



Fish Passage Center

Weekly Report #09 - 28

September 18, 2009

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Summary of Events:

NOTE: This is the last weekly report of the season; bi-weekly reports begin October 2nd through the end of October.

Water Supply: Precipitation throughout the Columbia Basin has varied between 10% and 124% of average at individual sub-basins through September. Precipitation above The Dalles has been 63% of average over September. Over the entire water year, precipitation has generally been near average.

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

Location	Water Year 2009 September 1-14		Water Year 2009 October 1, 2008 to September 14, 2009	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.53	71	22.30	90
SNAKE RIVER ABOVE ICE HARBOR	0.13	25	19.50	112
Columbia Above The Dalles	0.38	63	22.47	99
Kootenai	0.60	80	22.0	87
Clark Fork	0.13	24	17.88	104
Flathead	0.18	23	20.30	89
Pend Oreille/ Spokane	0.25	35	28.65	94
Central Washington	0.20	96	7.23	81
SNAKE RIVER PLAIN	0.15	38	12.85	115
Salmon/Boise/ Payette	0.05	10	19.03	97
Clearwater	0.10	13	32.18	106
SW Washington Cascades/Cowlitz	1.80	124	62.2	89
Willamette Valley	0.81	82	49.43	84

The summer flow period began on 6-21-09 at Lower Granite Dam and ended on 8-31-09; the flow objective was 52.5 Kcfs. Flows at Lower Granite averaged 48.2 Kcfs over the summer period.

The summer flow period began on 7-1-09 at McNary Dam and ended on 8-31-09; the flow objective was 200 Kcfs. Flows at McNary Dam averaged 141.8 Kcfs over the summer period.

Grand Coulee was at 1280.9 feet on September 17, 2009, refilling 2.5 feet last week. Grand Coulee is expected to target elevation 1283 feet by the end of September. Outflows at Grand Coulee have ranged between 33.9 and 55.6 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2442.5 feet (9-17-09) and drafted 0.4 feet last week. Outflows at Libby are currently 6 Kcfs and will remain at this level through September.

Hungry Horse is currently at an elevation of 3552.1 ft (9-17-09) and has drafted one foot last week. Outflows at Hungry Horse have been approximately 2.5 Kcfs last week. The BOR plans to draft Hungry Horse to elevation 3550 by the end of September.

Dworshak is currently at an elevation of 1519.9 feet (9-17-09) and has drafted 2.5 feet last week. Outflows at Dworshak have been reduced to the minimum outflow of 1.6 Kcfs.

The Brownlee Reservoir was at an elevation of 2048.5 feet on September 17th, 2009 drafting 4.3 feet last week. Outflows at Brownlee Dam have been 12.8 to 16.2 Kcfs over the last week.

Smolt Monitoring: Subyearling Chinook smolts continue to decline in numbers throughout the system. Unclipped subyearlings predominate at all the sites at this time suggesting that many of the late season outmigrant fish are of wild origin. It should be noted however, that a good portion of hatchery origin fish were unmarked as well.

At Lower Granite Dam subyearling Chinook predominated with coho smolt numbers second in prevalence but at very low numbers. Average daily passage index for subyearling Chinook was at 20 per day this week compared to 70 per day last week. At Little Goose Dam the subyearling Chinook indices decreased this week with the daily average index at 20 per day this week compared to 60 last week. Over 90 percent of the subyearling Chinook passing Lower Granite Dam were unclipped in the past two weeks. Almost all PIT-tag detects in the past ten day were of fish released from Big Canyon Creek in the Clearwater River during late June to early July. Interestingly, since September 1, twelve yearling fall Chinook have fallen back through the bypass at Lower Granite Dam that were originally released at Lyons Ferry Hatchery in 2008. Those fish migrated past the hatchery and may be heading back down river after passing above Lower Granite Dam. No PIT-tagged wild fall Chinook smolts have been detected at Lower Granite since September 1.

In the lower Columbia River, at McNary Dam, subyearling Chinook the weekly average passage index dropped this week with the passage index averaging 215 for this week compared to 287 daily average index last week. John Day Dam SMP continued limit sampling due to high temperatures through September 15 at which time sampling ended for the season. At Bonneville Dam, sampling continued every day after temperatures dropped below 70° F on September 7. Subyearling Chinook weekly average passage indices dropped from nearly 350 per day last week to about 170 per day this week at Bonneville Dam.

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 week. However, approximately 225,000 spring Chinook pre-smolts are scheduled for release into the Clearwater River, beginning at the end of the month. Of these, 67% are scheduled for release into the middle fork and 33% are scheduled for release

into the south fork. Furthermore, approximately 90,000 sockeye pre-smolts are scheduled for release into Redfish (66.7%), Pettit (16.7%), and Alturas (16.7%) lakes on October 1st. Given these releases are of spring Chinook and sockeye pre-smolts, these juveniles are not expected to out-migrate until spring if 2010.

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 scheduled releases of juvenile salmonids to this zone this week. There are no releases of juvenile salmonids to 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. No releases of juvenile salmonids were scheduled for this zone over the past week. Furthermore, there are no releases scheduled for this zone over the next two weeks.

Adult Passage:

Daily counts of adult fall Chinook ranged from 2929 to 6959. The 2009 adult fall Chinook count of 239075 was about 87.9% of the 2008 count and about 80.0% of the 10 year average. The fall Chinook jack count of 89031 was about 2.85 times greater than the 2008 count and about 3.37 times greater than the 10 year average. The adult fall Chinook count total at The Dalles Dam of 129365 is about 54.1% of the Bonneville passage to date. The 2009 Lower Granite Dam adult fall Chinook count of 9191 is about 83% of the 2008 count and about 2 times greater than the 10 year average count. The 2009 Lower Granite fall Chinook jack count of 20521 is about 7.51 times greater than the 2008 count and about 14.35 times greater than the 10 year average.

Daily steelhead counts at Bonneville Dam for the past week ranged between 1376 and 4417. The Bonneville Dam 2009 steelhead count of 559524 is about 1.68 times greater than the 2008 count and 1.77 times greater than the 10 year average. 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 pass Bonneville Dam from the first of June through August 25th and B-run steelhead pass Bonneville from August 26th through October. The 2009 B-run steelhead began on August 26th at Bonneville Dam and was 115538 as of September 17th. The 2009 B-run steelhead count is about 1.06 times greater than the 2008 count of 109003 and is about 1.37 times greater than the 10 year average count of 84431.

