



Fish Passage Center

Weekly Report #00 - 26

September 01, 2000

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SUMMARY OF EVENTS:

Water Supply: Precipitation for the period of August 1 through 29 continued to be below average for the entire basin. Precipitation for the Columbia above Coulee was 24% of average, for the Snake River above Ice Harbor was 30% of average and for the Columbia at The Dalles was 24% of average.

Reservoir Operations: The reservoirs continued to be operated for summer flow augmentation and for power generation during the week of August 25 through 31. A summary of actual elevations on August 31, and full pool elevations is shown in the following table:

Project	Actual August 31 Elevation in [ft]	Actual Elevation on June 30 & Full Pool Elevation in [ft]
<i>Libby</i>	2434.89	2418.1/2459.0
<i>Hungry Horse</i>	3539.75	3558.3/3560.0
<i>Grand Coulee</i>	1280.4	1279.0/1290.0
<i>Brownlee</i>	2047.13*	2072.06/2077.0
<i>Dworshak</i>	1520.07	1598.6/1600.0

* as of August 30

Libby reservoir was drafted from elevation of 2435.58 ft on August 25 to elevation 2434.89 ft on August 31 with inflows in the range of 5 kcfs to 6.1 kcfs for the period of August 25-31. Due to failure in runoff volume forecasting the reservoir has not been refilled through the end of July as required by BiOp. The reservoir was drafted to 5.11 ft lower elevation than required by BiOp at the end of August because of maintaining steady flow of 8 kcfs for bull trout operation.

Hungry Horse finished drafting for summer flow augmentation at rates of 4.98 kcfs - 2.13 kcfs for the period of August 25-31. The reservoir ended at 0.25 ft lower elevation than required by BiOp on August 31.

Grand Coulee was operated with outflows in the range of 57.8 kcfs and 108.5 kcfs with elevations fluctuating between 1281.6 ft and 1280.4 ft for the period of August 25-31.

Brownlee reservoir continued to refill from 2045.57 ft on August 25 to 2047.13 ft on August 30, despite request of Fishery Agencies to pass inflow during August in order to improve flows at

Lower Granite. Inflows to reservoir fluctuated between 11.1 kcfs and 12.32 kcfs for the period of August 25-30. Outflow from Hells Canyon Dam for the past week, increased from 6.84 kcfs on August 26 to 12.01 kcfs on August 29.

Dworshak finished drafting for flow augmentation as required by BiOp. The outflow was further decreased from maximum hydraulic capacity of the project of 10.8 kcfs with zero spill on August 25, to 4 kcfs on August 30 as the reservoir was approaching elevation of 1520 ft. Inflows to the reservoir fluctuated from 0.6 kcfs to 1 kcfs for the period of August 25-31.

Upper Snake reservoirs: As of August 31, the Upper Snake system was further drafted to 42% of capacity. American Falls is at 18% of the full capacity, and Palisades and Jackson Lake are at 35% and 84% of the full capacity respectively. The irrigation demands in the system continued to be high and current flow at diversions at Palisades and Minidoka are 9.0 kcfs and 9.2 kcfs, respectively. Salmon flow augmentation from American Falls continued at rate of 1.25 kcfs higher than base flows of 0.2 kcfs at Milner, with 1.45 kcfs as total outflow.

Boise and Payette River Basins: As of August 31, the Boise River system was at 56% of capacity. Outflows from the system are ceasing as the salmon flow augmentation had been delivered

and Arrowrock reservoir has been drafted for the repair work. As of August 31, the Payette River system was at 67% of capacity. Salmon augmentation continued at rates of about 0.6 kcfs above base flows and outflows from Deadwood reservoir are increased at the beginning of the Labor Day weekend for the needs of recreation. The inflow in Snake River is about 1.4 kcfs and it is higher for 0.3 kcfs compared with the previous week.

