



Fish Passage Center

Weekly Report #05 - 10

May 13, 2005

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Highlights:

- Flows have increased in both the Snake and Columbia Rivers over the past week, averaging 83.6 Kcfs at Lower Granite, 134.4 Kcfs at Priest Rapids and 227 Kcfs at McNary.
- On May 10, 2005 SOR 2005-11 was submitted to the Action Agencies requesting that Dworshak pass inflows up to the 110% TDG Cap and not drop below 12 Kcfs for a period of one week.
- Spill occurred over the past week at Lower Granite Dam to facilitate fish passage during high passage days.
- 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.

Summary of Events:

Water Supply: Precipitation has been well above average over the first nine days of May at most Columbia Basin locations. Of the sites in Table 1, ten recorded precipitation that was greater than 150% of average over the first portion of May. Over the entire water year, precipitation remains below average at most locations.

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

Location	Water Year 2005 May 1-9		Water Year 2005 October 1, 2004 to May 9, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.62	96	13.71	83
Snake River Above Ice Harbor	1.49	272	11.30	92
Columbia Above The Dalles	1.04	181	13.47	82
Kootenai	0.47	73	12.87	76
Clark Fork	0.94	157	7.95	73
Flathead	0.66	93	13.09	90
Pend Oreille/Spokane	1.28	169	19.48	84
Central Washington	0.88	393	5.05	75
Snake River Plain	1.20	278	8.29	109
Salmon/Boise/Payette	1.21	233	11.11	75
Clearwater	2.18	247	18.15	82
SW Washington Cascades/Cowlitz	1.79	162	41.56	69
Willamette Valley	2.32	226	32.74	64

Snowpack in the Columbia River for basins above the Snake River confluence is 37% of average, for Snake River Basins the average snowpack is 71% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack 4% of average.

Water Supply Forecasts have held steady between the April Final and May Final Forecasts. However, the forecast at Hungry Horse (Jan-July) did increase from 71% to 77% of average between the April and May Final forecasts. Table 2 displays the April Final and May 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. April Final and the May 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	April Final		May Final		Actual 2001
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)	Actual Runoff Volume (Kaf)
The Dalles (Jan-July)	69	73800	70	74700	58200
Grand Coulee (Jan-July)	83	52200	83	52200	37400
Libby Res. Inflow, MT (Jan-July)	79	4990	78	4910	3341
Hungry Horse Res. Inflow, MT (Jan-July)	71	1580	77	1720	1300
Lower Granite Res. Inflow (Apr- July)	52	11100	55	11800	10300
Brownlee Res. Inflow (Apr-July)	35	2180	39	2440	1970*
Dworshak Res. Inflow (Apr-July)	58	1530	60	1670	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 will be 85 Kcfs at Lower Granite through June 20th. Since April 3rd, 2005, flows at Lower Granite have averaged 50.8 Kcfs; over the last week flows have averaged 83.6 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 will be 220 Kcfs and 135 Kcfs, respectively. Flows at McNary Dam have averaged 166 Kcfs since April 10th and flows at Priest Rapids have averaged 104.5 Kcfs; over the last week flows have averaged 227 Kcfs at McNary and 134.4 at Priest Rapids.

Grand Coulee Reservoir is currently at an elevation of 1253.1 feet (May 12th, 2005 midnight) and has held steady over the last week.

The Libby Reservoir is currently at elevation 2427.1 feet and has refilled 5.5 feet over the last week. Outflows at Libby continue to be 4.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3547.9 feet and has refilled approximately 1.9 feet last week. Outflows at Hungry Horse have been 6.1 Kcfs.

The Dworshak reservoir is currently at an elevation of 1592.3 feet and held relatively constant despite releasing 15 Kcfs for most of the last week. On May 10, 2005 SOR 2005-11 was submitted to the Action Agencies requesting that Dworshak pass inflows up to the 110% TDG Cap and not drop below 12 Kcfs for a period of one week.

The Brownlee Reservoir was at an elevation of 2076.8 feet on May 12th, 2005 with outflows ranging between 16.3 and 21.9 Kcfs over the last week.

Smolt Monitoring: Yearling chinook and steelhead are being captured in large numbers at Lower Snake and Lower Columbia River dams, while collection at SMP traps in the Snake River basin are mixed. At Lower Granite there have been large increases in subyearling chinook indices this past week. Sockeye indices have increased substantially in the past week at Lower Columbia SMP sites.

At the Salmon River Trap, near White Bird, average daily collection of yearling chinook dropped again this week to 70 this week compared to 400 per day last week. Steelhead numbers dropped from 210 per day to less than 100 this week. Flows in the Salmon River rose to historically normal flows this past week at roughly 22 Kcfs. In the Grande Ronde, flows rose above median historic values to 8 Kcfs for several days this week. The catch of yearling chinook averaged 76 fish per day at the Grande Ronde Trap while steelhead catch averaged about 110 per day compared to 50 last week. The Imnaha Trap did not operate for several days this past week due to high flows and debris concerns. Flows rose to 2000 cfs compared to 1000 historic median for this time period. When the trap was operated on May 11 and 12 it resulted in small collections of yearling chinook while steelhead averaged 400 per day over the two days.

At the Snake River Trap at Lewiston, the catch of steelhead increased rapidly this past week to 360 fish per day after averaging 40 per day last week. Yearling chinook catch remained relatively low at about 40 fish per day. Discharge at the Anatone gage increased to 55 Kcfs by May 11, which is at historic median flows for this time of year.

At Lower Granite Dam in the Lower Snake River, passage indices for yearling chinook and steelhead have again increased significantly this past week. The daily index for yearling chinook averaged 320,000 this week compared to 260,000 last week while steelhead indices averaged 365,000 this week compared to 176,000 last week. Subyearling chinook indices jumped this past week, reaching 62,000 on May 12. The early arrival of subyearling chinook reflect recent hatch-

ery releases from Nez Perce Tribal Hatchery at Cherry Lane and Hells Canyon releases. On May 10 a number of smolts were accidentally diverted to an inaccessible raceway. The incident resulted in an estimated 8,200 dead smolts according to the COE project biologist.

With spill occurring on five of the last six days at Lower Granite, increased migrants have been reaching Little Goose Dam. Yearling chinook indices averaged 127,000 per day this week while steelhead averaged 218,000 compared to the previous week's average of 46,000 and 21,000 respectively. On May 9 a large number of fish were discovered to have been trapped in a gatewell due to orifices being closed on an operating turbine unit. When an orifice was opened, an estimated 6,000 fish overwhelmed the separator and smolts were returned to the tailrace via the debris and adult fish bypass located at the end of the separator. Project personnel estimated 2,000 mortalities, mostly hatchery steelhead. Later in the day staff at Lyons Ferry Fish Hatchery noticed "many hundreds even thousands of dead fish..." floating by the facility the afternoon of May 9. These fish, identified as yearling chinook and steelhead by Lyons Ferry staff, were likely mortalities from the Little Goose facility.

At Lower Monumental Dam larger numbers of yearling chinook and steelhead have been collected this past week. Yearling chinook indices averaged 20,000 this week compared to 12,000 last week, while steelhead averaged 23,000 per day compared to 5,000 last week. Due to barges being loaded to capacity at Lower Granite and Little Goose dams, Lower Monumental has been bypassing fish back to the river since May 9. On May 12 Salmon managers put in an SOR to spill at the project (beyond research spill which is scheduled for 3 hours per day) to improve passage conditions at the project.

