



Fish Passage Center

Weekly Report #00 - 29

October 6, 2000

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This will be our last weekly report for the 2000 season. We will resume publishing the report in March.

SUMMARY OF EVENTS:

Water Supply: Precipitation at Columbia above Coulee was 107% of average, at Snake above Ice harbor was 131% of average, and at Columbia above The Dalles was 118% of average for the period of September 1-26.

Reservoir Operations: The reservoirs continue to be operated for power. A summary of actual elevations on October 5, and full pool elevations is shown in the following table:

Project	Actual October 5 Elevation in [ft]	Full Pool Elevation in [ft]&Actual Elevation on August 31
<i>Libby</i>	2432.16	2459.0/2434.89
<i>Hungry Horse</i>	3535.57	3560.0/3539.75
<i>Grand Coulee</i>	1285.6	1290.0/1280.4
<i>Brownlee</i>	2037.33*	2077.0/2047.13
<i>Dworshak</i>	1520.17	1600.0/1520.07

* as of October 4

Libby reservoir continued to maintain steady outflow for bull trout and it was drafted from elevation of 2432.8 ft on September 22 to elevation 2432.2 ft on October 5 with inflows in the range of 4.3 kcfs to 6 kcfs for the same period. The reservoir continues to be managed at steady flow of 6 kcfs for bull trout requirements since September 24, when the outflow was maintained at 8 kcfs.

Hungry Horse was operated for maintaining minimum required flows below Columbia Falls of 3.5 kcfs. The reservoir continued to be drafted during September 22-October 5 from elevation of 3537.2 ft on September 22 to elevation of 3535.6 ft on October 5 with outflows of 1.4 kcfs-2.11 kcfs.

Grand Coulee was operated with outflows in the range of 56.8 kcfs and 86.6 kcfs with elevations fluctuating between 1285 ft and 1285.9 ft. The reservoir is planned to be held at elevation higher than 1283 ft through mid November for kokanee artificial propagation programs at Lake Roosevelt.

Brownlee reservoir continued to be drafted for power generation to elevation of 2037.33 ft on October 4. Outflow from Hells Canyon Dam for the past two weeks, fluctuated from 5.8 kcfs on September 29 to 21 kcfs on October 4.

Dworshak reached the Biological Opinion reservoir target of 1520 on August 30. The reservoir continued to be operated around that elevation during fall. The outflow was maintained at minimum, fluctuating in the range of 1.5 kcfs-1.7 kcfs for the period of September 22-October 5.

Upper Snake reservoirs: As of October 5, the Upper Snake system was further drafted to 29% of capacity. American Falls is at 6% of the full capacity, and Palisades and Jackson Lake are at 20% and 76% of the full capacity respectively. The irrigation demands in the system are decreasing and current flow at diversions at Palisades and Minidoka are 5.4 kcfs and 6.2 kcfs. Currently, American Falls is drafted from September 21 through October 15 for the delivery of 53 KAF that IPCO rented from the State Water Bank. Outflows at Milner are maintained at 1.2 kcfs in order to avoid exceeding the hydraulic capacity of the downstream power plants.

Boise and Payette River Basins: As of October 5, the Boise River system is at 35% of capacity. It was operated for flood control and repair work at Arrowrock reservoir with inflow in Snake River of about 0.5 kcfs. As of October 5, Payette river is at 53% of capacity. The outflow from the system is 1.1 kcfs.

Streamflow: The daily average flows for run-of-river projects for September 22-October 5 period decreased. 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]	
	September 22-October 5	September 15-21
<i>Priest Rapids</i>	79.2 (52.7-106.3)	97.7 (68.7-117.5)
<i>McNary</i>	105.8 (86.1-126)	125.1 (101.3-145.4)
<i>Lower Granite</i>	23.96 (12.8-33.4)	25 (19.4-27.2)
<i>Bonneville</i>	114.6 (100.1-133.2)	134.9 (117-167.6)

Smolt Monitoring Program. Subyearling chinook passage indices were 50-60% lower at the Snake River dams this past two-week period, averaging daily 533 fish at Lower Granite Dam, 233 fish at Little Goose Dam, and 143 fish at Lower Monumental Dam.