In the Snake River, this year's Lower Granite total steelhead count of 105695 is about 1.89 times greater than the 2008 count of 55966 and 2.75 times greater than the 10 year average of 38490. The 2009 wild steelhead count as of September 17th was 28222. At Rock Island Dam, as of September 14th, 26323 adult steelhead had been counted and at Rocky Reach Dam, 19189 adult steelhead had been counted so far this season. At Willamette Falls Dam, the 2009 count for steelhead was 17400, as of September 14th. This year's steelhead count is only about 92.9% of the 2008 count of 18718 at Willamette Falls Dam for the same date range.

The 2009 adult coho count at Bonneville Dam is 108926 adults and 4809 jacks. The Bonneville 2009 adult coho count is about 1.70 times greater than the 2008 count of 64183 and is about 1.73 times greater than the 10 year average count of 62809. The 2009 coho jack count of 4809 is about 82.5% of the 2008 count of 5830 and is about 1.37 times greater than the 10 year average count of 3502 at Bonneville Dam.

Hatchery Releases Next Two Weeks

Hatchery Release Summary									
From:	9/18/2009		to		10/1/2009				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2010	15,000	10-01-09	10-01-09	Alturas Lake	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2010	15,000	10-01-09	10-01-09	Pettit Lake	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2010	60,000	10-01-09	10-01-09	Redfish Lake	Salmon River (ID)
Idaho Dept. of Fish and Game Total					90,000				
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2010	75,000	09-30-09	10-14-09	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2010	150,000	10-01-09	10-15-09	Lolo Creek	Clearwater River M F
Nez Perce Tribe Total					225,000				
Grand Total					315,000				

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

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
09/04/2009	58.6	0.1	54.3	0.0	57.1	0.0	58.8	0.0	58.6	0.0	58.9	1.8	52.0	0.6
09/05/2009	49.6	0.1	50.2	0.0	48.1	0.0	46.4	0.0	47.0	0.0	44.1	1.9	40.7	0.7
09/06/2009	44.2	0.1	43.8	0.0	48.1	0.0	50.0	0.0	51.1	0.0	57.7	2.1	53.0	1.1
09/07/2009	49.2	0.1	54.2	0.0	53.7	0.0	47.9	0.0	46.8	0.0	51.6	1.9	49.5	1.1
09/08/2009	51.3	0.1	50.7	0.0	55.6	0.0	61.1	0.0	61.8	0.0	76.1	1.9	74.9	1.0
09/09/2009	48.8	0.2	47.4	0.0	47.4	0.0	46.1	0.0	47.7	0.0	61.0	2.0	61.9	0.8
09/10/2009	39.3	0.1	39.9	0.0	49.9	0.0	51.4	0.0	49.9	0.0	64.5	2.0	52.9	0.9
09/11/2009	43.0	0.2	40.6	0.0	36.6	0.0	36.4	0.0	37.8	0.0	55.5	2.0	55.6	0.9
09/12/2009	35.4	0.1	38.5	0.0	46.6	0.0	44.0	0.0	43.2	0.0	42.2	1.7	38.8	0.6
09/13/2009	33.9	0.1	36.8	0.0	35.5	0.0	35.4	0.0	35.8	0.0	38.6	1.1	38.9	0.6
09/14/2009	39.4	0.1	38.4	0.0	43.1	0.0	41.7	0.0	41.6	0.0	43.3	1.0	40.9	1.0
09/15/2009	54.9	0.1	49.6	0.0	51.1	0.0	52.3	0.0	50.3	0.0	60.7	1.1	56.9	0.8
09/16/2009	42.5	0.2	48.7	0.0	49.0	0.0	46.8	0.0	45.6	0.0	47.9	1.2	44.0	0.7
09/17/2009	55.6	0.2	56.6	0.0	58.9	0.0	58.7	0.0	57.8	0.0	63.0	1.2	63.2	0.6

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
09/04/2009	8.2	0.0	10.8	9.8	28.2	0.0	26.7	0.0	27.6	0.0	27.8	0.0	27.8	0.0
09/05/2009	8.2	0.0	10.3	9.8	25.3	0.0	18.6	0.0	18.3	0.0	17.8	0.0	17.8	0.0
09/06/2009	8.2	0.0	10.4	9.6	24.6	0.0	24.8	0.0	24.9	0.0	24.6	0.0	24.6	0.0
09/07/2009	8.2	0.0	10.7	8.9	25.3	0.0	24.9	0.0	25.8	0.0	26.0	0.0	26.0	0.0
09/08/2009	8.2	0.0	10.2	13.6	25.2	0.0	24.1	0.0	23.9	0.0	23.5	0.0	23.5	0.0
09/09/2009	8.3	0.0	9.8	13.4	27.2	0.0	24.9	0.0	24.8	0.0	15.2	0.0	15.2	0.0
09/10/2009	8.0	0.0	10.4	13.5	28.9	0.0	27.0	0.0	22.1	0.0	22.0	0.0	22.0	0.0
09/11/2009	5.9	0.0	11.3	14.9	26.8	0.0	29.3	0.0	30.8	0.0	31.4	0.0	31.4	0.0
09/12/2009	5.7	0.0	10.8	14.1	27.1	0.0	26.2	0.0	28.6	0.0	29.4	0.0	29.4	0.0
09/13/2009	4.8	0.0	10.5	13.4	24.6	0.0	18.6	0.0	19.8	0.0	21.2	0.0	21.2	0.0
09/14/2009	4.4	0.0	10.1	14.3	23.5	0.0	23.6	0.0	23.8	0.0	25.0	0.0	25.0	0.0
09/15/2009	2.4	0.0	10.8	14.8	24.6	0.0	27.3	0.0	30.2	0.0	29.6	0.0	29.6	0.0
09/16/2009	2.3	0.0	10.5	16.2	22.3	0.0	25.5	0.0	26.4	0.0	28.5	0.0	28.5	0.0
09/17/2009	1.7	0.0	---	---	25.0	0.0	23.6	0.0	25.8	0.0	22.9	0.0	22.9	0.0