Streamflow: The Biological Opinion summer flow target of 51.3 Kcfs at Lower Granite began on June 21 and 200 Kcfs for McNary began on July 1. Weekly average flows for McNary and Lower Granite remained below the flow targets for the period of August 25-31. The daily average flows for runoff projects for August 25-31 period continued to decrease compared with the previous week at Lower Granite, McNary and Bonneville. A summary of the weekly average flows and the range of daily average flows are given in the following table:

Project	Average daily discharge and range [kcfs]	
	August 18-24	August 25-31
<i>Priest Rapids</i>	88.7 (52.2-137.4)	95.9 (52.3-125.6)
<i>McNary</i>	119.1 (89.4-160.7)	113.9 (82.0-130.4)
<i>Lower Granite</i>	26.3 (22.9-30.3)	21.3 (18.1-23.9)
<i>Bonneville</i>	131.0 (103.9-160.1)	120.5 (100.5-148.0)

Spill: Spill for fish passage ended August 31 at Ice Harbor, John Day and The Dalles, and Bonneville dams. Mid-Columbia sites also ended spill as of midnight on the 31st.

Levels of total dissolved gas were below, the allowable TDGS levels at all locations measured. Monitoring for signs of gas bubble trauma (GBT) on fish collected through the Smolt Monitoring Program showed few fish with signs of GBT in fins. Monitoring for GBT ended August 31 with the end of spill for fish passage.

Smolt Monitoring Program. Snake River basin: Subyearling chinook passage indices rose nearly 80% from last week's average at Lower Granite Dam, resulting in nearly 2,000 subyearling chinook being collected per day this week. This week saw subyearling chinook passage indices at Little Goose and Lower Monumental dams dropped an average of 6% and 21%, respectively, from last week's level. Mid-Columbia River: Subyearling chinook passage indices at Rock Island Dam dropped nearly 50% from last week's average. Lower Columbia River: Subyearling chinook passage indices at McNary Dam dropped an average of approximately 50% from last week's level, resulting in approximately 6,200 subyearling chinook being collected per day this week. Subyearling chinook passage indices at John Day Dam also dropped an average of approximately 50% this week. Subyearling chinook passage indices at Bonneville Dam continue to be unrepresentatively low, since virtually no flow is passing through Powerhouse 2 where the sampling facility is located.

Adult Fish Passage – At Bonneville Dam, passage of adult fall chinook salmon showed a continued increase through the week with daily counts ranging between 3,975 and 6,998 for the week ending August 31. The cumulative count of adult fall chinook was 87,725; about 144% and 188% of the 1999 and 10-year average. Fall chinook passage at Bonneville Dam is comprised primarily of upriver bright stocks with a "tule" stock (mainly Spring Creek Hatchery chinook) accounting for a smaller percentage of the passage. On 8/29, the daily count of adult fall chinook showed the "tule" component of the run being 11.6% of the count. The cumulative counts of adult "upriver bright" chinook at The Dalles Dam [50,862], John Day Dam [35,237] and McNary Dam [23,711] were still well above the 1999 and 10-year averages at these dams. For this report week, turnoff into the Snake River averaged 162 chinook adults per day at Ice Harbor Dam (season total = 1,593) with the Mid-Columbia count at Priest Rapids averaging 1,254 per day and a season total of 10,704.

Steelhead passage at Bonneville Dam was reduced from the previous week with counts averaging near 2,900 per day this week. The cumulative count through August 31 was 201,400. This count was 130% and 139% of the respective 1999 and 10-year average. The cumulative count at The Dalles Dam was 90,362, still leaving more than 110,000 steelhead between Bonneville and The Dalles dams. During this week, the daily counts at The Dalles were beginning to equal or exceed the Bonneville counts and potentially many of the steelhead from the Bonneville tributaries will begin migrating upriver as the water temperatures begin to reduce. Daily counts of steelhead at Ice Harbor Dam averaged 800 per day with a cumulative count of 19,718 through August 31; the Priest Rapids counts averaged 182 per day with a cumulative total of 5,563 through August 30.

Coho passage at Bonneville Dam was pushed into high gear as the daily counts exceeded 2,000 for the final 2 days of the report week. The cumulative total through August 31 was 11,981, greater than 10-fold the 1999 count and 10-year average at the project. Movement of coho past the upriver projects increased through the week as well. Many returning coho will "home" to the Bonneville pool tributaries with the remaining upriver coho migrating to the Umatilla, Yakama, Snake/Clearwater and Mid-Columbia rivers.

As a note on the progress of the Snake River sockeye, information through August 29 indicated that 336 adult sockeye passed Lower Granite Dam (based on 24-h per day video count). Of this total, 23 were unclipped or about 6.9% of the total. The remaining unclipped fish were adults that were from the Captive Brood Program [release year 1998]. Of the fish counted at Lower Granite, 232 have arrived in the upper Salmon River basin (119 at the Redfish Lake Creek Trap) and (113 at the Sawtooth Hatchery Weir). Ten of the arrivals at the Redfish Lake trap were unclipped fish.