With the lower numbers at Little Goose and Lower Monumental dams at this time, the processing of the daily collections are currently done every other day. During this same two-week period, subyearling chinook passage indices in the lower Columbia River were down 67% at McNary Dam (averaging 389 fish/day) and down 25% at Bonneville Dam (averaging 232 fish/day). During this reporting period, most flow passed Bonneville Dam through Powerhouse 2, where the sampling facility is located.

Adult Fish Passage – At Bonneville Dam, passage of adult fall chinook salmon had daily counts ranging between a high of 884 on 9/22 to a low of 104 on 10/3 for the two week period (September 22 – October 5). The cumulative count of adult fall chinook was 188,389 about 80% and 110% of the respective 1999 and 10-year average. The cumulative counts of adult “upriver bright” chinook at The Dalles Dam [121,119], John Day Dam [100,138] and McNary Dam [62,473] were generally below the 1999 counts but still greater than the 10-year averages at these dams. For this Report week, turnoff into the Snake River averaged 83 adult chinook per day at Ice Harbor Dam with the season total now 5,821. No fish count updates were received from Priest Rapids past September 27 with the season total near 28,000.

Jack fall Chinook salmon counts are well above 1999 and 10-year average counts at Columbia and Snake River projects. They are following the trend seen with the jack spring and summer Chinook passage; i.e., at least a 2-fold or greater increase of jack Chinook compared to the previous year and the 10-year average. The total count of jack fall Chinook salmon at Bonneville Dam is near 52,000 to date. As a side note, numbers of Tule fall Chinook jack salmon were a record high this fall at Spring Creek NFH.

Steelhead passage at Bonneville Dam continued its decline through the 2-week Report period with counts averaging 647 per day. The cumulative count through October 5 was 270,340. This count was 134% and 127% of the respective 1999 and 10-year average. The cumulative count at The Dalles Dam was 191,394, about 79,000 less than the Bonneville Dam count. During this Report period, the daily counts at The Dalles ranged between 2,100 and 900. Daily counts of steelhead at Ice Harbor Dam averaged 1,792 per day with a cumulative count of 89,612 through October 5. At Lower Granite, about 19% of the Run is considered “Wild” with 81% Hatchery Origin. The Rock Island count through 10/3 was near 10,000 are much stronger this year, about 170% of the 1999 count.

Coho passage at Bonneville Dam ranged between 180 to 1,365 per day through the two week period. The cumulative total through October 5 was 62,342, a 2- and 3-fold increase above the respective 1999 count and 10-year average at the project. Coho passage at The Dalles Dam were between 130 and 2,200 for the Report period with those fish bound for the Umatilla, Yakama, upper Columbia River, or the Snake River. Counts at Ice Harbor totaled 535 and at Rock Island about 1,200.

NOTE: At McNary Dam an approximate 12” gap was discovered along the bottom of the Oregon shore picket leads(downstream). This would allow fish to pass the counting window undetected if an upstream exit was present. An approximate 12” opening is located in the upper right hand corner of the upstream leads(always open). Potentially few to thousands of salmon(species) could have passed through this ladder undetected, hence uncounted. Therefore, this could potentially explain why the McNary counts appear to be so much less than the counts at John Day.

Hatchery Releases – A volitional release of approximately 83,000 juvenile spring chinook from Warm Springs NFH will begin on September 28 and go through November 14 [These fish will be considered as Year 2001 migrants even though a portion of them might migrate in fall 2000.

Hatchery sockeye in the Columbia and Snake River basins are scheduled for release in October or early November 2000. These sockeye will normally hold in the Lakes through the winter and early spring months before initiating their juvenile migration to the ocean during late April through early June.

Check the FPC website for more detailed information on hatchery releases for the year 2000 migration.