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
09/04/2009	79.1	0.0	78.1	0.8	77.1	0.0	85.6	1.4	16.2	60.6
09/05/2009	68.9	0.0	64.8	0.8	73.1	0.0	81.9	1.5	15.8	57.2
09/06/2009	67.5	0.0	65.8	0.9	67.7	0.0	77.8	1.5	15.3	53.6
09/07/2009	89.2	0.0	78.6	0.9	78.0	0.0	73.1	1.5	15.5	48.7
09/08/2009	71.0	0.0	68.2	0.9	70.2	0.0	71.1	1.5	2.3	60.0
09/09/2009	79.5	0.0	67.7	0.9	66.0	0.0	71.8	1.6	8.0	54.8
09/10/2009	74.4	0.0	82.1	0.8	85.5	0.0	93.1	1.6	10.0	73.8
09/11/2009	94.5	0.0	84.4	0.9	85.7	0.0	90.5	1.6	10.7	70.9
09/12/2009	80.2	0.0	81.9	0.9	84.0	0.0	93.4	1.6	11.6	72.9
09/13/2009	59.6	0.0	58.8	0.9	64.4	0.0	72.0	1.6	6.0	57.0
09/14/2009	71.0	0.0	65.4	0.8	63.6	0.0	71.4	1.5	5.0	57.6
09/15/2009	77.9	0.0	78.0	0.8	82.3	0.0	93.1	1.5	8.4	75.8
09/16/2009	84.2	0.0	78.3	0.8	80.3	0.0	84.8	1.6	2.1	73.8
09/17/2009	68.8	0.0	66.3	0.7	68.2	0.0	75.6	1.4	5.8	61.0

