



Fish Passage Center

Weekly Report #08 - 31

October 17, 2008

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 74% and 277% of average at individual sub-basins over the beginning of Water Year 2009 (October 1-13). Precipitation above The Dalles has been 130% of average over the beginning of Water Year 2009.

Table 1. Summary of October 1-13 precipitation and cumulative precipitation with respect to average (1971-2000), at select locations within the Columbia and Snake River Basins.

Location	Water Year 2009 October 1-13		Water Year 2009 October 1, 2008 to October 13, 2008	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.05	135	1.05	135
SNAKE RIVER ABOVE ICE HARBOR	0.65	130	0.65	130
Columbia Above The Dalles	0.91	130	0.91	130
Kootenai	1.21	156	1.21	156
Clark Fork	0.40	80	0.40	80
Flathead	0.63	90	0.63	90
Pend Oreille/ Spokane	0.81	91	0.81	91
Central Washington	0.25	97	0.25	97
SNAKE RIVER PLAIN	1.00	277	1.00	277
Salmon/Boise/ Payette	0.47	90	0.47	90
Clearwater	0.67	74	0.67	74
SW Washington Cascades/Cowlitz	2.37	102	2.37	102
Willamette Valley	2.36	131	2.36	131

Grand Coulee is currently at 1286.6 feet (10-16-08) and drafted 0.5 feet last week. Outflows have ranged between 49.0 and 93.6 Kcfs over the last week. Inflows last week have ranged between 65.6 Kcfs and 78.1 Kcfs.

The Libby Reservoir is currently (10-16-08) at an elevation of 2441.1 feet, holding steady last week. Inflows at Libby have ranged between 1.4 Kcfs and 6.2 Kcfs over the last week. Outflows at Libby are currently 4.7 Kcfs.

Hungry Horse is currently at an elevation of 3531.0 feet (10-16-08), and has drafted 0.9 feet last week. Outflows at Hungry Horse have ranged between 1.9-2.2 Kcfs; inflows have ranged between 0.2 Kcfs and 1.3 Kcfs last week.

Albeni Falls is at an elevation of 2056.4 feet (10-16-08) and has drafted 1.6 feet last week. The fall draft of Albeni Falls was the focus of SOR USFW/IDFG 2008-1 and was discussed at the October 8, 2008 TMT Meeting. Outflows at Albeni Falls are currently 27.5 Kcfs. The COE plans to draft to elevation 2054 feet by the end of October and to further draft Albeni Falls to elevation 2051 feet by mid November (date to be determined).

Dworshak is currently (10-16-08) at 1519.4 feet and has drafted 0.4 feet last week. Outflows at Dworshak are 1.6 Kcfs. Inflows have ranged between 1.0 and 1.5 Kcfs last week.

The Brownlee Reservoir is at an elevation of 2045.4 feet (October 16th, 2008), and has refilled 1.8 feet last week. Outflows at Brownlee Dam have been 8.7 to 19.7 Kcfs over the last week. Inflows at Brownlee Dam have been 12.3 to 13.0 Kcfs over the last week.

Fall chinook spawning outflows began below Hells Canyon Dam on October 13th, 2008. Outflows from Hells Canyon Dam have been 9.0-9.1 Kcfs between October 13-16, 2008.

Smolt Monitoring:

Sampling continues at Lower Granite, Little Goose and Bonneville dams. Subyearling Chinook are the primary salmonid species that continue to be collected at present. Small numbers of sockeye (possibly kokanee) fry have been collected at Lower Granite Dam over the past month. The small size suggests these fish may have been flushed from Dworshak Reservoir. At Lower Granite Dam in the Snake River the daily passage indices for subyearling Chinook continue to remain relatively high for this time of year. The index averaged about 230 per day this past week compared to 360 per day the previous week. PIT-tag data suggest that hatchery origin fish predominate—especially releases from Big Canyon Creek. There were over 750 detections of Big Canyon Creek releases since October 1. In addition small numbers of wild subyearling Chinook marked in the Clearwater River continue to pass the project.

At the lower Columbia River Bonneville is the only SMP site still monitoring. At that site indices for subyearling Chinook averaged about 150 per day this week compared to 180 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. Approximately 225,000 unclipped spring Chinook pre-smolts were scheduled for release into the Clearwater River, beginning around October 6th. These releases were expected to end on or around October 14th. These spring Chinook pre-smolts are not expected to out-migrate until spring 2009. There are no other scheduled releases of salmonid juveniles to 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 to the Mid-Columbia river zone this week. Furthermore, no releases are 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 scheduled releases of juvenile salmonids to this zone this week and no releases are scheduled over the next two weeks.

Adult Fish Passage:

Daily counts of adult fall Chinook ranged from 267 to 551. The 2008 Bonneville Dam adult fall Chinook count of 312,096 is about 2.01 times greater than the 2007 and is approximately 88.8% of the 10 year average. The fall Chinook jack count of 38,891 is about 75.2% of the 2007 count and is about 97.4% of the 10 year average. The adult fall Chinook count total at The Dalles Dam is 168,371, about 53.9% of the Bonneville passage total to date. The 2008 Lower Granite Dam (LGR) adult fall Chinook count of 16,143 is about 1.69 times greater than the 2007 count of 9,563 and is about 1.98 times greater than the 10 year average count of 8,137. This year's LGR adult fall Chinook count of 16,143 is the largest historically recorded count. The previous high record of 14,960 of adult fall Chinook count at Lower Granite occurred in 2004. This year's count is about 1.08 times greater than the 2004 count.

