Fish Passage Center

Weekly Report #05 - 9

May 6, 2005

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Highlights:

• Since April 3rd, 2005, flows at Lower Granite have averaged 43.8 Kcfs; the flow objective will be 85 Kcfs at Lower Granite through June 20th. On 5-6-05 flows at Lower Granite Dam increased to 60.4 Kcfs

• On May 3, 2005 SOR 2005-9 was submitted to the Action Agencies requesting that outflows from Dworshak be increased to near 14 Kcfs to improve migration conditions in the Lower Snake River.

• Flows at McNary Dam have averaged 149.5 Kcfs since April 10th and flows at Priest Rapids have averaged 96.5 Kcfs. The flow objectives at McNary and Priest Rapids are 220 Kcfs and 135 Kcfs, respectively.

• On May 3rd, 2005 the salmon managers submitted SOR 2005-10, which asked the operators to provide flows of 135 Kcfs at Priest Rapids Dam in May.

• Spill at Bonneville Dam continues to be curtailed based on TDG readings at the Camas/ Washougal gas monitor. Spill is currently only 65 Kcfs.

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

Location	Water Year 2005 April 1-25		Water Year 2005 October 1, 2004 to April 25, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.32	96	12.98	83
Snake River Above Ice Harbor	1.44	118	9.51	83
Columbia Above The Dalles	1.49	109	12.26	78
Kootenai	1.18	81	12.46	78
Clark Fork	1.31	127	6.74	67
Flathead	1.59	120	12.36	92
Pend Oreille/Spokane	1.77	94	18.21	83
Central Washington	0.49	93	4.05	63
Snake River Plain	1.38	160	6.56	94
Salmon/Boise/ Payette	1.19	89	9.68	69
Clearwater	2.93	132	16.09	77
SW Washington Cascades/Cowlitz	4.94	111	38.83	67
Willamette Valley	4.20	104	30.02	61

Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has been near or above average in April. Of the sites in Table 1, eight recorded precipitation that was greater than average over April. Over the entire water year, precipitation remains below average.

Average snowpack in the Columbia River for basins above the Snake River confluence is 42% of average, for Snake River Basins the average snowpack is 62% of average, and for lower Columbia Basins between McNary and Bonneville dams average snowpack 7% of average.

Water Supply Forecasts have held steady between the April Final and May Early-Bird Forecasts. Table 2 displays the April Final and May Early Bird 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 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.

	April Final		May Early-Bird		Actual 2001
Location	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)	Actual Runoff Volume (Kaf)
The Dalles (Jan-July)	69	73800	69	74200	58200
Grand Coulee (Jan-July)	83	52200	83	52500	37400
Libby Res. Inflow, MT (Jan-July)	79	4990	79	4980	3341
Hungry Horse Res. Inflow, MT (Jan-July)	71	1580	72	1610	1300
Lower Granite Res. Inflow (Apr- July)	52	11100	52	11100	10300
Brownlee Res. Inflow (Apr-July)	35	2180	34	2150	1970*
Dworshak Res. Inflow (Apr-July)	58	1530	59	1550	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 43.8 Kcfs. On May 3, 2005 SOR 2005-9 was submitted to the Action Agencies requesting that outflows from Dworshak be increased to near 14 Kcfs to improve migration conditions in the Lower Snake River. On 5-6-05 flows at Lower Granite Dam increased to 60.4 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 149.5 Kcfs since April 10th and flows at Priest Rapids have averaged 96.5 Kcfs. On May 3rd, 2005 the salmon managers submitted SOR 2005-10, which asked the operators to provide flows of 135 Kcfs at Priest Rapids Dam in May.

Grand Coulee Reservoir is currently at an elevation of 1253.8 feet (May 5th, 2005 midnight) and has drafted approximately one foot over the last week.

The Libby Reservoir is currently at elevation 2421.1 feet and has refilled 2.5 feet over the last week. Outflows at Libby continue to be 4.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3546.0 feet and has drafted approximately 1.1 feet last week. Outflows at Hungry Horse have decreased from approximately 7.2 Kcfs to 6.1 Kcfs.

The Dworshak reservoir is currently at an elevation of 1592.9 feet and refilled 1.2 feet last week. Outflows at Dworshak have increased to a current discharge of 14 Kcfs (May 6th, 2005 8am) in response to SOR 2005-9.

The Brownlee Reservoir was at an elevation of 2074.7 on May 5th, 2005 with outflows ranging between 9.0 and 14.4 Kcfs over the last week.

Spill: There will be no spill at the Snake River transport collector projects in 2005 due to low flows. Dworshak Dam outflow has been increased to augment flow in the Snake River. Spill to the 110% gas standard is expected to occur over the next week. Some spill occurred at Lower Granite Dam on April 30 and May 2 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 62% of daily average flows over the past 7 days and ranged from 33% to 84%.

