Fish Passage Center

Weekly Report #10 - 27

September 17, 2010

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Summary of Events:

NOTE: This is the last weekly report of the season; bi-weekly reports begin October 1st through the end of October.

Water Supply: Precipitation throughout the Columbia Basin has varied between 12% and 99% of average at individual sub-basins over August. Precipitation above The Dalles has been 76% of average over August. Over the 2010 water year, precipitation has ranged between 84% and 100% of average.

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

Location	Water Year 2010 August 1-30		Water Year 2010 October 1, 2009 to August 30, 2010	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.34	82	20.86	87
Snake River Above Ice Harbor	0.68	82	16.20	96
Columbia Above The Dalles	0.87	76	20.41	92
Kootenai	1.32	81	20.62	84
Clark Fork	1.25	99	15.29	92
Flathead	1.39	89	21.95	100
Pend Oreille/ Spokane	0.47	38	27.64	93
Central Washington	0.05	12	8.67	100
Snake River Plain	0.54	96	9.81	91
Salmon/Boise/ Payette	0.46	67	18.54	97
Clearwater	0.84	72	27.71	94
SW Washington Cascades/Cowlitz	0.19	13	61.84	90
Willamette Valley	0.38	36	53.63	93

Table 2 displays the June Final and July Final runoff volume forecasts for multiple reservoirs. The July Final Runoff Volume Forecasts remained similar to the June Final Forecasts at Upper Columbia locations; however increased between 11-18% relative to the June Final forecasts at Snake River locations. The current forecast at The Dalles between January and July is 81900 Kaf (76% of average).

Table 2. June Final and July Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	June Final		July Final	
	% Average (1971 -2000)	Probable Runoff Volume (Kaf)	% Average (1971 -2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	69	74000	76	81900
Grand Coulee (Jan-July)	74	46400	76	47900
Libby Res. Inflow, MT (Apr-Aug)	71	4420	71	4440
Hungry Horse Res. Inflow, MT (Jan-July)	75	1660	81	1800
Lower Granite Res. Inflow (Apr- July)	68	14600	86	18600
Brownlee Res. Inflow (Apr-July)	58	3670	74	4680
Dworshak Res. Inflow (Apr-July)	63	1670	74	1950

* Denotes COE Forecast

The Summer Biological Opinion flow period began on June 21 in the lower Snake River (Lower Granite). According to the June Final Water Supply Forecast, the summer flow objective this summer was 50 Kcfs at Lower Granite, flows at Lower Granite Dam averaged 47.0 Kcfs from June 21-August 31. The weekly average flow at Lower Granite Dam for the past week was 25.81 Kcfs.

The Summer Biological Opinion flow period began on July 1st at McNary Dam with a flow objective of 200 Kcfs. Flows from July 1st to August 31st averaged 154.8 Kcfs. Over the past week, the weekly average flow at Priest Rapids Dam was 48.8 Kcfs. Weekly average flow at McNary Dam over the past week was 79.2 Kcfs, while weekly average flows at Bonneville Dam were 86.25 Kcfs.

The Grand Coulee Reservoir is at 1280.6 feet (9-16-10) and refilled 1.4 feet over the last week. Daily average outflows at Grand Coulee have ranged between 40 and 59 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2440.4 feet (9-16-10) and drafted 0.41 feet last week. Daily average outflows at Libby Dam have ranged from been 4.4-7.9 Kcfs over the past week.

Hungry Horse is currently at an elevation of 3543.7 feet (9-16-10) and has drafted 1.55 ft last week. Daily average outflows at Hungry Horse have been 3.9 Kcfs over the past week.

Dworshak is currently at an elevation of 1520.6 feet (9-16-10) and has drafted approximately 3.1 feet over the past week. Daily average outflows from Dworshak have ranged from 2.4 – 8.3 Kcfs over the past week.

The Brownlee Reservoir was at an elevation of 2052.85 feet on September 16, 2010 drafting 1.39 feet since September 10. Over the past week, outflows at Brownlee have ranged between 9.2 - 14.7 Kcfs.

Smolt Monitoring:

Subyearling Chinook indices continued to decrease over the past week at Columbia River sites, while in the Snake River the numbers passing were low but stayed similar to last week. Sampling ended at John Day Dam on September 15 as scheduled.

At Lower Granite Dam passage indices for subyearling Chinook remained even this past week with the index averaging 135 per day over the past two weeks. Little Goose Dam also saw the average index remain low but steady with this past week's average 20 per day compared to 21 per day last week. At Lower Monumental Dam passage indices were very low this past week with the average daily index at 7 compared to 17 the previous week.

At McNary Dam subyearling Chinook indices averaged 1,200 per day this week compared to 2,400 per day average last week. At Bonneville Dam the index averaged 600 per day this week compared to 1,400 per day last week.

Hatchery Release:

Snake River Zone: The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. There were no releases of juvenile salmonids scheduled for this zone this week. Furthermore, there are no releases of juvenile salmonids scheduled for this zone over the next two weeks.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. There were no releases of juvenile salmonids scheduled for this zone this week. Furthermore, there are no releases of juvenile salmonids scheduled for this zone over the next two weeks.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no releases of juvenile salmonids scheduled for this zone this week. There are also no releases of juvenile salmonids scheduled for this zone over the next two weeks.

Adult Fish Passage:

Daily counts of fall Chinook at Bonneville Dam ranged from 10,620 to 12,135. The 2010 adult fall Chinook count of 328,675 is 1.39 times greater than the 2009 count and 1.11 times greater than the 10 average. The 2010 Bonneville Dam fall Chinook jack count of 36,677 is about 42% of the 2009 count. However, the 2010 fall Chinook jack count is about 1.11 times greater than the 10 year average. The 2010 McNary Dam adult fall Chinook count of 80,404 is about 1.26 times greater than the 2009 count and about 1.42 times greater than the 10 year average. The 2010 fall Chinook jack McNary Dam jack count of 10,002 is about 26.3% of the 2009 count and about 87% of the 10 year average. The 2010 Lower Granite fall Chinook adult dam count of 16,885 is about 1.94 times greater than the 2009 count and 3.38 times greater than the 10 year average. Daily steelhead counts at Bonneville Dam for the past week ranged between 2,147 and 4,062. The Bonneville Dam 2010 steelhead count of 380,279 is about 68.1% of

the 2009 count of 558,148. However, the 2010 steelhead count is about 1.08 times greater than of the 10 year average of 350,857. At Willamette Falls Dam, the 2010 count for steelhead was 28,946, as of September 7th. This year's steelhead count is about 1.67 times greater than the 2009 count of 17,325 at Willamette Falls Dam for the same date range.