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
09/22/00	85.4	0.1	87.5	0.0	90.4	0.0	92.2	0.0	90.3	0.0	94.0	1.9	94.7	1.7
09/23/00	62.8	0.1	64.5	0.0	68.2	0.0	64.9	0.0	66.9	0.0	75.0	1.8	74.7	1.9
09/24/00	61.0	0.1	62.8	0.0	63.3	0.0	61.8	0.0	60.3	0.0	55.5	1.9	52.9	2.0
09/25/00	80.6	0.1	83.7	0.0	87.6	0.0	91.8	0.0	90.4	0.0	91.2	1.9	92.4	2.1
09/26/00	73.3	0.1	73.3	0.0	73.0	0.0	74.8	0.0	74.6	0.0	80.9	1.9	82.7	1.9
09/27/00	81.0	0.1	77.6	0.0	76.1	0.0	76.7	0.0	74.8	0.0	74.8	1.9	74.1	1.9
09/28/00	81.8	0.1	84.5	0.0	84.0	0.0	83.3	0.0	83.3	0.0	83.3	1.3	84.1	1.6
09/29/00	80.9	0.1	86.2	0.0	88.9	0.0	90.9	0.0	89.4	0.0	93.8	1.9	93.1	1.9
09/30/00	56.8	0.1	58.7	0.0	61.9	0.0	65.0	0.0	66.8	0.0	70.7	1.9	78.0	1.9
10/01/00	64.0	0.1	63.9	0.0	62.1	0.0	60.3	0.0	59.7	0.0	55.2	2.0	52.7	1.8
10/02/00	86.6	0.1	80.6	0.0	84.6	0.0	91.5	0.0	92.4	0.0	105.0	2.1	106.3	2.0
10/03/00	69.8	0.1	76.7	0.0	75.9	0.0	74.9	0.0	75.0	0.0	80.2	1.9	84.4	0.8
10/04/00	54.2	0.0	58.9	0.0	66.8	0.0	71.5	0.0	70.7	0.0	79.9	1.6	81.1	0.0
10/05/00	74.4	0.0	71.0	0.0	66.9	0.0	65.4	0.0	63.4	0.0	56.7	1.7	57.9	0.7

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

Date	Dworshak		Brownlee		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
09/22/00	1.5	0.0	12.6	15.4	23.7	0.0	22.8	0.0	23.8	0.0	22.3	0.0		
09/23/00	1.5	0.0	13.1	18.2	25.1	0.0	27.2	0.0	30.6	0.0	33.5	0.0		
09/24/00	1.5	0.0	14.0	18.4	22.7	0.0	18.8	0.0	18.2	0.0	15.7	0.0		
09/25/00	1.5	0.0	14.0	9.9	24.8	0.0	25.6	0.0	27.1	0.0	26.9	0.0		
09/26/00	1.5	0.0	14.2	5.6	26.7	0.0	24.9	0.0	25.4	0.0	23.7	0.0		
09/27/00	1.5	0.0	13.0	5.8	26.2	0.0	25.5	0.0	26.9	0.0	27.0	0.0		
09/28/00	1.5	0.0	12.7	5.8	15.3	0.0	15.9	0.0	16.0	0.0	15.0	0.0		
09/29/00	1.5	0.0	13.0	9.3	13.9	0.0	15.2	0.0	16.2	0.0	15.3	0.0		
09/30/00	1.5	0.0	14.1	9.4	12.8	0.0	14.5	0.0	15.1	0.0	14.7	0.0		
10/01/00	1.5	0.0	14.0	15.1	16.5	0.0	17.7	0.0	18.7	0.0	18.5	0.0		
10/02/00	1.5	0.0	13.6	20.8	30.8	0.0	25.2	2.1	27.8	0.0	30.4	0.0		
10/03/00	1.6	0.0	14.2	20.9	32.9	0.0	33.4	0.0	32.4	0.0	29.7	0.0		
10/04/00	1.6	0.0	---	---	33.4	0.0	34.0	0.0	37.3	0.0	36.7	0.0		
10/05/00	1.5	0.0	---	---	30.6	0.0	31.8	0.0	31.5	0.0	31.3	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		
09/22/00	118.8	0.0	125.0	1.0	128.4	0.0	138.9	0.0	15.2	114.5
09/23/00	126.1	0.0	107.9	1.0	106.8	0.0	113.4	0.0	0.5	103.7
09/24/00	86.1	0.0	90.3	0.8	93.6	0.0	114.7	0.0	0.5	105.0
09/25/00	101.4	0.0	105.0	1.0	108.1	0.0	112.7	0.0	6.1	97.4
09/26/00	109.3	0.0	119.5	0.9	119.8	0.0	124.3	0.0	8.8	106.3
09/27/00	105.0	0.0	102.0	1.0	104.1	0.0	110.8	0.0	3.5	98.1
09/28/00	94.6	0.0	96.1	0.9	98.2	0.0	100.0	0.0	0.6	90.2
09/29/00	94.2	0.0	93.1	0.9	95.8	0.0	101.0	0.0	0.6	91.2
09/30/00	110.8	0.0	106.1	0.9	103.1	0.0	101.8	0.0	6.4	86.2
10/01/00	81.9	0.0	84.7	1.0	90.5	0.0	110.1	0.0	7.5	93.4
10/02/00	92.8	0.0	100.5	1.0	103.1	0.0	105.2	0.0	0.6	95.4
10/03/00	122.1	3.7	106.6	1.0	104.9	0.0	109.5	0.0	8.4	91.9
10/04/00	126.0	0.0	126.5	0.9	126.2	0.0	133.2	0.0	21.9	102.1
10/05/00	112.3	0.0	117.1	1.1	116.9	0.0	128.2	0.0	16.2	102.8

