	24	104	104	105	23
7/29	108	109	113	24	109	111	112	24	103	103	103	23	116	117	118	24	105	107	109	23
7/30	109	109	110	24	111	111	111	24	102	102	103	23	116	117	118	24	106	107	109	23
7/31	107	109	110	24	111	112	117	24	101	102	104	23	115	116	118	24	104	105	106	22
8/1	109	110	112	24	108	108	109	24	102	102	103	23	115	115	115	24	107	107	108	23
8/2	108	109	109	24	107	108	108	24	100	101	101	24	109	115	117	24	105	106	107	23
8/3	110	112	113	24	109	110	110	24	101	101	103	24	110	117	118	24	104	107	111	23
8/4	108	109	111	24	107	108	109	24	100	100	101	23	115	116	118	24	104	107	111	22
8/5	106	106	107	24	106	106	106	24	100	100	101	24	115	115	116	24	106	107	108	20
8/6	105	105	106	16	105	105	106	17	100	100	100	19	106	109	115	17	105	105	106	16
8/7	105	106	108	24	104	105	105	24	99	100	101	23	109	116	118	24	103	104	108	22
8/8	107	108	109	24	106	106	107	24	100	101	101	23	110	118	119	24	106	109	111	22

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	The Dalles Dnst			#	Bonneville			#	Warrendale			#	Camas\Washugal			#
	24 h Avg	12 h Avg	High		24 h Avg	12 h Avg	High		24h Avg	12h Avg	High		24h Avg	12h Avg	High	
7/26	114	115	116	24	106	106	107	24	112	113	116	23	109	111	113	23
7/27	112	113	113	24	104	105	106	23	117	118	118	23	110	113	116	24
7/28	111	112	112	24	104	104	105	23	119	119	120	23	115	116	117	24
7/29	112	113	115	24	104	105	105	23	113	116	118	23	115	116	117	24
7/30	114	115	115	24	105	105	106	23	113	115	118	23	110	112	114	24
7/31	113	113	114	24	105	106	107	23	114	116	119	23	108	112	115	24
8/1	115	115	116	24	107	107	108	23	115	118	121	23	112	115	118	24
8/2	113	114	114	24	106	107	107	24	117	117	118	24	110	113	115	24
8/3	113	113	114	24	107	107	107	24	117	118	118	24	113	115	116	24
8/4	114	115	116	24	106	106	107	23	113	115	117	23	112	113	114	24
8/5	114	115	116	24	106	106	106	24	112	113	115	24	110	111	113	24
8/6	113	113	114	16	107	107	107	19	117	118	119	19	108	108	112	16
8/7	112	112	113	20	107	107	107	23	115	115	116	23	113	114	115	24
8/8	114	115	116	24	106	107	107	23	117	118	119	23	112	114	115	24

Source: Fish Passage Center

Updated: 8/9/02 11:02

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)
07/26/2002 *	---	---	---	---	20	0	50	1	0	0	6
07/27/2002 *	---	---	---	---	0	5	140	0	0	0	0
07/28/2002	---	---	---	---	0	10	20	3	0	0	0
07/29/2002	---	---	---	---	0	0	40	0	0	0	0
07/30/2002	---	---	---	---	0	0	0	0	8	0	0
07/31/2002 *	---	---	---	---	5	0	10	0	0	10	0
08/01/2002	---	---	---	---	15	0	0	0	18	0	0
08/02/2002	---	---	---	---	0	4	10	0	0	28	0
08/03/2002	---	---	---	---	10	4	25	0	67	0	0
08/04/2002 *	---	---	---	---	5	0	30	0	0	0	0
08/05/2002	---	---	---	---	0	4	0	0	0	0	0
08/06/2002	---	---	---	---	0	0	0	1	0	0	0
08/07/2002	---	---	---	---	0	0	5	1	0	0	0
08/08/2002	---	---	---	---	---	2	5	3	0	0	0
08/09/2002	---	---	---	---	0	2	---	---	---	0	---
Total:	0	0	0	0	55	31	335	9	93	38	6
# Days:	0	0	0	0	14	15	14	14	14	15	14
Average:	0	0	0	0	4	2	24	1	7	3	0
YTD	38,199	29,095	8,013	7,847	2,459,176	2,843,808	2,221,763	28,981	3,519,176	2,104,926	3,328,043