As of October 16th, 354,063 steelhead had passed Bonneville Dam. The 2008 count is 1.11 times greater than the 2007 count of 317,800 and 1.05 times greater than the 10 year average of 337,517. The 2008 wild steelhead count at Bonneville Dam was 104,441 fish. The daily steelhead counts at The Dalles Dam ranged between 628 and 1,403 for the week with a cumulative count of 273,294. About 77.2% of the steelhead counted at Bonneville Dam had passed The Dalles Dam. The majority of the 211,112 steelhead at McNary Dam have moved up into the Snake River with the cumulative count at Ice Harbor now at 162,440 for the season. The 2008 count Lower Granite Dam steelhead count of 151,849 was 1.16 times greater than the 2007 count and 1.21 times greater than the 10 year average. The cumulative count at Priest Rapids Dam was at 16,207 steelhead for the season.

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 2008 B-run adult steelhead began August 26th at Bonneville Dam and was 130,713 as of October 16th. The 2008 B-run steelhead count is 1.50 times greater than the 2007 count of 86,891 and is 1.05 times greater than the 10-year average of 124,300.

The coho salmon count at Bonneville Dam was 125,707 adults and 10,028 jacks as of October 16th. To date, the 2008 Bonneville coho adult count is about 1.67

times greater than the 2007 count of 75,119 and is about 1.35 times greater than the 10 year average of 93,205. The 2008 Bonneville coho jack count of 10,028 is about 2.80 times greater than the 2007 count of 3,581 and is about 1.76 times greater than the 10 year average count of 5,710.

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
10/03/2008	47.5	0.0	51.1	0.0	50.1	0.0	53.9	0.0	52.6	0.0	51.8	1.6	50.8	1.0
10/04/2008	35.9	0.0	36.6	0.0	40.4	0.0	41.0	0.0	43.4	0.0	49.8	1.9	42.0	1.0
10/05/2008	39.5	0.0	39.3	0.0	38.0	0.0	33.6	0.0	34.0	0.0	38.5	1.8	42.9	0.9
10/06/2008	66.7	0.0	62.6	0.0	61.8	0.0	63.0	0.0	64.4	0.0	61.8	1.7	58.1	0.9
10/07/2008	49.9	0.0	47.2	0.0	48.6	0.0	51.7	0.0	51.8	0.0	58.5	1.7	57.4	0.9
10/08/2008	63.4	0.0	62.5	0.0	64.3	0.0	62.9	0.0	63.2	0.0	72.9	1.7	67.2	1.0
10/09/2008	59.3	0.0	69.9	0.0	70.5	0.0	68.4	0.0	68.4	0.0	66.9	1.7	66.9	1.0
10/10/2008	51.0	0.0	50.8	0.0	53.7	0.0	55.7	0.0	58.2	0.0	64.8	1.7	63.1	1.0
10/11/2008	53.6	0.0	44.3	0.0	45.3	0.0	47.6	0.0	48.6	0.0	53.4	1.6	54.6	0.9
10/12/2008	49.0	0.0	49.9	0.0	52.4	0.7	48.6	0.0	49.5	0.0	45.4	1.9	42.4	0.6
10/13/2008	60.3	0.0	64.8	0.0	65.1	0.0	67.4	0.0	69.4	0.0	69.5	1.8	69.9	0.9
10/14/2008	74.0	0.0	74.7	0.0	77.7	0.0	74.9	0.0	75.6	0.0	88.0	1.6	89.0	0.7
10/15/2008	88.8	0.0	89.1	0.0	92.0	0.0	90.0	0.0	88.9	0.0	77.7	1.9	68.0	0.8
10/16/2008	93.6	0.0	93.0	0.0	92.7	1.4	93.3	5.7	95.2	0.0	95.1	2.1	90.0	1.0

