



Fish Passage Center

Weekly Report #09 - 29

October 2, 2009

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 5% and 75% of average at individual sub-basins through September. Precipitation above The Dalles has been 45% 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 1-28		Water Year 2009 October 1, 2008 to September 28, 2009	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.85	56	22.61	89
Snake River Above Ice Harbor	0.15	15	19.53	109
Columbia Above The Dalles	0.54	45	22.63	97
Kootenai	1.07	71	22.47	86
Clark Fork	0.18	16	17.92	101
Flathead	0.33	22	20.46	87
Pend Oreille/ Spokane	0.39	28	28.79	92
Central Washington	0.21	51	7.25	79
Snake River Plain	0.18	23	12.87	111
Salmon/Boise/ Payette	0.05	5	19.03	95
Clearwater	0.13	8	32.20	104
SW Washington Cascades/Cowlitz	2.17	75	62.56	88
Willamette Valley	1.03	52	49.65	83

Grand Coulee was at 1283.8 feet on October 1, 2009, refilling 1.8 feet last week. Outflows at Grand Coulee have ranged between 49.6 and 64.4 Kcfs over the last week.

The Libby Reservoir is currently at elevation 2441.4 feet (10-1-09) and drafted 0.5 feet last week. Outflows at Libby are currently 4.5 Kcfs.

Hungry Horse is currently at an elevation of 3549.5 ft (10-1-09) and has drafted 1.2 feet last week. Outflows at Hungry Horse have been approximately 2.5 Kcfs last week.

Dworshak is currently at an elevation of 1518.1 feet (10-1-09) and has drafted 0.8 feet last week. Outflows at Dworshak have been 1.7 Kcfs.

The Brownlee Reservoir was at an elevation of 2041.6 feet on October 1st, 2009 drafting 2.2 feet last week. Outflows at Brownlee Dam have been 10.4 to 16.1 Kcfs over the last week.

Smolt Monitoring:

Subyearling Chinook smolts increased in numbers at most of the SMP sites that continue sampling. Unclipped subyearlings continue to predominate at all the sites at this time suggesting that many of the late season out-migrant fish may be of wild origin. It should be noted however, that a 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 100 per day this week compared to 50 per day last week. A peak passage of over 200 per day occurred on September 24 and 25. 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. Fall Chinook fall-backs continue to be detected at 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. Two Clearwater

PIT-tagged wild fall Chinook smolts have been detected at Lower Granite since September 28.

In the lower Columbia River, at McNary Dam, subyearling Chinook the weekly average passage index dropped this week with the passage index averaging 190 for this week compared to 140 daily average index last week. Sampling ended on October 1 due to the presence of large numbers of juvenile shad in the sample. On September 30 there were over 3,000 shad in the sample at McNary Dam. At Bonneville Dam, subyearling Chinook passage indices have also increased over the past two weeks. Subyearling Chinook weekly average passage indices rose to 200 per day this week compared to about 90 per day the previous 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. Approximately 225,000 spring Chinook pre-smolts were scheduled for release into the Clearwater River, beginning on or around September 30th. These releases are expected to run through mid-October. Of these spring Chinook pre-smolts, 67% were scheduled for release into the middle fork and 33% were scheduled for release into the south fork. Furthermore, approximately 90,000 sockeye pre-smolts were scheduled for release into Redfish (66.7%), Pettit (16.7%), and Alturas (16.7%) lakes on October 1st. Given that 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 730 to 1747. The 2009 adult fall Chinook count of 270779 was about 89.9% of the 2008 count and about 77.4% of the 10 year average. The fall Chinook jack count of 109281 was about 2.94 times greater than the 2008 count and about 2.93 times greater than the 10

year average. The adult fall Chinook count total at The Dalles Dam of 162966 is about 60.2% of the Bonneville passage to date. The 2009 Lower Granite Dam adult fall Chinook count of 12884 is about 84.8% of the 2008 count and about 1.56 times greater than the 10 year average count. The 2009 Lower Granite fall Chinook jack count of 34364 is about 4.92 times greater than the 2008 count and about 8.29 times greater than the 10 year average.