In the Mid-Columbia, Rock Island Dam, indices for all spring migrants continued to rise rapidly this past week. Yearling chinook indices averaged 460 per day compared to 280 per day last week. Steelhead averaged 780 per day this week compared to 360 last week, while coho were up to 1500 per day this week compared to 150 per

day last week. Sockeye averaged 120 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 have more than doubled again this week compared to last week with yearling chinook indices averaging 89,000 per day compared to 34,000 last week, while steelhead averaged 8,600 per day this week compared to 2,800 per day the previous week. The coho indices averaged 2,900 per day this week compared to 2,700 per day last week. Sockeye indices averaged 2,600 and subyearling chinook indices averaged 2,400 over the week.

John Day Dam saw increased numbers of yearling chinook, coho and steelhead indices this past week. Yearling chinook indices averaged 54,000 per day this week compared to 24,000 per day last week, while steelhead and coho averaged 15,000 and 8,800 this week respectively compared to 9,200 and 2,800 per day last week, respectively.

At Bonneville Dam, yearling chinook indices were down to 24,000 per day, while coho indices rose to 20,000 per day average this week, and steelhead indices increased to 5,300 per day over the past week. Subyearling chinook indices rose dramatically to 86,000 on May 1, as a new release of fish from Spring Creek Hatchery fish passed the project but now are down to 5,800 on May 13.

Spill: Dworshak Dam outflow has been increased to augment flow in the Snake River. Spill has averaged 35% of average daily flow over the past week. Some spill occurred at Lower Granite Dam this past week to facilitate the passage of large numbers of juvenile migrants arriving at the project. Testing of spillbay survival as part of RSW studies began at Lower Monumental Dam on May 3. Spill at IHR was provided according to the protocol determined for RSW testing. Spill averaged 48% of daily average flows over the past 7 days, and ranged from 31% to 90%.

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 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 (33%) than the 40% specified in the Biological Opinion. Spill at McNary Dam averaged 40% of daily average flow and spill at John Day Dam averaged 21% of daily average flow. Spill at both McNary and John Day dams are called for during nighttime hours. Spill at Bonneville Dam was just 65 Kcfs at the beginning of the week due to gas exceedences at the Camas/Washougal gage, but increased to 75 Kcfs during daytime hours and 125 Kcfs during nighttime hours by the end of the week. A few fish with minor signs of gas bubble trauma have been observed at Rock Island Dam, and one fish with signs of GBT was detected at McNary Dam.

Hatchery Releases - Releases of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam are estimated near 83.7 million for the 2005 migration season. Supplemental and planned releases of spring/summer Chinook and Sockeye salmon completed during the fall 2004 season will be considered 2005 migrants. 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 13-May-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,632,319	12,656,000	21,570,953	38,859,272
Spring Chinook	9,443,852	4,690,296	5,124,109	19,258,257
Summer Chinook	2,348,012	3,454,500		5,802,512
Coho	825,000	2,448,119	5,149,446	8,422,565
Sockeye	209,046	592,459		801,505
Summer Steelhead	9,022,642	1,249,235	522,206	10,794,083
Winter Steelhead			118,300	118,300
Total	26,480,871	25,090,609	32,485,014	84,056,494

Hatcheries in the Columbia/Snake River basin released about 15.2 million fish during the past two weeks with approximately 10.5 million fish to be released during the upcoming two weeks. See the Hatchery Release Summary Tables for further details.

Snake River -About 2.0 million spring/summer Chinook were released last summer/fall and through December in the Clearwater River basin. This spring season, about 9.4 million spring/summer Chinook and about 1-million yearling fall Chinook were released in the Snake River basin. An inadvertent release of about 397,000 subyearling spring Chinook occurred last Friday, May 6 when a flood through the Cherry Lane area caused the early release of this group of fish that was to be planted in Meadow Creek, a tributary of the Selway River. In addition, about 820,000 subyearling fall Chinook were also released on-site due to the flood. The subyearling Chinook released on April 28 by the IDFG at Hells Canyon began arriving at Lower Granite Dam this week.

About 825,000 yearling Coho salmon were released in the Clearwater River basin this 2005 season.

Approximately 9.0 million hatchery Steelhead were scheduled for release in the Snake River basin with all releases of B-Run Steelhead in the Clearwater River basin completed for the year. Steelhead releases in the Salmon River basin are also nearing completion with most drainages in receiving some level of plants at varying sites in the Snake River basin. The final groups from the Grande Ronde River basin should be in river during the next two weeks.

Mid-Columbia - The CleElum tribal facility began volitional release of about 825,000 yearling spring Chinook in mid-March with all fish in the river by late April. Spring Chinook were released from Ringold Hatchery pond in March with State, Tribal and Federal hatcheries releasing yearling spring Chinook near April 15 this season. About 4.7 million spring Chinook were released in the Mid-Columbia.

Yearling summer Chinook were released from Wells Hatchery and Eastbank Hatchery complexes into the Okanogan River, mainstem Colum-

bia, and Wenatchee Rivers during the past two weeks. The first group of subyearling Chinook from Wells Hatchery is scheduled for next week, May 18th.

About 2.4 million yearling Coho salmon will be released in the Wenatchee River basin, Methow River basin and the Yakima River basin from Tribal acclimation facilities. The majority of these Coho were in-river by the first week in May. Steelhead releases were completed from Wells Hatchery to the Methow and Okanogan rivers this week; as well, Steelhead releases from Turtle Rock began on May 2nd and were completed during the week.

Lower Columbia - Yearling fall Chinook and Coho salmon were released in late February in the Umatilla River with additional Coho released in March from Reith Bridge, near Pendleton, OR. About 800,000 yearling spring Chinook have been released in the Umatilla River to date. About 600,000 yearling spring Chinook were released from Klickitat Hatchery in March with Warm Springs NFH completing their volitional release in the Deschutes River basin by early April. Yearling spring Chinook were planted in the Hood River basin from acclimation ponds during this spring season. Another 2+ million yearling spring Chinook were released from Carson NFH and Little White Salmon River NFH prior to the end of April. About 2.5 million yearling Coho salmon from Washougal Hatchery were trucked to and released at several sites in the Klickitat River in March. The on-site volitional release of Coho will be initiated May 11th with the fish in-river by late May. Juvenile Steelhead releases into the Umatilla River were completed by early May. The lower Columbia will have summer and winter Steelhead released in some of the tributaries each year.

All Tule fall Chinook have been released for the year with the first release of subyearling fall chinook from the Umatilla River in-river during this week.

Juvenile Sockeye were released from net pens into Lake Wenatchee 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, in this case, April and May, 2005. In the

Snake River basin, juvenile sockeye were released in Redfish, Alturas, and Pettit lakes last fall and about 80,000 released this spring. A release of juvenile sockeye from the Canadian fisheries into Lake Skaha (located above Lake Osoyoos) was completed last summer with final information found in the FPC hatchery database.