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
10/03/2008	1.6	0.0	12.7	16.0	24.0	0.0	22.6	0.0	23.0	0.0	23.5	0.0		
10/04/2008	1.6	0.0	11.4	10.6	20.7	0.0	16.1	0.0	16.5	0.0	14.2	0.0		
10/05/2008	1.6	0.0	12.1	9.3	19.7	0.0	18.8	0.0	19.5	0.0	20.7	0.0		
10/06/2008	1.6	0.0	12.6	12.1	17.8	0.0	17.5	0.0	17.0	0.0	18.6	0.0		
10/07/2008	1.6	0.0	12.3	10.7	23.6	0.0	22.7	0.0	23.0	0.0	22.0	0.0		
10/08/2008	1.6	0.0	12.6	13.2	18.4	0.0	17.7	0.0	18.3	0.0	18.7	0.0		
10/09/2008	1.6	0.0	12.8	17.6	24.1	0.0	22.3	0.0	23.3	0.0	24.2	0.0		
10/10/2008	1.6	0.0	12.5	17.6	24.7	0.0	24.8	0.0	27.0	0.0	25.8	0.0		
10/11/2008	1.6	0.0	12.8	15.4	20.3	0.0	19.4	0.0	19.2	0.0	20.1	0.0		
10/12/2008	1.6	0.0	13.0	12.6	22.9	0.0	22.1	0.0	21.2	0.0	21.1	0.0		
10/13/2008	1.6	0.0	12.3	17.4	26.0	0.0	25.2	0.0	25.4	0.0	25.8	0.0		
10/14/2008	1.6	0.0	12.4	9.0	20.4	0.0	19.6	0.0	20.5	0.0	20.6	0.0		
10/15/2008	1.6	0.0	12.5	9.1	14.6	0.0	14.6	0.0	15.8	0.0	15.6	0.0		
10/16/2008	1.6	0.0	12.6	---	17.4	0.0	16.5	0.0	16.3	0.0	15.6	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
10/03/2008	88.2	0.0	92.1	0.7	98.0	0.0	107.0	1.3	15.4	83.0
10/04/2008	62.6	0.0	66.1	0.7	67.2	0.0	74.1	1.4	0.0	65.6
10/05/2008	61.1	0.0	62.5	0.8	65.3	0.0	72.6	1.2	0.0	64.1
10/06/2008	75.4	0.0	70.5	0.7	71.5	0.0	79.4	1.3	3.9	66.6
10/07/2008	76.7	0.0	70.2	0.7	72.3	0.0	79.6	1.3	4.5	66.6
10/08/2008	79.5	0.0	88.7	0.8	93.1	0.0	105.6	1.3	27.7	69.5
10/09/2008	100.3	0.0	99.0	0.7	101.0	0.0	107.6	1.3	22.5	76.6
10/10/2008	92.3	0.0	96.8	0.6	97.3	0.0	102.6	1.2	12.5	81.7
10/11/2008	83.5	0.0	82.1	0.8	84.3	0.0	94.9	1.2	5.5	81.0
10/12/2008	67.4	0.0	68.7	0.8	71.6	0.0	79.6	1.3	0.0	71.1
10/13/2008	81.7	0.0	81.5	0.8	84.3	0.0	90.2	1.2	6.3	75.6
10/14/2008	98.4	0.0	91.9	0.8	91.2	0.0	99.7	1.3	21.6	69.6
10/15/2008	106.3	0.0	115.4	0.8	120.1	0.0	131.3	1.3	51.4	71.5
10/16/2008	86.6	0.0	89.4	0.7	87.0	0.0	96.7	1.2	20.1	68.2

Hatchery Releases Last Two Weeks

From:		Hatchery Release Summary							
		10/3/2008	to	10/16/08					
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2009	75,000	10-06-08	10-14-08	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2009	150,000	10-06-08	10-13-08	Lolo Creek	Clearwater River M F
Nez Perce Tribe Total					225,000				
Grand Total					225,000				

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

Hatchery Releases Next Two Weeks

From:		Hatchery Release Summary							
10/17/2008		to	10/30/2008						
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver

There are no Hatchery Releases scheduled for the next 2 weeks

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>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
10/3	102	103	103	24	105	106	106	19	102	102	103	24	100	100	101	19	102	102	102	24
10/4	103	103	103	24	105	105	105	23	102	102	102	24	101	102	103	23	102	102	102	24
10/5	102	102	103	24	103	104	104	21	100	101	101	24	100	100	102	21	100	100	100	24
10/6	101	102	102	24	103	103	104	23	99	100	100	24	99	99	100	23	99	99	100	24
10/7	101	101	102	24	103	103	104	21	99	100	100	24	99	100	102	21	99	99	99	24
10/8	99	100	100	24	102	102	103	23	98	99	99	24	97	97	98	23	99	99	100	24
10/9	98	98	99	24	102	102	103	20	99	99	99	24	98	98	100	20	100	100	100	24
10/10	98	98	99	24	101	101	102	22	99	99	99	24	97	98	99	22	100	100	100	2
10/11	98	98	99	24	101	101	102	21	98	99	99	24	98	99	100	21	---	---	---	0
10/12	98	98	98	24	101	101	102	23	98	99	99	24	98	98	100	23	---	---	---	0
10/13	97	97	98	24	101	102	102	23	98	99	99	24	97	98	99	23	---	---	---	0
10/14	97	98	99	24	101	101	102	23	98	98	99	24	97	98	98	23	98	98	98	24
10/15	97	97	97	24	101	101	102	24	98	98	99	24	97	98	99	24	98	99	99	24
10/16	97	97	98	24	101	101	101	22	98	99	99	24	97	98	98	22	99	99	99	14