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)
07/26/2002 *	---	---	---	---	12,020	2,274	4,900	305	20,779	10,547	26,861
07/27/2002 *	---	---	---	---	9,520	3,858	8,700	315	19,238	15,440	45,416
07/28/2002	---	---	---	---	2,460	3,650	4,580	388	27,154	8,997	6,213
07/29/2002	---	---	---	---	1,310	3,015	1,500	400	23,692	6,363	4,713
07/30/2002	---	---	---	---	2,480	1,193	1,020	408	45,099	4,093	23,642
07/31/2002 *	---	---	---	---	2,165	862	1,030	488	32,000	3,733	47,203
08/01/2002	---	---	---	---	2,630	1,429	850	391	27,003	7,696	24,924
08/02/2002	---	---	---	---	2,740	824	745	278	20,771	6,092	21,183
08/03/2002	---	---	---	---	2,695	1,027	1,925	235	13,767	4,290	5,319
08/04/2002 *	---	---	---	---	1,605	791	830	276	7,652	6,226	4,521
08/05/2002	---	---	---	---	1,665	849	960	332	8,240	3,643	9,934
08/06/2002	---	---	---	---	1,535	545	415	260	13,550	2,529	14,360
08/07/2002	---	---	---	---	1,610	595	395	240	19,474	2,676	3,059
08/08/2002	---	---	---	---	---	309	210	434	49,617	1,755	4,358
08/09/2002	---	---	---	---	852	176	---	---	---	2,061	---
Total:	0	0	0	0	45,287	21,397	28,060	4,750	328,036	86,141	241,706
# Days:	0	0	0	0	14	15	14	14	14	15	14
Average:	0	0	0	0	3,235	1,426	2,004	339	23,431	5,743	17,265
YTD	0	4	26	3,488	689,635	326,060	293,982	22,748	7,651,332	3,309,528	6,917,185

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)
07/26/2002 *	---	---	---	---	20	0	0	14	113	0	0
07/27/2002 *	---	---	---	---	0	0	20	10	0	35	0
07/28/2002	---	---	---	---	0	0	0	10	26	0	0
07/29/2002	---	---	---	---	0	5	20	7	53	0	0
07/30/2002	---	---	---	---	0	5	0	7	93	0	47
07/31/2002 *	---	---	---	---	5	0	10	1	70	10	0
08/01/2002	---	---	---	---	5	0	0	4	0	23	0
08/02/2002	---	---	---	---	0	0	5	6	0	28	0
08/03/2002	---	---	---	---	0	2	15	1	0	42	0
08/04/2002 *	---	---	---	---	0	6	5	4	25	19	0
08/05/2002	---	---	---	---	5	2	5	5	5	0	55
08/06/2002	---	---	---	---	0	2	0	4	12	0	0
08/07/2002	---	---	---	---	0	4	0	3	24	0	0
08/08/2002	---	---	---	---	---	8	0	3	16	33	0
08/09/2002	---	---	---	---	0	6	---	---	---	0	---
Total:	0	0	0	0	35	40	80	79	437	190	102
# Days:	0	0	0	0	14	15	14	14	14	15	14
Average:	0	0	0	0	3	3	6	6	31	13	7
YTD	0	0	0	101	124,048	104,159	66,024	86,212	201,885	315,096	2,331,549

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)
07/26/2002 *	---	---	---	---	100	8	250	4	56	0	54
07/27/2002 *	---	---	---	---	100	15	140	3	0	0	0
07/28/2002	---	---	---	---	0	10	220	1	0	0	0
07/29/2002	---	---	---	---	30	5	40	6	11	0	0
07/30/2002	---	---	---	---	40	20	0	3	9	0	0
07/31/2002 *	---	---	---	---	75	4	70	1	23	10	0
08/01/2002	---	---	---	---	75	8	110	5	27	11	0
08/02/2002	---	---	---	---	45	4	65	3	0	0	0
08/03/2002	---	---	---	---	30	12	65	0	0	0	0
08/04/2002 *	---	---	---	---	0	4	20	1	0	20	0
08/05/2002	---	---	---	---	5	6	25	1	0	0	0
08/06/2002	---	---	---	---	25	4	25	0	5	0	0
08/07/2002	---	---	---	---	10	6	45	0	0	0	0
08/08/2002	---	---	---	---	---	0	10	0	12	0	0
08/09/2002	---	---	---	---	12	2	---	---	---	10	---
Total:	0	0	0	0	547	108	1,085	28	143	51	54
# Days:	0	0	0	0	14	15	14	14	14	15	14
Average:	0	0	0	0	39	7	78	2	10	3	4
YTD	2,833	32,043	3,494	11,810	2,602,825	2,273,157	1,792,225	28,699	794,441	545,814	1,455,004