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	Hungry H. Dnst			Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph				
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	
9/22	100	100	100	24	101	101	102	24	104	104	104	24	104	105	107	24	103	103	104	23
9/23	100	100	100	24	100	101	101	24	103	103	103	24	103	104	106	24	102	103	103	23
9/24	99	100	100	24	99	100	100	24	102	103	103	24	103	104	107	24	101	102	103	23
9/25	100	100	100	24	99	99	100	24	103	103	103	24	103	104	106	24	103	103	104	23
9/26	100	101	101	24	98	99	99	24	103	103	103	24	103	104	106	24	103	104	104	23
9/27	100	100	101	24	98	98	99	24	103	103	103	24	103	104	107	24	104	104	105	23
9/28	100	101	101	24	98	98	99	24	103	103	103	24	103	104	106	24	104	104	105	23
9/29	101	102	102	24	98	98	99	24	103	103	103	24	103	104	107	24	103	104	104	23
9/30	99	102	102	22	99	99	99	24	103	104	104	24	104	105	108	24	104	104	105	23
10/1	96	96	97	16	98	99	99	24	104	104	104	24	104	105	108	24	103	104	104	23
10/2	97	98	100	17	97	97	98	24	104	104	104	24	103	104	107	24	102	102	103	23
10/3	97	97	101	17	97	97	98	24	103	103	104	24	103	104	106	24	102	102	102	23
10/4	97	97	99	18	97	98	98	24	102	103	103	24	103	104	106	24	102	102	102	23
10/5	97	98	99	22	97	97	98	24	102	103	104	24	103	103	105	24	101	102	102	23

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			Wanapum				Wanapum Tlwr				Priest Rapids				Priest R. Dnst				
	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#	24 h		12 h	#
	Avg	Avg	High		hr	Avg	Avg		High	hr	Avg		Avg	High	hr		Avg	Avg	High	
9/22	105	106	107	23	102	102	102	24	103	103	104	24	106	106	107	24	107	107	108	23
9/23	105	105	106	23	101	102	102	24	102	102	103	24	106	106	106	24	107	108	108	24
9/24	104	105	106	23	18	18	19	24	18	18	18	24	18	18	18	24	18	18	18	24
9/25	104	105	106	23	102	102	103	24	102	102	103	24	106	107	107	24	107	108	108	24
9/26	105	106	107	23	103	104	110	23	103	103	104	22	106	107	107	24	108	108	110	24
9/27	106	107	107	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/28	106	106	108	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/29	105	106	106	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/30	105	106	107	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/1	104	105	106	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/2	104	104	105	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/3	104	104	105	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/4	104	105	106	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/5	104	105	105	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