Adult Fish Passage -At Bonneville Dam, adult spring Chinook counts averaged 902 fish/day through the week ending May 12. The 2005 count of adult Chinook totals 54,313, about 38.4% and 43.2% of the respective 2004 and 10-year average. The peak daily count was 2,471 on May 6, the initial day of the counting week with the low count dropping to only 376 on May 10. The adult spring Chinook count at The Dalles Dam was 40,889, or 75.3% of the total past Bonneville Dam. About 28,900 have been counted at McNary Dam with 13,700 into the Snake River and 6,000 into the upper Mid-Columbia (Priest Rapids count). In the Yakima River, 660 adult spring Chinook were tallied at the Prosser site through May 5 so likely greater than 1,000 are past that project through this week. The "jack" chinook count at Bonneville Dam was 1,111 through May 12, about 25% of the 2004 and 10-year average. If this is a sign of future counts for returning adult spring Chinook, then watch for further reduced salmon to Bonneville Dam and upriver sites next season.

As noted in the daily counts of adult Steelhead at projects above Bonneville Dam, few fish are left in the river with most through the hydro system. Counts at Lower Granite total 4,719 through May 12, reduced from the 2004 and 10-year average. Adult Steelhead moving past Bonneville consist mostly of new (bright) fish that are Skamania stock heading to the Bonneville pool tributaries with counts ranging between 10 and 45 for the week.

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
04/29/05	97.9	0.0	98.8	0.0	107.0	8.2	102.5	0.0	110.1	25.5	106.1	20.0	99.5	61.1
04/30/05	65.1	0.0	72.0	0.0	85.4	6.8	85.4	0.0	91.1	19.0	108.6	19.9	110.9	68.4
05/01/05	94.0	0.0	84.5	0.0	87.9	7.4	82.4	0.0	90.1	17.2	105.1	18.0	107.8	66.5
05/02/05	113.9	0.0	122.5	0.0	131.8	9.4	128.7	0.0	136.0	21.9	116.2	20.2	113.3	69.9
05/03/05	125.3	0.0	127.5	0.0	137.4	8.9	133.2	0.0	137.9	24.9	131.5	28.0	127.5	78.5
05/04/05	107.6	0.0	109.0	0.0	118.7	8.5	117.2	0.0	125.5	23.4	133.1	28.3	136.0	83.7
05/05/05	86.2	0.0	93.4	0.0	103.9	8.1	103.0	0.0	108.9	22.6	126.0	27.5	124.6	76.7
05/06/05	115.0	0.0	120.4	0.0	126.7	13.5	118.6	0.2	125.5	25.1	117.1	13.3	120.9	74.6
05/07/05	94.5	0.0	91.1	0.0	102.5	8.0	109.8	0.0	115.2	21.1	124.4	12.2	119.2	73.4
05/08/05	87.2	0.0	93.5	0.0	100.3	8.0	96.7	0.0	104.3	19.8	109.7	11.8	114.2	70.2
05/09/05	136.5	0.0	135.1	0.0	142.1	9.2	137.1	0.0	142.7	30.8	141.3	13.9	142.0	87.4
05/10/05	120.7	0.0	127.0	0.0	141.2	9.2	144.6	15.9	154.2	29.4	155.9	12.4	154.5	95.2
05/11/05	120.0	0.0	115.6	0.0	124.3	8.8	123.9	35.0	132.1	30.1	144.7	12.1	150.2	92.6
05/12/05	119.5	0.0	125.9	0.0	135.3	9.7	139.2	34.8	147.4	31.2	140.5	12.8	139.7	85.9

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/29/05	5.3	0.0	15.9	14.3	54.9	0.0	55.8	0.0	55.8	0.0	53.5	17.6
04/30/05	5.3	0.0	14.1	16.1	54.1	2.7	53.4	0.0	53.4	0.0	54.9	19.1
05/01/05	5.3	0.0	13.7	13.8	51.6	0.0	53.6	0.0	54.4	0.0	55.5	41.3
05/02/05	5.3	0.0	11.0	11.5	47.7	3.8	47.8	0.0	46.9	0.0	49.4	43.2
05/03/05	5.3	0.0	13.1	11.7	46.1	0.0	48.1	0.0	49.4	3.5	51.1	43.3
05/04/05	6.2	0.0	13.4	17.5	49.4	0.0	47.8	0.0	49.0	2.3	50.3	43.1
05/05/05	11.5	2.4	12.8	18.5	60.4	0.0	60.5	0.0	62.4	2.4	62.0	23.1
05/06/05	14.0	4.5	14.8	18.2	67.0	0.0	65.5	0.0	67.1	2.3	65.7	22.1
05/07/05	15.0	5.4	16.2	17.7	79.4	3.1	79.7	0.0	82.0	2.9	82.5	26.7
05/08/05	15.0	5.4	18.8	16.9	82.4	0.0	82.5	0.0	85.4	3.0	84.0	27.7
05/09/05	15.0	5.4	19.5	14.5	77.6	6.2	78.5	0.0	80.3	2.4	82.1	61.4
05/10/05	15.0	5.4	22.6	21.0	91.3	6.2	89.6	0.0	92.4	5.3	93.1	84.0
05/11/05	15.0	5.4	21.7	21.5	98.9	13.5	97.9	0.0	101.0	3.8	104.2	46.0
05/12/05	15.0	5.4	---	---	88.7	4.0	88.5	0.0	93.9	3.2	94.2	29.2

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		
04/29/05	164.2	45.8	161.1	47.6	158.5	62.7	170.7	79.8	0.0	79.2
04/30/05	166.8	46.8	164.6	47.5	164.5	64.5	170.6	81.4	0.0	77.7
05/01/05	171.5	62.0	161.8	46.4	157.6	62.2	167.7	80.1	0.0	76.1
05/02/05	162.8	57.4	178.6	50.7	177.4	70.0	191.7	77.3	2.5	100.3
05/03/05	179.8	87.5	175.0	50.3	177.0	69.4	180.5	76.4	0.0	92.6
05/04/05	195.3	85.0	178.6	51.7	173.3	69.4	186.4	74.6	0.0	100.3
05/05/05	192.4	82.5	184.9	41.6	186.1	72.4	192.2	65.1	4.5	111.1
05/06/05	201.6	85.0	190.3	39.0	189.7	65.1	198.8	64.9	11.4	111.0
05/07/05	199.9	62.4	196.4	40.1	193.0	59.9	202.5	66.8	1.3	122.9
05/08/05	201.6	81.3	203.5	40.5	206.2	66.0	220.4	73.1	10.8	124.9
05/09/05	228.8	93.9	239.9	41.3	236.4	79.8	232.2	78.1	26.5	116.0
05/10/05	242.5	85.1	224.7	42.5	225.4	77.6	236.7	82.7	31.9	110.6
05/11/05	260.0	106.4	253.6	55.7	252.8	80.4	259.0	88.3	38.3	121.1
05/12/05	254.8	128.7	258.9	68.3	262.3	80.1	282.3	90.2	55.5	125.2

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
McNary Dam											
	05/06/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/08/05	Chinook + Steelhead	100	1	1	1.00%	1.00%	0	0	1	0
	05/12/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	05/03/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/07/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/10/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	05/05/05	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	05/09/05	Chinook + Steelhead	100	3	3	3.00%	0.00%	3	0	0	0
	05/12/05	Chinook + Steelhead	100	2	2	2.00%	0.00%	1	1	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 4/29/2005 to 05/12/05