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)
07/26/2002 *	---	---	---	---	40	8	50	10	1	71	2
07/27/2002 *	---	---	---	---	0	15	0	8	53	0	0
07/28/2002	---	---	---	---	40	15	0	22	154	33	0
07/29/2002	---	---	---	---	10	10	0	0	85	25	0
07/30/2002	---	---	---	---	0	10	0	8	204	0	95
07/31/2002 *	---	---	---	---	5	0	0	7	139	18	0
08/01/2002	---	---	---	---	0	6	0	8	117	0	0
08/02/2002	---	---	---	---	5	5	0	3	50	14	0
08/03/2002	---	---	---	---	5	0	5	10	67	42	0
08/04/2002 *	---	---	---	---	5	2	0	7	51	0	0
08/05/2002	---	---	---	---	5	4	0	11	100	0	55
08/06/2002	---	---	---	---	5	4	10	4	99	0	140
08/07/2002	---	---	---	---	5	4	0	4	77	35	0
08/08/2002	---	---	---	---	---	0	0	14	148	14	0
08/09/2002	---	---	---	---	4	2	---	---	---	0	---
Total:	0	0	0	0	129	85	65	116	1,345	252	292
# Days:	0	0	0	0	14	15	14	14	14	15	14
Average:	0	0	0	0	9	6	5	8	96	17	21
YTD	18	0	0	261	77,465	66,562	38,971	20,573	1,408,024	933,448	847,985

* 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.

Definitions for Smolt Index Counts

- WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
- IMN (Collection) = Imnaha River Trap : Collection Counts
- GRN (Collection) = Grande Ronde River Trap : Collection Counts
- LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
- LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
- BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
 Passage Index = Collection Counts / {Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
 RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
 LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
 LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
 IMN data collected for the FPC by the Nez Perce Tribe.

Cumulative Adult Passage at Mainstem Dams Through: 08/08

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	127,442	7,948	76,156	14,723	26,786	4,828	4,627	378	4,554	498	2,649	498
TDA	181,176	3,870	303,912	9,953	68,558	3,895	113,189	5,743	71,462	10,926	22,478	3,504	2,386	208	2,512	0	0	0
JDA	139,887	2,403	264,177	6,208	58,196	3,052	105,500	5,488	64,186	10,049	20,885	3,005	893	139	952	329	394	111
MCN	129,357	3,872	258,689	6,683	54,462	2,970	109,446	6,818	67,914	9,600	21,443	2,927	0	0	0	0	0	0
IHR	85,207	1,826	171,173	3,026	32,988	1,807	26,509	2,426	15,226	2,394	5,338	857	0	0	0	0	0	0
LMN	76,304	1,537	180,787	1,784	32,792	1,811	23,654	1,671	19,204	1,532	5,567	782	0	0	0	0	0	0
LGS	77,232	1,815	174,823	2,990	31,528	1,921	20,724	2,230	15,859	2,755	5,114	988	0	0	0	0	0	0
LWG	75,025	2,132	171,958	3,135	30,329	1,865	22,010	1,925	13,708	3,800	5,036	1,090	0	0	0	0	0	0
PRD	34,083	196	50,379	987	14,107	363	90,409	1,300	51,353	2,917	17,848	996	0	0	0	0	0	0
RIS	24,734	892	39,785	1,761	10,725	505	76,250	2,431	45,140	11,362	15,123	2,925	0	0	0	0	0	0
RRH	11,204	215	15,895	543	3,314	135	66,338	2,283	34,273	4,441	8,625	1,083	0	0	0	0	0	0
WEL	7,587	39	9,989	892	1,799	176	53,669	250	26,514	3,034	5,214	737	0	0	0	0	0	0