During this time of year, there are times when there are higher steelhead counts at upstream projects compared to downstream projects. The higher counts of steelhead at upstream sites compared to downstream sites in any particular year is because some steelhead spend the winter between sites, for instance between Ice Harbor and Lower Granite, and then start their migration upstream the following year. The summer steelhead run is delineated according to dates of passage past Bonneville Dam and is made up of two components. A-run steelhead are considered those that pass Bonneville Dam from the first of June through August 25th and B-run steelhead pass Bonneville from August 26th through October. The 2010 B-run adult steelhead count at Bonneville of 76,191 is about 66.7% of the 2009 count of 114,162 and about 81.7% of the 10 year average count of 93,161.

In the Snake River, this year's Lower Granite steelhead count of 77,179 is about 78.7% of the 2009 count, while being about 1.76 times greater than the 10 year average count of 43,813. The 2010 LGR wild steelhead count as of September 16th was 26,229. The 2010 Rock Island Dam adult steelhead count of 17,234 is about 63.9% of the 2009 count, while being 1.44 times greater than the 10 year average.

The 2010 adult coho count at Bonneville Dam is 37,391 adults and 2,570 jacks. The Bonneville 2010 adult coho count is about 34.6% of the 2009 count and about 53.9% of the 10 year average. The Bonneville 2010 coho jack count is about 54.3% of the 2009 count of 4,735 and about 69.9% of the 10 year average count of 3,676.

Hatchery Releases Last Two Weeks

There were no hatchery releases from 09/03/10-9/16/10.

Hatchery Releases Next Two Weeks

There are no hatchery releases planned from 09/17/10-10/01/10.

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

	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
09/03/2010	63.3	0.2	57.2	0.0	57.8	0.0	59.2	0.0	61.2	0.0	63.1	1.7	59.6	1.0
09/04/2010	42.2	0.2	38.5	0.0	41.5	0.0	44.2	0.0	46.6	0.0	50.5	1.9	49.2	0.9
09/05/2010	36.3	0.2	40.2	0.0	39.6	0.0	38.7	0.0	39.9	0.0	40.1	1.9	40.2	1.0
09/06/2010	51.1	0.2	54.6	0.0	57.7	0.0	52.6	0.0	53.5	0.0	58.5	1.9	50.2	1.0
09/07/2010	50.6	0.2	52.3	0.0	56.2	0.0	58.8	0.0	60.9	0.0	76.7	1.7	74.2	1.0
09/08/2010	42.8	0.2	40.7	0.0	48.6	0.0	50.8	0.0	53.4	0.0	65.8	1.4	65.1	1.0
09/09/2010	42.5	0.2	42.4	0.0	41.2	0.0	41.0	0.0	44.1	0.0	44.9	1.2	46.0	1.0
09/10/2010	40.2	0.2	43.2	0.0	42.2	0.0	43.6	0.0	44.1	0.0	45.2	1.3	39.7	1.0
09/11/2010	45.4	0.2	42.7	0.0	46.2	0.0	45.9	0.0	47.8	0.0	46.3	1.5	38.5	1.0
09/12/2010	50.0	0.2	51.7	0.0	47.3	0.0	42.8	0.0	44.4	0.0	41.1	1.6	42.1	1.0
09/13/2010	59.2	0.2	59.8	0.0	64.1	0.0	66.8	0.0	70.3	0.0	67.0	1.9	59.5	1.0
09/14/2010	41.4	0.2	42.2	0.0	47.3	0.0	46.9	0.0	47.0	0.0	62.8	1.7	62.9	1.0
09/15/2010	45.2	0.2	44.1	0.0	48.5	0.0	49.9	0.0	53.3	0.0	54.2	1.4	53.8	1.1
09/16/2010	48.4	0.2	47.4	0.0	50.1	0.0	51.3	0.0	52.2	0.0	64.7	1.3	61.6	1.0

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
09/03/2010	8.1	0.0	10.2	8.7	27.0	0.0	26.0	0.0	23.8	0.0	24.1	0.0
09/04/2010	8.2	0.0	9.6	8.9	25.7	0.0	18.3	0.0	15.5	0.0	12.0	0.0
09/05/2010	8.2	0.0	9.5	9.1	25.4	0.0	22.2	0.0	22.3	0.0	20.2	0.0
09/06/2010	8.2	0.0	9.6	9.1	24.6	0.0	22.9	0.0	23.6	0.0	25.0	0.0
09/07/2010	8.2	0.0	9.8	12.2	26.6	0.0	27.9	0.0	25.0	0.0	21.9	0.0
09/08/2010	7.8	0.4	10.3	11.3	25.0	0.0	22.6	0.0	24.0	0.0	24.7	0.0
09/09/2010	7.9	0.2	10.9	11.4	25.5	0.0	14.7	0.0	13.6	0.0	12.9	0.0
09/10/2010	8.3	0.0	10.4	10.2	27.6	0.0	25.6	0.0	28.4	0.0	28.2	0.0
09/11/2010	5.9	0.0	10.6	9.0	27.0	0.0	32.2	0.0	32.2	0.0	34.3	0.0
09/12/2010	5.9	0.0	10.9	10.0	24.7	0.0	20.6	0.0	20.5	0.0	19.1	0.0
09/13/2010	4.8	0.0	12.3	14.4	24.4	0.0	32.9	0.0	34.6	0.0	33.3	0.0
09/14/2010	4.8	0.0	11.7	13.8	27.5	0.0	24.7	0.0	24.5	0.0	24.2	0.0
09/15/2010	2.4	0.0	11.1	13.6	25.5	0.0	27.3	0.0	27.2	0.0	27.8	0.4
09/16/2010	2.4	0.0	11.3	14.2	24.0	0.0	22.5	0.0	29.6	0.0	28.7	0.1

