



Fish Passage Center

Weekly Report #05 - 12

May 27, 2005

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Highlights:

- **Precipitation has been well above average over the first twenty-three days of May at most Columbia Basin locations.**
- **Water Supply Forecasts have increased between 3% and 17% of average between the May Final and June Early-Bird Forecasts.**
- **The Spring Flow Objective period started in the Lower Snake River on April 3rd, 2005 with a flow objective of 85 Kcfs at Lower Granite through June 20th. Since April 3rd, 2005, flows at Lower Granite have averaged 66.3 Kcfs; over the last week flows have averaged 119.7 Kcfs.**
- **The Spring Flow Objective Periods at McNary Dam and Priest Rapids Dam began on April 10th with flow objectives of 220 Kcfs and 135 Kcfs, respectively. Flows at McNary Dam have averaged 191.7 Kcfs since April 10th and flows at Priest Rapids have averaged 113.4 Kcfs; over the last week flows have averaged 257.3 Kcfs at McNary and 131.2 at Priest Rapids.**
- **Spill at The Dalles Dam averaged only 33% of average daily flow as compared to the 40% specified in the Biological Opinion due to facility restrictions. Some daytime spill at John Day Dam was provided to increase spillway passage at this project to address this issue. Spill volumes will be further reduced due to erosion issues below spillbays 1 and 2.**

Summary of Events:

Water Supply: Precipitation has been well above average over the first twenty-three days of May at most Columbia Basin locations. Of the sites in Table 1, twelve recorded precipitation that was greater than average over the first half of May and six sites had precipitation that was greater than 200% of average. Over the entire water year, precipitation remains below average at most locations.

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

Location	Water Year 2005 May 1-23		Water Year 2005 October 1, 2004 to May 23, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	2.05	124	15.13	86
SNAKE RIVER Above Ice Harbor	3.44	245	13.25	101
Columbia Above The Dalles	2.70	185	15.14	87
Kootenai	2.12	129	14.51	81
Clark Fork	2.35	154	9.36	80
Flathead	1.57	87	14.0	90
Pend Oreille/Spokane	3.12	161	21.31	87
Central Washington	1.49	260	5.66	79
SNAKE RIVER Plain	3.28	299	10.38	126
Salmon/Boise/ Payette	3.16	238	13.05	83
Clearwater	4.73	210	20.7	88
SW Washington Cascades/Cowlitz	5.43	193	45.2	73
Willamette Valley	5.47	209	35.9	68

Snowpack in the Columbia River, for basins above the Snake River confluence is 29% of average, for Snake River Basins the average snowpack was 37% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack was 12% of average.

Water Supply Forecasts have increased between 3% and 17% of average between the May Final and June Early-Bird Forecasts. Table 2 displays the May Final and June Early-Bird Final runoff volume forecasts for multiple reservoirs along with runoff volumes that actually occurred in 2001 for comparison. All forecasts are currently above the actual runoff volumes recorded in 2001.

Table 2. May Final and the June Early-Bird Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins along with 2001 actual runoff volumes over the same periods.

Location	May Final		June Early-Bird		Actual 2001
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)	Actual Runoff Volume (Kaf)
The Dalles (Jan-July)	70	74700	75	80900	58200
Grand Coulee (Jan-July)	83	52200	86	54300	37400
Libby Res. Inflow, MT (Jan-July)	78	4910	85	5340	3341
Hungry Horse Res. Inflow, MT (Jan-July)	77	1720	80	1780	1300
Lower Granite Res. Inflow (Apr- July)	55	11800	69	14800	10300
Brownlee Res. Inflow (Apr-July)	39	2440	56	3550	1970*
Dworshak Res. Inflow (Apr-July)	60	1670	73	1940	1470

The Spring Flow Objective period started in the Lower Snake River on April 3rd, 2005. Based on the April Final Forecast at Lower Granite (Apr-July), the flow objective is 85 Kcfs at Lower Granite through June 20th. Since April 3rd, 2005, flows at

Lower Granite have averaged 66.3 Kcfs; over the last week flows have averaged 119.7 Kcfs.

The Spring Flow Objective Periods at McNary Dam and Priest Rapids Dam began on April 10th. The flow objectives at McNary and Priest Rapids are 220 Kcfs and 135 Kcfs, respectively. Flows at McNary Dam have averaged 191.7 Kcfs since April 10th and flows at Priest Rapids have averaged 113.4 Kcfs; over the last week flows have averaged 257.3 Kcfs at McNary and 131.2 at Priest Rapids.

Grand Coulee Reservoir is currently at an elevation of 1265.8 feet (May 26th, 2005 midnight) and has refilled 4.6 feet in the last week.

The Libby Reservoir is currently at elevation 2437.0 feet and has held steady over the last week. Outflows at Libby were increased to 25 Kcfs on 5-24-05 in response to SOR 2005 FWS-1.

The Hungry Horse Reservoir is currently at an elevation of 3553.0 feet and refilled approximately 2.5 feet last week. Outflows at Hungry Horse have been reduced to 4.4 Kcfs.

The Dworshak reservoir is currently at an elevation of 1595.8 feet and refilled 2.3 feet last week. Outflows at Dworshak are currently 9.4 Kcfs.

The Brownlee Reservoir was at an elevation of 2076.3 feet on May 25th, 2005 with outflows ranging between 27.2 and 36.7 Kcfs over the last week.

Spill: Dworshak Dam outflow specifically for flow augmentation in the lower Snake River ended on May 18, 2005. The project is now operating for refill and power production. Flows on the weekend are being decreased to address these needs. As flows receded this past week, spill at Lower Granite Dam, Little Goose and Lower Monumental as excess to hydraulic and generation capacity decreased. Spill averaged 27%, 9% and 20% at these projects, respectively. Spill at IHR was provided according to the protocol determined for RSW testing. Spill averaged 53% of daily average flows over the past 7 days, and ranged from 38% to 92%.

Biological Opinion spill in the lower Columbia River was initiated at McNary and John Day dams on April 10 and at The Dalles Dam on April

11, 2005. Spill at McNary Dam averaged 42% of daily average flow and spill at John Day Dam averaged 34% of daily average flow. Spill at both McNary and John Day dams are called for during nighttime hours. Spill at The Dalles Dam is being provided via fixed spill gate openings (dogged off) and variable gate operations of spillbays 1 and 2. This past week volumes have averaged much less (31%) than the 40% specified in the Biological Opinion. SOR 2005-12 requested that spill be provided during daytime hours at John Day Dam to increase spillway passage at this project to offset the decrease in spillway passage due to the fixed gate operations at The Dalles Dam. Some daytime spill has been provided, but is being limited to 80 Kcfs most days due to the high dissolved gas levels observed when spill occurs between 80 and 120 Kcfs. Spill at Bonneville Dam averaged 34% of average daily flow over the past week.