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			#	<u>Boundary</u>			#	<u>Grand Coulee</u>			#	<u>Grand C. Tlwr</u>			#	<u>Chief Joseph</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
9/4	103.6	103.9	104.4	24	104.0	104.5	105.1	23	103.1	103.4	103.7	24	102.7	103.6	105.6	23	105.0	105.4	105.8	24
9/5	103.8	104.4	104.9	24	104.4	104.9	105.3	23	103.2	103.4	103.7	24	103.3	104.4	106.4	23	104.5	104.8	105.2	24
9/6	103.1	103.3	103.8	24	103.7	104.2	104.4	23	103.2	103.6	104.0	24	102.9	104.2	106.1	23	103.7	104.0	104.4	24
9/7	103.3	103.6	104.0	24	102.0	103.9	104.4	22	102.5	102.7	102.9	24	102.0	102.5	103.7	22	103.0	103.2	103.3	24
9/8	102.8	103.4	104.0	24	104.7	105.8	106.5	22	102.0	102.3	102.6	24	101.6	102.2	103.5	22	102.9	103.3	103.7	24
9/9	102.6	103.0	103.4	24	104.7	105.1	105.4	24	102.1	102.3	102.5	24	99.9	100.5	102.2	24	102.8	103.2	103.5	24
9/10	101.9	102.3	102.7	24	104.4	105.1	105.9	23	101.2	101.4	101.9	24	98.9	99.7	100.7	23	102.4	102.8	103.2	24
9/11	101.9	102.3	102.6	24	103.9	104.3	104.9	21	101.7	102.1	102.5	24	98.6	99.5	100.3	21	102.7	103.4	103.9	24
9/12	102.3	102.8	103.1	24	103.9	104.7	105.1	23	103.0	103.4	103.6	24	98.9	99.7	100.0	23	104.6	106.1	107.1	24
9/13	103.0	103.4	103.8	24	104.2	104.8	105.3	24	103.6	103.7	103.9	24	100.4	101.0	101.5	24	106.8	107.7	108.8	24
9/14	102.6	103.0	103.5	24	103.5	104.0	104.4	23	103.1	103.5	104.2	24	99.8	100.5	101.4	23	105.5	106.1	107.1	24
9/15	102.0	102.3	102.6	24	102.3	102.9	103.6	24	101.1	101.5	101.9	24	99.6	100.1	100.9	24	103.9	104.4	104.9	24
9/16	102.0	102.7	103.0	24	103.2	103.9	104.4	23	101.4	101.7	102.3	24	98.7	99.2	100.4	23	104.1	104.8	105.6	24
9/17	102.8	103.2	103.6	24	103.4	103.7	104.0	22	100.7	100.9	101.2	24	98.2	98.8	100.4	22	103.7	104.3	104.8	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			#	<u>Wells</u>			#	<u>Wells Dwnstrm</u>			#	<u>Rocky Reach</u>			#	<u>Rocky R. Tlwr</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
9/4	104.6	105.6	107.0	24	105.1	106.5	107.3	23	105.8	106.8	107.4	23	---	---	---	0	---	---	---	0
9/5	103.2	104.2	105.3	24	104.0	104.3	105.2	24	105.8	106.5	106.9	24	---	---	---	0	---	---	---	0
9/6	103.9	104.6	105.6	24	103.5	103.9	104.1	24	105.2	105.5	106.1	24	---	---	---	0	---	---	---	0
9/7	102.6	103.4	104.7	24	101.6	102.0	102.3	24	103.7	104.5	105.4	24	---	---	---	0	---	---	---	0
9/8	102.8	104.1	105.8	24	101.2	102.2	102.8	24	102.3	103.1	103.4	24	---	---	---	0	---	---	---	0
9/9	103.7	104.4	105.0	24	101.1	102.2	102.8	24	102.4	103.3	103.7	24	---	---	---	0	---	---	---	0
9/10	103.9	104.7	105.9	24	101.5	102.5	103.2	24	102.7	103.5	104.1	24	---	---	---	0	---	---	---	0
9/11	103.2	103.9	105.1	24	101.8	103.4	103.9	24	103.7	104.9	105.3	24	---	---	---	0	---	---	---	0
9/12	105.1	106.4	107.1	24	104.2	105.2	106.3	24	105.2	106.6	107.0	24	---	---	---	0	---	---	---	0
9/13	106.4	107.3	108.7	24	105.1	106.9	107.7	24	107.3	108.5	109.0	24	---	---	---	0	---	---	---	0
9/14	105.6	106.3	106.8	24	105.4	105.9	106.3	24	106.5	107.4	107.8	24	---	---	---	0	---	---	---	0
9/15	103.3	104.0	104.3	24	104.6	105.7	106.2	24	105.1	106.1	106.8	24	---	---	---	0	---	---	---	0
9/16	103.4	104.5	105.3	24	104.9	106.0	106.8	24	106.0	107.1	107.8	24	---	---	---	0	---	---	---	0
9/17	103.5	104.2	105.3	24	103.9	104.5	105.0	24	105.1	105.6	106.2	24	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			#	<u>Rock I. Tlwr</u>			#	<u>Wanapum</u>			#	<u>Wanapum Tlwr</u>			#	<u>Priest Rapids</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
9/4	---	---	---	0	---	---	---	0	104.6	106.2	106.7	24	104.7	105.2	105.5	24	102.9	103.1	103.4	24
9/5	---	---	---	0	---	---	---	0	104.5	105.3	105.9	24	105.4	105.6	105.9	24	104.0	104.4	105.1	24
9/6	---	---	---	0	---	---	---	0	103.5	104.1	104.7	24	104.5	104.7	105.0	24	102.6	103.0	103.4	24
9/7	---	---	---	0	---	---	---	0	102.2	102.7	103.0	24	103.1	103.3	103.6	24	102.4	102.6	103.0	24
9/8	---	---	---	0	---	---	---	0	102.4	103.2	103.8	24	102.8	102.9	103.1	24	102.4	102.7	102.8	24
9/9	---	---	---	0	---	---	---	0	102.2	102.8	103.6	24	102.3	102.5	102.6	24	102.4	102.7	102.9	24
9/10	---	---	---	0	---	---	---	0	102.2	103.6	104.8	24	101.7	101.9	102.1	24	101.1	101.6	102.3	24
9/11	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/12	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/13	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/14	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/15	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/16	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
9/17	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			#	<u>Pasco</u>			#	<u>Dworshak</u>			#	<u>Clrwr-Peck</u>			#	<u>Anatone</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
9/4	104.3	104.7	105.2	24	102.5	103.2	103.4	24	101.3	102.2	103.0	24	101.9	103.0	104.2	21	101.4	102.7	104.0	24
9/5	104.7	105.2	105.7	24	102.4	102.8	103.1	24	103.8	104.1	104.3	24	102.0	103.0	104.0	24	101.2	102.1	103.2	24
9/6	104.0	104.4	104.7	24	101.3	101.8	102.3	24	103.8	103.9	104.0	24	101.2	101.9	103.1	24	100.1	101.1	102.3	24
9/7	103.7	104.3	104.9	24	100.3	100.8	101.2	24	104.1	104.5	104.7	24	101.1	102.0	102.9	22	100.5	101.6	102.9	24
9/8	103.4	103.8	104.0	24	101.5	102.7	103.5	24	102.9	105.1	106.2	24	101.0	102.2	103.3	23	100.9	102.3	103.5	24
9/9	103.8	104.2	104.6	24	102.4	102.8	103.4	24	100.1	100.4	100.7	24	101.1	102.1	103.1	22	100.9	101.8	102.7	24
9/10	103.3	104.0	105.7	24	101.6	102.1	102.3	24	99.6	99.9	100.2	24	100.5	101.6	102.8	24	100.9	102.0	103.2	24
9/11	---	---	---	0	103.2	104.2	105.0	24	99.9	100.4	100.8	24	99.9	101.3	102.5	23	101.5	102.7	103.9	24
9/12	---	---	---	0	104.4	105.5	106.2	24	100.8	101.4	101.7	24	100.6	102.1	103.2	23	101.8	102.9	104.2	24
9/13	---	---	---	0	105.3	105.8	106.2	24	101.8	102.3	102.9	24	101.3	102.8	104.0	23	101.7	102.6	103.8	24
9/14	---	---	---	0	103.3	104.0	104.8	24	101.3	101.6	101.9	24	100.4	101.5	102.9	23	100.8	101.7	103.1	24
9/15	---	---	---	0	101.6	102.3	102.6	24	100.6	101.1	101.5	24	100.8	102.5	104.6	21	100.9	102.1	103.2	24
9/16	---	---	---	0	102.3	102.8	103.2	24	100.8	101.4	102.1	24	101.3	104.0	106.1	23	101.9	103.0	104.3	24
9/17	---	---	---	0	102.0	102.5	103.0	24	105.0	106.1	108.7	24	103.0	105.4	107.3	24	101.2	102.1	103.3	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwr-Lewiston</u>			#	<u>Lower Granite</u>			#	<u>L. Granite Tlwr</u>			#	<u>Little Goose</u>			#	<u>L. Goose Tlwr</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
9/4	102.1	103.9	105.3	23	100.7	101.5	103.9	24	99.8	100.9	101.4	24	108.0	109.0	110.7	24	106.3	107.3	107.6	24
9/5	102.1	103.5	104.7	23	102.0	102.4	102.8	24	100.0	100.8	101.5	24	108.3	109.3	112.3	24	106.9	107.4	108.2	24
9/6	101.3	102.7	104.3	24	100.7	101.1	101.6	24	98.9	99.6	100.0	24	105.8	106.1	106.3	24	104.8	105.3	105.5	24
9/7	101.6	102.9	104.0	23	100.0	100.2	100.7	24	98.6	98.8	99.1	24	104.2	104.4	104.7	24	102.6	102.9	103.2	24
9/8	101.7	103.5	105.0	24	99.3	99.5	99.9	24	98.5	98.9	99.0	24	104.0	104.5	105.0	24	102.1	102.8	103.2	24
9/9	101.4	102.6	103.7	23	99.7	100.1	100.6	24	99.3	99.7	100.3	24	103.5	103.9	104.4	24	101.7	102.2	102.5	24
9/10	101.7	103.4	104.8	23	98.8	99.1	99.3	24	98.7	99.0	99.3	24	101.7	102.6	103.8	24	99.6	99.9	100.3	24
9/11	102.2	104.0	105.6	23	98.7	99.0	99.2	24	98.6	99.2	99.5	24	101.4	102.3	103.9	24	99.6	100.4	101.2	24
9/12	102.5	104.4	105.9	24	99.9	100.4	100.7	24	100.0	101.0	101.4	24	100.9	101.6	102.8	24	99.8	100.5	100.8	24
9/13	102.7	104.4	106.0	23	101.2	101.5	101.7	24	100.7	101.2	101.8	24	100.5	101.0	103.4	24	98.7	99.2	99.8	24
9/14	101.8	103.4	105.0	23	100.5	100.8	101.4	24	99.4	99.7	100.1	24	99.2	99.7	100.4	24	96.7	97.2	98.3	24
9/15	102.2	104.2	106.0	24	99.2	99.4	99.8	24	98.1	98.4	98.7	24	98.5	98.9	99.4	24	95.8	96.5	96.8	24
9/16	102.4	104.3	106.6	22	101.3	102.5	104.8	24	100.1	101.4	102.4	24	99.0	99.3	100.4	24	97.4	98.1	98.8	24
9/17	102.0	104.0	105.9	24	100.0	100.9	102.7	24	99.1	99.4	99.6	24	97.8	98.3	98.7	24	95.7	96.3	96.7	24