Daily steelhead counts at Bonneville Dam for the past week ranged between 947 and 1949. The Bonneville Dam 2009 steelhead count of 584650 is about 1.67 times greater than the 2008 count and 1.70 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 141611 as of October 1st. The 2009 B-run steelhead count is about 1.12 times greater than the 2008 count of 126579 and is about 1.24 times greater than the 10 year average count of 114477.

In the Snake River, this year's Lower Granite total steelhead count of 184721 is about 1.64 times greater than the 2008 count of 112497 and 2.07 times greater than the 10 year average of 89343. The 2009 wild steelhead count as of October 1st was 44333. At Rock Island Dam, as of September 29th, 33673 adult steelhead had been counted and at Rocky Reach Dam, 25544 adult steelhead had been counted so far this season. At Willamette Falls Dam, the 2009 count for steelhead was 17461, as of September 25th. This year's steelhead count is only about 92.7% of the 2008 count of 18836 at Willamette Falls Dam for the same date range.

The 2009 adult coho count at Bonneville Dam is 135562 adults and 6177 jacks. The Bonneville 2009 adult coho count is about 1.59 times greater than the 2008 count of 85006 and is about 1.65 times greater than the 10 year average count of 82282. The 2009

coho jack count of 6177 is about 77.5% of the 2008 count of 7970 and is about 1.23 times greater than the 10 year average count of 5032 at Bonneville Dam.

Hatchery Releases Last Two Weeks

Hatchery Release Summary									
From: 9/18/2009 to 10/01/09									
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				

Hatchery Releases Next Two Weeks

Agency	Hatchery Release Summary								
	From:	10/2/2009	to	10/15/2009					
	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
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				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	SO	UN	2010	180,000	10-15-09	11-15-09	Lake Wenatchee	Wenatchee River
Washington Dept. of Fish and Wildlife Total					180,000				
Grand Total					405,000				

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
09/18/2009	63.3	0.2	59.9	0.0	61.4	0.0	62.0	0.0	62.0	0.0	69.0	1.1	62.5	0.8
09/19/2009	41.2	0.2	40.2	0.0	33.4	0.0	31.2	0.0	32.1	0.0	38.5	1.0	42.9	0.7
09/20/2009	40.2	0.2	40.1	0.0	44.4	0.0	45.3	0.0	44.7	0.0	43.7	1.1	38.4	0.3
09/21/2009	59.8	0.2	62.3	0.0	62.5	0.0	62.2	0.0	60.6	0.0	63.0	1.3	47.0	0.8
09/22/2009	66.6	0.1	65.2	0.0	68.6	0.0	66.1	0.0	66.4	0.0	74.0	1.4	69.5	4.4
09/23/2009	72.6	0.1	71.9	0.0	73.6	0.0	75.5	0.0	76.1	0.0	67.1	1.4	66.3	5.6
09/24/2009	60.5	0.1	60.6	0.0	69.7	0.0	66.8	0.0	66.7	0.0	91.4	1.7	80.7	0.8
09/25/2009	64.4	0.1	68.0	0.0	52.3	0.0	56.1	0.0	55.9	0.0	72.6	1.1	68.6	0.6
09/26/2009	49.6	0.1	53.0	0.0	58.0	0.0	55.0	0.0	55.1	0.0	52.8	1.3	42.8	0.7
09/27/2009	54.0	0.1	46.1	0.0	49.0	0.0	51.0	0.0	50.6	0.0	51.2	1.4	47.6	1.0
09/28/2009	52.0	0.1	52.7	0.0	60.1	0.0	60.7	0.0	62.0	0.0	72.6	1.3	74.3	0.9
09/29/2009	52.7	0.1	57.4	0.0	56.3	0.0	55.6	0.0	55.4	0.0	63.1	1.2	59.7	0.6
09/30/2009	53.4	0.1	54.5	0.0	55.6	0.0	51.9	0.0	51.8	0.0	60.5	1.0	53.7	0.6
10/01/2009	61.3	0.0	59.5	0.0	61.6	0.0	61.5	0.0	61.6	0.0	66.1	1.1	62.1	0.8