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
09/03/2010	82.9	0.0	80.2	0.9	81.9	0.0	91.2	1.6	1.7	80.5
09/04/2010	68.0	0.0	61.5	1.0	64.5	0.0	80.9	1.5	0.0	72.0
09/05/2010	68.8	0.0	62.8	0.8	64.9	0.0	76.8	1.5	10.5	57.4
09/06/2010	68.0	0.0	65.5	1.0	70.1	0.0	73.9	1.7	15.4	49.4
09/07/2010	88.9	0.0	87.3	0.7	89.1	0.0	86.5	1.5	15.5	62.1
09/08/2010	92.8	0.0	89.5	0.9	91.7	0.0	98.4	1.5	15.3	74.2
09/09/2010	86.9	0.0	82.6	0.9	84.3	0.0	94.4	1.4	16.6	69.0
09/10/2010	68.0	0.0	69.3	1.0	72.5	0.0	79.8	1.5	16.5	54.4
09/11/2010	70.2	0.0	63.8	0.9	68.1	0.0	72.9	1.5	6.3	57.8
09/12/2010	60.2	0.0	65.8	0.9	68.6	0.0	72.7	1.5	0.0	63.8
09/13/2010	87.2	0.0	75.8	1.1	77.9	0.0	85.1	1.5	8.5	67.7
09/14/2010	87.8	0.0	82.8	0.9	85.6	0.0	93.1	1.5	7.9	76.3
09/15/2010	93.2	0.0	90.7	1.1	94.2	0.0	100.9	1.5	12.8	79.2
09/16/2010	88.3	0.0	88.2	0.9	90.0	0.0	99.3	1.5	12.1	78.2

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

	Hungry H. Dnst				Boundary				Grand Coulee				Grand C. Tlwr				Chief Joseph			
Date	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
9/3	101.9	102.4	102.6	24	103.1	104.0	104.7	24	102.2	102.5	102.8	24	103.8	104.7	105.2	24	103.8	104.5	105.0	24
9/4	102.8	103.2	103.4	24	103.6	104.2	104.6	24	102.3	102.4	102.6	24	103.9	104.9	105.3	24	104.2	104.5	105.0	24
9/5	102.5	102.9	103.4	24	103.1	103.5	103.9	24	102.4	102.5	102.8	24	103.8	104.5	106.3	24	102.7	103.3	103.4	24
9/6	102.2	102.4	102.6	24	102.2	102.8	103.4	22	102.4	102.5	102.8	24	103.4	104.1	104.9	22	103.6	104.3	104.6	24
9/7	102.5	102.8	103.2	23	102.5	103.1	103.7	22	102.5	102.7	102.8	24	104.3	104.6	105.9	22	104.1	104.7	104.9	24
9/8	104.6	105.9	107.1	24	102.4	102.7	103.5	23	102.4	102.5	102.5	24	104.4	104.7	104.9	23	103.8	104.4	104.9	24
9/9	104.3	104.8	105.5	24	102.4	102.9	103.3	24	101.9	102.0	102.1	24	104.4	104.8	105.2	24	103.8	104.3	104.7	24
9/10	102.9	103.0	103.2	23	102.0	102.4	103.0	20	101.1	101.2	101.2	24	103.2	103.8	104.6	20	103.5	103.9	104.6	24
9/11	102.4	102.6	102.9	24	101.7	102.2	103.0	22	100.4	100.7	101.2	24	103.0	103.4	103.7	22	104.1	105.0	105.9	24
9/12	102.1	102.3	102.5	24	102.3	102.9	103.6	24	100.6	100.9	101.0	24	102.7	103.3	103.7	24	104.5	105.1	105.8	24
9/13	102.3	102.6	102.8	22	103.1	103.6	104.3	18	100.9	101.8	106.8	24	104.4	105.0	105.6	18	104.3	105.0	106.0	24
9/14	102.5	102.8	102.9	24	103.9	104.7	105.1	23	100.5	100.9	101.2	24	104.2	104.5	104.9	23	104.5	105.1	105.6	24
9/15	102.4	102.7	103.1	24	103.4	104.3	105.1	22	100.9	101.3	101.5	24	104.1	104.5	104.9	22	104.9	105.7	106.2	24
9/16	102.0	102.2	102.5	24	103.8	104.9	105.8	22	101.0	101.1	101.4	24	104.1	104.3	104.9	22	105.7	106.0	106.3	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	Chief J. Dnst				Wells				Wells Dwnstrm				Rocky Reach				Rocky R. Tlwr			
Date	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
9/3	103.8	105.0	105.7	24	105.6	107.1	108.3	24	105.1	106.7	107.1	24	103.9	104.2	104.6	24	102.5	102.9	103.4	24
9/4	104.3	105.0	105.6	24	106.1	106.7	107.1	24	105.7	106.3	106.8	24	103.9	104.2	104.7	24	102.5	102.8	103.1	24
9/5	105.2	106.6	108.3	24	105.3	105.8	106.2	24	105.4	106.0	106.7	24	103.3	103.6	103.9	24	102.0	102.3	102.4	24
9/6	105.4	106.3	107.2	24	104.0	104.5	105.0	24	104.1	104.7	105.4	24	103.4	103.7	104.1	24	101.9	102.7	103.1	24
9/7	106.3	107.1	108.3	24	103.1	103.5	103.7	24	103.3	103.6	103.8	24	103.4	103.4	103.5	24	102.2	102.6	102.9	24
9/8	106.3	107.3	108.8	24	104.4	105.0	106.0	24	104.2	104.7	105.9	24	103.4	103.7	103.9	24	102.3	102.7	103.0	24
9/9	106.5	107.6	108.7	24	104.6	105.2	105.5	24	104.9	105.9	107.8	24	103.8	104.0	104.3	24	102.2	102.6	102.8	24
9/10	105.2	106.3	107.9	24	104.4	104.9	105.6	24	104.3	105.0	105.8	24	102.9	103.2	103.6	24	101.3	101.5	101.9	24
9/11	105.9	106.9	107.7	24	104.4	105.1	106.2	24	104.1	104.8	105.6	24	102.3	102.8	103.2	24	101.0	101.4	101.8	24
9/12	105.8	106.7	108.0	24	104.6	105.0	105.4	24	104.2	105.0	105.7	24	102.2	102.7	103.2	24	100.9	101.4	101.6	24
9/13	104.7	105.6	107.1	24	105.1	106.1	106.9	24	104.9	106.0	106.6	24	103.1	103.7	104.2	24	101.8	102.6	103.0	24
9/14	105.8	107.0	109.1	24	106.3	107.4	108.8	24	105.7	106.8	107.8	24	104.1	104.6	105.3	24	102.1	102.9	103.4	24
9/15	105.7	106.8	107.8	24	105.9	106.7	107.8	24	105.4	106.5	107.5	24	104.0	104.0	104.5	13	102.0	102.1	102.7	13
9/16	106.6	107.9	109.7	24	105.8	106.3	107.1	23	105.6	106.3	106.9	23	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation at Mid Columbia River Sites