A few fish with minor signs of gas bubble trauma were observed in the monitoring program at Rock Island Dam over the past week.

Smolt Monitoring: Passage indices for most spring migrants declined again this week at Snake River dams, while subyearling indices began increasing at Lower Columbia sites. Smolt Monitoring Program traps are scheduled to end sampling this week, but high flows and debris forced traps to stop operating during parts of the past week.

No sampling occurred at the Salmon River Trap over the past week. Flows remained high the past 10 days, peaking at 47 Kcfs on May 20 and steadily decreasing to 33 Kcfs May 27. Flows are now well below median flows for this time of year. In the Grande Ronde River, a similar flow pattern occurred albeit on a smaller scale with flows peaking at 8 Kcfs on May 20. The Trap was able to operate up until the last scheduled sample date on May 25. The trap ceased operating just as a large release of subyearling Chinook were released above the trap. The first such release of hatchery fish in the Grande Ronde. Relatively good numbers of steelhead were captured the last week with catch averaging nearly 40 per day compared to 50 last week. The Imnaha Trap did not operate the

past week due to high flows and debris. Flows in the Imnaha River rose to 2500 cfs on May 20 and showed a decline to below median flows by week's end.

The Snake River Trap at Lewiston stopped operation this week due releases of large numbers of hatchery subyearling Chinook in the Snake River above the trap.

At Lower Granite Dam in the Lower Snake River, passage indices for yearling Chinook and steelhead decreased significantly this past week as the freshet ended and flows decreased to below 100 Kcfs. The daily index for yearling Chinook averaged 13,000 this week compared to 21,000 last week while steelhead indices averaged 46,000 this week compared to 105,000 last week. Sockeye indices averaged 1,700 this past week, while coho indices 2,000 this week down from 8,000 per day last week. Subyearling Chinook indices were relatively high again this past week, averaging 6,700 per day compared to 8,200 per day last week. The early arrival of subyearling chinook reflect recent hatchery releases.

With continued spill occurring at Lower Granite, increased numbers of migrants have been reaching Little Goose Dam. Yearling Chinook indices averaged 25,000 per day this week while steelhead averaged 66,000 compared to the previous week's average of 63,000 and 90,000 respectively. At Lower Monumental Dam small numbers of yearling Chinook and steelhead have been collected this past week.

In the Mid-Columbia, Rock Island Dam, indices for most migrants were down compared to last week. Yearling Chinook indices averaged 180 per day compared to 410 per day last week. Steelhead averaged 200 per day this week compared to 680 last week. Coho were down to 800 per day this week compared to 2,300 per day last week. Sockeye averaged 12 fish per day this week while small numbers of subyearling Chinook were also in the sample this past week at the site.

At McNary Dam where sampling is being conducted every other day, indices for yearling Chinook decreased this week compared to last week with yearling Chinook indices averaging 55,000 per day compared to 110,000 last week,

while steelhead averaged 14,000 per day this week compared to 17,000 per day the previous week. The coho indices were up to 7,700 per day this week compared to 5,900 per day last week. Sockeye indices averaged 8,400 and average daily subyearling Chinook indices were up to 12,000 over the week.

John Day Dam saw decreasing indices for yearling Chinook and coho while steelhead and sockeye were up. Yearling Chinook indices averaged 22,000 per day this week compared to 55,000 per day last week, while coho averaged 4,250 compared to 6,100 last week. Steelhead indices were up to 24,000 and sockeye indices rose to an average of nearly 6,000 per day last week. Subyearling Chinook indices jumped to 3,300 per day this week compared to 300 per day last week.

At Bonneville Dam, yearling Chinook indices were down to 32,000 per day, while coho indices dropped slightly to 15,000 per day average this week. Steelhead indices remained dropped about 1,100 from last week to 4,400 per day over the past week. Subyearling Chinook indices rose to 8,500 per day. Increasing numbers of sockeye were captured over the week with the average index at 3,100.

Hatchery Releases - Releases of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam are estimated near 84.3 million for the 2005 migration season. The Zone Release Report below summarizes "planned" hatchery releases from State, Federal or Tribal hatcheries or acclimation ponds for this year's migration. These totals will be updated and finalized through the year.

Hatchery Zone Release Report

	Friday 27-May-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,855,535	12,656,000	21,570,953	39,082,488
Spring Chinook	9,438,991	4,690,296	5,124,109	19,253,396
Summer Chinook	2,348,012	3,454,509		5,802,521
Coho	810,338	2,464,348	5,149,446	8,424,132
Sockeye	209,046	592,459		801,505
Summer Steelhead	9,022,642	1,232,917	522,206	10,777,765
Winter Steelhead			118,300	118,300
Total	26,684,564	25,090,529	32,485,014	84,260,107

Hatcheries in the Columbia/Snake River basin released about 6.1 million fish during the past two weeks with approximately 14.4 million fish to be released during the upcoming two weeks. See the Hatchery Release Summary Tables for further details.

Snake River - Yearling Chinook, coho, sockeye and steelhead salmon releases from hatcheries in the Snake River basin are completed for the 2005 season. Greater than half the subyearling fall Chinook have been released in the Clearwater and Snake Rivers to date. The subyearling Chinook have been released at Hells Canyon, Pittsburg Landing, CPT Johns, Nez Perce Tribal H, Lyons Ferry H (begin 5/27), and as a first, about 423,000 subyearling fall Chinook were released near the OR/WA border in the Grande Ronde River on 5/24 and 5/25. The NOAA Fisheries study will have releases of marked subyearling fall Chinook from Dworshak H (Lyons Ferry reared fish) that will be ongoing from mid-May through mid-June.

Mid-Columbia - All yearling spring and summer Chinook, coho, and steelhead juvenile migrants have been released from hatcheries for the 2005 season. The first group of subyearling Chinook from Wells Hatchery was released on May 18th with the remaining subyearling summer Chinook scheduled for June and early July. All subyearling fall Chinook in the Yakima River basin have been released to date. Numbers will be updated in the near future for these fish releases. The Priest Rapids and Ringold Hatchery subyearling fall Chinook will be liberated in June this year.

Lower Columbia - Yearling fall Chinook, spring Chinook, and steelhead releases are completed with the on-site volitional release of coho initiated on May 11th and completed by the end of next week.

All tule fall Chinook have been released for the year with the release of subyearling fall Chinook from the Umatilla River in-river during the past two weeks. The subyearling fall Chinook to be released in the Klickitat River and Drano Lake are presently scheduled for June.

Juvenile sockeye were released mainly last summer and fall; the majority of these fish reside in the lake and then migrate from the lake and to the ocean the next spring (2005). In the Snake River basin, about 80,000 juvenile sockeye were released in the upper Salmon River in early May. A release of juvenile sockeye from the Canadian fisheries into Lake Skaha (located above Lake Osoyoos) was completed last summer with the 2006 migrant sockeye released this past week in Lake Skaha.