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

Date	Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor			
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill		
09/18/2009	1.7	0.0	11.1	15.2	22.0	0.0	20.1	0.0	15.6	0.0	10.1	0.0
09/19/2009	1.8	0.0	10.6	14.6	16.9	0.0	12.2	0.0	12.4	0.0	12.8	0.0
09/20/2009	1.8	0.0	9.6	9.4	14.8	0.0	13.4	0.0	14.9	0.0	13.8	0.0
09/21/2009	1.7	0.0	10.8	14.4	15.0	0.0	15.1	0.2	16.5	0.0	18.5	0.0
09/22/2009	1.7	0.0	10.6	14.8	25.2	0.0	23.4	0.0	22.2	0.0	21.8	0.0
09/23/2009	1.7	0.0	11.0	15.2	23.5	0.0	18.4	0.0	18.2	0.0	18.3	0.0
09/24/2009	1.7	0.0	11.2	14.8	22.4	0.0	14.8	0.2	13.4	0.0	12.9	0.0
09/25/2009	1.6	0.0	11.4	12.5	20.8	0.0	20.3	0.0	21.5	0.0	21.7	0.0
09/26/2009	1.7	0.0	11.7	15.6	23.8	0.0	22.1	0.0	22.7	0.0	23.4	0.0
09/27/2009	1.7	0.0	10.8	14.3	20.2	0.0	16.4	0.0	15.5	0.0	13.8	0.0
09/28/2009	1.7	0.0	10.4	12.2	19.1	0.0	19.0	0.0	20.5	0.0	19.7	0.0
09/29/2009	1.7	0.0	10.2	10.6	17.6	0.0	17.7	0.0	17.1	0.0	16.4	0.0
09/30/2009	1.7	0.0	11.1	10.6	17.8	0.0	16.3	0.0	17.6	0.0	17.8	0.0
10/01/2009	1.7	0.0	---	---	22.9	0.0	21.9	0.0	23.1	0.0	23.8	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
09/18/2009	80.3	0.0	77.3	0.8	78.2	0.0	83.7	1.4	8.4	66.4
09/19/2009	69.0	0.0	66.5	0.8	68.2	0.0	73.9	1.5	5.5	59.6
09/20/2009	61.1	0.0	60.6	0.8	62.2	0.0	72.1	1.5	8.4	54.9
09/21/2009	64.0	0.0	75.2	0.8	76.0	0.0	85.4	1.4	10.9	65.7
09/22/2009	82.9	0.0	81.9	0.8	83.7	0.0	89.5	1.4	4.2	76.5
09/23/2009	88.9	0.0	83.8	0.8	83.2	0.0	89.2	1.4	4.5	75.9
09/24/2009	86.4	0.0	83.3	0.8	83.5	0.0	88.1	1.4	5.4	73.9
09/25/2009	108.3	0.0	101.8	0.8	101.9	0.0	104.2	1.4	14.2	81.2
09/26/2009	78.5	0.0	86.4	0.8	85.1	0.0	93.7	1.4	10.6	74.3
09/27/2009	63.5	0.0	62.5	0.8	62.8	0.0	76.7	1.4	4.6	63.3
09/28/2009	78.6	0.0	72.5	0.8	74.4	0.0	78.9	1.5	3.3	66.8
09/29/2009	86.6	0.0	78.7	0.8	81.5	0.0	92.6	1.5	6.4	77.4
09/30/2009	85.3	0.0	76.4	0.8	77.6	0.0	83.4	1.5	0.0	74.6
10/01/2009	88.1	0.0	87.4	0.8	86.5	0.0	93.8	1.4	3.6	81.1