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>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
10/3	101	102	103	24	---	---	---	0	---	---	---	0	102	102	103	24	101	101	102	24
10/4	102	102	103	24	---	---	---	0	---	---	---	0	102	103	103	24	101	101	101	24
10/5	100	100	101	24	---	---	---	0	---	---	---	0	100	100	101	24	99	99	99	24
10/6	99	100	100	24	---	---	---	0	---	---	---	0	99	100	100	24	98	99	99	24
10/7	98	99	99	24	---	---	---	0	---	---	---	0	99	99	100	24	98	99	99	24
10/8	100	101	102	24	---	---	---	0	---	---	---	0	98	99	99	24	97	98	98	24
10/9	100	101	102	24	---	---	---	0	---	---	---	0	99	99	99	24	98	98	99	24
10/10	100	100	101	2	---	---	---	0	---	---	---	0	99	99	99	24	98	98	98	24
10/11	---	---	---	0	---	---	---	0	---	---	---	0	99	99	99	24	98	98	98	24
10/12	---	---	---	0	---	---	---	0	---	---	---	0	99	99	99	24	98	98	98	24
10/13	---	---	---	0	---	---	---	0	---	---	---	0	99	99	99	24	98	98	98	24
10/14	97	98	99	24	---	---	---	0	---	---	---	0	99	99	99	1	98	98	98	1
10/15	98	99	99	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
10/16	99	99	100	14	---	---	---	0	---	---	---	0	---	---	---	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>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
10/3	101	102	103	24	102	103	103	24	97	98	100	24	102	103	103	24	102	102	102	24
10/4	102	102	103	24	102	103	103	24	99	100	101	24	103	103	104	24	101	102	102	24
10/5	99	100	100	24	100	101	101	24	97	98	99	24	101	102	103	24	100	100	100	24
10/6	99	99	100	24	100	100	100	24	96	97	98	24	100	100	101	24	99	100	100	24
10/7	99	99	100	24	99	100	100	24	97	98	98	24	100	100	101	24	99	100	100	24
10/8	98	99	99	24	98	99	99	24	97	97	98	24	99	100	100	24	99	99	99	24
10/9	99	99	99	24	99	99	100	24	96	97	97	24	100	100	100	24	99	99	99	24
10/10	99	99	99	24	99	99	99	24	97	97	97	24	99	100	101	24	99	99	99	24
10/11	98	99	99	24	99	99	99	24	95	96	97	24	99	100	100	24	98	98	98	24
10/12	98	98	99	24	99	99	99	24	95	95	96	24	99	100	102	24	98	98	98	24
10/13	98	99	99	24	99	99	99	24	95	95	96	24	99	99	100	24	98	99	99	24
10/14	98	98	99	24	99	99	99	24	96	97	97	24	99	99	100	24	98	99	99	24
10/15	99	99	99	24	99	99	99	24	---	---	---	0	---	---	---	0	---	---	---	0
10/16	99	99	99	24	99	99	99	24	---	---	---	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>Clrwtr-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>					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg	Avg		
10/3	103	104	105	24	101	102	102	24	104	105	105	24	---	---	---	0	---	---	---	0
10/4	103	103	104	24	101	101	102	24	104	104	105	24	---	---	---	0	---	---	---	0
10/5	102	102	102	24	98	99	99	24	103	103	103	24	---	---	---	0	---	---	---	0
10/6	101	101	102	24	99	99	100	24	102	103	103	24	---	---	---	0	---	---	---	0
10/7	101	101	102	24	100	100	100	24	102	102	103	24	---	---	---	0	---	---	---	0
10/8	100	101	102	24	98	98	99	14	101	101	101	8	---	---	---	0	---	---	---	0
10/9	101	101	102	24	---	---	---	0	103	103	103	11	---	---	---	0	---	---	---	0
10/10	100	101	101	24	---	---	---	0	104	104	105	24	---	---	---	0	---	---	---	0
10/11	100	100	101	24	---	---	---	0	104	105	105	24	---	---	---	0	---	---	---	0
10/12	100	100	101	24	---	---	---	0	104	104	104	24	---	---	---	0	---	---	---	0
10/13	100	100	100	24	---	---	---	0	104	104	105	24	---	---	---	0	---	---	---	0
10/14	100	100	101	24	---	---	---	0	104	104	104	24	---	---	---	0	---	---	---	0
10/15	---	---	---	0	---	---	---	0	104	104	105	24	---	---	---	0	---	---	---	0
10/16	---	---	---	0	---	---	---	0	104	104	104	24	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-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>					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg	Avg		
10/3	---	---	---	0	---	---	---	0	100	101	101	24	102	102	103	24	100	100	101	24
10/4	---	---	---	0	---	---	---	0	100	101	101	24	101	102	102	24	99	100	100	24
10/5	---	---	---	0	---	---	---	0	99	99	99	24	98	98	98	24	97	97	97	24
10/6	---	---	---	0	---	---	---	0	98	98	99	24	97	97	98	24	96	97	97	24
10/7	---	---	---	0	---	---	---	0	97	98	98	24	97	97	97	10	96	97	102	24
10/8	---	---	---	0	---	---	---	0	97	97	98	24	---	---	---	0	96	96	97	20
10/9	---	---	---	0	---	---	---	0	97	97	98	24	---	---	---	0	95	96	96	21
10/10	---	---	---	0	---	---	---	0	96	96	97	24	---	---	---	0	95	95	95	9
10/11	---	---	---	0	---	---	---	0	96	96	96	24	---	---	---	0	95	95	95	7
10/12	---	---	---	0	---	---	---	0	95	95	95	8	---	---	---	0	---	---	---	0
10/13	---	---	---	0	---	---	---	0	96	96	96	5	---	---	---	0	---	---	---	0
10/14	---	---	---	0	---	---	---	0	95	96	97	24	---	---	---	0	95	95	96	4
10/15	---	---	---	0	---	---	---	0	96	96	97	24	---	---	---	0	95	95	96	7
10/16	---	---	---	0	---	---	---	0	96	96	97	24	---	---	---	0	95	95	95	5