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

Date	<u>Lower Mon.</u>			#	<u>L. Mon. Tlwr</u>			#	<u>Ice Harbor</u>			#	<u>Ice Harbor Tlwr</u>			#	<u>McNary-Oregon</u>			#
	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>24 h</u>	<u>12 h</u>	<u>High</u>	
9/4	108.4	108.7	109.5	24	107.6	108.4	111.1	24	110.0	110.4	110.7	24	109.4	110.0	110.7	24	---	---	---	0
9/5	108.1	108.4	109.2	24	107.0	107.7	108.8	24	110.4	110.8	111.1	24	109.3	109.8	110.6	24	---	---	---	0
9/6	106.1	106.6	107.5	24	104.7	105.0	105.2	24	107.6	108.3	109.2	24	107.1	107.9	108.3	24	---	---	---	0
9/7	104.6	105.0	105.5	24	103.8	104.0	104.3	24	104.6	105.0	105.5	24	104.7	105.1	105.7	24	---	---	---	0
9/8	103.8	104.2	104.7	24	103.3	103.7	104.1	24	103.4	103.5	103.6	24	104.0	104.3	104.8	24	---	---	---	0
9/9	102.7	103.1	103.7	24	103.2	103.6	103.9	24	102.8	103.1	103.5	24	103.6	104.0	104.8	24	---	---	---	0
9/10	102.1	102.5	102.7	24	102.4	102.9	103.2	24	101.9	102.0	102.3	24	103.0	103.3	103.7	24	---	---	---	0
9/11	101.7	102.1	103.0	24	102.3	102.9	104.5	24	101.6	101.7	102.1	24	102.5	102.9	103.3	24	---	---	---	0
9/12	102.7	103.3	103.8	24	103.6	104.6	105.0	24	101.7	102.3	103.0	24	103.0	103.6	104.0	24	---	---	---	0
9/13	104.1	104.3	104.7	24	104.2	104.7	105.5	24	102.8	102.9	103.1	24	105.2	107.1	111.7	24	---	---	---	0
9/14	102.4	102.9	104.2	24	101.6	102.1	103.2	24	101.6	102.0	102.4	24	103.4	104.6	108.6	24	---	---	---	0
9/15	100.9	101.2	101.6	24	100.2	100.5	100.9	24	101.1	101.2	101.3	24	102.4	103.7	106.7	24	---	---	---	0
9/16	100.5	100.8	101.0	24	99.9	100.6	101.7	24	100.8	101.0	101.2	24	101.7	102.3	103.3	24	---	---	---	0
9/17	98.0	98.7	100.1	24	97.8	98.2	98.6	24	100.0	100.2	100.6	24	101.4	102.1	104.3	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

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High					
9/4	104.0	104.4	105.3	24	103.9	104.5	105.0	24	103.0	103.7	104.4	24	103.7	104.4	104.6	24	101.4	101.7	102.1	24
9/5	104.2	104.6	105.0	24	103.5	104.0	104.5	24	103.4	103.7	104.0	24	104.1	104.3	104.5	24	101.9	102.1	102.3	24
9/6	102.5	102.9	103.4	24	102.2	102.6	102.8	24	102.1	102.3	102.5	24	103.6	103.9	104.1	24	101.2	101.5	101.5	24
9/7	101.2	101.3	101.5	24	101.2	101.5	101.7	24	101.3	101.5	101.6	24	102.8	103.0	103.2	24	100.5	100.7	100.8	24
9/8	100.7	100.9	101.3	24	100.9	101.5	102.1	24	101.2	101.4	101.6	24	103.4	103.9	104.0	24	100.7	101.0	101.2	24
9/9	100.9	101.1	101.8	24	101.0	101.3	101.4	24	101.2	101.4	101.6	24	104.2	104.5	104.6	24	100.8	101.1	101.5	24
9/10	100.1	100.4	100.5	24	100.8	101.1	101.4	24	100.8	101.2	101.8	24	104.5	104.7	104.9	24	100.6	100.7	100.9	24
9/11	101.0	102.2	104.0	24	100.3	100.7	101.2	24	101.8	102.5	103.6	24	105.4	105.9	106.2	24	101.0	101.5	101.9	24
9/12	103.0	103.6	104.7	24	100.3	101.2	102.0	24	102.9	103.3	103.9	24	107.0	107.7	107.9	24	102.2	102.7	103.1	24
9/13	104.3	105.0	105.4	24	101.6	102.4	102.9	24	102.8	103.1	103.6	24	108.4	108.7	108.9	24	103.0	103.2	103.5	24
9/14	102.5	103.2	104.3	24	100.9	101.6	102.0	24	101.0	101.4	102.1	24	107.8	108.0	108.4	24	101.1	101.6	102.0	24
9/15	101.8	102.0	102.5	24	99.8	100.6	101.3	24	99.5	99.6	99.9	15	104.9	107.5	110.8	24	99.6	99.9	100.0	24
9/16	102.5	102.8	103.1	24	100.9	101.8	102.5	24	---	---	---	0	101.8	102.3	103.0	24	100.0	100.3	100.5	24
9/17	101.2	101.5	102.1	24	99.9	100.4	101.0	24	---	---	---	0	101.2	101.7	102.6	24	99.6	99.7	99.9	12