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 less (39%) than the 40% specified in the Biological Opinion. Spill at McNary Dam averaged 37% of daily average flow and spill at John Day Dam averaged 28% of daily average flow. Spill at both McNary and John Day dams are called for during nighttime hours. Spill at Bonneville Dam continues to be restricted based on TDG readings at the Camas/Washougal monitor, decreasing through the week to just 65 Kcfs. The TDG levels at the Camas/Washougal station have consistently exceeded TDG levels at the new Cascade Island gage in the Bonneville tailwater, illustrating the poor relation between spill levels at Bonneville Dam and total dissolved gas readings at Camas/Washougal. These data question the use of Camas/Washougal as an adequate management location for controlling spill at Bonneville Dam.

A few fish with minor signs of gas bubble trauma have been observed at Rock Island Dam, but no fish with signs of GBT have been detected at the Lower Columbia River sampling sites.

Smolt Monitoring: Yearling chinook and steelhead are being captured in relatively large numbers at most Snake River Basin SMP traps and at Lower Snake and Lower Columbia River dams as well. At McNary Dam there have been large increases in yearling chinook, coho, sockeye, and subyearling chinook indices this past week. Indices for spring migrants also increased substantially at John Day Dam in the past week.

At the Salmon River Trap, near White Bird, average daily collection of yearling chinook dropped to 400 this week compared to 1,400 per day last week. On the other hand, steelhead numbers nearly doubled from 120 per day to 210 this week. Flows in the Salmon River dipped lower in the middle of the sampling week to 12 Kcfs on May 2 but rose up to 16 Kcfs by this morning, which is still below median daily flow (20 Kcfs) for this time of year (based on 92 years of data). In the Grande Ronde, flows also fell to a low of 3.5 Kcfs on May 2 only to rise to 4.5 Kcfs on the 6th, but remained well below average by about 3 Kcfs. The catch of yearling chinook averaged 65 fish per day at the Grande Ronde Trap while steelhead catch averaged about 50. The Imnaha Trap captured higher numbers of yearling chinook and steelhead this week than last as flows rose to 1.7 Kcfs, which is above median for this time of year. The trap averaged 140 yearling chinook and 770 steelhead per day this past week. Traps had not been fished full time the previous week due to low flows and then experienced debris problems when flows increased so that fish capture had been hampered.

At the Snake River Trap at Lewiston, the catch of steelhead dropped rapidly this past week to 40 fish per day after averaging 200 per day last week. Yearling chinook catch remained relatively low at about 10 fish per day. Discharge increased to nearly 40 Kcfs by May 6, which is still 10 to 12 Kcfs below normal levels as measured at the Anatone gage. Normally flows average about 52 Kcfs 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 270,000 this week compared to 118,000

last week while steelhead indices averaged 176,000 this week compared to 88,000 last week. The indices for both species dropped off mid-week as flows declined to less than 50 Kcfs May 2 through 4. But indices jumped back up on May 5 as flows increased to 60 Kcfs with increased discharge from Dworshak and the Snake River appearing to move fish down. With some spill occurring a few days this week at Lower Granite there were increased migrants reaching Little Goose Dam. Yearling chinook indices averaged 34,000 per day this past week while steelhead were at 21,000. At Lower Monumental Dam larger numbers of steelhead have been collected this past week while yearling chinook indices were down from the previous week.

In the Mid-Columbia, Rock Island Dam, indices for yearling chinook, steelhead and coho rose rapidly this past week. Yearling chinook indices averaged 310 per day compared to 210 per day last week. Steelhead averaged 360 per day this week compared to 40 last week, while coho were up to 150 per day this week compared to 10 per day last week. Small numbers of sockeye and 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 21,000 per day compared to 8,000 last week, while steelhead averaged 2,800 per day this week compared to 2,000 per day the previous week. The coho indices averaged 2,700 per day this week compared to 240 per day last week. Sockeye and subyearling chinook indices also increased rapidly over the week.

John Day Dam saw large increases in yearling chinook, coho and steelhead indices this past week. Yearling chinook indices averaged 30,000 per day this week compared to 20,000 per day last week, while steelhead and coho averaged 2,800 and 2,700 this week respectively compared to 1,600 and 500 per day last week.

At Bonneville Dam, yearling chinook indices remained steady at 41,000 per day, while coho indices rose to 18,000 per day average this week while steelhead indices increased to 4,000 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.

Hatchery Releases - Releases of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam are still estimated near 83.3 million for the 2005 migration season. Supplemental and planned releases of spring/summer chinook 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

	Thursday 05-May-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,643,200	12,656,000	21,570,954	38,870,154
Spring Chinook	9,046,852	4,690,296	5,094,109	18,831,257
Summer Chinook	2,348,012	3,454,500		5,802,512
Coho	825,000	2,448,119	5,149,446	8,422,565
Sockeye	210,716	240,459		451,175
Summer Steelhead	9,023,108	1,249,235	522,207	10,794,550
Winter Steelhead			118,300	118,300
Total	26,096,888	24,738,609	32,455,016	83,290,513

Hatcheries in the Columbia/Snake River basin released about 14.9 million fish during the past two weeks with approximately 10.3 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. Yearling spring/summer Chinook from hatcheries are in-river and migrating downstream to the Snake River on their way to the ocean. In all, about 9.4 million spring/summer Chinook and about 1-million yearling fall Chinook have been released in the Snake River basin this spring.