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2005	39,061	05-10-05	05-10-05	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2005	39,269	05-10-05	05-10-05	Redfish Lake Creek	Salmon River (ID)
Idaho Dept. of Fish and Game Total					78,330				
Nez Perce Tribe	Dworshak NFH	CO	UN	2005	235,000	04-20-05	05-06-05	Clear Creek	Clearwater River M F
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	500,300	05-02-05	05-31-05	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	503,000	05-02-05	05-31-05	Big Canyon (Clearwater R)	Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2005	455,700	05-06-05	05-06-05	Nez Perce Tribal Hatchery	Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	SP	2005	397,000	05-06-05	05-06-05	Nez Perce Tribal Hatchery	Clearwater River M F
Nez Perce Tribe Total					2,091,000				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2005	90,000	05-02-05	05-13-05	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2005	160,000	04-11-05	05-03-05	L Sheep Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2005	161,000	04-30-05	05-11-05	Wallowa Acclim Pond	Wallowa River
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	200,000	05-02-05	05-31-05	Pittsburg Landing Acclim Pond	Snake River
Oregon Dept. of Fish and Wildlife Total					930,152				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	100,150	05-02-05	05-10-05	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	139,384	05-04-05	05-09-05	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2005	3,268,727	04-27-05	05-04-05	Spring Creek Hatchery	L Col R (D/s McN Dam)
U.S. Fish and Wildlife Service Total					3,508,261				
Warm Springs Tribe	Oak Springs Hatchery	ST	SU	2005	45,000	03-24-05	05-04-05	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2005	39,500	04-08-05	05-02-05	E Fk Irrig Dist Sand Trap	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2005	39,800	04-07-05	05-04-05	Parkdale Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2005	44,500	03-28-05	05-04-05	Jones Creek Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2005	46,500	03-28-05	05-04-05	Blackberry Acclim Pond	Hood River
Warm Springs Tribe Total					215,300				
Washington Dept. of Fish and Wildlife	COOP	ST	SU	2005	20,000	04-23-05	05-07-05	O'Reilly Pond	Methow River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SP	2005	1,500	05-02-05	05-02-05	White River	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SP	2005	4,500	05-06-05	05-06-05	Nason Creek	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	215,000	05-03-05	05-03-05	Turtle Rock Hatchery	Mid-Columbia 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	CH1	SU	2005	578,000	04-15-05	05-13-05	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2005	39,000	05-02-05	05-05-05	Wenatchee River	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2005	100,000	05-02-05	05-05-05	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2005	124,000	03-21-05	05-20-05	Above Rock Island Dam	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2005	153,000	05-02-05	05-05-05	Chiwawa Hatchery	Wenatchee 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	234,000	05-02-05	05-31-05	Cpt John Acclim Pond	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	400,000	05-02-05	05-31-05	Grande Ronde River	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2005	130,308	04-14-05	04-30-05	Chewuch Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2005	22,500	05-02-05	05-06-05	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2005	110,000	04-25-05	05-06-05	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2005	21,500	05-02-05	05-06-05	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH0	SU	2005	240,000	05-11-05	05-11-05	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2005	313,500	04-19-05	04-30-05	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2005	33,000	04-30-05	05-05-05	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2005	33,000	05-07-05	05-07-05	Okanogan River	Okanogan River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2005	84,000	05-04-05	06-03-05	Twisp River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2005	90,000	04-21-05	05-06-05	Chewuch River	Methow River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2005	90,000	04-21-05	05-06-05	Methow River	Methow River
Washington Dept. of Fish and Wildlife Total					4,612,808				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	268,170	03-09-05	05-16-05	Easton Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	273,870	03-09-05	05-16-05	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	284,016	03-09-05	05-16-05	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	68,025	04-28-05	05-15-05	Butcher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	70,941	05-01-05	05-15-05	Maheer Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	117,893	04-28-05	05-15-05	Wenatchee River	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	369,060	04-23-05	05-15-05	Icicle Creek	Wenatchee River
Yakama Tribe	Little White Salmon NFH	CH0	FA	2005	1,700,000	05-09-05	05-27-05	Prosser Acclim Pond	Yakama River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2005	415,000	04-11-05	05-10-05	Prosser Acclim Pond	Yakama River
Yakama Tribe	Yakama Hatchery	CH0	FA	2005	150,000	04-11-05	05-20-05	Union Gap (Yakama R)	Yakama River
Yakama Tribe Total					3,716,975				
Grand Total					15,152,826				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

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

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	05-02-05	05-31-05	Cpt John Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH0	FA	2005	503,000	05-02-05	05-31-05	Big Canyon (Clearwater R)	Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CH0	FA	2005	431,000	05-25-05	06-10-05	North Lapwai Valley Hatchery	Clearwater River M F
Nez Perce Tribe Total					1,434,300				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2005	90,000	05-02-05	05-13-05	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
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	200,000	05-02-05	05-31-05	Pittsburg Landing Acclim Pond	Snake River
Oregon Dept. of Fish and Wildlife Total					609,152				
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	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	CH1	SU	2005	578,000	04-15-05	05-13-05	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2005	124,000	03-21-05	05-20-05	Above Rock Island Dam	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	06-24-05	Cpt John Acclim Pond	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	234,000	05-02-05	05-31-05	Cpt John Acclim Pond	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH0	FA	2005	400,000	05-02-05	05-31-05	Grande Ronde River	Grande Ronde River
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2005	84,000	05-04-05	06-03-05	Twisp River	Methow River
Washington Dept. of Fish and Wildlife Total					3,467,000				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	268,170	03-09-05	05-16-05	Easton Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	273,870	03-09-05	05-16-05	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	284,016	03-09-05	05-16-05	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	68,025	04-28-05	05-15-05	Butcher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	70,941	05-01-05	05-15-05	Maher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	117,893	04-28-05	05-15-05	Wenatchee River	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2005	369,060	04-23-05	05-15-05	Icicle Creek	Wenatchee River
Yakama Tribe	Little White Salmon NFH	CH0	FA	2005	1,700,000	05-09-05	05-27-05	Prosser Acclim Pond	Yakama River
Yakama Tribe	Yakama Hatchery	CH0	FA	2005	150,000	04-11-05	05-20-05	Union Gap (Yakama R)	Yakama River
Yakama Tribe Total					3,301,975				
Grand Total					10,512,427				