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washougal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High					
9/4	102.9	103.2	103.3	24	103.3	103.6	103.8	24	---	---	---	0	104.2	104.8	105.0	24	109.3	109.9	111.4	24
9/5	103.3	103.7	103.8	24	102.4	102.9	103.2	24	---	---	---	0	103.9	104.2	104.5	24	110.0	112.0	113.0	24
9/6	102.6	102.8	103.2	24	101.2	101.6	101.7	24	---	---	---	0	102.4	102.7	103.2	24	107.8	108.3	109.0	24
9/7	102.0	102.2	102.5	24	99.9	100.0	100.3	24	---	---	---	0	101.4	102.1	102.6	24	108.5	108.8	109.4	24
9/8	102.5	103.1	103.7	24	100.0	100.4	100.7	24	---	---	---	0	102.2	103.0	103.3	24	110.2	110.7	114.1	24
9/9	102.7	103.0	103.3	24	100.2	100.4	100.7	24	---	---	---	0	101.9	102.5	102.8	24	111.8	113.4	114.8	24
9/10	102.1	102.4	102.9	24	100.6	101.0	101.2	24	---	---	---	0	102.2	102.9	103.5	24	109.4	110.0	110.7	24
9/11	102.2	102.7	102.8	24	101.2	101.3	101.5	24	---	---	---	0	102.3	102.7	102.9	24	108.8	109.2	109.8	24
9/12	103.4	104.1	104.5	24	101.7	102.1	102.3	24	---	---	---	0	102.4	103.4	103.9	24	108.5	108.8	109.1	24
9/13	104.2	104.9	105.5	24	102.3	102.6	102.7	24	---	---	---	0	103.2	103.5	104.0	24	109.4	110.1	111.3	24
9/14	102.2	102.6	103.2	24	101.1	101.3	101.5	24	---	---	---	0	102.1	102.6	103.3	24	111.2	112.0	113.3	24
9/15	101.2	101.4	101.7	24	100.2	100.5	100.8	24	---	---	---	0	102.7	103.3	104.1	24	111.8	114.7	118.2	24
9/16	100.9	101.3	101.6	24	100.2	100.2	100.4	13	---	---	---	0	102.0	102.3	102.7	24	107.3	108.0	108.7	24
9/17	101.4	102.2	102.5	24	---	---	---	0	---	---	---	0	101.4	102.0	102.5	24	108.1	109.4	110.6	24

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 9/18/2009 7:48

Two-Week Summary of Passage Indices

* One or more of the sites on this date had an incomplete or biased sample.

See Sampling Comments: <http://www.fpc.org/currentDaily/smpcomments.htm>

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmppsubmitdata.asp>

COMBINED YEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/04/2009 *	---	---	---	---	0	0	0	---	0	0	---
09/05/2009 *	---	---	---	---	0	0	2	---	0	---	0
09/06/2009 *	---	---	---	---	0	0	0	---	0	---	---
09/07/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/08/2009 *	---	---	---	---	0	0	0	---	0	0	0
09/09/2009 *	---	---	---	---	1	0	0	---	0	---	0
09/10/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/11/2009 *	---	---	---	---	0	0	2	---	0	0	0
09/12/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/13/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/14/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/15/2009	---	---	---	---	0	0	0	---	0	0	0
09/16/2009	---	---	---	---	0	0	0	---	0	---	0
09/17/2009	---	---	---	---	0	0	0	---	0	---	0
09/18/2009	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	1	0	4	0	0	0	0
# Days:	0	0	0	0	14	14	14	0	14	4	12
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	37,667	44,693	20,207	29,713	3,081,414	2,432,949	449,041	9,225	2,251,664	1,032,260	1,717,102

COMBINED SUBYEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/04/2009 *	---	---	---	---	98	111	13	---	360	254	---
09/05/2009 *	---	---	---	---	82	59	11	---	310	---	457
09/06/2009 *	---	---	---	---	64	70	10	---	190	---	---
09/07/2009 *	---	---	---	---	70	53	10	---	145	---	382
09/08/2009 *	---	---	---	---	73	52	2	---	305	81	276
09/09/2009 *	---	---	---	---	51	31	5	---	510	---	274
09/10/2009 *	---	---	---	---	47	31	6	---	190	---	354
09/11/2009 *	---	---	---	---	43	24	52	---	150	16	202
09/12/2009 *	---	---	---	---	26	7	12	---	345	---	197
09/13/2009 *	---	---	---	---	30	21	42	---	380	---	155
09/14/2009 *	---	---	---	---	12	13	20	---	140	---	136
09/15/2009	---	---	---	---	16	31	7	---	135	69	188
09/16/2009	---	---	---	---	11	21	12	---	190	---	167
09/17/2009	---	---	---	---	17	16	9	---	170	---	128
09/18/2009	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	640	540	211	0	3,520	420	2,916
# Days:	0	0	0	0	14	14	14	0	14	4	12
Average:	0	0	0	0	46	39	15	0	251	105	243
YTD	0	18	15	545	996,569	1,181,017	433,517	8,189	3,655,220	1,507,169	4,305,182

Two-Week Summary of Passage Indices

Date	COMBINED COHO											
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
09/04/2009	*	---	---	---	---	3	5	1	---	0	0	---
09/05/2009	*	---	---	---	---	5	9	1	---	0	---	0
09/06/2009	*	---	---	---	---	2	1	0	---	0	---	---
09/07/2009	*	---	---	---	---	7	4	0	---	0	---	0
09/08/2009	*	---	---	---	---	12	3	0	---	0	0	0
09/09/2009	*	---	---	---	---	9	4	0	---	0	---	0
09/10/2009	*	---	---	---	---	1	2	0	---	5	---	0
09/11/2009	*	---	---	---	---	2	4	4	---	0	0	0
09/12/2009	*	---	---	---	---	0	1	2	---	0	---	0
09/13/2009	*	---	---	---	---	0	5	3	---	0	---	0
09/14/2009	*	---	---	---	---	1	3	3	---	0	---	0
09/15/2009	*	---	---	---	---	4	3	1	---	0	0	0
09/16/2009	*	---	---	---	---	3	9	0	---	0	---	0
09/17/2009	*	---	---	---	---	3	4	0	---	0	---	0
09/18/2009	*	---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	52	57	15	0	5	0	0
# Days:		0	0	0	0	14	14	14	0	14	4	12
Average:		0	0	0	0	4	4	1	0	0	0	0
YTD		0	0	0	332	92,337	81,283	19,004	37,588	127,125	240,419	503,270