	Rock Island				Rock I. Tlwr				Wanapum				Wanapum Tlwr				Priest Rapids			
Date	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
9/3	103.2	103.7	104.0	24	103.9	104.2	104.6	24	104.5	106.0	107.2	24	104.4	105.1	105.5	24	103.0	103.3	104.0	24
9/4	103.5	103.8	104.0	24	104.0	104.3	104.7	24	102.9	103.6	104.0	24	104.8	105.5	106.7	24	103.2	103.5	103.9	24
9/5	102.1	102.4	102.9	24	102.5	102.9	103.4	24	100.8	101.4	101.7	24	103.2	103.8	105.0	24	101.4	101.8	102.7	24
9/6	102.4	103.3	103.9	24	102.7	103.5	104.2	24	100.2	101.1	102.2	24	102.5	103.2	104.2	24	100.3	100.5	100.8	24
9/7	103.0	103.2	103.5	24	103.3	103.7	103.9	24	102.1	102.9	103.4	24	103.5	104.0	104.4	24	101.5	102.1	102.5	24
9/8	102.5	102.7	103.0	24	102.9	103.1	103.5	24	101.7	103.0	103.8	24	103.3	103.7	104.1	24	102.3	102.5	102.7	24
9/9	102.6	103.0	103.6	24	103.0	103.3	103.9	24	101.2	102.1	102.6	24	102.6	103.2	104.0	24	101.9	102.1	102.5	24
9/10	102.0	102.7	103.5	24	102.4	103.1	103.8	24	98.6	99.7	100.3	24	101.1	101.6	102.3	24	100.2	100.5	101.1	24
9/11	101.7	102.3	102.9	24	102.2	102.8	103.5	24	98.6	99.9	101.0	24	100.9	101.5	102.3	24	99.4	99.6	99.9	24
9/12	101.8	102.4	103.2	24	102.3	103.0	103.6	24	99.5	100.5	101.8	18	101.4	102.3	102.9	24	99.2	99.6	100.5	24
9/13	101.8	102.3	103.0	24	102.2	102.7	102.8	24	101.9	103.4	104.2	24	101.7	102.2	102.7	24	100.4	100.6	100.6	24
9/14	103.0	103.5	104.6	24	103.3	103.9	104.4	24	101.9	103.1	104.5	24	102.3	102.8	103.5	24	100.7	100.9	101.2	24
9/15	103.0	103.1	103.9	13	103.4	103.4	104.6	13	102.5	103.3	103.8	24	102.7	103.1	103.6	24	101.1	101.2	101.4	24
9/16	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

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

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

	Priest R. Dnst				Pasco				Dworshak				Clrwtr-Peck				Anatone			
Date	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
9/3	104.6	105.1	105.5	24	102.4	103.1	103.6	24	98.1	98.6	98.9	24	---	---	---	0	---	---	---	0
9/4	104.5	104.9	105.2	24	103.2	103.8	104.4	24	98.6	98.9	99.3	24	---	---	---	0	---	---	---	0
9/5	103.0	103.4	103.6	24	101.2	101.7	102.6	24	98.0	98.2	98.4	24	---	---	---	0	---	---	---	0
9/6	102.7	103.4	103.9	24	100.3	101.2	101.6	24	98.1	98.7	99.0	24	---	---	---	0	---	---	---	0
9/7	103.6	104.2	104.8	24	101.5	101.7	102.0	24	98.9	99.2	99.6	24	---	---	---	0	---	---	---	0
9/8	104.3	104.4	105.0	24	101.1	101.6	101.9	24	101.0	103.1	105.8	24	---	---	---	0	---	---	---	0
9/9	103.9	104.1	104.3	24	101.8	102.3	102.7	24	99.5	100.7	104.1	24	---	---	---	0	---	---	---	0
9/10	102.8	103.4	104.0	24	100.9	101.4	101.8	24	97.8	97.9	98.2	24	---	---	---	0	---	---	---	0
9/11	102.7	103.3	104.0	24	100.4	100.7	101.0	24	98.0	98.4	98.7	24	---	---	---	0	---	---	---	0
9/12	103.1	103.8	104.2	24	101.0	101.5	101.8	24	98.2	98.6	99.0	24	---	---	---	0	---	---	---	0
9/13	103.3	103.6	104.1	24	101.5	101.9	102.1	24	98.8	99.2	99.7	24	---	---	---	0	---	---	---	0
9/14	103.5	103.9	104.5	24	101.7	101.8	102.2	13	98.9	99.3	99.8	24	---	---	---	0	---	---	---	0
9/15	103.8	104.1	104.6	24	---	---	---	0	99.6	100.1	100.5	24	---	---	---	0	---	---	---	0
9/16	---	---	---	0	---	---	---	0	99.5	99.8	100.4	24	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation Data at Snake River Sites

	Clrwtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
Date	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
9/3	---	---	---	0	---	---	---	0	99.8	100.3	100.7	24	104.1	104.3	104.6	24	103.2	103.7	104.1	24
9/4	---	---	---	0	---	---	---	0	99.3	99.6	99.9	24	104.6	104.8	105.0	24	102.7	103.1	103.8	24
9/5	---	---	---	0	---	---	---	0	98.1	98.3	98.7	24	104.2	104.4	104.8	24	102.4	102.7	103.0	24
9/6	---	---	---	0	---	---	---	0	98.7	99.3	99.5	24	103.4	103.7	104.0	24	101.9	102.4	102.7	24
9/7	---	---	---	0	---	---	---	0	99.8	100.2	100.4	24	103.8	104.0	104.6	24	101.9	102.4	102.7	24
9/8	---	---	---	0	---	---	---	0	100.0	100.2	100.3	24	103.1	103.1	103.7	11	101.0	101.6	102.1	24
9/9	---	---	---	0	---	---	---	0	99.4	99.8	100.5	24	---	---	---	0	100.2	100.9	101.3	24
9/10	---	---	---	0	---	---	---	0	98.1	98.3	99.3	24	---	---	---	0	98.2	98.6	98.9	24
9/11	---	---	---	0	---	---	---	0	98.3	98.5	98.7	24	---	---	---	0	98.7	99.0	99.7	24
9/12	---	---	---	0	---	---	---	0	98.8	99.2	99.6	24	---	---	---	0	98.9	99.4	100.0	24
9/13	---	---	---	0	---	---	---	0	99.3	99.7	100.0	24	---	---	---	0	98.7	99.1	99.2	24
9/14	---	---	---	0	---	---	---	0	98.5	98.8	99.3	24	---	---	---	0	98.5	98.7	98.9	24
9/15	---	---	---	0	---	---	---	0	98.9	99.4	99.8	24	---	---	---	0	98.5	99.1	99.4	24
9/16	---	---	---	0	---	---	---	0	98.9	99.5	99.8	24	---	---	---	0	98.2	98.5	99.0	24