About 825,000 yearling Coho salmon are scheduled for release in the Clearwater River basin; the majority already released for the 2005 season.

Approximately 9.0 million hatchery Steelhead have been scheduled for release in the Snake River basin. B-Run Steelhead releases in the Clearwater River basin are completed for the year. Steelhead releases in the Salmon River basin are also nearing completion with the bulk of fish planted 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 greater than 95% of the fish in-river through this week.. 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 Columbia, and Wenatchee Rivers during the past week or two.

About 2.4 million yearling Coho salmon will be released in the Wenatchee River basin, Methow River basin and the Yakima River basin, mostly from Tribal acclimation facilities. The majority of these Coho should be in-river by the first week in May. Steelhead releases are on-going from Wells Hatchery to the Methow and Okanogan rivers with steelhead from Turtle Rock beginning on May 2nd. The Steelhead releases should be completed by mid-May.

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. All yearling Chinook and Coho have been planted in the Umatilla River. About 600,000 yearling spring Chinook were released from Klickitat Hatchery in March with Warm Springs NFH completing their volitional release of Chinook in the Deschutes River basin by early April. Volitional release of spring Chinook was completed in the Hood River as well. Another 2+ million yearling spring Chinook were released from Carson NFH and Little White Salmon River NFH during the past two weeks. 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 in early May with the fish in-river by late May. Juvenile Steelhead releases into the Umatilla River were completed this past week with other river systems already planted or soon to be planted. The lower Columbia will have summer and winter Steelhead released each year.

All Tule fall Chinook have been released for the year with the first release of subyearling fall chinook from the Umatilla River scheduled for next 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 will also begin their migration in the spring, usually late April and May from the lakes. A release of juvenile sockeye from the Canadian fisheries into the Okanogan River basin above Lake Osoyoos has been completed but final information will be forthcoming on that release group at a later date.

Adult Fish Passage -At Bonneville Dam, adult spring Chinook counts averaged 3,099 fish/day through the week ending May 5. The 2005 count of adult Chinook is now 47,999, about 37.4% and 43.2% of the respective 2004 and 10-year average. The peak daily count was 6,065 on May 5, the final day of the counting week. PIT tag detections at Bonneville Dam show the marked fish are destined to most basins in the Columbia including the Snake River basin, the upper Mid-Columbia, the Yakima River basin, the Umatilla River basin, the Walla Walla River, the John Day River, and from

the Wind River in the lower Columbia. As a point of interest, PIT tagged "summer Chinook" from the S. Fork Salmon River were present in this week's passage at the project. Some river systems have minimal or no PIT tagged fish so it is not possible to assess passage in those river basins. During the next couple weeks, the Bonneville counts should begin to see an increase in counts of jack Chinook salmon (normal for May counts). Through May 5, jack Chinook counts were 27.7% and 21.3% of the respective 2004 and 10-year average.

The adult spring Chinook continue moving upstream with 31,623 counted at The Dalles Dam, or 65.9% of the total past Bonneville Dam. Approximately 17,200 have been counted at McNary Dam with 6,700 into the Snake River and 2,500 into the upper Mid-Columbia (Priest Rapids count).

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 4,661 through May 5, less than 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.

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

	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/22/05	84.0	0.0	87.5	0.0	94.2	8.4	92.2	0.0	95.6	21.3	111.8	21.0	103.2	64.1
04/23/05	79.5	0.0	85.0	0.0	89.1	7.8	88.0	0.0	93.0	15.0	90.6	20.6	84.5	52.4
04/24/05	63.1	0.0	63.0	0.0	68.9	6.5	69.9	0.0	76.1	15.2	73.5	21.9	80.8	49.8
04/25/05	100.8	0.0	101.0	0.0	105.1	8.4	99.8	0.0	105.5	22.6	107.1	22.0	100.4	62.1
04/26/05	107.4	0.0	106.0	0.0	114.3	8.3	107.7	0.0	115.5	23.1	118.6	21.8	120.7	74.5
04/27/05	80.2	0.0	87.1	0.0	103.2	8.6	104.4	0.0	112.6	25.3	124.0	21.6	127.1	78.2
04/28/05	82.9	0.0	86.7	0.0	98.6	8.4	96.9	0.0	102.5	25.2	112.6	20.4	119.5	73.8
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