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			#	<u>Boundary</u>			#	<u>Grand Coulee</u>			#	<u>Grand C. Tlwr</u>			#	<u>Chief Joseph</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
4/29	---	---	---	0	114	115	115	24	109	110	110	24	105	106	106	24	106	107	107	24
4/30	---	---	---	0	112	114	115	24	109	110	111	24	104	105	105	24	106	107	109	24
5/1	---	---	---	0	109	110	114	24	109	110	110	24	105	106	107	24	107	108	109	24
5/2	---	---	---	0	110	111	114	24	108	109	110	24	106	106	107	24	107	107	107	24
5/3	---	---	---	0	111	113	115	24	109	110	111	23	106	107	107	24	107	107	108	24
5/4	---	---	---	0	110	112	115	24	111	111	111	24	106	106	107	24	107	107	107	21
5/5	---	---	---	0	110	112	115	24	110	110	110	24	106	107	109	24	107	107	108	24
5/6	---	---	---	0	110	111	112	24	110	110	111	24	107	108	109	24	107	108	108	24
5/7	---	---	---	0	112	113	116	24	110	110	112	24	107	107	108	24	107	108	108	24
5/8	---	---	---	0	111	111	114	24	111	111	112	24	107	108	108	24	107	108	108	24
5/9	---	---	---	0	113	115	119	24	110	111	111	24	107	108	109	23	107	108	108	24
5/10	---	---	---	0	114	115	118	24	109	110	110	24	106	107	108	24	106	107	107	24
5/11	---	---	---	0	115	118	119	24	109	109	109	24	106	107	108	24	106	107	107	24
5/12	---	---	---	0	116	119	120	24	109	109	110	24	107	107	108	24	107	107	108	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			#	<u>Wells</u>			#	<u>Wells Dwnstrm</u>			#	<u>Rocky Reach</u>			#	<u>Rocky R. Tlwr</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
4/29	107	108	108	24	106	107	107	24	108	108	109	24	108	108	109	24	108	109	109	24
4/30	107	108	109	24	106	106	106	24	107	108	109	24	108	108	109	24	108	109	109	24
5/1	108	109	109	23	106	107	108	24	108	108	109	24	108	109	109	23	109	109	109	23
5/2	107	108	108	24	107	108	108	24	108	109	109	24	108	109	109	24	109	109	109	24
5/3	107	108	109	24	107	107	108	24	109	109	109	24	109	110	110	24	110	110	111	24
5/4	107	108	108	21	107	107	107	24	108	109	109	24	110	110	110	24	110	110	110	24
5/5	107	107	108	24	107	108	108	24	109	109	110	24	110	110	110	24	110	110	111	24
5/6	108	108	109	24	107	108	108	24	110	111	113	24	111	111	111	24	111	111	112	24
5/7	109	109	110	24	107	107	107	24	109	109	110	24	110	110	110	24	110	110	111	24
5/8	109	109	110	24	107	107	108	22	109	109	110	22	111	111	111	24	111	111	112	24
5/9	108	108	110	24	107	107	108	24	109	110	110	24	110	110	110	24	110	111	111	24
5/10	107	108	109	21	105	106	107	24	108	108	109	24	108	109	110	24	109	110	110	24
5/11	107	107	108	22	105	106	106	24	108	108	109	24	108	108	109	24	111	112	112	24
5/12	107	108	108	24	106	107	107	24	109	109	109	24	109	109	110	24	111	112	113	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			#	<u>Rock I. Tlwr</u>			#	<u>Wanapum</u>			#	<u>Wanapum Tlwr</u>			#	<u>Priest Rapids</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>		
	<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	
4/29	108	108	108	24	114	115	117	24	112	113	114	24	116	116	117	24	114	115	115	24
4/30	108	108	108	24	114	116	117	24	113	114	115	24	116	116	119	24	114	115	117	24
5/1	108	108	109	23	113	114	116	23	114	115	116	24	115	115	116	24	115	115	116	24
5/2	108	108	109	24	113	114	115	24	113	113	114	24	116	117	121	24	114	114	116	24
5/3	109	109	110	24	114	115	116	24	112	113	114	24	116	117	118	24	114	115	117	24
5/4	109	109	109	24	114	115	117	24	---	---	---	0	---	---	---	0	---	---	---	0
5/5	109	109	110	24	115	116	118	24	113	114	116	24	117	117	118	24	115	116	117	24
5/6	109	110	110	24	115	116	117	24	112	113	114	24	115	116	118	24	115	115	117	24
5/7	109	109	110	24	114	115	117	24	111	112	114	24	113	115	117	24	111	112	113	24
5/8	109	109	110	24	114	116	117	24	111	112	113	24	114	116	117	24	111	113	116	24
5/9	109	109	110	24	115	116	118	23	112	112	112	24	114	115	117	24	113	114	116	24
5/10	107	108	109	24	114	115	116	23	110	111	112	24	112	114	116	24	111	112	112	24
5/11	105	109	110	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
5/12	107	111	113	24	112	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>Clrwtr-Peck</u>			<u>Anatone</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/29	114	114	116	24	112	113	113	24	97	97	97	24	---	---	---	0	100	101	101	24
4/30	114	115	117	24	112	113	113	24	96	97	97	24	---	---	---	0	102	103	117	24
5/1	114	115	115	24	113	114	114	24	96	97	98	24	100	101	102	24	101	102	103	24
5/2	114	115	115	24	112	113	113	24	104	111	118	24	100	101	101	24	101	101	102	22
5/3	109	109	109	3	113	114	115	24	118	118	118	24	100	101	102	24	101	102	103	24
5/4	---	---	---	0	114	114	114	24	107	118	118	24	100	101	106	24	101	102	102	24
5/5	---	---	---	0	114	114	114	24	101	103	103	24	101	102	103	24	102	104	104	23
5/6	119	119	120	8	114	114	115	20	105	106	107	24	103	104	104	24	102	103	103	24
5/7	117	117	118	24	112	113	113	24	107	107	107	24	102	102	103	24	102	102	103	24
5/8	117	118	118	24	111	112	112	24	119	127	127	24	103	104	104	24	102	103	103	24
5/9	119	119	119	24	112	112	112	24	120	127	128	23	103	103	104	24	102	102	102	24
5/10	119	119	119	24	110	111	112	24	107	107	107	24	102	102	102	24	101	101	102	24
5/11	---	---	---	0	113	114	115	24	107	107	107	24	103	103	104	24	102	103	104	24
5/12	---	---	---	0	114	115	116	21	107	107	108	23	103	104	104	23	103	103	104	24