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

	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
Date	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
9/3	102.0	102.1	102.2	24	101.9	102.4	103.1	24	103.9	104.2	104.4	24	104.6	105.2	105.8	24	---	---	---	0
9/4	101.5	101.7	101.9	24	101.1	101.7	102.3	24	104.1	104.2	104.5	24	104.6	105.4	106.5	24	---	---	---	0
9/5	101.0	101.1	101.2	24	100.7	101.1	101.5	24	103.6	103.7	103.9	24	103.7	104.1	105.2	24	---	---	---	0
9/6	100.9	101.1	101.3	24	100.9	101.5	102.0	24	103.5	103.7	103.9	24	103.7	104.2	105.0	24	---	---	---	0
9/7	101.4	101.6	101.7	24	102.0	102.6	105.1	24	103.7	103.8	104.0	24	103.5	103.8	104.6	24	---	---	---	0
9/8	101.4	101.6	101.7	24	101.9	102.3	104.0	24	102.7	103.0	103.4	24	102.8	103.3	103.8	24	---	---	---	0
9/9	101.1	101.1	101.4	10	101.4	101.8	102.6	24	101.3	101.4	102.0	13	101.5	101.9	102.7	24	---	---	---	0
9/10	---	---	---	0	100.3	100.5	100.8	24	---	---	---	0	100.3	100.6	101.5	24	---	---	---	0
9/11	---	---	---	0	100.3	100.7	101.9	24	---	---	---	0	100.2	100.5	101.4	24	---	---	---	0
9/12	---	---	---	0	100.5	101.0	102.6	24	---	---	---	0	100.8	101.6	102.6	24	---	---	---	0
9/13	---	---	---	0	100.3	100.8	101.8	24	---	---	---	0	100.4	100.8	101.4	24	---	---	---	0
9/14	---	---	---	0	99.3	99.6	100.5	24	---	---	---	0	100.7	101.0	101.4	24	---	---	---	0
9/15	---	---	---	0	99.4	99.9	100.4	24	---	---	---	0	101.3	101.8	102.3	24	---	---	---	0
9/16	---	---	---	0	98.5	98.8	99.7	24	---	---	---	0	101.6	102.0	103.4	24	---	---	---	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 River Sites

	McNary-Wash				McNary Tlwr				John Day				John Day Tlwr				The Dalles			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h AVG	High	# hr
9/3	101.5	101.7	102.4	24	101.0	101.3	101.6	24	101.7	101.8	102.0	24	102.5	103.3	104.2	24	101.2	101.5	101.9	24
9/4	100.9	101.0	101.1	24	100.8	101.2	101.5	24	101.2	101.4	101.6	24	102.6	102.8	103.0	24	100.8	101.1	101.5	24
9/5	100.9	101.0	101.1	24	100.1	100.5	100.8	24	100.3	100.5	100.7	24	102.1	102.3	102.6	24	99.9	100.0	100.1	24
9/6	101.0	101.3	101.9	24	100.6	101.2	101.5	24	100.2	100.4	100.5	24	102.4	103.0	103.4	24	99.7	100.2	100.5	24
9/7	102.2	102.5	102.8	24	101.6	101.9	102.1	24	100.6	100.7	100.9	24	101.5	102.0	102.5	24	100.6	100.9	101.1	24
9/8	102.4	102.8	103.0	24	101.6	101.9	102.2	24	100.5	100.5	100.7	24	102.5	102.8	103.1	24	100.6	100.8	101.1	24
9/9	100.9	101.2	101.7	24	100.5	100.9	101.1	24	100.0	100.2	100.4	24	102.0	102.4	102.5	24	99.7	99.9	100.1	24
9/10	99.8	99.9	100.1	24	99.6	99.9	100.2	24	99.3	99.4	99.5	24	101.8	102.1	102.6	24	99.1	99.3	99.6	24
9/11	99.9	100.1	100.2	24	99.6	100.1	100.6	24	99.2	99.4	99.5	24	102.1	102.6	103.2	24	99.4	99.7	100.0	24
9/12	99.7	99.8	99.9	24	99.4	99.6	99.8	24	99.2	99.4	99.5	24	102.2	102.6	103.4	24	99.9	100.3	100.7	24
9/13	100.1	100.4	100.6	24	99.9	100.5	100.7	24	99.4	99.8	100.7	24	101.7	102.2	103.6	24	100.3	100.6	100.8	24
9/14	100.9	100.9	101.8	9	101.0	101.6	102.0	24	99.5	99.6	99.9	24	100.9	101.6	102.0	24	100.6	100.8	101.1	24
9/15	---	---	---	0	101.3	101.7	102.2	24	98.9	99.1	99.2	24	99.5	99.8	100.1	24	100.4	100.5	100.7	24
9/16	---	---	---	0	100.9	101.2	101.5	24	98.9	99.2	99.6	24	100.1	101.2	101.7	24	99.7	99.9	100.1	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Camas\Washougal				Cascade Island			
Date	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High	# hr
9/3	103.1	103.6	103.8	24	103.4	103.8	104.1	24	104.5	105.2	106.3	24	103.0	103.8	104.3	24	111.8	113.0	115.8	24
9/4	102.7	103.0	103.2	24	103.4	103.7	103.9	24	102.1	103.1	103.3	24	103.2	103.5	103.9	24	112.5	115.1	118.2	24
9/5	102.4	102.8	103.3	24	101.2	101.6	102.2	24	101.4	102.2	103.1	24	102.6	102.9	103.1	24	112.3	114.3	117.6	24
9/6	102.5	103.2	103.7	24	100.7	101.1	101.2	24	102.0	102.7	103.4	24	102.6	103.6	104.1	24	114.0	117.3	122.0	24
9/7	102.1	102.5	103.2	24	101.0	101.1	101.2	24	102.9	103.8	104.1	24	103.2	103.4	103.6	24	114.1	118.0	123.2	24
9/8	102.2	102.5	103.1	24	100.4	100.4	100.5	24	103.1	103.7	104.4	24	102.5	102.8	102.9	24	111.4	113.5	116.7	24
9/9	101.4	101.6	101.9	24	99.8	100.0	100.3	24	102.5	102.7	103.0	24	101.5	101.8	102.4	24	112.2	114.0	116.6	24
9/10	101.2	101.5	101.7	24	99.4	99.5	99.6	24	102.2	102.6	103.0	24	101.2	101.7	102.0	24	112.5	115.3	117.8	24
9/11	101.7	102.1	102.4	24	99.4	99.6	99.9	24	102.3	102.9	103.7	24	101.8	102.5	102.9	24	113.8	116.8	119.8	24
9/12	102.0	102.6	103.0	24	99.8	100.2	100.4	24	101.3	102.4	103.3	24	102.5	103.0	103.4	24	129.6	142.6	148.0	24
9/13	102.5	103.0	103.4	24	100.3	100.7	101.1	24	102.3	103.5	104.1	24	102.4	103.0	103.3	24	126.1	142.5	147.5	24
9/14	102.3	102.8	103.2	24	100.8	101.2	101.3	24	103.4	103.7	104.2	24	102.7	103.2	103.5	24	112.2	115.1	118.1	24
9/15	101.9	102.1	102.4	24	101.1	101.2	101.3	24	103.8	104.3	105.0	24	102.9	103.2	103.4	24	111.5	113.8	118.2	24
9/16	101.5	101.8	102.0	24	101.2	101.4	101.7	24	103.9	104.7	105.3	24	103.1	103.3	103.3	24	112.1	114.5	117.4	24