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

	Dworshak		Brownlee	Hells Canyon	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
Date	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/22/05	5.4	0.0	11.0	11.6	39.6	0.0	39.4	0.0	39.7	0.0	41.6	33.2
04/23/05	5.4	0.0	13.6	11.4	39.8	0.0	40.8	0.0	40.4	0.0	43.3	35.8
04/24/05	5.4	0.0	12.7	11.2	41.9	0.0	41.3	0.0	40.4	0.0	41.5	34.4
04/25/05	8.1	0.0	13.8	11.4	45.9	0.0	46.4	0.0	47.2	0.0	49.6	41.8
04/26/05	5.4	0.0	12.8	11.3	47.9	0.0	49.7	0.0	51.1	0.0	53.8	39.0
04/27/05	5.3	0.0	14.2	11.4	52.7	0.0	53.0	0.0	54.2	0.0	54.3	18.4
04/28/05	5.3	0.0	14.0	10.9	55.1	0.0	54.9	0.0	55.7	0.0	55.6	18.2
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	12.7	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	13.3	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	---	---	60.4	0.0	60.5	0.0	62.4	2.4	62.0	23.1

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

	McNary		John Day		The Dalles		Bonneville			
Date	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
04/22/05	160.8	64.9	166.4	56.2	165.0	65.4	175.6	74.9	0.0	89.2
04/23/05	145.0	45.2	140.5	42.3	140.5	54.3	150.5	75.0	0.0	64.0
04/24/05	121.8	30.8	119.7	32.9	124.2	47.7	143.5	75.0	0.0	57.0
04/25/05	138.0	75.0	132.0	32.8	127.5	49.8	129.1	76.2	0.0	41.4
04/26/05	183.8	84.0	183.1	46.9	178.2	63.3	180.4	80.0	0.0	88.9
04/27/05	181.1	81.7	175.3	43.8	176.5	63.9	193.3	80.7	0.0	101.0
04/28/05	195.8	85.1	189.9	54.5	191.7	66.9	202.0	78.8	6.0	105.7
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

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											
	04/28/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/02/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	04/26/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/30/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	05/03/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	04/28/05	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	05/02/05	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0
	05/05/05	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 4/22/2005 to 05/05/05

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	30,100	04-26-05	04-26-05	Valley Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	190,451	04-26-05	04-26-05	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Oxbow-Idaho	CH0	FA	2005	200,000	05-01-05	05-13-05	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2005	40,000	05-05-05	05-09-05	Redfish Lake Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2005	40,000	05-05-05	05-09-05	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					**500,551**				
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 Total					**1,238,300**				
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	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	100,000	05-04-05	05-06-05	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	747,462	04-11-05	04-29-05	Sawtooth Hatchery	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	Winthrop NFH	ST	SU	2005	110,000	04-07-05	04-29-05	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					**4,226,189**				
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	54,252	04-22-05	04-28-05	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	101,446	04-22-05	04-28-05	Thornhollow Acclim Pond	Umatilla River
Umatilla Tribe Total					**155,698**				
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	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	CH1	SU	2005	690,000	04-25-05	04-25-05	Dryden Acclim Pond	Wenatchee 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	CH0	SP	2005	250,000	05-02-05	05-06-05	Upper Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CO	NO	2005	1,000,000	05-01-05	05-20-05	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	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	10,000	04-29-05	04-29-05	Omak Creek	Okanogan 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	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					**5,285,308**				

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 4/22/2005 to 05/05/05

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
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	Prosser Acclim. Pond	CH0	FA	2005	415,000	04-11-05	05-10-05	Prosser Acclim Pond	Yakama River
Yakama Tribe	Winthrop NFH	CO	UN	2005	282,000	04-19-05	04-29-05	Winthrop Hatchery	Methow 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					**2,298,975**				
Grand Total					**14,850,473**				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 5/6/2005 to 5/19/2005

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Oxbow-Idaho	CH0	FA	2005	200,000	05-01-05	05-13-05	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2005	40,000	05-05-05	05-09-05	Redfish Lake Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2005	40,000	05-05-05	05-09-05	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					**280,000**				
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 Total					**1,238,300**				
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	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					**770,152**				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	100,000	05-04-05	05-06-05	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	140,000	05-09-05	05-11-05	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service Total					**240,000**				
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	4,500	05-06-05	05-06-05	Nason Creek	Wenatchee River
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	250,000	05-02-05	05-06-05	Upper Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CO	NO	2005	1,000,000	05-01-05	05-20-05	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	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	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					**4,068,500**				
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	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					**10,313,927**				

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

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/22	---	---	---	0	106	107	107	24	106	107	108	24	105	105	106	24	106	107	107	24
4/23	---	---	---	0	107	108	108	24	108	108	110	24	106	107	108	24	106	107	107	24
4/24	---	---	---	0	106	107	108	24	108	108	109	24	106	107	108	23	107	107	108	24
4/25	---	---	---	0	109	112	116	24	107	108	108	24	105	106	107	24	106	107	107	24
4/26	---	---	---	0	109	111	111	24	108	108	109	24	106	106	108	24	107	107	108	24
4/27	---	---	---	0	110	111	112	24	110	112	112	24	106	107	108	24	107	108	108	24
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/22	107	108	108	24	107	108	109	24	108	109	109	24	108	109	110	24	109	110	110	24
4/23	107	108	109	24	107	108	108	24	109	109	109	24	110	110	111	24	110	111	111	24
4/24	108	108	109	24	107	108	109	24	109	109	110	24	110	110	111	24	110	111	111	24
4/25	106	107	108	24	107	108	108	22	109	109	109	22	110	110	110	24	110	110	111	24
4/26	107	108	109	24	107	107	108	24	108	109	109	24	110	111	111	24	111	111	112	24
4/27	109	109	110	23	107	107	107	24	108	109	109	24	110	111	111	24	111	111	111	24
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