Two-Week Summary of Passage Indices

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)
09/18/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/19/2009 *	---	---	---	---	0	0	1	---	0	---	0
09/20/2009	---	---	---	---	0	0	0	---	0	---	0
09/21/2009	---	---	---	---	1	0	0	---	0	---	0
09/22/2009	---	---	---	---	0	0	0	---	0	---	0
09/23/2009	---	---	---	---	0	0	0	---	0	---	0
09/24/2009	---	---	---	---	0	0	0	---	0	---	0
09/25/2009	---	---	---	---	0	0	0	---	0	---	0
09/26/2009	---	---	---	---	0	0	0	---	0	---	0
09/27/2009	---	---	---	---	0	0	1	---	0	---	0
09/28/2009	---	---	---	---	0	0	0	---	0	---	0
09/29/2009	---	---	---	---	0	0	0	---	0	---	0
09/30/2009	---	---	---	---	0	0	0	---	0	---	0
10/01/2009 *	---	---	---	---	0	0	0	---	0	---	0
10/02/2009	---	---	---	---	---	---	---	---	---	---	0
Total:	0	0	0	0	1	0	2	0	0	0	0
# Days:	0	0	0	0	14	14	14	0	14	0	15
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	37,667	44,693	20,207	29,713	3,081,415	2,433,092	449,043	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)
09/18/2009 *	---	---	---	---	14	9	8	---	165	---	111
09/19/2009 *	---	---	---	---	10	6	5	---	210	---	128
09/20/2009	---	---	---	---	21	8	4	---	120	---	93
09/21/2009	---	---	---	---	17	6	8	---	165	---	77
09/22/2009	---	---	---	---	15	11	8	---	85	---	114
09/23/2009	---	---	---	---	55	12	6	---	90	---	51
09/24/2009	---	---	---	---	209	8	2	---	145	---	42
09/25/2009	---	---	---	---	245	5	23	---	85	---	149
09/26/2009	---	---	---	---	105	7	15	---	275	---	476
09/27/2009	---	---	---	---	118	5	53	---	230	---	279
09/28/2009	---	---	---	---	107	1	7	---	165	---	166
09/29/2009	---	---	---	---	81	6	13	---	210	---	140
09/30/2009	---	---	---	---	46	6	8	---	180	---	126
10/01/2009 *	---	---	---	---	27	1	28	---	165	---	102
10/02/2009	---	---	---	---	---	---	---	---	---	---	185
Total:	0	0	0	0	1,070	91	188	0	2,290	0	2,239
# Days:	0	0	0	0	14	14	14	0	14	0	15
Average:	0	0	0	0	76	7	13	0	164	0	149
YTD	0	18	15	545	997,639	1,181,108	433,572	8,189	3,657,510	1,507,261	4,307,421

Two-Week Summary of Passage Indices

COMBINED COHO											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/18/2009 *	---	---	---	---	0	1	0	---	0	---	0
09/19/2009 *	---	---	---	---	0	2	0	---	0	---	0
09/20/2009	---	---	---	---	1	2	0	---	0	---	0
09/21/2009	---	---	---	---	0	4	0	---	0	---	0
09/22/2009	---	---	---	---	3	7	1	---	0	---	0
09/23/2009	---	---	---	---	0	2	0	---	0	---	0
09/24/2009	---	---	---	---	5	5	0	---	0	---	0
09/25/2009	---	---	---	---	3	2	2	---	0	---	0
09/26/2009	---	---	---	---	2	2	0	---	0	---	0
09/27/2009	---	---	---	---	0	2	1	---	0	---	0
09/28/2009	---	---	---	---	1	1	0	---	0	---	0
09/29/2009	---	---	---	---	1	1	0	---	0	---	0
09/30/2009	---	---	---	---	0	2	0	---	0	---	0
10/01/2009 *	---	---	---	---	0	0	3	---	0	---	0
10/02/2009	---	---	---	---	---	---	---	---	---	---	0
Total:	0	0	0	0	16	33	7	0	0	0	0
# Days:	0	0	0	0	14	14	14	0	14	0	15
Average:	0	0	0	0	1	2	1	0	0	0	0
YTD	0	0	0	332	92,353	81,316	19,011	37,588	127,125	240,419	503,270