Date	COMBINED STEELHEAD											
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
09/04/2009	*	---	---	---	---	0	0	0	---	0	0	---
09/05/2009	*	---	---	---	---	0	0	0	---	0	---	0
09/06/2009	*	---	---	---	---	0	0	0	---	0	---	---
09/07/2009	*	---	---	---	---	0	0	0	---	0	---	0
09/08/2009	*	---	---	---	---	1	1	0	---	0	0	0
09/09/2009	*	---	---	---	---	0	0	0	---	0	---	0
09/10/2009	*	---	---	---	---	0	0	0	---	0	---	0
09/11/2009	*	---	---	---	---	0	0	0	---	0	0	0
09/12/2009	*	---	---	---	---	0	0	0	---	0	---	0
09/13/2009	*	---	---	---	---	1	0	0	---	0	---	0
09/14/2009	*	---	---	---	---	0	0	1	---	0	---	0
09/15/2009	*	---	---	---	---	0	0	0	---	0	0	0
09/16/2009	*	---	---	---	---	0	0	0	---	0	---	0
09/17/2009	*	---	---	---	---	0	0	0	---	0	---	0
09/18/2009	*	---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	2	1	1	0	0	0	0
# Days:		0	0	0	0	14	14	14	0	14	4	12
Average:		0	0	0	0	0	0	0	0	0	0	0
YTD		1,833	24,360	9,611	8,297	4,510,915	3,563,512	727,834	17,612	803,737	940,639	677,051

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/04/2009 *	---	---	---	---	0	1	0	---	0	0	---
09/05/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/06/2009 *	---	---	---	---	0	0	0	---	0	---	---
09/07/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/08/2009 *	---	---	---	---	0	0	0	---	0	0	5
09/09/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/10/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/11/2009 *	---	---	---	---	1	0	0	---	5	0	0
09/12/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/13/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/14/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/15/2009	---	---	---	---	0	0	0	---	0	0	0
09/16/2009	---	---	---	---	0	0	0	---	5	---	0
09/17/2009	---	---	---	---	0	0	0	---	0	---	0
09/18/2009	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	1	1	0	0	10	0	5
# Days:	0	0	0	0	14	14	14	0	14	4	12
Average:	0	0	0	0	0	0	0	0	1	0	0
YTD	170	0	0	177	46,504	46,362	21,692	4,926	190,857	111,959	74,969

* 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:

9/18/09 7:49 AM

		09/04/09 TO 09/18/09					
		Species					
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
LGR	Sum of NumberCollected	640		1	52	2	695
	Sum of NumberBarged	0		0	0	0	0
	Sum of NumberBypassed	213		0	0	1	214
	Sum of Numbertrucked	416		1	52	1	470
	Sum of SampleMorts	10		0	0	0	10
	Sum of FacilityMorts	1		0	0	0	1
	Sum of ResearchMorts	0		0	0	0	0
	Sum of TotalProjectMorts	11		0	0	0	11
LGS	Sum of NumberCollected	540			57	1	599
	Sum of NumberBarged	0			0	0	0
	Sum of NumberBypassed	0			0	0	0
	Sum of Numbertrucked	522			52	1	576
	Sum of SampleMorts	16			4	0	20
	Sum of FacilityMorts	2			1	0	3
	Sum of ResearchMorts	0			0	0	0
	Sum of TotalProjectMorts	18			5	0	23
LMN	Sum of NumberCollected	211		4	15		230
	Sum of NumberBarged	0		0	0		0
	Sum of NumberBypassed	0		0	0		0
	Sum of Numbertrucked	189		4	15		208
	Sum of SampleMorts	22		0	0		22
	Sum of FacilityMorts	0		0	0		0
	Sum of ResearchMorts	0		0	0		0
	Sum of TotalProjectMorts	22		0	0		22
MCN	Sum of NumberCollected	3,520			5	10	3,535
	Sum of NumberBarged	0			0	0	0
	Sum of NumberBypassed	0			0	0	0
	Sum of Numbertrucked	3,486			5	10	3,501
	Sum of SampleMorts	2			0	0	2
	Sum of FacilityMorts	32			0	0	32
	Sum of ResearchMorts	0			0	0	0
	Sum of TotalProjectMorts	34			0	0	34
Total Sum of NumberCollected		4,911		5	129	3	5,059
Total Sum of NumberBarged		0		0	0	0	0
Total Sum of NumberBypassed		213		0	0	1	214
Total Sum of Numbertrucked		4,613		5	124	2	4,755
Total Sum of SampleMorts		50		0	4	0	54
Total Sum of FacilityMorts		35		0	1	0	36
Total Sum of ResearchMorts		0		0	0	0	0
Total Sum of TotalProjectMorts		85		0	5	0	90

YTD Transportation Summary

Source: Fish Passage Center

Updated:

9/18/09 7:49 AM

TO: 09/18/09

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	702,244	2,352,638	65,907	33,453	3,430,198	6,584,440
	Sum of NumberBarged	680,280	1,500,926	63,607	26,169	1,841,961	4,112,943
	Sum of NumberBypassed	16,181	847,954	1,951	7,068	1,587,774	2,460,928
	Sum of NumberTrucked	1,437	1	207	1	2	1,648
	Sum of SampleMorts	269	118	10	23	33	453
	Sum of FacilityMorts	4,058	2,734	132	192	409	7,525
	Sum of ResearchMorts	19	1,035	0	0	19	1,073
	Sum of TotalProjectMorts	4,346	3,887	142	215	461	9,051
LGS	Sum of NumberCollected	851,196	1,720,161	59,479	33,652	2,517,671	5,182,159
	Sum of NumberBarged	833,736	966,563	56,372	27,768	1,057,254	2,941,693
	Sum of NumberBypassed	9,300	751,923	2,825	5,826	1,460,071	2,229,945
	Sum of NumberTrucked	1,647	0	237	1	2	1,887
	Sum of SampleMorts	445	49	39	10	21	564
	Sum of FacilityMorts	6,057	1,622	6	47	323	8,055
	Sum of ResearchMorts	12	4	0	0	0	16
	Sum of TotalProjectMorts	6,514	1,675	45	57	344	8,635
LMN	Sum of NumberCollected	325,593	321,116	14,012	16,048	518,663	1,195,432
	Sum of NumberBarged	318,442	312,082	13,950	15,870	506,287	1,166,631
	Sum of NumberBypassed	5,826	8,790	9	114	12,089	26,828
	Sum of NumberTrucked	503	5	42	0	2	552
	Sum of SampleMorts	137	15	2	3	10	167
	Sum of FacilityMorts	583	237	8	7	258	1,093
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	720	252	10	10	268	1,260
MCN	Sum of NumberCollected	1,834,631	1,303,737	69,886	106,375	467,741	3,782,370
	Sum of NumberBarged	414,822	196	448	425	74	415,965
	Sum of NumberBypassed	1,353,698	1,301,926	69,356	105,852	467,487	3,298,319
	Sum of NumberTrucked	30,540	0	15	34	4	30,593
	Sum of SampleMorts	805	149	1	2	14	971
	Sum of FacilityMorts	34,247	1,441	65	60	158	35,971
	Sum of ResearchMorts	518	25	0	1	3	547
	Sum of TotalProjectMorts	35,570	1,615	66	63	175	37,489
Total Sum of NumberCollected		3,713,664	5,697,652	209,284	189,528	6,934,273	16,744,401
Total Sum of NumberBarged		2,247,280	2,779,767	134,377	70,232	3,405,576	8,637,232
Total Sum of NumberBypassed		1,385,005	2,910,593	74,141	118,860	3,527,421	8,016,020
Total Sum of NumberTrucked		34,127	6	501	36	10	34,680
Total Sum of SampleMorts		1,656	331	52	38	78	2,155
Total Sum of FacilityMorts		44,945	6,034	211	306	1,148	52,644
Total Sum of ResearchMorts		549	1,064	0	1	22	1,636
Total Sum of TotalProjectMorts		47,150	7,429	263	345	1,248	56,435

Cumulative Adult Passage at Mainstem Dams Through: 09/17

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2009		2008		10-Yr Avg.		2009		2008		10-Yr Avg.		2009		2008		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	09/17	114525	66631	125543	17554	160243	11507	81936	37416	78271	11621	76947	10024	239075	89031	271785	31212	298706	26406
TDA	09/17	93908	53646	95438	15801	113852	9048	79916	27878	65073	12206	66821	7950	129365	65757	127907	27665	138494	17949
JDA	09/17	76806	49733	81772	14925	95147	7579	65989	33147	63649	13680	61980	8146	104986	55258	94765	23436	93100	14447
MCN	09/17	70413	43328	68080	12133	86998	7409	57137	21182	54735	11239	59015	7256	66521	40553	61202	12555	62127	9342
IHR	09/17	55435	28223	53142	7757	59050	4663	23856	9400	23693	4964	13243	2568	18874	27096	17169	3224	8490	2666
LMN	09/17	66931	20009	54512	6885	57079	4270	23353	11733	27343	2890	13719	1912	16301	23453	14562	4054	7245	1989
LGS	09/17	52642	24331	50396	7805	54016	4453	20340	11207	21748	4811	11241	2521	14887	17677	11857	2074	5473	1280
LGR	09/17	49667	31064	50146	10946	54673	5280	14482	16367	22612	5072	11171	2757	9191	20521	11072	2732	4598	1430
PRD	09/12	13469	2910	12178	620	18164	621	49417	2117	39174	3442	53065	2394	15564	2082	8527	8949	13146	2073
RIS	09/14	12634	6003	12490	1119	14914	1069	44295	7727	38171	3096	60031	5515	5534	1978	2985	1821	4834	1141
RRH	09/14	6090	1086	4065	371	5734	430	34961	5231	29675	2127	37679	3897	3663	1287	2818	1939	3558	1139
WEL	09/16	6307	1867	2708	426	4250	321	25724	3800	21060	1375	27632	2013	1868	1240	1948	1015	1968	655
WFA	09/14	25067	2670	14151	521	-	-	-	-	-	-	-	-	449	99	14	43	-	-

DAM	Coho						Sockeye			Steelhead			
	2009		2008		10-Yr Avg.		2009	2008	10-Yr Avg.	2009	2008	10-Yr Avg.	Wild 2009
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	108926	4809	64183	5830	62809	3502	177823	213606	78590	559524	332353	316599	160541
TDA	22163	4476	17451	3014	12581	1426	155591	177984	66379	352212	207204	188537	98133
JDA	19437	3753	16733	3337	8800	1324	157399	193409	72415	366327	184847	151547	105545
MCN	8143	1674	7977	1157	3365	397	121675	146924	58760	220649	124486	105005	60180
IHR	504	93	1272	74	245	8	867	539	90	161855	90285	64868	38574
LMN	221	37	854	66	149	8	1162	721	103	139847	82795	55425	36968
LGS	266	89	485	53	93	8	1064	593	96	115691	60806	40122	27415
LGR	75	44	302	67	47	6	1217	893	126	105695	55966	38490	28222
PRD	1250	111	390	65	154	30	153466	196835	74878	27919	12364	10461	0
RIS	1409	475	122	78	78	7	162828	193730	71008	26323	11879	9384	8564
RRH	104	78	8	16	9	0	133100	161326	52426	19189	9060	6755	6339
WEL	7	0	0	0	0	0	134932	165324	52890	15483	5747	4723	5495
WFA	2353	276	34	44	-	-	-	-	-	17400	18718	-	-

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: 09/18/09

BON counts from January 1, 2009 to March 14, 2009 (historical counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2009	19	-1	321	109
2008	42	0	561	270