Hatchery Releases – A release of 85,000 juvenile sockeye into Lake Wenatchee was completed on August 28 from the net pens; the fish were acclimated about a month. Most of these fish are expected to migrate from the Lake next spring; how-

ever, it is possible that some of them will be migrating this fall. Most sockeye in the Columbia River basin are planted in October or early November preceding their migration to the ocean for following spring.

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
08/18/00	92.0	0.1	111.3	0.0	119.6	7.6	124.2	0.0	124.3	11.8	131.3	42.1	137.4	65.7
08/19/00	51.4	0.1	47.4	0.0	51.9	3.5	54.4	0.0	56.1	11.8	75.8	24.2	77.3	38.9
08/20/00	70.0	0.1	72.2	0.0	68.6	5.1	64.4	0.0	63.4	11.8	49.6	16.0	52.2	26.3
08/21/00	84.3	0.1	82.3	0.0	85.4	5.9	86.2	0.0	86.8	11.2	88.8	29.0	87.4	44.1
08/22/00	74.8	0.1	78.2	0.0	86.0	6.1	87.0	0.0	89.1	11.4	114.8	41.4	119.3	62.6
08/23/00	76.2	0.1	78.4	0.0	72.9	6.5	60.9	0.0	60.3	11.8	68.7	24.8	71.5	36.9
08/24/00	100.4	0.1	96.7	0.0	100.3	8.2	101.8	0.0	100.0	11.8	80.6	28.3	75.5	38.1
08/25/00	84.4	0.1	85.9	0.0	89.7	8.3	88.5	0.0	88.7	11.8	94.9	33.6	97.2	50.1
08/26/00	57.8	0.1	61.3	0.0	58.6	5.2	56.2	0.0	57.9	11.7	80.9	29.3	83.6	42.4
08/27/00	80.6	0.1	71.8	0.0	75.3	5.8	75.7	0.0	76.1	11.8	61.7	22.1	52.3	27.1
08/28/00	99.8	0.1	107.2	0.0	107.4	7.3	108.7	0.0	106.6	11.8	116.1	41.7	118.3	60.4
08/29/00	108.5	0.1	105.1	0.0	103.4	7.0	103.1	0.0	101.2	11.8	101.7	36.6	103.9	53.5
08/30/00	101.9	0.1	109.2	0.0	110.9	7.6	111.6	0.0	112.8	11.8	126.4	45.6	125.6	64.9
08/31/00	98.9	0.1	97.5	0.0	98.2	7.4	94.4	0.0	93.6	11.8	88.2	1.8	90.7	2.0

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
08/18/00	14.1	3.6	10.8	7.3	27.1	0.0	26.7	0.0	28.1	0.0	30.8	23.4		
08/19/00	14.0	3.6	11.2	7.2	30.3	0.0	29.1	0.3	30.5	0.0	34.7	28.6		
08/20/00	14.1	3.5	10.9	7.1	27.8	0.0	29.7	0.0	31.2	0.0	34.0	27.7		
08/21/00	12.9	2.7	10.9	7.1	27.8	0.0	25.8	0.0	27.7	0.0	29.3	22.6		
08/22/00	10.7	0.0	11.0	6.9	22.9	0.0	23.7	0.0	25.0	0.0	25.7	19.2		
08/23/00	10.7	0.0	10.8	6.9	23.9	0.0	24.3	0.0	26.1	0.0	29.8	23.8		
08/24/00	10.7	0.0	11.2	6.9	24.4	0.0	24.8	0.0	24.6	0.0	26.6	19.6		
08/25/00	10.8	0.0	12.0	6.8	23.7	0.0	23.6	0.0	25.2	0.0	26.5	19.4		
08/26/00	9.3	0.0	12.3	7.0	24.2	0.0	22.9	0.0	25.0	0.0	27.6	22.0		
08/27/00	8.5	0.0	11.1	7.0	20.6	0.0	21.1	0.0	22.0	0.0	23.2	17.4		
08/28/00	8.5	0.0	11.7	11.5	23.9	0.0	23.0	0.0	24.9	0.0	27.2	21.5		
08/29/00	4.4	0.0	11.8	11.2	20.0	0.0	19.4	0.0	20.3	0.0	22.4	16.9		
08/30/00	4.0	0.0	---	---	18.1	0.0	16.8	0.0	16.7	0.0	20.7	15.1		
08/31/00	4.1	0.0	---	---	18.3	0.0	19.1	0.0	19.8	0.0	20.8	15.0		