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	6	0	71	2	19	2	49,587	114,914	50,266	196,478	321,676	105,445	75,103
TDA	0	0	0	0	0	0	40,540	102,541	40,038	94,808	159,450	44,370	40,898
JDA	0	0	69	3	2	0	41,894	107,765	43,244	67,117	88,348	29,261	28,258
MCN	0	0	1	0	0	0	39,134	97,120	39,857	49,057	76,859	22,947	19,410
IHR	0	0	0	0	0	0	58	38	13	20,558	32,548	11,458	6,783
LMN	0	0	0	0	0	0	45	32	21	19,691	31,876	10,032	7,373
LGS	0	0	0	0	0	0	33	71	24	14,631	18,945	5,650	6,047
LWG	0	0	0	0	0	0	52	36	23	19,452	16,917	7,806	6,558
PRD	21	0	14	25	9	3	45,515	110,384	48,496	4,983	7,960	2,281	***
RIS	4	0	30	0	6	0	38,327	104,325	42,867	3,381	5,313	1,619	897
RRH	15	0	30	0	3	0	16,032	65,796	26,808	2,499	3,193	918	776
WEL	0	0	0	0	0	0	10,056	73,659	26,302	1,481	1,591	538	406

RRH is through 08/7; WEL is through 8/6; RIS is through 08/7.

MCN is missing 07/30

RIS, RRH, PRD and WEL data for the last week is 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

		07/27/02 TO 08/09/02					
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	45,287	55	35	129	547	46,053
	Sum of NumberBarged	41,989	55	35	109	520	42,708
	Sum of NumberBypassed	92	0	0	0	0	92
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	745	0	0	11	5	761
LGS	Sum of NumberCollected	21,397	31	40	85	108	21,661
	Sum of NumberBarged	20,878	27	33	62	83	21,083
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	347	2	1	21	23	394
LMN	Sum of NumberCollected	28,060	335	80	65	1,085	29,625
	Sum of NumberBarged	27,472	312	80	64	1,025	28,953
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	588	23	0	1	60	672
MCN	Sum of NumberCollected	309,802	90	399	1,277	129	311,697
	Sum of NumberBarged	271,075	86	475	1,312	128	273,076
	Sum of NumberBypassed	14,272	0	0	0	0	14,272
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	5,450	4	5	22	3	5,484
Total Sum of NumberCollected		404,546	511	554	1,556	1,869	409,036
Total Sum of NumberBarged		361,414	480	623	1,547	1,756	365,820
Total Sum of NumberBypassed		14,364	0	0	0	0	14,364
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of TotalProjectMortalities		7,130	29	6	55	91	7,311

YTD Transportation Summary

TO: 08/09/02

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	568,483	1,535,655	80,758	51,372	1,698,688	3,934,956
	Sum of NumberBarged	558,354	1,483,798	80,608	49,469	1,627,915	3,800,144
	Sum of NumberBypassed	194	38,152	5	7	65,895	104,253
	Sum of NumberTrucked	29	9,847	20	343	3,383	13,622
	Sum of TotalProjectMortalities	7,487	3,858	125	1,544	1,253	14,267
LGS	Sum of NumberCollected	282,539	1,907,374	79,632	48,151	1,562,599	3,880,295
	Sum of NumberBarged	281,313	1,904,698	79,059	47,388	1,559,451	3,871,909
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of NumberTrucked	0	1,034	4	74	1,024	2,136
	Sum of TotalProjectMortalities	1,054	1,640	563	687	2,125	6,069
LMN	Sum of NumberCollected	293,937	2,214,550	62,919	38,573	1,751,348	4,361,327
	Sum of NumberBarged	262,723	2,121,962	60,872	37,468	1,713,591	4,196,616
	Sum of NumberBypassed	29,272	68,125	1,994	208	31,958	131,557
	Sum of NumberTrucked	0	20,104	0	13	356	20,473
	Sum of TotalProjectMortalities	1,942	4,359	53	884	5,443	12,681
MCN	Sum of NumberCollected	4,668,481	2,204,950	111,786	907,659	464,581	8,357,457
	Sum of NumberBarged	1,320,161	715	1,966	3,932	958	1,327,732
	Sum of NumberBypassed	3,268,355	2,203,242	109,765	902,697	463,311	6,947,370
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of TotalProjectMortalities	30,527	993	40	881	301	32,742
Total Sum of NumberCollected		5,813,440	7,862,529	335,095	1,045,755	5,477,216	20,534,035
Total Sum of NumberBarged		2,422,551	5,511,173	222,505	138,257	4,901,915	13,196,401
Total Sum of NumberBypassed		3,297,821	2,309,519	111,764	902,912	561,164	7,183,180
Total Sum of NumberTrucked		29	30,985	24	430	4,763	36,231
Total Sum of TotalProjectMortalities		41,010	10,850	781	3,996	9,122	65,759