Total Dissolved Gas Saturation at Mid Columbia River Sites

	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		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/22	108	109	110	24	114	115	117	24	---	---	---	0	---	---	---	0	---	---	---	0
4/23	109	109	110	24	113	114	115	24	---	---	---	0	---	---	---	0	---	---	---	0
4/24	109	109	110	24	114	115	116	24	---	---	---	0	---	---	---	0	---	---	---	0
4/25	109	110	110	24	115	117	119	24	---	---	---	0	---	---	---	0	---	---	---	0
4/26	109	110	111	24	115	117	118	24	---	---	---	0	---	---	---	0	---	---	---	0
4/27	109	110	110	24	115	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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	---	---	---	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

	Priest R. Dnst				Pasco				Dworshak				Clrwtr-Peck				Anatone			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/22	---	---	---	0	111	114	115	24	104	112	118	24	100	102	102	24	103	104	105	24
4/23	---	---	---	0	113	114	114	24	96	97	98	24	100	100	101	24	102	103	104	24
4/24	---	---	---	0	110	111	111	24	97	97	98	24	100	102	102	24	102	103	105	24
4/25	---	---	---	0	109	110	110	24	97	98	98	24	100	101	102	24	103	105	123	24
4/26	---	---	---	0	111	113	114	24	97	97	98	24	---	---	---	0	102	103	104	23
4/27	---	---	---	0	113	113	114	24	96	97	98	24	100	100	100	24	101	101	102	24
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

Total Dissolved Gas Saturation Data at Snake River Sites

	Clrwtr-Lewiston				Lower Granite				L. Granite Tlwr				Little Goose				L. Goose Tlwr			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/22	101	101	101	2	103	104	105	24	102	102	104	24	102	102	104	23	101	102	102	23
4/23	101	101	101	1	103	103	104	24	102	102	103	24	104	104	105	24	102	103	103	24
4/24	101	101	102	3	102	102	103	24	102	102	102	24	103	104	104	24	102	103	104	24
4/25	102	102	105	13	103	104	104	24	102	102	102	24	103	103	104	24	102	103	103	24
4/26	102	104	105	24	106	108	108	24	103	104	105	24	104	104	105	24	103	103	104	24
4/27	101	101	103	24	105	106	108	24	103	103	104	24	104	104	105	24	103	104	104	24
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

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

	Lower Mon.				L. Mon. Tlwr				Ice Harbor				Ice Harbor Tlwr				McNary-Oregon			
	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#	24 h	12 h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/22	101	102	103	24	102	102	103	24	103	104	105	24	114	114	115	24	108	110	110	24
4/23	102	102	103	24	103	103	104	24	104	104	105	24	115	116	118	24	110	110	111	24
4/24	102	102	103	24	102	103	104	24	104	104	104	24	114	115	115	24	110	112	113	24
4/25	102	102	102	24	102	103	104	24	103	103	103	24	114	115	116	24	112	115	117	24
4/26	102	103	104	24	103	103	104	24	103	104	104	24	115	116	116	24	115	118	124	24
4/27	104	104	105	24	104	104	106	24	104	104	104	24	112	113	115	24	113	113	114	24
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

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

	McNary-Wash				McNary Tlwr				John Day				John Day Tlwr				The Dalles			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
4/22	110	111	112	24	113	116	117	24	107	108	109	24	112	118	119	24	110	112	115	24
4/23	110	110	111	24	113	116	117	24	108	108	108	23	113	119	119	24	111	114	116	23
4/24	109	109	109	24	111	114	116	24	107	107	107	23	112	117	119	24	110	112	113	23
4/25	112	113	114	24	115	116	117	24	106	107	107	23	111	116	119	24	110	112	113	23
4/26	114	115	115	24	116	117	117	24	107	108	109	24	113	118	119	24	109	111	115	24
4/27	113	113	114	24	116	117	117	24	109	109	110	23	113	118	119	24	111	113	114	23
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

	The Dalles Dnst				Bonneville				Warrendale				Camas\Washugal				Cascade Island			
	24 h	12 h		#	24 h	12 h		#	24h	12h		#	24h	12h		#	24h	12h		#
Date	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
4/22	115	115	116	24	109	110	111	24	114	115	115	24	113	113	114	24	114	114	115	24
4/23	116	118	118	24	111	111	112	23	115	115	116	23	110	111	113	24	114	114	115	17
4/24	115	116	116	24	111	112	112	23	115	116	116	23	113	113	114	20	114	115	115	17
4/25	114	116	117	24	111	111	111	23	116	116	117	19	113	114	115	24	114	115	115	17
4/26	114	115	117	24	110	110	111	24	114	115	116	20	115	116	117	24	115	115	116	24
4/27	116	117	117	24	111	112	113	23	115	115	116	23	113	115	116	24	115	115	116	17
4/28	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
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