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

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Dworshak			Lower Granite			L. Granite Tlwr			Ice Harbor			Ice Harbor Tlwr							
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
9/22	106	107	109	24	100	100	101	22	98	99	99	22	99	99	100	24	99	100	100	24
9/23	106	107	109	24	98	98	99	24	97	98	98	24	98	99	101	24	98	99	99	24
9/24	106	107	108	24	98	100	101	24	97	98	98	24	97	97	97	24	99	100	102	24
9/25	106	107	109	23	99	100	100	24	97	98	98	24	97	97	97	24	98	98	99	24
9/26	106	107	109	24	98	99	100	24	97	97	97	24	97	98	99	24	98	99	101	24
9/27	106	107	109	24	98	99	100	24	97	97	98	24	99	100	103	24	99	99	100	24
9/28	106	107	108	24	98	99	99	24	97	98	98	24	101	102	103	24	101	102	104	24
9/29	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/30	106	107	107	24	97	98	98	24	98	98	99	24	98	98	99	24	99	100	100	24
10/1	107	107	108	24	98	98	99	24	98	99	99	23	98	98	98	21	99	100	102	24
10/2	106	106	107	24	98	98	98	24	97	98	98	24	97	97	98	21	98	99	100	24
10/3	105	106	109	24	98	99	100	24	97	98	98	24	97	98	99	24	98	99	100	24
10/4	105	108	109	24	98	98	100	24	97	97	98	24	98	98	99	24	98	98	99	24
10/5	108	109	110	24	97	98	98	24	97	97	98	20	99	100	102	24	98	98	99	24

Total Dissolved Gas Saturation Data at Lower Columbia and Snake River Sites

Date	McNary-Oregon			McNary-Wash			McNary Tlwr			Bonneville			Warrendale							
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr
9/22	100	100	101	24	100	100	101	24	100	100	100	24	99	99	100	23	100	100	100	23
9/23	99	100	101	24	99	100	100	24	99	99	99	24	98	99	99	23	99	100	101	23
9/24	99	100	101	24	98	99	100	24	98	99	99	24	98	99	99	23	99	100	100	23
9/25	99	100	102	24	98	99	100	24	98	99	99	24	99	99	99	23	100	100	101	23
9/26	99	101	104	24	99	100	101	24	99	99	100	24	99	99	100	23	100	101	102	23
9/27	100	102	104	24	101	102	104	24	100	101	101	24	99	99	100	23	101	101	102	23
9/28	102	104	106	24	100	101	102	24	101	101	101	24	99	99	100	23	101	101	102	23
9/29	101	101	102	23	100	100	101	23	100	101	101	23	99	100	100	23	101	101	102	23
9/30	102	102	102	24	101	101	101	24	101	101	102	24	100	100	100	23	101	102	102	23
10/1	101	101	102	24	100	101	101	24	101	101	102	24	99	100	100	23	101	101	102	23
10/2	101	101	102	24	99	99	99	24	100	100	100	24	98	98	98	23	100	100	101	23
10/3	100	101	102	24	100	101	102	24	101	103	108	24	98	98	98	23	100	100	101	23
10/4	100	101	102	24	100	101	102	24	100	100	100	24	98	98	99	23	100	100	101	22
10/5	99	99	100	24	100	100	101	24	100	100	102	24	98	98	99	23	100	100	101	23

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)
09/22/00	---	---	---	---	8	0	0	---	0	---	0
09/23/00	---	---	---	---	0	0	1	---	0	---	0
09/24/00	---	---	---	---	4	0	2	---	0	---	0
09/25/00	---	---	---	---	12	0	1	---	0	---	0
09/26/00	---	---	---	---	0	0	0	---	0	---	0
09/27/00	---	---	---	---	0	0	0	---	0	---	0
09/28/00	---	---	---	---	0	0	2	---	0	---	0
09/29/00	---	---	---	---	0	0	1	---	0	---	0
09/30/00	---	---	---	---	0	0	1	---	0	---	0
10/01/00	---	---	---	---	0	0	2	---	0	---	11
10/02/00	---	---	---	---	0	0	1	---	0	---	5
10/03/00	---	---	---	---	1	0	0	---	0	---	5
10/04/00	---	---	---	---	1	0	0	---	0	---	12
10/05/00	---	---	---	---	1	0	4	---	0	---	0
Total:	0	0	0	0	27	0	15	0	0	0	33
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	2	0	1	0	0	0	2