Two-Week Summary of Passage Indices

Source: Fish Passage Center Updated: 9/17/2010 8:15

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.
Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

				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)
09/03/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/04/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/05/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/06/2010		---	---	---	---	0	0	0	---	0	0	0
09/07/2010		---	---	---	---	0	0	0	---	0	0	0
09/08/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/09/2010		---	---	---	---	0	0	0	---	0	0	0
09/10/2010		---	---	---	---	0	1	0	---	0	0	0
09/11/2010		---	---	---	---	0	0	0	---	0	0	0
09/12/2010		---	---	---	---	0	1	0	---	0	0	0
09/13/2010		---	---	---	---	1	0	0	---	0	0	0
09/14/2010		---	---	---	---	0	0	0	---	0	0	0
09/15/2010		---	---	---	---	0	0	0	---	0	0	0
09/16/2010		---	---	---	---	---	0	---	---	0	---	0
09/17/2010		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**1**	**2**	**0**	**0**	**0**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**13**	**14**	**13**	**0**	**14**	**13**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
YTD		**56,130**	**80,004**	**27,916**	**7,995**	**2,452,572**	**1,260,530**	**452,093**	**11,800**	**2,093,842**	**1,034,554**	**2,302,148**

				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)
09/03/2010	*	---	---	---	---	244	24	33	---	3,265	3,585	1,506
09/04/2010	*	---	---	---	---	283	30	25	---	2,200	3,465	1,493
09/05/2010	*	---	---	---	---	158	32	11	---	810	3,406	2,352
09/06/2010		---	---	---	---	59	12	14	---	1,470	3,071	1,265
09/07/2010		---	---	---	---	61	10	11	---	3,920	822	1,002
09/08/2010	*	---	---	---	---	50	20	12	---	2,600	814	707
09/09/2010		---	---	---	---	90	21	13	---	2,210	566	1,398
09/10/2010		---	---	---	---	147	51	3	---	1,840	486	1,143
09/11/2010		---	---	---	---	141	17	6	---	1,680	257	1,001
09/12/2010		---	---	---	---	119	13	11	---	1,850	227	553
09/13/2010		---	---	---	---	123	14	3	---	550	167	491
09/14/2010		---	---	---	---	155	9	10	---	600	305	407
09/15/2010		---	---	---	---	124	21	8	---	975	207	293
09/16/2010		---	---	---	---	---	12	---	---	1,220	---	351
09/17/2010		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**1,754**	**286**	**160**	**0**	**25,190**	**17,378**	**13,962**
# Days:		**0**	**0**	**0**	**0**	**13**	**14**	**13**	**0**	**14**	**13**	**14**
Average:		**0**	**0**	**0**	**0**	**135**	**20**	**12**	**0**	**1,799**	**1,337**	**997**
YTD		**0**	**42**	**28**	**1,275**	**1,026,233**	**1,308,250**	**770,735**	**23,361**	**3,903,145**	**2,240,563**	**5,110,006**

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)
09/03/2010	*	---	---	---	---	0	0	0	---	0	25	0
09/04/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/05/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/06/2010		---	---	---	---	1	1	0	---	0	0	0
09/07/2010		---	---	---	---	0	1	0	---	0	0	19
09/08/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/09/2010		---	---	---	---	1	0	0	---	0	0	0
09/10/2010		---	---	---	---	0	0	0	---	0	0	0
09/11/2010		---	---	---	---	0	0	0	---	0	0	0
09/12/2010		---	---	---	---	0	0	0	---	0	0	0
09/13/2010		---	---	---	---	0	0	0	---	0	0	0
09/14/2010		---	---	---	---	0	0	0	---	0	0	8
09/15/2010		---	---	---	---	0	1	0	---	0	0	0
09/16/2010		---	---	---	---	---	0	---	---	0	---	0
09/17/2010		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**2**	**3**	**0**	**0**	**0**	**25**	**27**
# Days:		**0**	**0**	**0**	**0**	**13**	**14**	**13**	**0**	**14**	**13**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**2**
YTD		**0**	**0**	**0**	**104**	**40,182**	**53,914**	**13,604**	**41,441**	**85,780**	**111,181**	**524,805**

				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)
09/03/2010	*	---	---	---	---	0	1	0	---	0	0	0
09/04/2010	*	---	---	---	---	1	0	0	---	0	0	0
09/05/2010	*	---	---	---	---	0	1	0	---	0	0	0
09/06/2010		---	---	---	---	0	0	0	---	0	0	0
09/07/2010		---	---	---	---	1	0	0	---	0	0	0
09/08/2010	*	---	---	---	---	0	1	0	---	0	0	0
09/09/2010		---	---	---	---	0	0	0	---	0	0	0
09/10/2010		---	---	---	---	0	0	0	---	10	0	0
09/11/2010		---	---	---	---	0	0	0	---	0	0	0
09/12/2010		---	---	---	---	0	0	0	---	0	0	0
09/13/2010		---	---	---	---	0	0	0	---	0	0	0
09/14/2010		---	---	---	---	0	0	0	---	0	0	0
09/15/2010		---	---	---	---	0	1	0	---	0	0	0
09/16/2010		---	---	---	---	---	1	---	---	0	---	0
09/17/2010		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**2**	**5**	**0**	**0**	**10**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**13**	**14**	**13**	**0**	**14**	**13**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**
YTD		**4,385**	**27,688**	**4,051**	**11,795**	**2,045,801**	**1,594,186**	**427,856**	**17,309**	**448,234**	**594,822**	**942,451**