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>					
	Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg		Avg	Avg			Avg	Avg		
10/3	99	99	100	24	99	100	101	24	99	100	101	24	100	101	102	24	---	---	---	0
10/4	99	100	100	24	99	100	100	24	99	100	100	24	101	101	101	24	---	---	---	0
10/5	97	98	98	24	97	98	101	24	98	99	99	24	99	100	100	24	---	---	---	0
10/6	96	97	97	24	97	97	97	24	98	98	98	24	99	100	101	24	---	---	---	0
10/7	96	96	97	24	97	97	98	24	97	97	98	24	98	99	99	24	---	---	---	0
10/8	95	95	95	13	96	97	97	24	96	96	97	11	98	98	99	24	---	---	---	0
10/9	96	96	97	24	97	97	97	24	---	---	---	0	98	98	99	24	---	---	---	0
10/10	96	96	97	24	97	97	97	24	---	---	---	0	98	98	99	24	---	---	---	0
10/11	96	96	96	24	96	97	97	24	---	---	---	0	97	98	98	24	---	---	---	0
10/12	95	96	96	20	96	96	97	24	---	---	---	0	97	98	99	24	---	---	---	0
10/13	95	95	95	9	96	96	96	24	---	---	---	0	97	97	98	24	---	---	---	0
10/14	---	---	---	0	96	96	97	24	---	---	---	0	97	97	99	24	---	---	---	0
10/15	---	---	---	0	96	96	97	23	---	---	---	0	97	98	99	24	---	---	---	0
10/16	---	---	---	0	95	96	96	21	---	---	---	0	97	98	99	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					
10/3	102	102	103	24	101	102	102	24	---	---	---	0	101	102	102	24	---	---	---	0
10/4	102	103	103	24	101	102	102	24	---	---	---	0	102	103	103	24	---	---	---	0
10/5	100	100	101	24	99	100	100	24	---	---	---	0	101	101	101	24	---	---	---	0
10/6	99	100	100	24	99	99	100	24	---	---	---	0	100	101	101	24	---	---	---	0
10/7	99	99	100	24	99	99	99	24	---	---	---	0	100	100	101	24	---	---	---	0
10/8	98	98	98	24	97	98	98	24	---	---	---	0	99	99	100	24	---	---	---	0
10/9	98	98	98	24	98	98	98	24	---	---	---	0	99	99	100	24	---	---	---	0
10/10	98	98	98	13	97	97	98	24	---	---	---	0	98	98	99	24	---	---	---	0
10/11	---	---	---	0	97	98	98	24	---	---	---	0	98	99	100	24	---	---	---	0
10/12	---	---	---	0	97	98	98	24	---	---	---	0	99	99	99	24	---	---	---	0
10/13	---	---	---	0	97	98	98	24	---	---	---	0	98	98	99	24	---	---	---	0
10/14	---	---	---	0	98	98	98	24	---	---	---	0	99	99	100	24	---	---	---	0
10/15	---	---	---	0	98	98	99	24	---	---	---	0	98	98	98	24	---	---	---	0
10/16	---	---	---	0	98	99	99	24	---	---	---	0	99	99	100	24	---	---	---	0

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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>#</u>
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
10/3	102	102	102	24	---	---	---	0	104	105	105	24	---	---	---	0	115	118	120	24
10/4	102	103	103	24	---	---	---	0	103	104	105	24	---	---	---	0	113	117	120	24
10/5	101	101	102	24	---	---	---	0	102	102	103	24	---	---	---	0	115	119	121	24
10/6	101	101	102	24	---	---	---	0	102	103	103	24	---	---	---	0	116	120	123	24
10/7	100	101	101	24	---	---	---	0	101	102	103	24	---	---	---	0	115	120	123	24
10/8	100	101	101	24	---	---	---	0	102	102	103	24	---	---	---	0	115	119	122	24
10/9	100	101	101	24	---	---	---	0	101	102	103	24	---	---	---	0	113	117	120	24
10/10	100	100	100	24	---	---	---	0	101	102	102	24	---	---	---	0	114	118	120	24
10/11	99	100	100	24	---	---	---	0	101	101	102	24	---	---	---	0	114	118	121	24
10/12	100	100	100	24	---	---	---	0	100	101	101	24	---	---	---	0	113	116	120	24
10/13	100	100	100	24	---	---	---	0	101	101	101	24	---	---	---	0	114	118	120	24
10/14	100	100	101	24	---	---	---	0	101	102	103	24	---	---	---	0	114	117	119	24
10/15	100	100	100	24	---	---	---	0	101	102	102	24	---	---	---	0	116	119	121	24
10/16	100	100	100	24	---	---	---	0	102	102	103	24	---	---	---	0	116	119	122	24