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)
04/22/2005	*	222	131	7	9	77,800	1,612	17,800	127	---	11,937	40,329
04/23/2005	*	143	71	23	8	62,389	3,364	25,800	136	5,025	17,798	33,653
04/24/2005	*	713	135	20	5	51,045	5,070	18,421	67	---	15,596	29,089
04/25/2005		1,544	79	31	8	55,500	7,281	10,076	227	7,911	15,210	31,621
04/26/2005	*	3,383	62	179	4	87,000	7,540	12,900	67	---	10,059	34,071
04/27/2005	*	2,457	---	239	16	190,597	11,563	11,850	476	11,173	23,202	59,410
04/28/2005	*	---	---	247	25	304,328	22,553	15,500	397	---	48,534	55,604
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	---	21	4	129,600	48,243	9,025	364	---	11,812	24,245
05/05/2005		274	---	28	15	311,000	71,954	12,740	353	65,375	18,089	23,716
Total:		**10,955**	**1,035**	**1,202**	**168**	**2,677,443**	**384,034**	**196,903**	**3,515**	**161,680**	**311,566**	**505,467**
# Days:		**12**	**9**	**14**	**14**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**913**	**115**	**86**	**12**	**191,246**	**27,431**	**14,065**	**251**	**23,097**	**22,255**	**36,105**
YTD		**42,995**	**41,669**	**5,094**	**454**	**3,059,121**	**392,929**	**309,253**	**5,992**	**179,948**	**404,753**	**724,033**

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)
04/22/2005	*	0	0	3	2	200	0	0	10	---	0	4,305
04/23/2005	*	0	2	9	1	299	4	0	5	89	0	2,612
04/24/2005	*	0	0	10	1	896	0	0	2	---	0	1,355
04/25/2005		0	0	46	1	300	0	0	3	72	0	1,391
04/26/2005	*	0	0	25	2	0	0	0	20	---	0	2,049
04/27/2005	*	0	---	40	4	0	0	0	17	143	0	2,669
04/28/2005	*	---	---	12	1	149	0	0	44	---	92	1,748
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	---	96	8	0	100	0	17	---	23	7,485
05/05/2005		0	---	59	9	600	306	0	5	1,156	21	6,463
Total:		**0**	**10**	**517**	**125**	**2,866**	**410**	**208**	**197**	**1,908**	**547**	**244,421**
# Days:		**12**	**9**	**14**	**14**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**1**	**37**	**9**	**205**	**29**	**15**	**14**	**273**	**39**	**17,459**
YTD		**0**	**73**	**548**	**273**	**5,721**	**414**	**258**	**1,284**	**2,288**	**599**	**1,561,000**

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)
04/22/2005	*	0	0	0	2	600	144	0	1	---	219	10,240
04/23/2005	*	0	0	0	1	1,344	276	0	9	228	296	12,165
04/24/2005	*	0	0	0	2	895	190	0	6	---	232	14,805
04/25/2005		0	0	0	0	200	140	0	10	158	126	11,257
04/26/2005	*	0	0	0	1	600	20	0	12	---	71	11,912
04/27/2005	*	0	---	0	10	1,940	61	0	24	333	695	21,698
04/28/2005	*	---	---	0	0	3,582	400	0	22	---	1,787	25,486
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	1,400	0	0	263	---	2,388	14,768
05/05/2005		0	---	0	0	3,000	561	209	285	2,797	4,554	14,797
Total:		**0**	**0**	**0**	**21**	**43,366**	**3,194**	**675**	**1,163**	**11,484**	**23,017**	**231,934**
# Days:		**12**	**9**	**14**	**14**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**0**	**0**	**2**	**3,098**	**228**	**48**	**83**	**1,641**	**1,644**	**16,567**
YTD		**0**	**0**	**0**	**68**	**47,950**	**3,617**	**675**	**1,218**	**12,025**	**23,583**	**307,258**

				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)
04/22/2005	*	40	230	5	34	53,600	1,296	1,650	10	---	2,448	535
04/23/2005	*	36	165	12	253	49,851	1,925	1,150	20	2,120	2,114	1,049
04/24/2005	*	68	447	18	33	60,895	4,580	2,105	10	---	1,478	1,355
04/25/2005		105	378	10	368	74,300	4,282	1,052	26	1,238	535	2,277
04/26/2005	*	193	768	35	305	108,000	3,411	1,100	23	---	642	1,921
04/27/2005	*	281	---	85	333	117,611	6,220	1,600	80	2,829	1,096	1,397
04/28/2005	*	---	---	177	161	151,642	11,952	5,350	96	---	2,658	1,019
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	---	22	21	59,400	17,093	2,624	455	---	4,766	5,909
05/05/2005		212	---	39	66	117,600	31,257	5,639	425	4,438	3,846	3,233
Total:		**1,988**	**5,061**	**687**	**1,753**	**1,850,639**	**179,636**	**49,758**	**2,818**	**17,560**	**75,662**	**39,239**
# Days:		**12**	**9**	**14**	**14**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**166**	**562**	**49**	**125**	**132,189**	**12,831**	**3,554**	**201**	**2,509**	**5,404**	**2,803**
YTD		**2,736**	**28,383**	**1,224**	**2,705**	**2,072,977**	**189,098**	**103,688**	**2,905**	**35,474**	**83,966**	**54,687**