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)
09/03/2010	*	---	---	---	---	2	1	0	---	0	0	0
09/04/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/05/2010	*	---	---	---	---	0	1	0	---	0	0	0
09/06/2010		---	---	---	---	1	0	0	---	0	0	0
09/07/2010		---	---	---	---	0	0	0	---	0	0	0
09/08/2010	*	---	---	---	---	0	0	0	---	0	0	0
09/09/2010		---	---	---	---	2	0	0	---	10	0	0
09/10/2010		---	---	---	---	0	0	0	---	0	0	0
09/11/2010		---	---	---	---	1	0	0	---	0	0	0
09/12/2010		---	---	---	---	0	0	0	---	0	0	0
09/13/2010		---	---	---	---	0	0	0	---	0	0	0
09/14/2010		---	---	---	---	0	0	0	---	0	0	0
09/15/2010		---	---	---	---	0	0	0	---	0	0	0
09/16/2010		---	---	---	---	---	0	---	---	0	---	0
09/17/2010		---	---	---	---	---	---	---	---	---	---	---
Total:		**0**	**0**	**0**	**0**	**6**	**2**	**0**	**0**	**10**	**0**	**0**
# Days:		**0**	**0**	**0**	**0**	**13**	**14**	**13**	**0**	**14**	**13**	**14**
Average:		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**
YTD		**80**	**0**	**0**	**188**	**8,777**	**12,826**	**2,204**	**36,508**	**1,469,160**	**656,084**	**803,520**

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

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)}

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.

Two Week Transportation Summary

Source: Fish Passage Center Updated: 9/17/10 8:14 AM

09/03/10 TO 09/17/10

		Species					
Site	Data	**CH0**	**CH1**	CO	ST	SO	**Grand Total**
LGR	Sum of NumberCollected	1,754	1	2	2	6	1,765
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	376	0	0	0	0	376
	Sum of Numbertrucked	1,593	1	3	2	6	1,605
	Sum of SampleMorts	18	0	0	0	1	19
	Sum of FacilityMorts	0	0	0	0	0	0
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	18	0	0	0	1	19
LGS	Sum of NumberCollected	286	2	3	5	2	298
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	0	0	0	0	0	0
	Sum of Numbertrucked	286	2	3	4	2	297
	Sum of SampleMorts	10	0	0	0	0	10
	Sum of FacilityMorts	1	0	0	0	0	1
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	11	0	0	0	0	11
LMN	Sum of NumberCollected	160					160
	Sum of NumberBarged	0					0
	Sum of NumberBypassed	0					0
	Sum of Numbertrucked	174					174
	Sum of SampleMorts	5					5
	Sum of FacilityMorts	0					0
	Sum of ResearchMorts	0					0
	Sum of TotalProjectMorts	5					5
MCN	Sum of NumberCollected	25,190			10	10	25,210
	Sum of NumberBarged	0			0	0	0
	Sum of NumberBypassed	6,381			0	0	6,381
	Sum of Numbertrucked	23,394			10	10	23,414
	Sum of SampleMorts	25			0	0	25
	Sum of FacilityMorts	127			0	0	127
	Sum of ResearchMorts	0			0	0	0
	Sum of TotalProjectMorts	152			0	0	152
Total Sum of NumberCollected		27,390	3	5	17	18	27,433
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		6,757	0	0	0	0	6,757
Total Sum of Numbertrucked		25,447	3	6	16	18	25,490
Total Sum of SampleMorts		58	0	0	0	1	59
Total Sum of FacilityMorts		128	0	0	0	0	128
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		186	0	0	0	1	187

YTD Transportation Summary

Source: Fish Passage Center Updated: 9/17/10 8:14 AM

TO: 09/17/10

		Species					
Site	Data	**CH0**	**CH1**	CO	SO	ST	**Grand Total**
LGR	Sum of NumberCollected	612,907	1,622,346	28,358	5,799	1,358,154	3,627,564
	Sum of NumberBarged	605,631	1,428,784	28,337	5,772	1,309,483	3,378,007
	Sum of NumberBypassed	1,076	191,860	0	10	48,344	241,290
	Sum of NumberTrucked	4,891	2	10	11	6	4,920
	Sum of SampleMorts	269	54	1	1	19	344
	Sum of FacilityMorts	1,040	1,231	10	5	285	2,571
	Sum of ResearchMorts	0	415	0	0	17	432
	Sum of TotalProjectMorts	1,309	1,700	11	6	321	3,347
LGS	Sum of NumberCollected	860,605	873,204	36,911	8,878	1,085,615	2,865,213
	Sum of NumberBarged	849,625	791,515	36,896	8,872	1,025,889	2,712,797
	Sum of NumberBypassed	68	81,373	0	0	59,473	140,914
	Sum of NumberTrucked	4,991	10	13	4	13	5,031
	Sum of SampleMorts	250	30	2	1	10	293
	Sum of FacilityMorts	5,660	276	0	1	229	6,166
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	5,910	306	2	2	239	6,459
LMN	Sum of NumberCollected	509,564	305,752	8,789	1,525	239,911	1,065,541
	Sum of NumberBarged	507,240	304,065	8,789	1,521	234,587	1,056,202
	Sum of NumberBypassed	586	1,473	0	0	5,000	7,059
	Sum of NumberTrucked	1,074	2	0	0	1	1,077
	Sum of SampleMorts	65	9	0	1	10	85
	Sum of FacilityMorts	618	201	0	3	314	1,136
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	683	210	0	4	324	1,221
MCN	Sum of NumberCollected	1,947,538	1,224,094	47,445	848,915	260,040	4,328,032
	Sum of NumberBarged	299,909	173	70	190	86	300,428
	Sum of NumberBypassed	1,496,969	1,222,563	47,275	847,904	259,728	3,874,439
	Sum of NumberTrucked	143,057	0	40	75	10	143,182
	Sum of SampleMorts	546	121	5	96	17	785
	Sum of FacilityMorts	7,007	1,237	55	650	199	9,148
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	7,553	1,358	60	746	216	9,933
Total Sum of NumberCollected		3,930,614	4,025,396	121,503	865,117	2,943,720	11,886,350
Total Sum of NumberBarged		2,262,405	2,524,537	74,092	16,355	2,570,045	7,447,434
Total Sum of NumberBypassed		1,498,699	1,497,269	47,275	847,914	372,545	4,263,702
Total Sum of NumberTrucked		154,013	14	63	90	30	154,210
Total Sum of SampleMorts		1,130	214	8	99	56	1,507
Total Sum of FacilityMorts		14,325	2,945	65	659	1,027	19,021
Total Sum of ResearchMorts		0	415	0	0	17	432
Total Sum of TotalProjectMorts		15,455	3,574	73	758	1,100	20,960