COMBINED STEELHEAD											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
09/18/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/19/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/20/2009	---	---	---	---	0	1	0	---	0	---	0
09/21/2009	---	---	---	---	0	0	0	---	0	---	0
09/22/2009	---	---	---	---	0	0	0	---	0	---	0
09/23/2009	---	---	---	---	0	0	0	---	0	---	0
09/24/2009	---	---	---	---	0	0	0	---	0	---	0
09/25/2009	---	---	---	---	0	0	0	---	0	---	0
09/26/2009	---	---	---	---	0	2	0	---	0	---	0
09/27/2009	---	---	---	---	0	0	0	---	0	---	0
09/28/2009	---	---	---	---	0	0	0	---	0	---	0
09/29/2009	---	---	---	---	0	0	1	---	0	---	0
09/30/2009	---	---	---	---	0	0	0	---	0	---	0
10/01/2009 *	---	---	---	---	0	0	0	---	0	---	0
10/02/2009	---	---	---	---	---	---	---	---	---	---	0
Total:	0	0	0	0	0	3	1	0	0	0	0
# Days:	0	0	0	0	14	14	14	0	14	0	15
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	1,833	24,360	9,611	8,297	4,510,915	3,563,515	727,835	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)
09/18/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/19/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/20/2009 *	---	---	---	---	0	0	0	---	0	---	0
09/21/2009	---	---	---	---	0	0	0	---	0	---	0
09/22/2009	---	---	---	---	0	0	0	---	0	---	0
09/23/2009	---	---	---	---	0	1	0	---	0	---	0
09/24/2009	---	---	---	---	0	0	0	---	0	---	0
09/25/2009	---	---	---	---	0	1	0	---	0	---	0
09/26/2009	---	---	---	---	0	0	0	---	0	---	0
09/27/2009	---	---	---	---	1	0	0	---	0	---	0
09/28/2009	---	---	---	---	0	0	0	---	0	---	0
09/29/2009	---	---	---	---	1	0	0	---	0	---	0
09/30/2009	---	---	---	---	0	0	0	---	0	---	0
10/01/2009 *	---	---	---	---	1	0	0	---	0	---	0
10/02/2009	---	---	---	---	---	---	---	---	---	---	0
<hr/>											
Total:	0	0	0	0	3	2	0	0	0	0	0
# Days:	0	0	0	0	14	14	14	0	14	0	15
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	170	0	0	177	46,507	46,364	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:

10/2/09 9:28 AM

		Species							
		09/18/09 TO 10/02/09							
Site	Data	CH0	CH1	CO	ST	SO	Grand Total		
LGR	Sum of NumberCollected	1,070		1	16		3	1,090	
	Sum of NumberBarged	0		0	0		0	0	
	Sum of NumberBypassed	405		0	0		0	405	
	Sum of Numbertrucked	640		1	16		3	660	
	Sum of SampleMorts	21		0	0		0	21	
	Sum of FacilityMorts	0		0	0		0	0	
	Sum of ResearchMorts	4		0	0		0	4	
	Sum of TotalProjectMorts	25		0	0		0	25	
LGS	Sum of NumberCollected	91			33		3	2	129
	Sum of NumberBarged	0			0		0	0	0
	Sum of NumberBypassed	0			0		0	0	0
	Sum of Numbertrucked	86			32		3	2	123
	Sum of SampleMorts	4			1		0	0	5
	Sum of FacilityMorts	1			0		0	0	1
	Sum of ResearchMorts	0			0		0	0	0
	Sum of TotalProjectMorts	5			1		0	0	6
LMN	Sum of NumberCollected	188		2	7		1		198
	Sum of NumberBarged	0		0	0		0		0
	Sum of NumberBypassed	0		0	0		0		0
	Sum of Numbertrucked	178		2	7		1		188
	Sum of SampleMorts	10		0	0		0		10
	Sum of FacilityMorts	0		0	0		0		0
	Sum of ResearchMorts	0		0	0		0		0
	Sum of TotalProjectMorts	10		0	0		0		10
MCN	Sum of NumberCollected	2,290							2,290
	Sum of NumberBarged	0							0
	Sum of NumberBypassed	0							0
	Sum of Numbertrucked	2,275							2,275
	Sum of SampleMorts	3							3
	Sum of FacilityMorts	12							12
	Sum of ResearchMorts	0							0
	Sum of TotalProjectMorts	15							15
Total Sum of NumberCollected		3,639		3	56		4	5	3,707
Total Sum of NumberBarged		0		0	0		0	0	0
Total Sum of NumberBypassed		405		0	0		0	0	405
Total Sum of Numbertrucked		3,179		3	55		4	5	3,246
Total Sum of SampleMorts		38		0	1		0	0	39
Total Sum of FacilityMorts		13		0	0		0	0	13
Total Sum of ResearchMorts		4		0	0		0	0	4
Total Sum of TotalProjectMorts		55		0	1		0	0	56

YTD Transportation Summary

Source: Fish Passage Center

Updated:

10/2/09 9:28 AM

TO: 10/02/09

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	703,314	2,352,639	65,923	33,456	3,430,198	6,585,530
	Sum of NumberBarged	680,280	1,500,926	63,607	26,169	1,841,961	4,112,943
	Sum of NumberBypassed	16,586	847,954	1,951	7,068	1,587,774	2,461,333
	Sum of NumberTrucked	2,077	2	223	4	2	2,308
	Sum of SampleMorts	290	118	10	23	33	474
	Sum of FacilityMorts	4,058	2,734	132	192	409	7,525
	Sum of ResearchMorts	23	1,035	0	0	19	1,077
	Sum of TotalProjectMorts	4,371	3,887	142	215	461	9,076
LGS	Sum of NumberCollected	851,287	1,720,261	59,512	33,654	2,517,674	5,182,388
	Sum of NumberBarged	833,735	966,562	56,372	27,768	1,057,254	2,941,691
	Sum of NumberBypassed	9,301	752,024	2,825	5,826	1,460,071	2,230,047
	Sum of NumberTrucked	1,732	0	269	3	5	2,009
	Sum of SampleMorts	449	49	40	10	21	569
	Sum of FacilityMorts	6,058	1,622	6	47	323	8,056
	Sum of ResearchMorts	12	4	0	0	0	16
	Sum of TotalProjectMorts	6,519	1,675	46	57	344	8,641
LMN	Sum of NumberCollected	325,681	321,118	14,019	16,048	518,664	1,195,530
	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	681	7	49	0	3	740
	Sum of SampleMorts	147	15	2	3	10	177
	Sum of FacilityMorts	583	237	8	7	258	1,093
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	730	252	10	10	268	1,270
MCN	Sum of NumberCollected	1,836,921	1,303,737	69,886	106,375	467,741	3,784,660
	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	32,815	0	15	34	4	32,868
	Sum of SampleMorts	808	149	1	2	14	974
	Sum of FacilityMorts	34,259	1,441	65	60	158	35,983
	Sum of ResearchMorts	518	25	0	1	3	547
	Sum of TotalProjectMorts	35,585	1,615	66	63	175	37,504
Total Sum of NumberCollected		3,717,203	5,697,755	209,340	189,533	6,934,277	16,748,108
Total Sum of NumberBarged		2,247,279	2,779,766	134,377	70,232	3,405,576	8,637,230
Total Sum of NumberBypassed		1,385,411	2,910,694	74,141	118,860	3,527,421	8,016,527
Total Sum of NumberTrucked		37,305	9	556	41	14	37,925
Total Sum of SampleMorts		1,694	331	53	38	78	2,194
Total Sum of FacilityMorts		44,958	6,034	211	306	1,148	52,657
Total Sum of ResearchMorts		553	1,064	0	1	22	1,640
Total Sum of TotalProjectMorts		47,205	7,429	264	345	1,248	56,491