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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/29	101	103	104	24	102	103	105	24	101	102	102	24	102	103	104	24	102	102	103	24
4/30	102	104	105	24	103	104	106	24	102	104	107	24	103	103	104	24	102	103	103	24
5/1	102	104	106	24	102	103	105	24	100	101	101	24	104	104	104	24	102	103	103	24
5/2	102	103	104	24	103	103	103	24	103	106	108	24	104	104	105	24	102	102	103	24
5/3	102	104	106	24	103	103	105	16	102	102	103	16	104	104	105	24	102	102	103	24
5/4	101	102	104	24	106	107	108	24	103	103	104	24	104	104	104	24	103	103	103	24
5/5	101	103	103	24	106	106	106	24	104	104	105	24	105	105	105	24	103	103	103	24
5/6	102	102	103	24	104	105	106	24	104	104	104	24	105	105	105	24	104	105	105	24
5/7	102	102	102	24	103	103	103	24	104	105	107	24	104	104	104	24	103	103	104	24
5/8	102	103	104	24	103	104	104	24	102	103	103	24	104	104	104	24	103	104	104	24
5/9	102	103	103	24	103	103	103	24	105	107	108	24	104	104	104	24	103	104	104	24
5/10	101	101	101	24	101	102	102	24	104	106	109	24	103	103	103	24	102	103	103	24
5/11	102	103	104	24	101	102	102	24	106	107	110	24	102	102	102	24	102	102	103	24
5/12	103	104	105	23	102	102	104	24	103	104	106	24	104	105	110	24	103	103	104	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/29	103	103	103	24	103	103	104	24	102	103	103	24	110	111	111	24	110	111	112	24
4/30	103	103	103	24	103	103	103	24	102	102	103	24	111	111	112	24	112	115	118	24
5/1	103	103	103	24	103	103	103	24	103	103	103	24	114	116	117	24	111	112	113	24
5/2	103	103	103	24	103	103	104	24	103	103	104	24	115	115	116	24	112	114	116	24
5/3	104	104	104	24	106	109	118	24	103	103	104	24	115	116	117	24	113	114	116	24
5/4	104	104	105	24	106	108	118	24	104	104	104	24	115	117	118	24	114	115	118	24
5/5	105	105	105	24	107	109	118	24	104	105	105	24	112	113	114	24	114	114	115	24
5/6	104	105	105	24	106	109	118	24	106	106	106	24	112	113	113	24	114	115	116	24
5/7	104	104	104	24	106	108	117	24	105	105	106	24	112	113	113	24	113	113	114	24
5/8	104	104	105	24	106	109	118	24	104	105	105	24	112	113	113	24	112	113	114	24
5/9	105	105	105	24	107	109	118	24	105	105	105	24	117	118	119	24	110	110	111	24
5/10	103	104	104	24	107	110	117	24	104	104	105	24	118	119	119	24	109	109	110	24
5/11	103	103	103	24	106	109	116	24	104	104	104	24	115	116	119	17	110	111	112	24
5/12	103	103	104	24	106	109	117	24	104	104	105	24	112	112	115	16	112	114	117	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>							
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High	# hr				
4/29	111	112	113	24	113	116	116	24	110	110	111	24	113	118	119	24	111	113	114	24
4/30	110	111	112	24	113	116	116	24	109	110	110	24	114	118	119	24	112	114	115	24
5/1	112	113	113	24	114	117	118	24	111	111	112	23	114	117	118	24	112	114	115	23
5/2	112	112	113	24	114	116	118	24	112	112	114	23	115	118	119	24	112	114	115	23
5/3	113	114	115	24	116	117	117	24	112	112	112	23	115	118	119	24	113	114	116	23
5/4	115	115	115	24	117	117	117	24	112	112	113	23	115	118	119	24	113	115	116	23
5/5	115	115	115	24	117	117	117	24	114	114	115	23	115	118	120	23	114	115	116	19
5/6	115	116	116	24	117	117	117	24	113	114	115	23	116	119	119	24	112	113	115	23
5/7	113	114	114	24	115	117	119	24	111	111	112	23	115	119	119	24	109	110	111	23
5/8	111	112	112	24	115	118	119	24	110	111	111	23	115	119	120	24	111	112	113	23
5/9	111	111	112	24	116	116	117	24	114	117	133	23	115	119	120	24	111	112	112	23
5/10	110	110	110	24	116	116	116	24	108	109	110	23	114	119	120	24	109	110	111	23
5/11	111	111	113	24	116	118	119	24	107	107	108	23	113	119	119	24	108	109	111	23
5/12	114	115	116	24	118	119	119	24	109	109	110	23	114	118	119	24	110	113	115	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>							
	24 h Avg	12 h Avg	High	# hr	24 h Avg	12 h Avg	High	# hr	24h Avg	12h Avg	High	# hr	24h Avg	12h Avg	High	# hr				
4/29	115	116	117	24	111	112	113	24	115	115	115	24	111	112	113	24	115	115	116	24
4/30	116	117	117	24	112	113	114	24	115	116	116	24	114	116	117	24	115	116	118	24
5/1	116	117	117	24	113	113	114	23	116	117	117	23	114	115	117	20	115	115	116	17
5/2	116	117	118	24	114	115	115	23	116	116	117	23	114	115	116	24	115	115	115	17
5/3	116	117	118	24	114	114	114	23	116	116	117	23	115	117	118	24	115	115	115	17
5/4	116	117	118	24	114	114	115	23	115	116	116	23	114	115	116	24	115	115	115	17
5/5	117	118	118	24	115	115	116	23	116	116	117	23	114	115	116	24	115	115	115	17
5/6	115	117	118	24	113	114	115	23	114	115	115	23	113	114	115	24	115	115	115	17
5/7	113	113	114	24	110	111	111	23	113	113	113	23	112	113	114	24	114	114	115	17
5/8	114	115	116	24	111	111	112	23	113	114	114	23	111	112	112	20	116	116	117	17
5/9	115	116	116	24	111	112	112	23	114	114	115	23	111	112	112	24	117	117	119	17
5/10	114	114	115	24	110	110	110	23	113	113	114	23	109	110	110	24	117	117	119	17
5/11	113	114	115	24	109	109	109	23	113	114	115	23	110	111	112	24	117	117	120	17
5/12	114	116	117	24	109	109	110	23	112	113	115	23	111	112	113	24	117	118	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)	(INDEX)
04/29/2005	*	---	---	194	7	350,200	20,404	18,650	175	11,968	49,377	46,967
04/30/2005	*	496	113	77	33	354,679	28,503	13,700	132	---	31,706	30,067
05/01/2005	*	1,134	78	74	13	145,519	41,005	9,700	187	24,044	31,519	33,481
05/02/2005	*	301	207	26	13	412,325	45,005	12,100	408	---	16,996	32,000
05/03/2005		180	159	36	8	145,461	69,937	8,641	399	36,184	9,731	31,214
05/04/2005	*	108	159	21	4	129,600	48,243	9,025	364	---	11,812	24,245
05/05/2005	*	274	63	28	15	311,000	71,954	12,740	353	65,375	18,089	23,716
05/06/2005	*	197	9	154	15	401,000	128,891	7,581	320	---	16,883	18,886
05/07/2005	*	37	---	---	8	591,200	130,802	7,220	274	76,740	29,580	21,102
05/08/2005	*	122	---	18	67	400,562	145,744	16,034	233	---	45,098	23,359
05/09/2005	*	16	---	132	56	351,200	190,192	15,541	207	96,805	51,213	25,286
05/10/2005	*	27	---	88	22	263,667	176,275	15,357	704	---	49,105	26,193
05/11/2005		55	22	34	71	145,312	244,866	42,287	528	93,288	74,623	24,938
05/12/2005	*	49	9	32	55	98,756	374,850	39,476	947	---	108,200	29,795
<hr/>												
Total:		2,996	819	914	387	4,100,481	1,716,671	228,052	5,231	404,404	543,932	391,249
# Days:		13	9	13	14	14	14	14	14	7	14	14
Average:		230	91	70	28	292,892	122,619	16,289	374	57,772	38,852	27,946
YTD		43,498	41,931	5,552	748	5,310,818	1,784,549	452,749	9,205	446,781	779,455	893,592