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 10/17/2008 9:14

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)
10/03/2008	---	---	---	---	2	0	---	---	---	---	0
10/04/2008 *	---	---	---	---	2	0	---	---	---	---	0
10/05/2008 *	---	---	---	---	0	0	---	---	---	---	0
10/06/2008	---	---	---	---	0	0	---	---	---	---	0
10/07/2008	---	---	---	---	0	0	---	---	---	---	0
10/08/2008	---	---	---	---	0	0	---	---	---	---	0
10/09/2008	---	---	---	---	0	0	---	---	---	---	0
10/10/2008	---	---	---	---	0	0	---	---	---	---	0
10/11/2008	---	---	---	---	0	0	---	---	---	---	0
10/12/2008	---	---	---	---	0	0	---	---	---	---	0
10/13/2008	---	---	---	---	0	0	---	---	---	---	0
10/14/2008	---	---	---	---	1	0	---	---	---	---	0
10/15/2008	---	---	---	---	1	0	---	---	---	---	0
10/16/2008	---	---	---	---	0	0	---	---	---	---	0
10/17/2008	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	6	0	0	0	0	0	0
# Days:	0	0	0	0	14	14	0	0	0	0	14
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	56,037	78,597	19,672	13,632	3,584,883	2,743,416	1,971,520	22,434	1,360,627	1,694,104	1,291,085

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)
10/03/2008	---	---	---	---	855	1,367	---	---	---	---	133
10/04/2008 *	---	---	---	---	613	1,904	---	---	---	---	185
10/05/2008 *	---	---	---	---	331	465	---	---	---	---	156
10/06/2008	---	---	---	---	73	54	---	---	---	---	102
10/07/2008	---	---	---	---	181	29	---	---	---	---	219
10/08/2008	---	---	---	---	225	56	---	---	---	---	193
10/09/2008	---	---	---	---	264	54	---	---	---	---	273
10/10/2008	---	---	---	---	349	63	---	---	---	---	185
10/11/2008	---	---	---	---	396	49	---	---	---	---	119
10/12/2008	---	---	---	---	190	50	---	---	---	---	81
10/13/2008	---	---	---	---	179	61	---	---	---	---	78
10/14/2008	---	---	---	---	246	98	---	---	---	---	90
10/15/2008	---	---	---	---	174	75	---	---	---	---	162
10/16/2008	---	---	---	---	109	43	---	---	---	---	301
10/17/2008	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	4,185	4,368	0	0	0	0	2,277
# Days:	0	0	0	0	14	14	0	0	0	0	14
Average:	0	0	0	0	299	312	0	0	0	0	163
YTD	0	0	2	119	751,736	1,135,358	332,381	16,069	2,410,658	1,780,674	3,767,473

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)
10/03/2008	---	---	---	---	2	0	---	---	---	---	0
10/04/2008 *	---	---	---	---	0	0	---	---	---	---	0
10/05/2008 *	---	---	---	---	1	0	---	---	---	---	0
10/06/2008	---	---	---	---	0	0	---	---	---	---	0
10/07/2008	---	---	---	---	0	0	---	---	---	---	0
10/08/2008	---	---	---	---	0	0	---	---	---	---	0
10/09/2008	---	---	---	---	0	0	---	---	---	---	10
10/10/2008	---	---	---	---	0	0	---	---	---	---	13
10/11/2008	---	---	---	---	0	0	---	---	---	---	0
10/12/2008	---	---	---	---	0	0	---	---	---	---	0
10/13/2008	---	---	---	---	0	0	---	---	---	---	0
10/14/2008	---	---	---	---	0	0	---	---	---	---	0
10/15/2008	---	---	---	---	0	0	---	---	---	---	0
10/16/2008	---	---	---	---	0	0	---	---	---	---	0
10/17/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	3	0	0	0	0	0	23
# Days:	0	0	0	0	14	14	0	0	0	0	14
Average:	0	0	0	0	0	0	0	0	0	0	2
YTD	0	0	0	326	109,022	166,110	142,692	52,278	169,484	362,537	358,756

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)
10/03/2008	---	---	---	---	0	0	---	---	---	---	0
10/04/2008 *	---	---	---	---	0	0	---	---	---	---	0
10/05/2008 *	---	---	---	---	0	0	---	---	---	---	0
10/06/2008	---	---	---	---	0	0	---	---	---	---	0
10/07/2008	---	---	---	---	0	0	---	---	---	---	0
10/08/2008	---	---	---	---	0	0	---	---	---	---	0
10/09/2008	---	---	---	---	0	0	---	---	---	---	0
10/10/2008	---	---	---	---	1	0	---	---	---	---	13
10/11/2008	---	---	---	---	1	0	---	---	---	---	0
10/12/2008	---	---	---	---	0	0	---	---	---	---	0
10/13/2008	---	---	---	---	1	0	---	---	---	---	0
10/14/2008	---	---	---	---	0	0	---	---	---	---	0
10/15/2008	---	---	---	---	1	0	---	---	---	---	0
10/16/2008	---	---	---	---	1	0	---	---	---	---	0
10/17/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	5	0	0	0	0	0	13
# Days:	0	0	0	0	14	14	0	0	0	0	14
Average:	0	0	0	0	0	0	0	0	0	0	1
YTD	4,565	22,292	5,891	10,708	3,444,113	3,694,321	1,546,176	22,780	507,334	1,132,951	450,277