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		
08/18/00	135.1	0.0	128.1	54.0	128.8	52.6	160.1	94.3	44.5	12.1
08/19/00	160.7	7.1	159.0	68.5	152.8	60.9	144.8	84.9	42.2	8.6
08/20/00	90.2	0.0	103.9	48.2	105.0	42.1	122.2	83.9	25.0	4.2
08/21/00	111.2	0.0	115.0	29.1	113.5	42.5	127.5	78.4	35.7	4.1
08/22/00	118.4	0.0	119.8	35.5	116.1	42.3	118.1	71.0	34.0	3.9
08/23/00	128.6	0.0	132.9	36.4	134.1	52.8	140.4	99.7	26.6	5.0
08/24/00	89.4	0.0	94.2	24.1	88.9	34.5	103.9	63.8	27.2	3.7
08/25/00	115.6	0.0	102.6	29.8	96.1	38.5	100.5	60.7	26.5	4.1
08/26/00	115.8	0.0	99.0	26.7	102.5	40.5	115.4	75.3	26.4	4.5
08/27/00	82.0	0.0	96.3	38.2	95.8	38.3	101.8	62.1	26.1	4.3
08/28/00	94.0	0.0	95.6	37.0	90.2	36.0	112.8	67.1	32.1	4.4
08/29/00	129.5	0.0	120.1	48.2	120.9	48.5	128.0	74.5	36.5	7.8
08/30/00	130.4	0.0	139.5	40.1	137.1	55.1	148.0	86.1	47.2	5.5
08/31/00	129.9	0.0	124.5	39.0	124.0	50.9	136.7	79.8	42.7	5.0

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				Fish with L. Line GBT	
								Rank 1	Rank 2	Rank 3	Rank 4	Num Fish	Avg. Rank
McNary Dam													
	08/24/00	Subyearling Chinook	100	2	0	0.00%	0.00%	0	0	0	0	2	1
	08/28/00	Subyearling Chinook	100	4	0	0.00%	0.00%	0	0	0	0	4	1
	08/31/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
Bonneville Dam													
	08/22/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/24/00	Subyearling Chinook	100	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/29/00	Subyearling Chinook	21	0	0	0.00%	0.00%	0	0	0	0	0	0
	08/31/00	Subyearling Chinook	26	0	0	0.00%	0.00%	0	0	0	0	0	0
Rock Island Dam													
	08/31/00	Subyearling Chinook	24	2	2	8.33%	0.00%	2	0	0	0	0	0

Two-Week Summary of Passage Indices

The Total, # Days, and Average are calculated on the last two weeks of data and do not include the current day's passage index.

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)
08/18/00	---	---	---	---	16	0	2	0	0	0	0
08/19/00	---	---	---	---	12	1	3	1	0	0	0
08/20/00	---	---	---	---	12	2	4	0	0	0	0
08/21/00	---	---	---	---	0	1	2	0	0	0	0
08/22/00	---	---	---	---	8	1	1	2	0	0	0
08/23/00	---	---	---	---	0	3	3	0	0	0	0
08/24/00	---	---	---	---	0	1	3	1	0	0	0
08/25/00	---	---	---	---	0	1	5	0	0	0	0
08/26/00	---	---	---	---	0	0	4	0	0	0	0
08/27/00	---	---	---	---	0	1	3	0	0	0	0
08/28/00	---	---	---	---	0	1	1	0	0	0	0
08/29/00	---	---	---	---	0	1	1	0	0	0	0
08/30/00	---	---	---	---	0	1	2	0	0	0	0
08/31/00	---	---	---	---	0	0	1	0	0	0	0
Total:	0	0	0	0	48	14	35	4	0	0	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	3	1	3	0	0	0	0