Adult Fish Passage -At Bonneville Dam, adult spring Chinook counts averaged 835 fish/day through the week ending May 26th. The 2005 count of adult Chinook totals 67,719, about 41.4% and 48.2% of the respective 2004 and 10-year average. The peak daily count was 1,028 on May 24, with the low count of 539 on May 20. The adult spring Chinook count at The Dalles Dam was 52,954, or 78.2% of the total past Bonneville Dam. About 41,900 have been counted at McNary Dam with 18,900 into the Snake River and 9,400 into the upper Mid-Columbia (Priest Rapids count). In the Yakima River, about 3,900 adult spring Chinook were tallied at the Prosser site through May 22. As a point of interest, the Umatilla River count was nearing 2,000 adult Chinook by May 24.

The "jack" Chinook count at Bonneville Dam was 3,663 through May 26, about 45% and 47% of the respective 2004 and 10-year average. Both percentages of the previous year and 10-year average were close to the adult percentage for the previous year (41.4%) and 10-year average (48.2%).

Approximately 131,000 adult shad have already been counted at Bonneville Dam this season with numbers increasing daily at the project.

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
05/13/05	121.3	0.0	127.6	0.0	135.9	9.1	138.9	31.4	144.2	26.0	146.0	12.6	149.9	92.4
05/14/05	110.4	0.0	112.1	0.0	125.6	8.9	128.4	26.4	134.8	23.6	142.6	12.1	147.4	90.5
05/15/05	78.1	0.0	80.1	0.0	88.8	7.5	94.0	25.2	102.3	21.2	117.4	11.6	128.1	78.9
05/16/05	124.7	0.0	121.9	0.0	129.1	8.5	127.2	33.0	132.8	28.1	129.4	10.1	132.2	81.4
05/17/05	94.1	0.0	102.0	0.0	116.2	8.7	119.7	0.0	128.5	29.0	134.5	10.1	126.1	77.8
05/18/05	108.6	0.0	112.0	0.0	121.9	8.8	121.3	0.0	127.0	27.8	128.7	9.8	136.0	83.6
05/19/05	114.1	0.0	116.7	0.0	125.8	8.6	127.4	32.6	131.6	28.0	133.8	9.8	141.1	86.9
05/20/05	111.2	0.0	110.4	0.0	120.8	8.7	122.1	31.1	127.5	25.1	126.5	9.5	133.5	82.2
05/21/05	88.2	0.0	88.6	0.0	97.0	7.8	98.5	25.6	102.8	22.4	126.8	9.4	124.1	75.2
05/22/05	74.3	0.0	89.3	6.6	101.2	7.9	104.9	23.0	107.7	20.0	123.7	9.2	124.4	73.4
05/23/05	116.6	0.0	106.2	0.0	114.7	16.3	112.5	0.0	115.0	26.8	108.3	8.8	114.4	71.0
05/24/05	120.5	0.0	120.9	0.0	128.8	11.5	125.5	0.0	130.9	26.1	117.4	9.4	118.1	72.7
05/25/05	152.4	0.0	144.5	11.6	144.8	17.4	133.5	0.0	136.8	27.1	136.7	9.7	141.9	87.0
05/26/05	161.7	0.0	163.3	1.0	168.9	24.4	164.2	5.4	170.5	28.1	160.0	19.0	162.3	99.2

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
05/13/05	15.0	5.4	20.6	23.8	85.1	1.5	85.0	0.0	87.5	5.0	88.9	69.8		
05/14/05	15.0	5.4	19.8	23.9	84.6	0.0	84.8	0.0	87.1	15.3	89.4	81.7		
05/15/05	14.9	5.3	22.0	22.8	83.9	0.0	84.0	0.0	87.4	3.1	88.4	41.2		
05/16/05	14.1	4.5	22.6	24.2	91.7	7.6	89.2	0.0	91.6	2.1	91.0	29.3		
05/17/05	12.0	2.4	24.4	28.6	124.1	37.9	121.8	13.5	123.5	26.6	124.7	76.0		
05/18/05	12.0	2.4	27.3	31.5	121.8	35.8	115.8	6.7	119.0	24.0	123.5	91.6		
05/19/05	11.4	1.8	30.1	31.6	118.7	33.6	112.6	5.5	118.3	24.6	119.9	91.6		
05/20/05	9.3	0.7	36.7	40.1	135.3	48.6	129.1	18.6	128.0	31.4	132.6	91.7		
05/21/05	5.3	0.0	34.0	38.9	138.0	51.6	134.1	24.1	133.9	37.2	137.9	57.8		
05/22/05	5.3	0.0	32.4	31.9	125.6	39.9	120.2	23.1	123.8	32.1	128.1	59.1		
05/23/05	8.6	0.0	30.6	33.3	122.8	37.1	118.4	9.5	119.6	24.3	118.5	37.8		
05/24/05	9.5	0.0	27.2	30.2	116.2	30.3	111.9	2.0	116.6	21.6	118.9	37.8		
05/25/05	9.5	0.0	26.0	29.7	100.9	15.8	98.2	0.0	102.6	9.3	105.5	73.3		
05/26/05	9.4	0.0	---	---	98.8	14.0	97.1	0.0	101.3	13.8	106.0	85.4		

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

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
05/13/05	247.5	105.2	242.4	65.0	240.8	80.2	240.2	91.9	32.4	104.3
05/14/05	238.6	85.4	240.1	65.1	236.6	79.2	242.3	91.5	35.8	103.9
05/15/05	242.5	78.7	230.1	61.5	223.9	79.5	241.7	90.9	39.5	101.1
05/16/05	221.3	88.7	216.8	60.5	222.7	79.9	243.1	89.4	41.4	100.8
05/17/05	246.4	109.5	258.9	63.8	255.8	81.2	251.7	89.2	38.6	112.4
05/18/05	277.5	118.2	286.3	80.9	286.5	79.6	287.6	89.0	65.7	121.4
05/19/05	257.0	107.5	259.2	63.6	260.3	79.7	290.8	86.8	68.5	123.9
05/20/05	254.6	85.9	258.1	75.0	255.0	81.1	265.8	85.0	61.9	107.4
05/21/05	290.5	136.0	271.4	47.2	270.7	81.0	280.8	85.7	69.7	113.9
05/22/05	263.8	173.9	262.3	97.3	256.7	80.7	266.4	105.6	36.2	113.4
05/23/05	251.3	105.0	265.9	92.1	260.2	80.6	267.2	85.2	55.8	114.7
05/24/05	255.5	85.0	252.1	95.9	246.5	77.9	263.2	85.2	50.1	116.5
05/25/05	237.7	72.2	222.2	88.3	227.2	76.0	252.9	85.9	47.0	108.6
05/26/05	247.9	103.1	255.8	104.4	246.2	69.4	250.5	87.6	40.6	110.8