Two-Week Summary of Passage Indices

				COMBINED SOCKEYE								
		WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date		(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
04/22/2005	*	0	0	0	0	0	52	0	0	---	16	49
04/23/2005	*	0	0	0	0	0	40	0	0	67	0	0
04/24/2005	*	0	0	0	0	149	40	0	5	---	0	0
04/25/2005		0	0	0	0	100	140	0	37	72	0	0
04/26/2005	*	0	0	0	0	300	220	0	11	---	0	128
04/27/2005	*	0	---	0	0	0	170	50	41	105	0	0
04/28/2005	*	---	---	0	0	0	251	200	48	---	0	0
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	120	0	6	---	151	0
05/05/2005		0	---	0	0	0	420	209	3	1,755	196	39
Total:		**0**	**0**	**0**	**0**	**967**	**1,956**	**1,017**	**203**	**4,053**	**693**	**280**
# Days:		**12**	**9**	**14**	**14**	**14**	**14**	**14**	**14**	**7**	**14**	**14**
Average:		**0**	**0**	**0**	**0**	**69**	**140**	**73**	**15**	**579**	**50**	**20**
YTD		**0**	**0**	**0**	**1**	**2,784**	**2,361**	**1,277**	**276**	**4,104**	**727**	**351**

* 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: 5/6/05 9:27 AM

04/23/05 TO 05/06/05

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	2,844	2,651,459	42,761	949	1,827,699	4,525,712
	Sum of NumberBarged	2,792	2,618,017	42,187	879	1,805,152	4,469,027
	Sum of NumberBypassed	99	98,841	887	107	56,068	156,002
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	152	0	0	23	175
	Sum of FacilityMorts	2	4,176	36	13	275	4,502
	Sum of ResearchMorts	0	16	0	0	1	17
	Sum of TotalProjectMorts	2	4,344	36	13	299	4,694
LGS	Sum of NumberCollected	410	384,034	3,194	1,956	179,636	569,230
	Sum of NumberBarged	403	383,330	3,310	1,994	179,867	568,904
	Sum of NumberBypassed	0	1,972	0	0	621	2,593
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	24	2	0	10	36
	Sum of FacilityMorts	7	163	1	13	202	386
	Sum of ResearchMorts	0	4	0	0	0	4
	Sum of TotalProjectMorts	7	191	3	13	212	426
LMN	Sum of NumberCollected	200	195,297	650	1,000	49,107	246,254
	Sum of NumberBarged	200	204,248	650	1,042	50,965	257,105
	Sum of NumberBypassed	0	125	0	0	40	165
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	15	0	3	4	22
	Sum of FacilityMorts	0	97	0	5	46	148
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	112	0	8	50	170
MCN	Sum of NumberCollected	1,088	96,498	7,050	2,418	10,388	117,442
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,086	96,350	7,046	2,412	10,379	117,273
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	2	14	1	1	1	19
	Sum of FacilityMorts	0	94	0	2	8	104
	Sum of ResearchMorts	0	41	3	3	0	47
	Sum of TotalProjectMorts	2	149	4	6	9	170
Total Sum of NumberCollected		4,542	3,327,288	53,655	6,323	2,066,830	5,458,638
Total Sum of NumberBarged		3,395	3,205,595	46,147	3,915	2,035,984	5,295,036
Total Sum of NumberBypassed		1,185	197,288	7,933	2,519	67,108	276,033
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		2	205	3	4	38	252
Total Sum of FacilityMorts		9	4,530	37	33	531	5,140
Total Sum of ResearchMorts		0	61	3	3	1	68
Total Sum of TotalProjectMorts		11	4,796	43	40	570	5,460