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)
08/18/00	---	---	---	---	1,196	612	308	60	25,135	4,573	1,163
08/19/00	---	---	---	---	872	269	215	67	14,764	3,156	2,757
08/20/00	---	---	---	---	1,052	301	338	21	11,855	1,847	203
08/21/00	---	---	---	---	1,452	335	269	60	8,820	1,284	0
08/22/00	---	---	---	---	1,172	321	288	100	12,820	1,390	0
08/23/00	---	---	---	---	960	274	197	40	8,910	2,731	105
08/24/00	---	---	---	---	1,040	202	257	39	7,760	3,180	111
08/25/00	---	---	---	---	1,116	250	283	37	4,735	2,185	0
08/26/00	---	---	---	---	1,312	278	237	20	7,100	1,176	178
08/27/00	---	---	---	---	2,608	341	229	21	5,730	1,264	93
08/28/00	---	---	---	---	2,200	360	188	16	6,770	473	87
08/29/00	---	---	---	---	2,108	293	207	33	6,710	1,007	0
08/30/00	---	---	---	---	2,008	444	154	36	4,360	1,046	65
08/31/00	---	---	---	---	2,484	210	186	38	8,220	1,854	103
Total:	0	0	0	0	21,580	4,490	3,356	588	133,689	27,166	4,865
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	1,541	321	240	42	9,549	1,940	348

* See sampling comments <http://www.fpc.org/2000Daily/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.

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)
08/18/00	---	---	---	---	4	20	9	0	68	0	0
08/19/00	---	---	---	---	4	9	9	0	31	0	0
08/20/00	---	---	---	---	0	14	6	0	0	0	0
08/21/00	---	---	---	---	0	7	2	0	0	0	0
08/22/00	---	---	---	---	12	13	6	0	0	0	0
08/23/00	---	---	---	---	0	8	12	0	0	20	0
08/24/00	---	---	---	---	0	4	8	0	0	0	0
08/25/00	---	---	---	---	0	5	7	0	0	0	0
08/26/00	---	---	---	---	4	9	5	0	0	0	0
08/27/00	---	---	---	---	0	8	6	0	0	0	0
08/28/00	---	---	---	---	0	4	5	0	0	0	0
08/29/00	---	---	---	---	4	6	7	0	0	0	0
08/30/00	---	---	---	---	0	4	4	0	0	0	0
08/31/00	---	---	---	---	8	8	8	0	0	0	0
Total:	0	0	0	0	36	119	94	0	99	20	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	3	9	7	0	7	1	0

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)
08/18/00	---	---	---	---	48	15	36	0	0	0	0
08/19/00	---	---	---	---	12	3	31	1	0	0	0
08/20/00	---	---	---	---	36	7	11	0	0	0	0
08/21/00	---	---	---	---	16	5	16	0	0	0	0
08/22/00	---	---	---	---	24	5	5	0	0	0	0
08/23/00	---	---	---	---	28	1	12	0	0	0	0
08/24/00	---	---	---	---	28	2	25	0	0	0	0
08/25/00	---	---	---	---	60	4	42	0	0	0	0
08/26/00	---	---	---	---	20	3	13	0	0	0	0
08/27/00	---	---	---	---	12	4	7	0	0	7	0
08/28/00	---	---	---	---	4	4	2	1	0	0	0
08/29/00	---	---	---	---	8	2	4	0	0	10	0
08/30/00	---	---	---	---	16	5	10	0	0	0	0
08/31/00	---	---	---	---	4	3	6	0	0	0	0
Total:	0	0	0	0	316	63	220	2	0	17	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	23	5	16	0	0	1	0

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

	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
08/18/00	---	---	---	---	16	5	0	4	513	57	0
08/19/00	---	---	---	---	8	2	1	0	92	17	0
08/20/00	---	---	---	---	0	7	3	0	124	0	0
08/21/00	---	---	---	---	0	1	0	0	40	0	0
08/22/00	---	---	---	---	0	3	1	0	270	0	0
08/23/00	---	---	---	---	0	3	0	0	135	48	0
08/24/00	---	---	---	---	0	2	1	0	160	46	0
08/25/00	---	---	---	---	4	3	0	1	75	47	0
08/26/00	---	---	---	---	8	6	1	0	70	51	0
08/27/00	---	---	---	---	16	4	2	0	140	11	0
08/28/00	---	---	---	---	12	3	2	0	60	0	0
08/29/00	---	---	---	---	8	4	2	0	80	0	0
08/30/00	---	---	---	---	16	3	0	0	60	0	0
08/31/00	---	---	---	---	4	0	2	0	100	0	0
Total:	0	0	0	0	92	46	15	5	1,919	277	0
# Days:	0	0	0	0	14	14	14	14	14	14	14
Average:	0	0	0	0	7	3	1	0	137	20	0

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)}

LEW and WTB data collected for the FPC by Idaho Dept. of Fish and Game.