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
Lower Granite Dam											
McNary Dam											
	05/20/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/22/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	05/17/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/21/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/24/05	Chinook + Steelhead	102	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	05/19/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/23/05	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	05/26/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 5/13/2005 to 05/26/05

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Fisheries and Oceans Canada	Shuswap Hatchery	SO	UN	2006	1,100,000	05-20-05	05-20-05	Lake Skaha	Okanogan River
Fisheries and Oceans Canada Total					1,100,000				
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	500,300	05-23-05	05-30-05	Cpt John Acclim Pond	Snake River
Nez Perce Tribe Total					500,300				
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2005	319,152	04-04-05	05-31-05	Bel. Pelton Ladder Pittsburg Landing	Deschutes River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH0	FA	2005	400,000	05-23-05	05-31-05	Acclim Pond	Snake River
Oregon Dept. of Fish and Wildlife Total					719,152				
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2005	300,000	05-20-05	05-31-05	Thornhollow Acclim	Umatilla River
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2005	300,000	05-20-05	05-31-05	Umatilla River	Umatilla River
Umatilla Tribe Total					600,000				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SP	2005	15,000	05-19-05	05-27-05	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SP	2005	222,000	04-18-05	05-18-05	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2005	354,000	04-18-05	05-18-05	Carlton Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2005	124,000	03-21-05	05-20-05	Above Rock Island	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	SP	2005	280,000	05-17-05	05-17-05	Upper Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CO	NO	2005	1,000,000	05-12-05	05-27-05	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	176,000	05-16-05	06-03-05	Dworshak Hatchery	Clearwater River M F
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	200,000	05-23-05	05-23-05	Cpt John Acclim Pond	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	234,000	05-23-05	05-23-05	Cpt John Acclim Pond	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	423,000	05-24-05	05-25-05	Grande Ronde River	Grande Ronde River
Washington Dept. of Fish and Wildlife Total					3,028,000				
Yakama Tribe	Leavenworth NFH	CO	UN	2005	67,951	04-27-05	05-15-05	Butcher Creek Acclim.	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	70,822	04-25-05	05-15-05	Maher Creek Acclim.	Wenatchee River
Yakama Tribe Total					138,773				
Grand Total					6,086,225				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: **5/27/2005** to **6/9/2005**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	500,300	05-23-05	05-30-05	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	503,000	05-30-05	05-31-05	Big Canyon (Clearwater R)	Clearwater River M F
Nez Perce Tribe Total					1,003,300				
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2005	319,152	04-04-05	05-31-05	Bel. Pelton Ladder	Deschutes River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH0	FA	2005	400,000	05-23-05	05-31-05	Pittsburg Landing Acclim Pond	Snake River
Oregon Dept. of Fish and Wildlife Total					719,152				
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2005	300,000	05-20-05	05-31-05	Thornhollow Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	CH0	FA	2005	300,000	05-20-05	05-31-05	Umatilla River	Umatilla River
Umatilla Tribe Total					600,000				
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH0	SP	2005	15,000	05-19-05	05-27-05	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH0	FA	2005	4,000,000	06-01-05	06-30-05	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CO	NO	2005	1,000,000	05-12-05	05-27-05	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	176,000	05-16-05	06-03-05	Dworshak Hatchery	Clearwater River M F
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	200,000	05-27-05	05-27-05	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Priest Rapids Hatchery	CH0	FA	2005	6,700,000	06-06-05	06-27-05	Priest Rapids Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					12,091,000				
Grand Total					14,413,452				