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)
10/03/2008	---	---	---	---	44	5	---	---	---	---	0
10/04/2008 *	---	---	---	---	25	0	---	---	---	---	0
10/05/2008 *	---	---	---	---	28	1	---	---	---	---	0
10/06/2008	---	---	---	---	36	2	---	---	---	---	0
10/07/2008	---	---	---	---	23	0	---	---	---	---	0
10/08/2008	---	---	---	---	44	2	---	---	---	---	0
10/09/2008	---	---	---	---	12	4	---	---	---	---	0
10/10/2008	---	---	---	---	50	0	---	---	---	---	0
10/11/2008	---	---	---	---	32	0	---	---	---	---	0
10/12/2008	---	---	---	---	14	3	---	---	---	---	0
10/13/2008	---	---	---	---	19	2	---	---	---	---	0
10/14/2008	---	---	---	---	28	1	---	---	---	---	0
10/15/2008	---	---	---	---	19	0	---	---	---	---	0
10/16/2008	---	---	---	---	6	0	---	---	---	---	0
10/17/2008	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	380	20	0	0	0	0	0
# Days:	0	0	0	0	14	14	0	0	0	0	14
Average:	0	0	0	0	27	1	0	0	0	0	0
YTD	37	0	0	111	28,364	36,707	45,483	38,965	223,005	331,945	145,402

* 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:

10/17/08 9:15 AM

10/03/08 TO 10/17/08

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	4,185	6	3	380	5	4,579
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,010	0	0	0	0	1,010
	Sum of Numbertrucked	3,119	6	3	326	5	3,459
	Sum of SampleMorts	40	0	0	54	0	94
	Sum of FacilityMorts	0	0	0	0	0	0
	Sum of ResearchMorts	16	0	0	0	0	16
	Sum of TotalProjectMorts	56	0	0	54	0	110
LGS	Sum of NumberCollected	4,368				20	4,388
	Sum of NumberBarged	0				0	0
	Sum of NumberBypassed	0				0	0
	Sum of Numbertrucked	4,355				18	4,373
	Sum of SampleMorts	8				1	9
	Sum of FacilityMorts	5				0	5
	Sum of ResearchMorts	0				0	0
	Sum of TotalProjectMorts	13				1	14
Total Sum of NumberCollected		8,553	6	3	400	5	8,967
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		1,010	0	0	0	0	1,010
Total Sum of Numbertrucked		7,474	6	3	344	5	7,832
Total Sum of SampleMorts		48	0	0	55	0	103
Total Sum of FacilityMorts		5	0	0	0	0	5
Total Sum of ResearchMorts		16	0	0	0	0	16
Total Sum of TotalProjectMorts		69	0	0	55	0	124

YTD Transportation Summary

Source: Fish Passage Center

Updated:

10/17/08 9:15 AM

TO: 10/17/08

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	431,601	2,398,657	68,833	14,090	2,165,438	5,078,619
	Sum of NumberBarged	401,738	1,966,900	66,905	12,865	1,786,609	4,235,017
	Sum of NumberBypassed	8,322	425,949	1,849	452	377,931	814,503
	Sum of NumberTrucked	14,033	24	33	601	28	14,719
	Sum of SampleMorts	560	154	2	134	52	902
	Sum of FacilityMorts	1,685	2,841	44	38	818	5,426
	Sum of ResearchMorts	5,263	2,789	0	0	0	8,052
	Sum of TotalProjectMorts	7,508	5,784	46	172	870	14,380
LGS	Sum of NumberCollected	750,071	1,706,950	95,879	21,924	2,309,436	4,884,260
	Sum of NumberBarged	728,067	1,314,157	93,092	21,716	1,590,212	3,747,244
	Sum of NumberBypassed	5,428	389,296	2,765	73	718,741	1,116,303
	Sum of NumberTrucked	14,588	4	17	98	11	14,718
	Sum of SampleMorts	218	40	1	8	14	281
	Sum of FacilityMorts	1,770	3,453	4	28	458	5,713
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1,988	3,493	5	36	472	5,994
LMN	Sum of NumberCollected	242,135	1,216,522	83,198	28,107	957,130	2,527,092
	Sum of NumberBarged	237,235	276,438	9,246	10,128	230,248	763,295
	Sum of NumberBypassed	2,243	940,234	73,949	17,975	726,648	1,761,049
	Sum of NumberTrucked	2,182	4	0	3	5	2,194
	Sum of SampleMorts	97	39	0	0	22	158
	Sum of FacilityMorts	378	798	3	1	207	1,387
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	475	837	3	1	229	1,545
MCN	Sum of NumberCollected	1,184,811	752,385	78,675	102,310	276,935	2,395,116
	Sum of NumberBarged	349,594	164	50	120	55	349,983
	Sum of NumberBypassed	750,490	751,376	78,558	102,005	276,615	1,959,044
	Sum of NumberTrucked	75,708	11	5	36	0	75,760
	Sum of SampleMorts	557	112	3	23	25	720
	Sum of FacilityMorts	8,375	658	56	121	218	9,428
	Sum of ResearchMorts	87	64	3	5	22	181
	Sum of TotalProjectMorts	9,019	834	62	149	265	10,329
Total Sum of NumberCollected		2,608,618	6,074,514	326,585	166,431	5,708,939	14,885,087
Total Sum of NumberBarged		1,716,634	3,557,659	169,293	44,829	3,607,124	9,095,539
Total Sum of NumberBypassed		766,483	2,506,855	157,121	120,505	2,099,935	5,650,899
Total Sum of NumberTrucked		106,511	43	55	738	44	107,391
Total Sum of SampleMorts		1,432	345	6	165	113	2,061
Total Sum of FacilityMorts		12,208	7,750	107	188	1,701	21,954
Total Sum of ResearchMorts		5,350	2,853	3	5	22	8,233
Total Sum of TotalProjectMorts		18,990	10,948	116	358	1,836	32,248