COMBINED SUBYEARLING CHINOOK

	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/22/00	---	---	---	---	1,048	462	317	---	846	---	473
09/23/00	---	---	---	---	1,028	496	427	---	1,038	---	583
09/24/00	---	---	---	---	488	526	143	---	496	---	193
09/25/00	---	---	---	---	340	282	62	---	384	---	105
09/26/00	---	---	---	---	488	91	57	---	320	---	35
09/27/00	---	---	---	---	488	127	98	---	168	---	93
09/28/00	---	---	---	---	676	232	178	---	196	---	42
09/29/00	---	---	---	---	752	187	93	---	92	---	50
09/30/00	---	---	---	---	276	99	47	---	124	---	106
10/01/00	---	---	---	---	260	68	86	---	172	---	107
10/02/00	---	---	---	---	288	89	133	---	204	---	103
10/03/00	---	---	---	---	305	173	126	---	276	---	282
10/04/00	---	---	---	---	489	75	68	---	491	---	743
10/05/00	---	---	---	---	534	214	164	---	632	---	338
Total:	0	0	0	0	7,460	3,121	1,999	0	5,439	0	3,253
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	533	223	143	0	389	0	232

* 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)
09/22/00	---	---	---	---	0	2	2	---	0	---	0
09/23/00	---	---	---	---	0	1	0	---	0	---	0
09/24/00	---	---	---	---	0	2	1	---	0	---	0
09/25/00	---	---	---	---	0	4	0	---	0	---	0
09/26/00	---	---	---	---	0	3	0	---	0	---	0
09/27/00	---	---	---	---	0	1	1	---	0	---	0
09/28/00	---	---	---	---	4	1	1	---	0	---	0
09/29/00	---	---	---	---	0	3	0	---	0	---	0
09/30/00	---	---	---	---	4	0	0	---	0	---	0
10/01/00	---	---	---	---	0	1	2	---	0	---	0
10/02/00	---	---	---	---	4	0	0	---	0	---	0
10/03/00	---	---	---	---	1	0	0	---	0	---	0
10/04/00	---	---	---	---	1	1	0	---	0	---	23
10/05/00	---	---	---	---	1	1	0	---	0	---	48
Total:	0	0	0	0	15	20	7	0	0	0	71
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	1	1	1	0	0	0	5

COMBINED STEELHEAD

	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
09/22/00	---	---	---	---	32	13	9	---	0	---	0
09/23/00	---	---	---	---	24	12	9	---	0	---	0
09/24/00	---	---	---	---	12	8	6	---	0	---	0
09/25/00	---	---	---	---	12	13	5	---	8	---	0
09/26/00	---	---	---	---	8	6	10	---	0	---	0
09/27/00	---	---	---	---	8	4	7	---	0	---	0
09/28/00	---	---	---	---	4	7	3	---	0	---	0
09/29/00	---	---	---	---	4	16	6	---	0	---	0
09/30/00	---	---	---	---	0	7	0	---	0	---	0
10/01/00	---	---	---	---	4	2	4	---	0	---	0
10/02/00	---	---	---	---	0	1	3	---	0	---	0
10/03/00	---	---	---	---	6	4	4	---	0	---	0
10/04/00	---	---	---	---	6	6	4	---	0	---	18
10/05/00	---	---	---	---	13	14	7	---	0	---	12
Total:	0	0	0	0	133	113	77	0	8	0	30
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	10	8	6	0	1	0	2