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	Hungry H. Dnst			#	Boundary			#	Grand Coulee			#	Grand C. Tlwr			#	Chief Joseph			#
	24 h	12 h			24 h	12 h			24 h	12 h			24 h	12 h			24 h	12 h		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
5/13	---	---	---	0	116	117	117	24	109	110	110	24	107	107	108	24	107	107	108	24
5/14	---	---	---	0	116	118	119	24	110	111	112	24	107	108	108	24	107	108	108	24
5/15	---	---	---	0	117	120	121	24	111	111	112	24	107	108	110	24	108	108	109	24
5/16	---	---	---	0	120	121	122	24	111	111	112	22	108	109	110	24	109	109	109	24
5/17	---	---	---	0	121	122	122	24	110	110	112	24	107	108	109	24	108	108	109	23
5/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/19	---	---	---	0	121	121	122	24	110	110	111	24	107	108	109	24	107	107	108	24
5/20	---	---	---	0	120	121	121	24	110	110	110	24	107	107	108	24	107	107	107	23
5/21	---	---	---	0	121	121	123	24	109	109	110	24	106	107	108	24	106	106	107	24
5/22	---	---	---	0	121	121	122	24	109	110	110	24	107	107	108	24	106	107	107	24
5/23	---	---	---	0	121	122	122	24	109	109	109	24	107	107	109	24	106	107	107	24
5/24	---	---	---	0	121	122	123	24	108	109	109	24	107	107	108	24	107	107	108	24
5/25	---	---	---	0	120	121	122	24	108	108	109	24	107	107	108	24	107	107	107	24
5/26	---	---	---	0	121	121	122	24	108	109	109	24	107	108	108	24	107	107	108	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			#	Wells			#	Wells Dwnstrm			#	Rocky Reach			#	Rocky R. Tlwr			#
	24 h	12 h			24 h	12 h			24 h	12 h			24 h	12 h			24 h	12 h		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
5/13	108	108	109	24	106	107	107	24	109	109	109	24	109	110	110	24	111	112	114	24
5/14	108	109	109	23	107	107	109	23	109	110	110	23	110	110	110	24	111	112	113	24
5/15	109	110	110	20	107	108	108	23	109	110	111	23	111	111	111	24	113	113	113	24
5/16	109	109	110	20	107	108	108	24	110	110	111	24	111	112	112	24	114	114	115	24
5/17	109	110	110	24	107	107	108	23	109	109	110	23	110	111	111	24	111	111	114	24
5/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/19	107	108	109	24	106	106	106	24	108	108	109	24	108	109	110	24	111	112	116	24
5/20	107	108	109	24	105	105	106	24	107	107	108	24	108	108	108	24	110	111	114	24
5/21	108	108	108	23	104	105	105	24	107	107	108	24	107	107	107	24	109	110	113	24
5/22	110	111	113	23	105	106	106	24	107	108	108	24	107	107	107	24	109	110	113	24
5/23	107	107	108	23	106	106	107	24	109	110	113	24	107	107	107	24	107	107	108	24
5/24	107	107	108	20	106	106	106	24	108	109	111	24	107	107	109	24	107	108	109	24
5/25	111	115	121	23	106	107	107	23	111	112	113	23	109	109	109	24	109	109	110	24
5/26	107	108	109	24	108	108	109	23	112	114	116	23	110	111	111	24	110	111	112	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Rock Island			#	Rock I. Tlwr			#	Wanapum			#	Wanapum Tlwr			#	Priest Rapids			#
	24 h	12 h			24 h	12 h			24 h	12 h			24 h	12 h			24 h	12 h		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
5/13	111	112	112	24	107	114	115	24	---	---	---	0	---	---	---	0	---	---	---	0
5/14	112	112	112	24	105	110	114	24	---	---	---	0	---	---	---	0	---	---	---	0
5/15	112	112	113	24	101	102	111	24	---	---	---	0	---	---	---	0	---	---	---	0
5/16	112	112	113	24	102	103	111	24	114	114	115	24	116	117	119	24	114	115	116	24
5/17	111	111	112	24	109	116	116	24	110	111	112	24	113	116	118	24	112	112	112	12
5/18	---	---	---	0	---	---	---	0	111	112	112	24	114	116	118	24	113	113	116	14
5/19	109	111	112	24	115	116	118	24	110	111	111	24	113	115	118	24	111	113	114	24
5/20	110	111	112	24	115	116	118	24	109	110	110	24	112	115	119	24	111	113	115	24
5/21	110	110	111	24	115	116	118	24	108	109	109	24	111	113	116	24	110	112	112	24
5/22	110	110	112	24	114	115	117	23	---	---	---	0	---	---	---	0	---	---	---	0
5/23	108	108	109	24	113	114	116	24	---	---	---	0	---	---	---	0	---	---	---	0
5/24	107	107	108	24	113	114	116	24	---	---	---	0	---	---	---	0	---	---	---	0
5/25	108	110	110	24	114	115	116	24	---	---	---	0	---	---	---	0	---	---	---	0
5/26	110	111	112	24	114	116	117	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>Clrwrtr-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>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
5/13	---	---	---	0	113	114	115	21	107	107	108	24	103	104	105	24	103	104	104	24
5/14	---	---	---	0	114	115	115	19	107	107	107	24	103	103	104	24	103	103	104	24
5/15	---	---	---	0	114	114	115	20	107	107	108	24	103	103	104	24	103	103	104	24
5/16	119	120	120	24	112	112	113	9	106	107	108	21	102	103	103	21	102	102	103	21
5/17	118	119	120	24	111	112	112	16	101	102	102	24	101	102	102	24	103	104	104	23
5/18	119	119	120	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/19	118	119	119	24	111	112	113	24	101	102	103	24	101	101	102	24	104	105	106	24
5/20	118	119	119	24	111	112	113	20	99	99	100	24	100	100	101	24	105	106	106	24
5/21	117	117	117	24	111	113	113	24	97	98	98	24	101	102	102	24	107	108	123	24
5/22	---	---	---	0	111	112	112	24	97	97	97	24	100	100	101	24	106	106	107	24
5/23	---	---	---	0	111	112	113	24	98	98	99	24	100	101	102	24	106	106	107	24
5/24	---	---	---	0	112	113	113	24	97	98	98	24	100	100	101	24	105	106	106	24
5/25	---	---	---	0	112	113	114	24	97	98	98	24	100	101	102	24	105	106	107	24
5/26	---	---	---	0	114	115	116	24	98	98	99	24	100	101	102	24	106	107	108	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-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>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
5/13	103	104	105	24	105	107	109	24	103	104	106	24	105	106	107	24	105	106	106	24
5/14	102	103	104	24	104	105	105	24	103	104	104	24	106	106	106	24	105	105	106	24
5/15	103	103	104	24	105	105	106	24	104	104	105	24	105	106	106	24	104	105	105	24
5/16	102	102	103	21	104	104	104	21	106	107	108	21	105	105	106	21	104	104	105	21
5/17	101	102	102	24	103	103	104	24	115	118	118	24	104	105	105	24	107	109	109	24
5/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/19	101	102	103	24	103	103	104	24	114	115	117	24	108	109	110	24	109	110	110	24
5/20	100	101	101	24	103	103	103	24	118	118	119	24	109	109	110	24	110	111	111	24
5/21	101	102	103	24	103	104	105	24	119	120	121	24	109	110	111	24	112	113	114	24
5/22	101	101	102	21	104	105	105	24	116	117	117	24	112	112	113	24	114	116	117	24
5/23	101	102	102	24	105	105	107	24	116	117	118	24	113	113	113	24	113	113	114	24
5/24	101	102	103	24	104	105	106	24	113	115	117	24	112	112	112	24	111	111	112	24
5/25	101	103	104	24	105	106	108	24	108	110	112	24	110	111	112	24	111	112	112	24
5/26	102	103	104	24	106	107	108	24	108	108	109	24	111	112	112	24	111	112	113	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>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>			<u>Avg</u>	<u>hr</u>	<u>Avg</u>	<u>Avg</u>
5/13	103	103	104	24	107	112	117	24	104	105	105	24	116	119	119	24	114	115	117	24
5/14	104	104	105	24	114	117	118	23	104	105	105	24	118	118	119	24	113	114	117	24
5/15	106	106	107	24	108	110	118	24	106	108	109	24	114	116	119	24	113	114	116	24
5/16	106	106	107	21	108	109	118	21	108	109	109	21	114	114	114	21	114	114	115	21
5/17	104	104	105	24	117	122	124	24	106	106	107	24	118	121	121	24	112	112	113	24
5/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/19	105	105	106	23	118	120	120	23	109	110	110	24	120	120	120	24	111	113	114	24
5/20	106	108	109	24	120	121	123	24	109	109	110	24	120	120	120	24	112	112	114	24
5/21	109	109	109	24	119	120	120	24	110	111	111	24	118	119	121	24	112	113	114	24
5/22	111	111	112	24	119	121	122	24	112	112	113	24	117	118	119	24	112	113	113	24
5/23	113	114	115	24	118	121	122	24	112	113	113	24	117	117	117	24	112	113	114	24
5/24	113	114	114	24	119	120	122	24	113	113	114	24	117	117	117	24	111	112	114	24
5/25	112	112	112	23	114	117	118	23	114	115	115	24	118	120	121	24	112	113	115	24
5/26	111	111	111	24	116	118	120	22	114	114	114	24	119	120	120	24	113	115	116	24