YTD Transportation Summary

Source: Fish Passage Center Updated: 5/6/05 9:27 AM

TO: 05/06/05

		Species					
Site	Data	**CH0**	**CH1**	**CO**	**SO**	**ST**	**Grand Total**
LGR	Sum of NumberCollected	5,699	3,033,137	47,345	2,766	2,050,037	5,138,984
	Sum of NumberBarged	5,108	2,918,204	45,443	2,089	1,946,481	4,917,325
	Sum of NumberBypassed	170	100,807	979	125	60,173	162,254
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	7	259	0	8	26	300
	Sum of FacilityMorts	10	4,968	52	57	341	5,428
	Sum of ResearchMorts	0	16	0	0	1	17
	Sum of TotalProjectMorts	17	5,243	52	65	368	5,745
LGS	Sum of NumberCollected	414	392,929	3,617	2,361	189,098	588,419
	Sum of NumberBarged	403	390,384	3,609	2,310	187,947	584,653
	Sum of NumberBypassed	0	2,061	0	0	621	2,682
	Sum of NumberTrucked	4	223	0	27	291	545
	Sum of SampleMorts	0	43	7	2	15	67
	Sum of FacilityMorts	7	213	1	22	224	467
	Sum of ResearchMorts	0	6	0	0	0	6
	Sum of TotalProjectMorts	7	262	8	24	239	540
LMN	Sum of NumberCollected	250	307,647	650	1,260	103,037	412,844
	Sum of NumberBarged	250	294,583	650	1,191	100,662	397,336
	Sum of NumberBypassed	0	125	0	0	40	165
	Sum of NumberTrucked	0	12,712	0	60	2,235	15,007
	Sum of SampleMorts	0	26	0	3	14	43
	Sum of FacilityMorts	0	201	0	6	86	293
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	227	0	9	100	336
MCN	Sum of NumberCollected	1,448	112,293	7,495	2,474	25,026	148,736
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	1,443	112,114	7,491	2,467	25,003	148,518
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	5	28	1	1	3	38
	Sum of FacilityMorts	0	107	0	3	19	129
	Sum of ResearchMorts	0	45	3	3	1	52
	Sum of TotalProjectMorts	5	180	4	7	23	219
Total Sum of NumberCollected		7,811	3,846,006	59,107	8,861	2,367,198	6,288,983
Total Sum of NumberBarged		5,761	3,603,171	49,702	5,590	2,235,090	5,899,314
Total Sum of NumberBypassed		1,613	215,107	8,470	2,592	85,837	313,619
Total Sum of NumberTrucked		408	21,818	871	574	45,541	69,212
Total Sum of SampleMorts		12	356	8	14	58	448
Total Sum of FacilityMorts		17	5,489	53	88	670	6,317
Total Sum of ResearchMorts		0	67	3	3	2	75
Total Sum of TotalProjectMorts		29	5,912	64	105	730	6,840

Cumulative Adult Passage at Mainstem Dams Through: 05/05

	Spring Chinook						Summer Chinook						Fall Chinook					
	2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.		2005		2004		10-Yr Avg.	
DAM	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	47,999	558	128,483	2,017	111,232	2,621	0	0	0	0	0	0	0	0	0	0	0	0
TDA	31,623	176	90,831	1,453	68,277	1,258	0	0	0	0	0	0	0	0	0	0	0	0
JDA	21,516	136	74,817	912	52,641	844	0	0	0	0	0	0	0	0	0	0	0	0
MCN	17,177	137	64,566	1,061	42,538	676	0	0	0	0	0	0	0	0	0	0	0	0
IHR	6,725	22	46,068	656	27,487	382	0	0	0	0	0	0	0	0	0	0	0	0
LMN	5,442	36	39,788	306	24,038	256	0	0	0	0	0	0	0	0	0	0	0	0
LGS	3,399	1	31,604	150	20,595	238	0	0	0	0	0	0	0	0	0	0	0	0
LWG	1,952	2	31,316	200	19,069	154	0	0	0	0	0	0	0	0	0	0	0	0
PRD	2,508	3	6,721	5	7,109	4	0	0	0	0	0	0	0	0	0	0	0	0
RIS	42	0	2,356	0	2,830	8	0	0	0	0	0	0	0	0	0	0	0	0
RRH	10	0	476	1	747	1	0	0	0	0	0	0	0	0	0	0	0	0
WEL	0	0	18	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	14,665	291	42,571	137	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.				10-Yr			10-Yr	Wild
DAM	Adult	Jack	Adult	Jack	Adult	Jack	2005	2004	Avg.	2005	2004	Avg.	2005
BON	0	0	0	0	0	0	2	0	0	1,337	3,417	2,526	459
TDA	-1	0	0	0	0	0	0	0	0	632	1,133	839	351
JDA	3	-14	0	0	0	0	0	0	0	914	1,477	2,802	526
MCN	0	0	0	0	0	0	0	0	0	796	1,181	1,356	367
IHR	0	0	0	0	0	0	0	0	0	1,223	1,721	1,530	639
LMN	0	0	2	0	0	0	0	0	0	903	1,498	1,608	431
LGS	0	0	0	0	0	0	0	0	0	925	1,840	1,877	457
LWG	0	0	0	0	0	0	0	0	0	4,661	7,504	6,116	1,503
PRD	0	0	0	0	0	0	2	0	0	8	13	0	n/a
RIS	1	0	0	0	0	0	0	0	0	36	53	19	30
RRH	0	0	0	0	0	0	0	0	0	297	195	63	283
WEL	0	0	0	0	0	0	0	0	0	8	28	6	8
WFA	0	0	0	0	n/a	n/a	0	0	n/a	7,387	18,611	n/a	n/a

RIS, RRH, WFA are through 05/03.
WEL is through 05/02.
*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: 05/06/05

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