Cumulative Adult Passage at Mainstem Dams Through: 10/16

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.		2008		2007		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	10/16	125545	17552	67482	16860	151523	9831	78271	11621	47412	13539	71262	9127	312096	38891	155356	51736	351563	39919
TDA	10/16	95440	15801	53524	15567	106828	7522	65073	12206	40123	11318	61862	6875	168371	37839	90390	37546	185390	30317
JDA	10/16	81771	14925	44005	13864	89148	6122	63649	13680	35773	11582	57243	6930	134941	31869	70210	34857	136902	26242
MCN	10/15	68085	12133	39497	12393	82136	6227	54735	11239	32393	9386	55163	6274	99463	19594	52453	26325	105352	20299
IHR	10/14	53142	7757	28380	7371	54980	3897	23693	4964	7714	2523	11420	2100	21615	11250	12918	9140	12211	7108
LMN	10/16	54512	6885	28397	7102	52688	3599	27345	2890	11452	1419	11417	1651	20633	10174	15548	8145	11291	6193
LGS	10/16	50401	7805	23960	7227	50024	3685	21748	4811	7898	2861	9497	2073	17832	5523	9809	7489	9222	4549
LGR	10/16	50146	10946	22905	9085	50643	4197	22612	5072	7312	3285	9346	2279	16143	9196	9563	9040	8137	5461
PRD	10/12	12173	620	6708	489	17360	563	39305	3355	30644	1088	50486	2111	29184	13648	19444	4074	25699	3160
RIS	10/15	12490	1119	5572	2066	13979	962	38171	3096	28222	6200	47383	5323	6821	3460	3389	1485	8836	1996
RRH	10/15	4065	371	2424	920	5404	397	29675	2127	21657	5110	35386	3711	6279	3448	2620	1204	5549	1662
WEL	10/15	2708	426	2041	752	3980	281	21060	1373	13244	3573	25854	1953	2898	2196	1214	853	2967	954
WFA	10/08	14219	525	22818	280	-	-	0	0	0	0	-	-	1985	971	134	17	-	-

DAM	Coho						Sockeye			Steelhead			
	2008		2007		10-Yr Avg.		2008	2007	10-Yr Avg.	2008	2007	10-Yr Avg.	Wild 2008
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	125707	10028	75119	3581	93205	5710	213607	24376	58551	354063	317800	337517	104441
TDA	35157	4576	26672	2001	24738	2219	177984	19124	49462	273294	235790	251534	77573
JDA	37359	4855	28533	5926	21451	2832	193409	24277	54064	269115	213831	242833	80238
MCN	16820	2942	17617	2072	10988	1008	146924	18174	45006	211112	192016	188670	55871
IHR	2547	112	1624	140	852	42	539	55	34	162440	139275	138120	39688
LMN	3698	357	1714	124	829	47	722	44	33	175021	139322	134195	45389
LGS	3061	339	1690	172	720	32	594	37	37	157215	121106	122615	36686
LGR	2840	1108	1975	215	870	74	907	52	42	151849	131381	125298	37937
PRD	3642	378	6804	509	2233	287	192217	24645	56270	16207	14430	13946	0
RIS	3997	1399	9733	397	3382	20	193737	25122	52570	15950	12580	13235	6090
RRH	1356	624	2141	63	592	0	161342	20683	36855	12959	9349	10077	4350
WEL	223	0	406	0	97	0	165332	22273	36826	8334	6631	7344	3313
WFA	2986	2487	782	114	-	-	0	0	-	18632	18994	-	-

BON and LGR have switched to video counts so the data is delayed.
 *PRD is not posting 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: 10/17/08

BON counts from January 1, 2008 to March 14, 2008 (our traditional counts begin March 15):

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2008	42	0	578	278
2007	22	0	1,677	517