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>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
5/13	114	115	115	24	117	118	119	24	109	109	109	23	113	117	118	24	111	114	116	23
5/14	113	114	115	24	116	117	117	24	108	109	109	23	113	118	119	24	111	114	116	23
5/15	115	115	116	24	116	118	120	24	110	111	111	23	114	118	120	24	112	114	115	23
5/16	115	115	115	21	116	118	120	21	112	113	113	19	115	117	119	21	112	113	115	19
5/17	111	112	113	24	116	119	120	24	112	113	114	23	115	118	120	24	113	115	118	23
5/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/19	112	112	113	24	117	118	119	24	109	109	110	23	113	118	119	24	112	113	116	23
5/20	112	112	112	24	116	116	117	24	108	108	108	23	116	119	119	24	111	113	115	23
5/21	112	112	113	24	118	119	119	24	109	109	110	23	113	118	119	24	110	110	112	23
5/22	112	112	113	24	119	119	119	24	109	109	110	23	119	120	120	24	110	113	114	23
5/23	111	111	112	24	117	118	119	24	108	109	109	23	119	120	120	21	110	111	111	23
5/24	111	112	113	24	116	116	116	24	108	108	108	23	119	119	119	24	112	113	114	23
5/25	113	113	114	24	115	118	120	24	109	109	110	23	119	119	119	24	113	114	116	23
5/26	114	114	115	24	117	119	120	24	111	112	113	23	119	120	120	24	114	115	116	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>Camas\Washugal</u>			<u>Cascade Island</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
5/13	115	117	118	24	110	111	112	23	114	116	118	23	111	114	116	24	118	118	120	17
5/14	115	117	118	24	113	113	114	23	115	116	118	23	113	115	117	24	117	118	120	17
5/15	115	116	118	24	114	115	116	23	116	117	118	23	114	115	116	24	117	117	120	17
5/16	115	116	117	20	113	114	115	19	115	116	117	19	113	114	115	20	117	117	119	17
5/17	116	117	119	24	112	112	112	23	115	116	117	23	112	114	115	24	117	118	120	17
5/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/19	115	117	118	24	113	114	115	23	114	115	117	23	112	113	115	24	117	118	120	17
5/20	115	116	117	24	112	113	114	23	114	115	117	23	112	113	115	24	117	117	120	17
5/21	114	115	116	24	111	112	113	23	113	114	115	23	111	112	113	24	117	117	120	17
5/22	114	116	116	24	112	113	114	23	115	116	117	23	111	113	113	24	118	119	120	17
5/23	115	115	115	24	110	111	112	23	113	114	116	23	112	113	114	24	117	117	119	17
5/24	116	117	117	24	112	112	112	23	114	115	116	23	110	111	114	16	116	117	119	17
5/25	116	117	118	24	112	112	113	23	114	114	116	23	111	112	112	15	117	117	119	17
5/26	117	118	118	24	113	113	115	23	115	115	117	23	110	112	113	24	117	117	120	17

Two-Week Summary of Passage Indices

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

this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

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

COMBINED YEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
05/13/2005	43	35	25	59	38,666	98,077	50,252	730	73,648	83,306	43,079
05/14/2005	*	28	21	26	29	33,812	80,509	44,621	141	---	51,928
05/15/2005	*	50	47	42	14	15,800	97,835	30,430	550	99,082	39,857
05/16/2005	*	18	1	40	4	16,008	67,612	21,260	338	---	33,039
05/17/2005	*	4	---	42	60	12,180	40,630	30,930	593	194,787	33,395
05/18/2005	*	0	---	0	463	10,705	31,832	11,079	218	---	39,719
05/19/2005	*	---	---	15	57	17,196	25,249	7,846	282	76,580	49,650
05/20/2005	*	---	---	8	211	19,737	22,862	3,274	158	---	46,991
05/21/2005	*	---	---	15	---	15,993	29,817	6,734	230	73,303	41,567
05/22/2005	*	---	---	12	41	16,513	22,248	5,933	167	---	33,681
05/23/2005	---	36	8	---	10,842	19,560	4,710	96	54,990	12,839	25,486
05/24/2005	*	15	8	---	8,689	47,969	5,634	191	---	11,059	27,022
05/25/2005	*	19	---	---	8,333	15,015	3,285	236	43,703	11,465	23,013
05/26/2005	*	---	---	---	10,631	14,819	4,408	162	---	7,696	26,848
<hr/>											
Total:	143	174	241	938	235,105	614,034	230,396	4,092	616,093	538,972	515,275
# Days:	6	7	12	9	14	14	14	14	7	14	14
Average:	24	25	20	104	16,793	43,860	16,457	292	88,013	38,498	36,805
YTD	43,641	42,105	5,793	1,686	5,545,923	2,398,583	683,145	13,297	1,062,874	1,318,427	1,408,867

COMBINED SUBYEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
05/13/2005	0	0	46	3	8,731	11,000	605	33	1,892	163	6,634
05/14/2005	*	0	46	0	10,800	8,000	181	7	---	280	6,697
05/15/2005	*	0	52	1	11,400	1,000	161	0	1,658	111	5,457
05/16/2005	*	0	66	0	10,005	3,400	305	14	---	458	6,421
05/17/2005	*	0	78	14	6,090	1,600	0	34	15,539	190	5,908
05/18/2005	*	0	8	36	4,372	1,203	0	4	---	492	7,397
05/19/2005	*	---	39	48	6,603	2,487	0	7	18,547	976	7,546
05/20/2005	*	---	32	85	6,679	1,253	0	7	---	1,712	8,984
05/21/2005	*	---	26	---	7,108	1,078	69	8	11,645	1,796	7,642
05/22/2005	*	---	30	5	8,063	740	523	1	---	4,665	6,797
05/23/2005	---	0	41	---	7,865	1,393	55	14	16,122	3,921	6,759
05/24/2005	*	1	38	---	8,251	14,348	186	34	---	3,622	7,905
05/25/2005	*	0	---	---	3,944	5,202	269	41	10,539	5,087	9,885
05/26/2005	*	---	---	---	4,805	10,750	477	55	---	2,557	11,589
<hr/>											
Total:	0	1	502	192	104,716	63,454	2,831	259	75,942	26,030	105,621
# Days:	6	7	12	9	14	14	14	14	7	14	14
Average:	0	0	42	21	7,480	4,532	202	19	10,849	1,859	7,544
YTD	0	77	1,224	637	158,758	209,507	3,401	1,901	85,470	27,241	1,724,751

Two-Week Summary of Passage Indices

		COMBINED COHO										
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
05/13/2005	0	0	0	1	13,512	9,500	2,725	3,295	629	4,633	16,144	
05/14/2005	*	0	0	0	19,600	14,500	1,813	1,002	---	3,457	10,656	
05/15/2005	*	0	0	0	6,600	13,400	3,704	2,559	3,316	3,205	7,485	
05/16/2005	*	0	0	0	3,802	9,000	1,529	3,664	---	5,870	13,272	
05/17/2005	*	0	---	0	3	4,216	9,000	3,570	3,036	9,227	24,150	
05/18/2005	*	0	---	0	0	3,468	5,628	1,584	1,551	---	9,335	27,858
05/19/2005	*	---	---	0	3	4,540	5,748	1,594	1,047	10,446	14,292	23,193
05/20/2005	*	---	---	0	4	3,644	5,809	786	868	---	6,451	18,004
05/21/2005	*	---	---	0	---	2,908	9,518	193	829	11,660	2,842	13,230
05/22/2005	*	---	---	0	4	2,481	7,727	805	593	---	7,334	12,567
05/23/2005		---	0	0	---	1,701	4,057	558	777	3,724	3,677	7,265
05/24/2005	*	---	0	0	---	876	6,197	770	1,128	---	2,606	19,464
05/25/2005	*	---	0	---	---	954	3,750	146	940	7,646	4,106	19,637
05/26/2005	*	---	---	---	---	1,502	3,850	454	432	---	2,735	16,837