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)
09/22/00	---	---	---	---	20	5	3	---	6	---	0
09/23/00	---	---	---	---	4	3	3	---	12	---	0
09/24/00	---	---	---	---	12	4	2	---	0	---	0
09/25/00	---	---	---	---	20	2	2	---	12	---	0
09/26/00	---	---	---	---	0	4	1	---	4	---	9
09/27/00	---	---	---	---	20	2	3	---	8	---	0
09/28/00	---	---	---	---	0	4	1	---	4	---	5
09/29/00	---	---	---	---	20	1	1	---	4	---	0
09/30/00	---	---	---	---	16	2	0	---	8	---	0
10/01/00	---	---	---	---	24	0	0	---	0	---	0
10/02/00	---	---	---	---	8	0	1	---	4	---	0
10/03/00	---	---	---	---	7	2	1	---	4	---	5
10/04/00	---	---	---	---	19	2	0	---	4	---	6
10/05/00	---	---	---	---	8	9	0	---	0	---	0
Total:	0	0	0	0	178	40	18	0	70	0	25
# Days:	0	0	0	0	14	14	14	0	14	0	14
Average:	0	0	0	0	13	3	1	0	5	0	2

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 10/05

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	30,616	13,554	26,169	4,022	20,522	2,637	188,389	51,686	235,952	21,110	172,020	27,120
TDA	102,953	14,796	17,563	6,180	36,497	1,828	25,147	10,433	21,730	3,207	16,441	1,905	121,119	33,174	125,796	16,930	94,545	18,697
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	100,138	31,926	99,832	10,460	71,443	13,258
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	62,473	16,311	70,594	6,985	59,380	13,625
IHR	38,234	9,129	5,351	2,657	15,091	720	4,241	3,182	3,900	1,311	4,465	461	5,821	7,537	5,758	2,326	3,218	1,104
LMN	35,634	10,389	3,924	2,726	14,041	753	4,678	3,288	3,372	1,344	4,195	468	4,527	6,923	4,766	2,099	2,140	845
LGS	34,468	10,152	3,445	2,690	**	**	4,160	3,776	3,273	1,583	**	**	2,466	3,046	2,996	915	**	**
LWG	33,822	10,318	3,296	2,507	12,180	669	3,933	3,736	3,260	1,584	4,222	494	2,990	4,173	2,733	1,073	995	334
PRD	19,143	1,085	4,139	761	9,052	194	22,306	2,503	20,896	517	14,069	596	27,899	2,211	25,888	802	9,775	1,254
RIS	14,400	1,429	3,309	915	6,567	218	18,717	11,367	18,588	1,548	11,793	977	9,090	3,260	6,265	669	3,602	1,029
RRH	5,336	392	1,389	233	1,501	54	13,422	3,991	10,536	1,140	5,185	476	5,663	1,369	3,997	3,959	2,136	800
WEL	2,143	457	141	199	752	53	6,354	3,596	7,335	541	3,247	354	1,502	937	1,227	486	767	199

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	62,342	9,441	34,243	2,873	19,340	3,035	93,391	17,875	42,103	270,340	201,812	212,141	75,116
TDA	23,108	4,116	11,361	1,411	4,116	872	73,385	13,715	32,881	191,394	148,481	139,831	50,713
JDA	17,362	2,766	9,764	1,103	3,157	750	88,228	14,807	34,266	190,224	145,091	115,622	47,945
MCN	7,031	811	3,344	193	1,139	321	58,271	11,794	35,746	107,078	75,442	93,638	24,837
IHR	535	141	58	4	9	0	213	8	9	89,612	66,684	64,129	18,229
LMN	203	86	15	2	1	1	289	15	8	80,329	57,033	52,740	15,247
LGS	82	2	2	0	**	**	299	16	**	62,094	42,607	**	10,864
LWG	251	26	25	2	3	0	282	14	7	74,553	51,964	41,523	14,202
PRD	70	4	46	4	11	0	89,878	16,360	40,492	9,359	7,435	7,064	***
RIS	1,213	NA	0	0	7	0	76,512	18,364	35,969	9,959	5,851	6,167	3,214
RRH	302	NA	0	0	1	0	57,428	14,111	18,553	7,620	4,291	4,112	1,659
WEL	0	0	0	0	2	0	59,867	12,224	17,207	5,764	2,958	2,877	1,449

Note: RIS, RRH are from Chelan CO PUD and are through 10/3.