Cumulative Adult Passage at Mainstem Dams Through: 09/16

		Spring Chinook						Summer Chinook					
		2010		2009		10-Yr Avg.		2010		2009		10-Yr Avg.	
DAM	EndDate	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	**09/16**	**244384**	**12612**	**114525**	**66631**	**167834**	**17301**	**97604**	**15603**	**81936**	**37416**	**82525**	**13362**
TDA	**09/16**	**189839**	**11546**	**93908**	**53646**	**121486**	**13792**	**81292**	**12528**	**79916**	**27878**	**72634**	**10423**
JDA	**09/16**	**179446**	**11794**	**76806**	**49733**	**101283**	**12037**	**70955**	**12475**	**65989**	**33147**	**66361**	**11207**
MCN	**09/15**	**153246**	**9178**	**70413**	**43328**	**93119**	**11340**	**66526**	**8063**	**57137**	**21182**	**62804**	**9141**
IHR	**09/16**	**101188**	**6047**	**55435**	**28223**	**64058**	**7222**	**29583**	**3503**	**23856**	**9400**	**15236**	**3378**
LMN	**09/16**	**97334**	**5898**	**66931**	**20009**	**63381**	**6004**	**35097**	**4362**	**23353**	**11733**	**15714**	**2947**
LGS	**09/16**	**92985**	**5461**	**52642**	**24331**	**58937**	**6617**	**32410**	**3968**	**20340**	**11207**	**12950**	**3477**
LGR	**09/16**	**94203**	**6409**	**49667**	**31064**	**59309**	**8137**	**28778**	**5294**	**14482**	**16367**	**12293**	**4233**
PRD	**09/15**	**30539**	**932**	**13469**	**2910**	**19097**	**834**	**49265**	**1217**	**49417**	**2117**	**55919**	**2554**
RIS	**09/15**	**29684**	**1513**	**12634**	**6003**	**15841**	**1581**	**47220**	**4018**	**44295**	**7727**	**52600**	**6133**
RRH	**09/15**	**8660**	**523**	**6090**	**1086**	**6208**	**510**	**34173**	**1724**	**34961**	**5231**	**40122**	**4303**
WEL	**09/15**	**7555**	**661**	**6307**	**1867**	**4866**	**487**	**26538**	**1856**	**25725**	**3800**	**29472**	**2340**
WFA	**09/07**	**64291**	**1679**	**25795**	**2719**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**

		Fall Chinook					
		2010		2009		10-Yr Avg.	
DAM	EndDate	Adult	Jack	Adult	Jack	Adult	Jack
BON	**9/16**	**328675**	**36677**	**236147**	**87262**	**296898**	**32880**
TDA	**9/16**	**155139**	**23437**	**129262**	**65578**	**136630**	**22641**
JDA	**9/16**	**105218**	**18912**	**102463**	**53777**	**92061**	**18442**
MCN	**9/15**	**80404**	**10002**	**63523**	**38038**	**56632**	**11493**
IHR	**9/16**	**26294**	**4867**	**17524**	**25844**	**9455**	**4981**
LMN	**9/16**	**21469**	**6737**	**15593**	**22468**	**8143**	**3998**
LGS	**9/16**	**18969**	**3446**	**14504**	**16667**	**6351**	**2777**
LGR	**9/16**	**16885**	**4017**	**8698**	**18329**	**4997**	**3079**
PRD	**9/15**	**9372**	**1469**	**19181**	**2554**	**15167**	**2563**
RIS	**9/15**	**3154**	**1457**	**5847**	**2044**	**5174**	**1351**
RRH	**9/15**	**2657**	**848**	**3836**	**1326**	**3735**	**983**
WEL	**9/15**	**1458**	**591**	**1835**	**1204**	**2015**	**715**
WFA	**9/7**	**202**	**12**	**505**	**123**	**-**	**-**

	Coho						Sockeye			Steelhead			
	2010		2009		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2010	2009	Avg.	2010	2009	Avg.	2010
BON	**37391**	**2570**	**108045**	**4735**	**69297**	**3676**	**386524**	**177823**	**94584**	**380279**	**558148**	**350857**	**146680**
TDA	**14093**	**1355**	**22102**	**4474**	**13361**	**1718**	**325131**	**155591**	**80569**	**260252**	**352034**	**205819**	**100434**
JDA	**7149**	**683**	**18549**	**3551**	**9658**	**1541**	**324124**	**157399**	**86669**	**191629**	**363126**	**171645**	**72699**
MCN	**3955**	**336**	**7233**	**1548**	**3128**	**442**	**278800**	**121675**	**69739**	**158622**	**210957**	**110485**	**57084**
IHR	**317**	**31**	**467**	**92**	**262**	**13**	**1302**	**867**	**175**	**112182**	**154166**	**72740**	**32619**
LMN	**309**	**48**	**204**	**27**	**141**	**9**	**1655**	**1162**	**220**	**101918**	**135118**	**62412**	**32558**
LGS	**260**	**40**	**228**	**81**	**99**	**14**	**1659**	**1064**	**197**	**76993**	**109878**	**46500**	**24421**
LGR	**105**	**25**	**19**	**8**	**35**	**5**	**2196**	**1217**	**242**	**77179**	**98092**	**43813**	**26229**
PRD	**187**	**19**	**1848**	**165**	**515**	**96**	**357058**	**153466**	**88592**	**21818**	**30223**	**13742**	**0**
RIS	**139**	**25**	**1627**	**522**	**267**	**58**	**338303**	**162828**	**85462**	**17234**	**26951**	**11944**	**8292**
RRH	**28**	**12**	**148**	**100**	**26**	**5**	**295625**	**133100**	**64322**	**13135**	**19848**	**8648**	**5603**
WEL	**2**	**0**	**7**	**0**	**0**	**0**	**291294**	**134930**	**65161**	**8158**	**15299**	**5885**	**3467**
WFA	**583**	**148**	**406**	**92**	**-**	**-**	**-**	**-**	**-**	**28946**	**17325**	**-**	**-**

PRD does not post wild steelhead numbers.
These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.
Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.
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.

Page last updated on: 09/17/10

BON counts from January 1, 2010 to March 14, 2010 (historical counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2009	39	0	2,318	657
2008	19	-1	321	109