Total:	0	0	0	16	69,804	107,684	20,231	21,721	46,648	72,616	229,762	
# Days:	6	7	12	9	14	14	14	14	7	14	14	
Average:	0	0	0	2	4,986	7,692	1,445	1,552	6,664	5,187	16,412	
YTD	0	0	0	110	291,380	180,549	23,416	33,716	67,303	157,484	680,399	

		COMBINED STEELHEAD										
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
05/13/2005	62	637	47	85	171,296	165,033	51,159	1,175	9,485	14,206	7,576	
05/14/2005	*	148	473	44	134	163,400	152,505	111,914	160	---	17,385	5,760
05/15/2005	*	80	585	38	71	62,000	84,610	62,952	761	22,002	15,426	4,093
05/16/2005	*	47	34	65	146	73,635	69,201	29,368	967	---	13,660	5,691
05/17/2005	*	2	---	113	381	84,091	41,806	30,589	967	18,131	10,785	8,546
05/18/2005	*	0	---	20	613	88,504	63,804	15,828	313	---	21,649	3,720
05/19/2005	*	---	---	46	152	95,542	54,388	14,344	402	19,098	40,610	3,419
05/20/2005	*	---	---	40	395	104,759	91,537	11,394	260	---	54,608	4,531
05/21/2005	*	---	---	32	---	51,857	93,405	14,129	230	21,090	25,111	4,404
05/22/2005	*	---	---	19	34	66,594	77,216	14,013	200	---	32,486	4,580
05/23/2005		---	225	46	---	35,642	71,340	17,046	201	11,470	20,812	4,373
05/24/2005	*	---	161	46	---	26,797	58,409	9,634	200	---	14,338	8,370
05/25/2005	*	---	303	---	---	27,035	33,414	6,391	178	9,031	8,861	2,890
05/26/2005	*	---	---	---	---	15,015	34,853	3,559	151	---	10,500	1,830

Total:	339	2,418	556	2,011	1,066,167	1,091,521	392,320	6,165	110,307	300,437	69,783	
# Days:	6	7	12	9	14	14	14	14	7	14	14	
Average:	57	345	46	223	76,155	77,966	28,023	440	15,758	21,460	4,985	
YTD	3,754	34,027	2,453	7,249	5,697,633	2,806,599	654,860	14,521	171,734	488,604	161,800	

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)
05/13/2005	1	0	0	3	1,247	500	0	104	2,728	868	693
05/14/2005	*	21	0	0	5	600	0	363	48	---	769
05/15/2005	*	29	0	0	1	800	400	0	70	10,402	627
05/16/2005	*	57	0	0	2	1,801	200	153	51	---	614
05/17/2005	*	2	---	0	69	117	0	0	97	15,730	699
05/18/2005	*	0	---	0	32	2,563	342	0	27	---	1,050
05/19/2005	*	---	---	0	36	4,196	626	0	21	16,374	2,296
05/20/2005	*	---	---	0	83	3,037	1,358	327	10	---	4,597
05/21/2005	*	---	---	0	---	2,908	4,347	165	17	12,469	2,409
05/22/2005	*	---	---	0	0	2,248	3,867	706	8	---	4,327
05/23/2005		---	0	0	---	1,275	2,209	552	16	6,537	2,834
05/24/2005	*	---	0	0	---	438	2,991	616	14	---	3,407
05/25/2005	*	---	0	---	---	891	1,500	538	9	6,291	2,537
05/26/2005	*	---	---	---	---	1,081	2,551	372	9	---	1,746
<hr/>											
Total:	110	0	0	231	23,202	20,891	3,792	501	70,531	62,505	28,605
# Days:	6	7	12	9	14	14	14	14	7	14	14
Average:	18	0	0	26	1,657	1,492	271	36	10,076	4,465	2,043
YTD	115	0	0	251	29,688	25,113	5,382	1,632	82,440	68,658	31,215

* 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
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
 - MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
 - BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 1 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
- 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:

5/27/05 8:57 AM

		05/14/05		TO	05/27/05				
		Species							
Site	Data	CH0	CH1	CO	SO	ST	Grand Total		
LGR	Sum of NumberCollected	86,017	196,005	61,919	17,399	888,464	1,249,804		
	Sum of NumberBarged	85,585	178,927	61,811	17,260	880,759	1,224,342		
	Sum of NumberBypassed	0	16,353	0	0	7,384	23,737		
	Sum of Numbertrucked	0	0	0	0	0	0		
	Sum of SampleMorts	26	16	5	7	14	68		
	Sum of FacilityMorts	406	643	103	132	306	1,590		
	Sum of ResearchMorts	0	66	0	0	1	67		
	Sum of TotalProjectMorts	432	725	108	139	321	1,725		
LGS	Sum of NumberCollected	61,233	590,996	102,159	18,701	1,029,138	1,802,227		
	Sum of NumberBarged	57,955	555,829	98,653	18,682	1,014,943	1,746,062		
	Sum of NumberBypassed	3,226	32,906	3,432	0	12,151	51,715		
	Sum of Numbertrucked	0	0	0	0	0	0		
	Sum of SampleMorts	3	34	2	0	9	48		
	Sum of FacilityMorts	49	2,227	72	19	2,035	4,402		
	Sum of ResearchMorts	0	0	0	0	0	0		
	Sum of TotalProjectMorts	52	2,261	74	19	2,044	4,450		
LMN	Sum of NumberCollected	2,453	203,731	17,625	3,053	339,263	566,125		
	Sum of NumberBarged	1,837	166,106	15,103	3,047	300,367	486,460		
	Sum of NumberBypassed	593	37,396	2,521	0	38,741	79,251		
	Sum of Numbertrucked	0	0	0	0	0	0		
	Sum of SampleMorts	1	7	0	0	9	17		
	Sum of FacilityMorts	22	222	1	6	146	397		
	Sum of ResearchMorts	0	0	0	0	0	0		
	Sum of TotalProjectMorts	23	229	1	6	155	414		
MCN	Sum of NumberCollected	40,554	348,773	27,090	40,255	62,856	519,528		
	Sum of NumberBarged	0	0	0	0	0	0		
	Sum of NumberBypassed	40,305	346,636	26,950	40,000	62,688	516,579		
	Sum of Numbertrucked	0	0	0	0	0	0		
	Sum of SampleMorts	10	50	1	12	3	76		
	Sum of FacilityMorts	233	2,078	138	239	164	2,852		
	Sum of ResearchMorts	6	9	1	4	1	21		
	Sum of TotalProjectMorts	249	2,137	140	255	168	2,949		
Total Sum of NumberCollected		190,257	1,339,505	208,793	79,408	2,319,721	4,137,684		
Total Sum of NumberBarged		145,377	900,862	175,567	38,989	2,196,069	3,456,864		
Total Sum of NumberBypassed		44,124	433,291	32,903	40,000	120,964	671,282		
Total Sum of Numbertrucked		0	0	0	0	0	0		
Total Sum of SampleMorts		40	107	8	19	35	209		
Total Sum of FacilityMorts		710	5,170	314	396	2,651	9,241		
Total Sum of ResearchMorts		6	75	1	4	2	88		
Total Sum of TotalProjectMorts		756	5,352	323	419	2,688	9,538		