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 08/31

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2000		1999		10-Yr Avg.		2000		1999		10-Yr Avg.		2000		1999		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	178,302	21,259	38,669	8,691	62,347	2,737	30,598	13,386	26,169	4,022	20,522	2,637	87,725	11,071	61,076	4,137	46,547	3,457
TDA	102,953	14,796	17,563	6,180	36,497	1,828	25,024	10,409	21,730	3,207	16,441	1,905	50,862	5,577	26,755	3,206	18,992	1,661
JDA	86,502	12,133	15,409	5,089	29,402	1,505	23,069	8,146	22,210	2,504	15,458	1,691	35,237	4,364	15,543	1,231	9,657	812
MCN	64,647	10,839	9,260	3,972	28,536	1,577	20,776	7,098	19,275	2,343	16,138	1,747	23,711	2,133	12,882	749	7,418	735
IHR	38,234	9,129	5,351	2,657	15,091	720	4,241	3,182	3,900	1,311	4,465	461	1,593	234	754	41	315	25
LMN	35,634	10,389	3,924	2,726	14,041	753	4,678	3,288	3,372	1,344	4,195	468	865	206	375	48	161	18
LGS	34,468	10,152	3,445	2,690	**	**	4,160	3,776	3,273	1,583	**	**	391	96	223	29	**	**
LWG	33,822	10,318	3,296	2,507	12,180	669	3,933	3,736	3,260	1,584	4,222	494	235	97	136	49	91	8
PRD	20,098	1,092	4,139	761	9,052	194	22,306	2,504	20,896	517	14,069	596	10,704	743	7,046	115	2,456	219
RIS	14,400	1,429	3,309	915	6,567	218	18,717	11,367	18,588	1,548	11,793	977	2,919	1,346	1,130	131	554	131
RRH	5,336	392	1,389	233	1,501	54	13,422	3,991	10,536	1,140	5,185	476	1,881	499	929	865	337	131
WEL	2,143	457	141	199	752	53	6,354	3,596	7,194	507	3,207	346	0	0	0	0	0	0

DAM	Coho						Sockeye			Steelhead			Wild
	2000		1999		10-Yr Avg.		10-Yr			10-Yr			
	Adult	Jack	Adult	Jack	Adult	Jack	2000	1999	Avg.	2000	1999	Avg.	
BON	11,981	1,235	818	145	732	137	93,152	17,874	42,102	201,400	154,757	144,887	65,760
TDA	1,869	374	30	7	49	11	73,344	13,712	32,870	90,362	84,189	55,546	32,361
JDA	731	106	8	0	18	6	88,221	14,802	34,258	66,820	63,681	35,709	20,867
MCN	319	11	6	1	4	2	58,270	11,791	35,736	42,492	36,173	29,039	13,339
IHR	2	0	0	0	0	0	213	8	8	19,718	20,956	14,932	5,235
LMN	0	0	0	0	0	0	289	15	8	14,644	13,279	11,903	4,239
LGS	0	0	0	0	**	**	299	16	**	8,777	9,300	**	2,892
LWG	0	0	0	0	0	0	282	14	7	9,687	9,210	9,253	3,282
PRD	40	6	44	4	6	0	89,605	16,333	40,480	5,563	3,844	3,498	***
RIS	13		0	0	2	0	76,505	18,281	35,855	3,524	2,164	2,352	1,441
RRH	8		0	0	0	0	57,404	13,979	18,490	2,439	1,273	1,504	576
WEL	0	0	0	0	0	0	59,821	12,154	17,105	2,220	827	1,018	317

Note: JDA, LMN, LGS, LGR are through 08/30; WEL is through 08/27. PRD is through 08/30 and the numbers are from Grant Co PUD. RIS and RRH are through 08/25 and the numbers are from Chelan Co. PUD.

Note: LGR is missing 7/12, 07/31 and 08/18. RIS and RRH are missing 07/16 to 07/18.

Note: MCN has a partial ST count on 08/28 (Rt bank missing); LGR has duplicate counts for 08/24 and 08/25.