Note: LGS is through 9/29; LMN is through 10/4; WEL are through 10/1; PRD is through 9/27.

Note: LGR is missing 7/12, 7/31, 8/18, 8/31 and has duplicate counts for 8/24 and 8/25.

Note: RIS and RRH are missing 07/16 to 07/18. TDA is missing 9/29 to 10/1.

Note: LMN is missing 09/05; WEL is missing 8/21 and 8/28.

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
09/22/00 TO 10/05/00

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR*	Sum Of NumberCollected	7,460	27	15	178	133	7,813
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	0	0	0	0	25	25
	Sum Of NumberTrucked	7,413	27	15	168	107	7,730
	Sum Of TotalProjectMort	47	0	0	10	1	58
LGS	Sum Of NumberCollected	3,106		20	40	113	3,279
	Sum Of NumberBarged	0		0	0	0	0
	Sum Of NumberBypassed	0		0	0	0	0
	Sum Of NumberTrucked	3,056		18	32	112	3,218
	Sum Of TotalProjectMort	50		2	8	1	61
LMN*	Sum Of NumberCollected	1,999	15	7	18	77	2,116
	Sum Of NumberBarged	0	0	0	0	0	0
	Sum Of NumberBypassed	1	0	7	0	74	82
	Sum Of NumberTrucked	1,982	14	0	17	2	2,015
	Sum Of TotalProjectMort	16	1	0	1	1	19
MCN	Sum Of NumberCollected	5,424			70	8	5,502
	Sum Of NumberBarged	0			0	0	0
	Sum Of NumberBypassed	0			0	0	0
	Sum Of NumberTrucked	5,338			70	4	5,412
	Sum Of TotalProjectMort	86			0	4	90
Total Sum Of NumberCollected		17,989	42	42	306	331	18,710
Total Sum Of NumberBarged		0	0	0	0	0	0
Total Sum Of NumberBypassed		1	0	7	0	99	107
Total Sum Of NumberTrucked		17,789	41	33	287	225	18,375
Total Sum Of TotalProjectMort		199	1	2	19	7	228

YTD Transportation Summary
TO: 10/05/00

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR*	Sum Of NumberCollected	667,984	2,450,012	122,048	6,677	5,039,311	8,286,032
	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	226,295	342,201
	Sum Of NumberTrucked	131,822	7,056	556	886	17,457	157,777
	Sum Of TotalProjectMort	3,021	3,304	47	78	738	7,188
LGS	Sum Of NumberCollected	329,264	1,357,136	41,681	3,678	1,055,458	2,787,217
	Sum Of NumberBarged	282,653	1,348,003	40,148	3,281	1,045,300	2,719,385
	Sum Of NumberBypassed	0	0	0	0	0	0
	Sum Of NumberTrucked	67,559	4,473	1,497	343	9,107	82,979
	Sum Of TotalProjectMort	2,391	5,323	95	74	1,446	9,329
LMN*	Sum Of NumberCollected	187,665	608,611	19,159	4,325	766,203	1,585,963
	Sum Of NumberBarged	146,077	556,132	18,198	4,239	761,544	1,486,190
	Sum Of NumberBypassed	19,842	24,873	300	0	2,136	47,151
	Sum Of NumberTrucked	20,740	26,052	626	82	1,785	49,285
	Sum Of TotalProjectMort	1,006	1,566	35	4	739	3,350
MCN	Sum Of NumberCollected	9,200,786	1,164,638	169,051	95,511	365,773	10,995,759
	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	536,682	16	278	6,336	75	543,387
	Sum Of TotalProjectMort	57,178	1,212	813	739	518	60,460
Total Sum Of NumberCollected		10,385,699	5,580,397	351,939	110,191	7,226,745	23,654,971
Total Sum Of NumberBarged		8,864,358	4,254,339	206,384	41,874	6,612,801	19,979,756
Total Sum Of NumberBypassed		724,282	1,277,732	141,666	59,795	582,961	2,786,436
Total Sum Of NumberTrucked		756,803	37,597	2,957	7,647	28,424	833,428
Total Sum Of TotalProjectMort		63,596	11,405	990	895	3,441	80,327