YTD Transportation Summary

Source: Fish Passage Center

Updated:

5/27/05 8:57 AM

TO: 05/27/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	135,716	5,417,742	273,064	23,565	5,366,101	11,216,188
	Sum of NumberBarged	123,510	5,118,172	244,717	22,288	4,872,803	10,381,490
	Sum of NumberBypassed	10,825	277,008	26,286	490	445,045	759,654
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	43	441	14	15	57	570
	Sum of FacilityMorts	934	13,135	1,176	285	5,179	20,709
	Sum of ResearchMorts	0	103	0	0	2	105
	Sum of TotalProjectMorts	977	13,679	1,190	300	5,238	21,384
LGS	Sum of NumberCollected	207,286	2,375,545	175,024	22,923	2,744,216	5,524,994
	Sum of NumberBarged	158,305	1,945,184	140,683	22,116	2,169,350	4,435,638
	Sum of NumberBypassed	48,910	423,831	34,257	736	566,482	1,074,216
	Sum of NumberTrucked	4	223	0	27	291	545
	Sum of SampleMorts	3	120	10	2	58	193
	Sum of FacilityMorts	64	6,178	74	42	8,035	14,393
	Sum of ResearchMorts	0	9	0	0	0	9
	Sum of TotalProjectMorts	67	6,307	84	44	8,093	14,595
LMN	Sum of NumberCollected	3,003	648,828	20,675	4,613	594,550	1,271,669
	Sum of NumberBarged	2,287	490,314	16,152	4,437	437,151	950,341
	Sum of NumberBypassed	693	145,292	4,521	99	154,862	305,467
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	1	38	0	3	24	66
	Sum of FacilityMorts	22	472	2	14	278	788
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	23	510	2	17	302	854
MCN	Sum of NumberCollected	46,505	625,872	39,806	47,551	104,184	863,918
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	46,246	623,454	39,660	47,284	103,976	860,620
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	19	88	2	13	6	128
	Sum of FacilityMorts	234	2,266	140	245	200	3,085
	Sum of ResearchMorts	6	64	4	9	2	85
	Sum of TotalProjectMorts	259	2,418	146	267	208	3,298
Total Sum of NumberCollected		392,510	9,067,987	508,569	98,652	8,809,051	18,876,769
Total Sum of NumberBarged		284,102	7,553,670	401,552	48,841	7,479,304	15,767,469
Total Sum of NumberBypassed		106,674	1,469,585	104,724	48,609	1,270,365	2,999,957
Total Sum of NumberTrucked		408	21,818	871	574	45,541	69,212
Total Sum of SampleMorts		66	687	26	33	145	957
Total Sum of FacilityMorts		1,254	22,051	1,392	586	13,692	38,975
Total Sum of ResearchMorts		6	176	4	9	4	199
Total Sum of TotalProjectMorts		1,326	22,914	1,422	628	13,841	40,131

Cumulative Adult Passage at Mainstem Dams Through: 05/26

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	67,719	3,663	163,634	8,074	140,610	7,710	0	0	0	0	0	0	0	0	0	0	0	0
TDA	52,954	2,608	121,428	6,637	93,137	5,253	0	0	0	0	0	0	0	0	0	0	0	0
JDA	42,037	1,912	103,777	5,411	76,156	4,057	0	0	0	0	0	0	0	0	0	0	0	0
MCN	41,857	2,155	96,466	5,921	67,874	3,870	0	0	0	0	0	0	0	0	0	0	0	0
IHR	18,857	514	67,374	3,297	43,925	2,280	0	0	0	0	0	0	0	0	0	0	0	0
LMN	16,925	406	60,805	2,460	40,205	2,035	0	0	0	0	0	0	0	0	0	0	0	0
LGS	14,991	340	51,787	1,960	37,160	1,903	0	0	0	0	0	0	0	0	0	0	0	0
LWG	15,222	422	57,590	2,469	36,099	1,867	0	0	0	0	0	0	0	0	0	0	0	0
PRD	9,384	231	10,622	631	13,880	299	0	0	0	0	0	0	0	0	0	0	0	0
RIS	6,040	92	7,466	286	9,400	279	0	0	0	0	0	0	0	0	0	0	0	0
RRH	2,190	56	3,142	182	3,339	71	0	0	0	0	0	0	0	0	0	0	0	0
WEL	1,155	9	1,870	18	1,782	38	0	0	0	0	0	0	0	0	0	0	0	0
WFA	22,247	658	78,320	475	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		10-Yr		10-Yr			Wild	
	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	0	0	0	0	0	0	9	17	1	2,204	5,237	3,942	666
TDA	-1	1	0	0	0	0	0	6	0	953	1,571	1,108	429
JDA	4	-13	0	0	0	0	0	2	0	1,127	1,859	3,234	523
MCN	0	0	0	0	0	0	0	0	0	1,017	1,513	1,552	406
IHR	0	45	0	0	0	0	3	0	0	1,277	1,802	1,585	654
LMN	0	0	2	0	0	0	0	0	0	995	1,593	1,650	478
LGS	0	0	0	0	0	0	0	0	0	982	1,893	1,955	483
LWG	0	0	0	0	0	0	0	0	0	4,761	7,605	6,200	1,566
PRD	0	0	0	0	0	0	10	0	9	14	62	3	n/a
RIS	2	0	0	0	0	0	27	0	0	53	122	27	45
RRH	0	0	0	0	0	0	1	1	0	350	290	75	341
WEL	0	0	0	0	0	0	0	0	0	61	71	17	52
WFA	0	0	0	0	n/a	n/a	0	0	n/a	9,704	27,516	n/a	n/a

RIS, RRH are through 05/23. WFA and WEL are through 05/25.

IHR has chinook jack counts counted as coho for 5/23 and 5/24. IHR is missing adult chinook count for left bank on 05/18.

*PRD is not posting wild steelhead numbers.

These numbers were collected from the COE's Running Sums text files, except where otherwise noted.

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: 05/27/05

BON counts from January 1, 2005 to March 14, 2005 (our traditional counts begin March 15):

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
15	0	256	-74