Note: IHR has duplicate counts for 08/24 and 08/25.

These numbers were collected from the COE's Running Sums text files.

Wild steelhead numbers are included in the total.

**Adult count records at Little Goose Dam have been maintained since 1991, visual counts were not conducted at Little Goose Dam between 1982 and 1990.

***PRD is not reporting Wild Steelhead numbers.

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

08/18/00 TO 08/31/00

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum Of NumberCollected	21,580	48	36	92	316	22,072
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	0	0	0	0	0	0
	Sum Of NumberTrucked	20,266	60	40	79	344	20,789
	Sum Of TotalProjectMort	118	0	0	9	4	131
LGS	Sum Of NumberCollected	4,119	14	107	43	54	4,337
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	0	0	0	0	0	0
	Sum Of NumberTrucked	4,312	12	107	40	55	4,526
	Sum Of TotalProjectMort	65	2	2	9	0	78
LMN	Sum Of NumberCollected	3,356	35	94	15	220	3,720
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	2	0	87	0	209	298
	Sum Of NumberTrucked	3,362	34	1	14	10	3,421
	Sum Of TotalProjectMort	34	1	7	0	2	44
MCN	Sum Of NumberCollected	129,945		90	1,850		131,885
	Sum Of NumberBarged	0		0	0		0
	Sum Of NumberBypassed	8,162		0	100		8,262
	Sum Of NumberTrucked	120,201		86	1,740		122,027
	Sum Of TotalProjectMort	1,582		4	10		1,596
Total Sum Of NumberCollected		159,000	97	327	2,000	590	162,014
Total Sum Of NumberBarged		0	0	0	0	0	0
Total Sum Of NumberBypassed		8,164	0	87	100	209	8,560
Total Sum Of NumberTrucked		148,141	106	234	1,873	409	150,763
Total Sum Of TotalProjectMort		1,799	3	13	28	6	1,849

YTD Transportation Summary

TO: 08/31/00

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum Of NumberCollected	626,280	2,449,901	121,951	6,119	5,038,668	8,242,919
	Sum Of NumberBarged	533,095	2,324,209	121,045	5,697	4,795,307	7,779,353
	Sum Of NumberBypassed	46	115,444	400	16	226,270	342,176
	Sum Of NumberTrucked	87,912	6,946	451	362	16,858	112,529
	Sum Of TotalProjectMort	2,753	3,303	47	40	729	6,872
LGS	Sum Of NumberCollected	316,876	1,357,128	41,609	3,514	1,055,108	2,774,235
	Sum Of NumberBarged	282,653	1,348,003	40,149	3,281	1,045,300	2,719,386
	Sum Of NumberBypassed	0	0	0	0	0	0
	Sum Of NumberTrucked	55,119	4,466	1,419	200	8,758	69,962
	Sum Of TotalProjectMort	2,235	5,322	92	53	1,442	9,144
LMN	Sum Of NumberCollected	180,196	608,567	19,114	4,277	765,982	1,578,136
	Sum Of NumberBarged	146,077	556,132	18,198	4,239	761,544	1,486,190
	Sum Of NumberBypassed	19,841	24,873	257	0	1,924	46,895
	Sum Of NumberTrucked	13,138	26,008	624	33	1,777	41,580
	Sum Of TotalProjectMort	957	1,565	36	3	738	3,299
MCN	Sum Of NumberCollected	9,147,150	1,164,638	169,051	94,741	365,747	10,941,327
	Sum Of NumberBarged	7,902,533	25,995	26,993	28,657	10,650	7,994,828
	Sum Of NumberBypassed	704,394	1,137,415	140,966	59,779	354,530	2,397,084
	Sum Of NumberTrucked	483,759	16	278	5,575	54	489,682
	Sum Of TotalProjectMort	56,465	1,212	813	730	513	59,733
Total Sum Of NumberCollected		10,270,502	5,580,234	351,725	108,651	7,225,505	23,536,617
Total Sum Of NumberBarged		8,864,358	4,254,339	206,385	41,874	6,612,801	19,979,757
Total Sum Of NumberBypassed		724,281	1,277,732	141,623	59,795	582,724	2,786,155
Total Sum Of NumberTrucked		639,928	37,436	2,772	6,170	27,447	713,753
Total Sum Of TotalProjectMort		62,410	11,402	988	826	3,422	79,048