Cumulative Adult Passage at Mainstem Dams Through: 10/01

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	09/30	114525	66631	125543	17554	160243	11507	81936	37416	78271	11621	76947	10024	270779	109281	301030	37170	349826	37215
TDA	09/30	93908	53646	95438	15801	113852	9048	79916	27878	65073	12206	66821	7950	162966	87824	158037	35228	179820	28371
JDA	10/01	76806	49733	81772	14925	95147	7579	65989	33147	63649	13680	61980	8146	132485	75957	126139	30098	132041	24858
MCN	10/01	70413	43328	68080	12133	86998	7409	57137	21182	54735	11239	59015	7256	91315	56443	90229	18162	97009	17505
IHR	10/01	55435	28223	53142	7757	59050	4663	23856	9400	23693	4964	13243	2568	23319	37065	20791	9089	12715	6304
LMN	10/01	66931	20009	54512	6885	57079	4270	23353	11733	27343	2890	13719	1912	21105	35918	19564	8010	11623	4909
LGS	09/30	52642	24331	50396	7805	54016	4453	20340	11207	21748	4811	11241	2521	20411	27471	16474	4088	9184	3234
LGR	10/01	49667	31064	50146	10946	54673	5280	14482	16367	22612	5072	11171	2757	12884	34364	15192	6978	8261	4145
PRD	09/26	13469	2910	12178	620	18164	621	49417	2117	39174	3442	53065	2394	26166	3923	23300	12133	22595	3534
RIS	09/29	12634	6003	12490	1119	14914	1069	44295	7727	38171	3096	50031	5515	8608	2884	5431	3106	7489	1830
RRH	09/29	6090	1086	4065	371	5734	430	34961	5231	29675	2127	37679	3897	5636	1954	4714	3091	5101	1700
WEL	09/30	6307	1867	2708	426	4250	321	25724	3800	21060	1375	27632	2013	2494	1689	2524	1798	2631	966
WFA	09/25	25067	2670	14151	521	-	-	-	-	-	-	-	-	759	155	723	417	-	-

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	135562	6177	85006	7970	82282	5032	177823	213607	78590	584650	349482	344148	166508
TDA	32488	5642	24006	4077	20412	2275	155591	177984	66379	456136	254974	242672	125921
JDA	29531	4962	26011	4580	17672	2687	157399	193409	72416	488772	243246	219516	135520
MCN	15549	2824	12529	2438	8830	991	121675	146924	58760	321120	183200	167304	83343
IHR	1310	226	1969	105	735	39	867	539	90	240917	139017	118547	55213
LMN	1015	303	2573	274	668	49	1162	722	103	215207	140553	108598	52837
LGS	1013	239	2136	277	521	44	1063	594	96	186375	117305	88295	39777
LGR	456	127	1924	756	520	104	1217	901	126	184721	112497	89343	44333
PRD	3168	196	1904	262	1041	168	153466	196835	74878	34804	15091	13626	0
RIS	5686	1377	1746	697	1230	78	162830	193736	71010	33673	14837	13042	10831
RRH	748	193	414	243	159	18	133103	161337	52426	25544	11779	9736	8119
WEL	208	1	53	0	12	0	134935	165329	52892	21226	7705	6901	7273
WFA	8988	1149	1098	1185	-	-	-	-	-	17461	18836	-	-

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: 10/02/09

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