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)	(INDEX)
04/29/2005	*	---	---	6	15	0	0	0	23	70	140	10,091
04/30/2005	*	0	6	13	19	205	0	0	8	---	0	68,278
05/01/2005	*	0	1	34	41	0	0	0	14	71	192	86,390
05/02/2005	*	0	1	45	16	0	0	100	24	---	57	35,512
05/03/2005		0	0	119	5	217	0	108	5	307	22	14,073
05/04/2005	*	0	3	96	8	0	100	0	17	---	23	7,485
05/05/2005	*	0	0	59	9	600	306	0	5	1,156	21	6,463
05/06/2005	*	0	0	95	9	1,000	2,730	208	1	---	59	15,663
05/07/2005	*	0	---	---	3	400	8,509	0	23	1,511	45	15,092
05/08/2005	*	0	---	3	49	624	15,600	0	16	---	32	7,803
05/09/2005	*	0	---	5	31	1,400	4,400	0	46	2,692	38	5,525
05/10/2005	*	0	---	3	33	19,515	33,400	104	15	---	153	4,458
05/11/2005		0	0	37	35	16,195	18,600	0	198	3,037	146	3,733
05/12/2005	*	0	0	31	12	9,187	62,400	0	59	---	139	5,856
<hr/>												
Total:		0	11	546	285	49,343	146,045	520	454	8,844	1,067	286,422
# Days:		13	9	13	14	14	14	14	14	7	14	14
Average:		0	1	42	20	3,525	10,432	37	32	1,263	76	20,459
YTD		0	76	722	445	54,042	146,053	570	1,642	9,528	1,211	1,619,130

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)	
04/29/2005	*	---	---	0	0	5,000	200	150	21	488	2,004	28,712
04/30/2005	*	0	0	0	0	14,556	300	0	33	---	2,084	17,330
05/01/2005	*	0	0	0	1	4,105	100	0	53	1,858	2,302	15,087
05/02/2005	*	0	0	0	4	4,624	682	100	121	---	3,113	18,341
05/03/2005		0	0	0	0	1,520	120	216	303	5,622	3,146	15,336
05/04/2005	*	0	0	0	0	1,400	0	0	263	---	2,388	14,768
05/05/2005	*	0	0	0	0	3,000	561	209	285	2,797	4,554	14,797
05/06/2005	*	0	0	0	4	5,800	702	0	412	---	4,522	21,765
05/07/2005	*	0	---	---	0	18,600	746	314	541	6,910	4,562	27,438
05/08/2005	*	0	---	0	3	14,982	800	104	649	---	7,046	25,948
05/09/2005	*	0	---	0	9	36,600	5,600	103	684	504	8,892	18,161
05/10/2005	*	0	---	0	2	47,920	4,600	623	1,968	---	13,470	13,675
05/11/2005		0	0	0	8	29,284	5,400	744	3,378	1,216	11,173	16,948
05/12/2005	*	0	0	0	0	20,440	51,400	622	3,145	---	11,620	19,444
<hr/>												
Total:		0	0	0	31	207,831	71,211	3,185	11,856	19,395	80,876	267,750
# Days:		13	9	13	14	14	14	14	14	7	14	14
Average:		0	0	0	2	14,845	5,087	228	847	2,771	5,777	19,125
YTD		0	0	0	94	221,576	72,865	3,185	11,995	20,655	84,868	450,637

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)	
04/29/2005	*	---	---	144	15	143,400	20,403	7,900	226	3,408	4,360	826
04/30/2005	*	260	825	76	75	284,974	11,504	4,300	293	---	5,684	6,055
05/01/2005	*	285	794	31	36	314,846	15,808	4,800	384	1,482	17,079	2,687
05/02/2005	*	196	846	13	25	228,980	25,683	6,600	451	---	23,000	5,202
05/03/2005		126	608	20	28	85,540	24,222	3,888	319	2,045	5,956	5,774
05/04/2005	*	186	1,521	22	21	59,400	17,093	2,624	455	---	4,766	5,909
05/05/2005	*	212	802	39	66	117,600	31,257	5,639	425	4,438	3,846	3,233
05/06/2005	*	192	65	115	24	198,400	113,955	11,216	605	---	3,743	3,342
05/07/2005	*	32	---	---	129	344,200	74,048	8,580	531	7,195	5,518	4,155
05/08/2005	*	91	---	29	1,104	270,301	97,830	17,798	398	---	7,767	4,157
05/09/2005	*	50	---	137	391	439,000	278,623	18,938	561	5,389	10,979	3,595
05/10/2005	*	94	---	158	320	715,109	128,485	23,243	897	---	23,268	6,092
05/11/2005		104	393	147	435	375,593	102,403	42,606	1,117	13,369	28,269	8,285
05/12/2005	*	116	445	87	130	215,886	730,636	36,471	1,342	---	24,657	7,704
<hr/>												
Total:		1,944	6,299	1,018	2,799	3,793,229	1,671,950	194,603	8,004	37,326	168,892	67,016
# Days:		13	9	13	14	14	14	14	14	7	14	14
Average:		150	700	78	200	270,945	119,425	13,900	572	5,332	12,064	4,787
YTD		3,415	31,609	1,897	5,238	4,631,466	1,715,078	262,540	8,356	61,427	188,167	92,017

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)	
04/29/2005 *	---	---	0	0	0	100	150	20	392	94	0	
04/30/2005 *	0	0	0	0	0	102	200	8	---	0	0	
05/01/2005 *	0	0	0	0	0	301	0	3	770	109	0	
05/02/2005 *	0	0	0	0	201	0	100	9	---	57	64	
05/03/2005	0	0	0	0	217	0	108	12	892	70	0	
05/04/2005 *	0	0	0	0	0	120	0	6	---	151	0	
05/05/2005 *	0	0	0	0	0	420	209	3	1,755	196	39	
05/06/2005 *	0	0	0	0	0	361	0	1	---	292	119	
05/07/2005 *	0	---	---	0	0	0	105	13	2,549	392	77	
05/08/2005 *	0	---	0	3	208	200	104	5	---	913	235	
05/09/2005 *	0	---	0	0	800	0	0	8	2,520	340	286	
05/10/2005 *	1	---	0	8	650	200	0	58	---	920	349	
05/11/2005	1	0	0	5	666	0	0	439	2,736	1,073	475	
05/12/2005 *	3	0	0	3	1,378	1,100	104	331	---	1,496	718	
<hr/>												
Total:	5	0	0	19	4,120	2,904	1,080	916	11,614	6,103	2,362	
# Days:	13	9	13	14	14	14	14	14	7	14	14	
Average:	0	0	0	1	294	207	77	65	1,659	436	169	
YTD	5	0	0	20	6,486	4,222	1,590	1,131	11,909	6,153	2,610	

* 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)}

BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 1 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:

5/13/05 9:43 AM

04/30/05 TO 05/13/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	45,000	4,011,400	197,400	3,800	3,639,400	7,897,000
	Sum of NumberBarged	33,718	3,742,377	170,140	3,231	3,204,144	7,153,610
	Sum of NumberBypassed	10,754	257,765	26,194	472	430,475	725,660
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	10	282	9	0	32	333
	Sum of FacilityMorts	518	10,954	1,057	97	4,748	17,374
	Sum of ResearchMorts	0	22	0	0	1	23
	Sum of TotalProjectMorts	528	11,258	1,066	97	4,781	17,730
LGS	Sum of NumberCollected	146,045	1,716,671	71,211	2,904	1,671,950	3,608,781
	Sum of NumberBarged	100,346	1,322,406	40,383	2,159	1,111,667	2,576,961
	Sum of NumberBypassed	45,684	390,358	30,825	736	554,331	1,021,934
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	47	2	0	39	88
	Sum of FacilityMorts	15	3,860	1	9	5,913	9,798
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	15	3,907	3	9	5,952	9,886
LMN	Sum of NumberCollected	500	220,400	3,050	1,050	187,350	412,350
	Sum of NumberBarged	400	112,406	1,049	944	71,141	185,940
	Sum of NumberBypassed	100	107,896	2,000	99	116,121	226,216
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	6	0	1	5	12
	Sum of FacilityMorts	0	92	1	6	83	182
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	98	1	7	88	194
MCN	Sum of NumberCollected	5,406	246,345	11,836	7,089	22,962	293,638
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	5,401	246,114	11,831	7,078	22,938	293,362
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	4	19	0	1	0	24
	Sum of FacilityMorts	1	167	2	5	24	199
	Sum of ResearchMorts	0	45	3	5	0	53
	Sum of TotalProjectMorts	5	231	5	11	24	276
Total Sum of NumberCollected		196,951	6,194,816	283,497	14,843	5,521,662	12,211,769
Total Sum of NumberBarged		134,464	5,177,189	211,572	6,334	4,386,952	9,916,511
Total Sum of NumberBypassed		61,939	1,002,133	70,850	8,385	1,123,865	2,267,172
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		14	354	11	2	76	457
Total Sum of FacilityMorts		534	15,073	1,061	117	10,768	27,553
Total Sum of ResearchMorts		0	67	3	5	1	76
Total Sum of TotalProjectMorts		548	15,494	1,075	124	10,845	28,086

YTD Transportation Summary

Source: Fish Passage Center

Updated:

5/13/05 9:43 AM

TO: 05/13/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	49,699	5,221,737	211,145	6,166	4,477,637	9,966,384
	Sum of NumberBarged	37,925	4,939,245	182,906	5,028	3,992,044	9,157,148
	Sum of NumberBypassed	10,825	260,655	26,286	490	437,661	735,917
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	17	425	9	8	43	502
	Sum of FacilityMorts	528	12,492	1,073	153	4,873	19,119
	Sum of ResearchMorts	0	37	0	0	1	38
	Sum of TotalProjectMorts	545	12,954	1,082	161	4,917	19,659
LGS	Sum of NumberCollected	146,053	1,784,549	72,865	4,222	1,715,078	3,722,767
	Sum of NumberBarged	100,350	1,389,323	42,030	3,434	1,154,407	2,689,544
	Sum of NumberBypassed	45,684	390,961	30,825	736	554,331	1,022,537
	Sum of NumberTrucked	4	223	0	27	291	545
	Sum of SampleMorts	0	86	8	2	49	145
	Sum of FacilityMorts	15	3,951	2	23	6,000	9,991
	Sum of ResearchMorts	0	6	0	0	0	6
	Sum of TotalProjectMorts	15	4,043	10	25	6,049	10,142
LMN	Sum of NumberCollected	550	445,097	3,050	1,560	255,287	705,544
	Sum of NumberBarged	450	324,208	1,049	1,390	136,784	463,881
	Sum of NumberBypassed	100	107,896	2,000	99	116,121	226,216
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	0	31	0	3	15	49
	Sum of FacilityMorts	0	250	1	8	132	391
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	281	1	11	147	440
MCN	Sum of NumberCollected	5,951	277,099	12,716	7,296	41,328	344,390
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	5,941	276,818	12,710	7,284	41,288	344,041
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	9	38	1	1	3	52
	Sum of FacilityMorts	1	188	2	6	36	233
	Sum of ResearchMorts	0	55	3	5	1	64
	Sum of TotalProjectMorts	10	281	6	12	40	349
Total Sum of NumberCollected		202,253	7,728,482	299,776	19,244	6,489,330	14,739,085
Total Sum of NumberBarged		138,725	6,652,776	225,985	9,852	5,283,235	12,310,573
Total Sum of NumberBypassed		62,550	1,036,330	71,821	8,609	1,149,401	2,328,711
Total Sum of NumberTrucked		408	21,818	871	574	45,541	69,212
Total Sum of SampleMorts		26	580	18	14	110	748
Total Sum of FacilityMorts		544	16,881	1,078	190	11,041	29,734
Total Sum of ResearchMorts		0	98	3	5	2	108
Total Sum of TotalProjectMorts		570	17,559	1,099	209	11,153	30,590

Cumulative Adult Passage at Mainstem Dams Through: 05/12

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	54,313	1,111	141,421	4,272	125,647	4,970	0	0	0	0	0	0	0	0	0	0	0	0
TDA	40,889	683	103,874	3,330	79,842	2,836	0	0	0	0	0	0	0	0	0	0	0	0
JDA	32,456	624	88,937	2,680	63,690	1,978	0	0	0	0	0	0	0	0	0	0	0	0
MCN	28,935	607	82,005	2,573	54,877	1,583	0	0	0	0	0	0	0	0	0	0	0	0
IHR	13,729	139	55,973	1,350	34,935	916	0	0	0	0	0	0	0	0	0	0	0	0
LMN	11,979	132	50,376	888	31,572	741	0	0	0	0	0	0	0	0	0	0	0	0
LGS	9,162	51	41,321	557	28,651	657	0	0	0	0	0	0	0	0	0	0	0	0
LWG	8,191	57	44,505	632	26,995	532	0	0	0	0	0	0	0	0	0	0	0	0
PRD	6,025	11	8,772	47	10,641	34	0	0	0	0	0	0	0	0	0	0	0	0
RIS	1,694	8	3,816	11	5,090	41	0	0	0	0	0	0	0	0	0	0	0	0
RRH	559	1	1,515	13	1,629	2	0	0	0	0	0	0	0	0	0	0	0	0
WEL	40	0	671	1	558	1	0	0	0	0	0	0	0	0	0	0	0	0
WFA	17,386	416	50,806	210	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		10-Yr Avg.			10-Yr Avg.			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	0	0	0	0	0	0	2	0	0	1,534	3,819	2,918	509
TDA	-1	1	0	0	0	0	0	0	0	685	1,259	908	377
JDA	3	-14	0	0	0	0	0	0	0	978	1,581	2,958	528
MCN	0	0	0	0	0	0	0	0	0	871	1,270	1,411	385
IHR	0	0	0	0	0	0	0	0	0	1,247	1,742	1,554	649
LMN	0	0	2	0	0	0	0	0	0	954	1,534	1,633	461
LGS	0	0	0	0	0	0	0	0	0	962	1,861	1,920	477
LWG	0	0	0	0	0	0	0	0	0	4,719	7,558	6,167	1,549
PRD	0	0	0	0	0	0	2	0	0	9	22	1	n/a
RIS	2	0	0	0	0	0	1	0	0	41	69	24	35
RRH	0	0	0	0	0	0	0	0	0	326	240	72	314
WEL	0	0	0	0	0	0	0	0	0	40	55	13	34
WFA	0	0	0	0	n/a	n/a	0	0	n/a	7,751	19,900	n/a	n/a

RIS, RRH, WEL are through 05/10.

WFA is through 05/07.

*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: 05/13/05

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

