



Fish Passage Center

Weekly Report #05 - 8

April 29, 2005

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Highlights:

- Since April 3rd, 2005, flows at Lower Granite have averaged 41.3 Kcfs. The flow target is 85 Kcfs.
- Flows at McNary Dam have averaged 139.7 Kcfs since April 10th and flows at Priest Rapids have averaged 88.9 Kcfs. The flow targets at McNary and Priest Rapids are 220 and 135 kcfs, respectively.
- Spill at Bonneville Dam is being curtailed during nighttime hours based on TDG readings at Camas/Washougal.
- Yearling chinook and steelhead collection has increased rapidly over the past week at Lower Snake River and Lower Columbia River dams.

Summary of Events:

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.

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

Average snowpack in the Columbia River for basins above the Snake River confluence is 45% of average (down 11% since last week), for Snake River Basins the average snowpack is 67% of average (down 5% since last week), and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 17% of average (down 14% since last week).

Water Supply Forecasts have increased somewhat in response to late March and early April precipitation increasing between two and seven percent of average between the March Final and the April Final Forecasts. Table 2 displays the March Final and the April Final Forecasts 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. March Final and the April 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	March Final		April 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)	66	70700	69	73800	58200
Grand Coulee (Jan-July)	80	50500	83	52200	37400
Libby Res. Inflow, MT (Jan-July)	77	4860	79	4990	3341
Hungry Horse Res. Inflow, MT (Jan-July)	67	1480	71	1580	1300
Lower Granite Res. Inflow (Apr-July)	46	9960	52	11100	10300
Brownlee Res. Inflow (Apr-July)	28	1740	35	2180	1970*
Dworshak Res. Inflow (Apr-July)	56	1470	58	1630	1470

Snowmelt and recent rains have contributed to minor increases in flow throughout the Columbia Basin. Flows at Lower Granite are currently 56.2 Kcfs (4-28-05); flows at Lower Granite had previously been approximately 40 Kcfs. Flows at Priest Rapids are currently 119.5 Kcfs (4-28-05); flows at Priest Rapids had previously ranged between 70 and 113 Kcfs. Flows at McNary are currently 195.8 Kcfs (4-28-05); flows at McNary had previously ranged between 121 and 160 Kcfs.

Grand Coulee Reservoir is currently at an elevation of 1254.3 feet (April 28th 2005 midnight) and has refilled approximately 1.5 feet over the last week.

The Libby Reservoir is currently at elevation 2417.7 feet and has refilled 3.7 feet in the last week. Inflows at Libby have increased to 19.7 Kcfs; outflows at Libby continue to be 4.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3547.2 feet and has drafted approximately 0.5 feet last week. Inflows at Hungry Horse are up to 7.2 Kcfs (4-28-05); outflows at Hungry Horse remain at approximately 7.2 Kcfs.

The Dworshak reservoir is currently at an elevation of 1591.25 feet and refilled 2.6 feet last week. Inflows at Dworshak have increased to 10 - 12. Kcfs and outflows are currently 5.3 Kcfs.

The Brownlee Reservoir was at an elevation of 2074.9 on April 28th, 2005 with outflows ranging between 9.7 and 13.9 Kcfs over the last week.

Spill: There will be no spill at the Snake River transport collector projects in 2005 due to low flows. Spill at IHR will be provided according to the protocol determined for RSW testing. Spill averaged 67% 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 (37%) than the 40% specified in the Biological Opinion. Spill at McNary Dam averaged 41% of daily average flow during spill hours, but varied between 25 and 54% depending on load following. Spill at John Day Dam averaged 28% of daily average flow, varying between 25 and 34%. Spill at both McNary and John Day dams are called for during nighttime hours. Spill at Bonneville Dam continued at 75 Kcfs hourly until April 25, 2005. At this time nighttime spill was increased to 85 Kcfs, and on April 26 nighttime spill was increased to 95Kcfs. Nighttime spill was reduced to 85 Kcfs the next day because total dissolved gas (TDG) at the Camas/Washougal station exceeded 115%. However, TDG levels at the Camas/Washougal station have at times 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 a suitable 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.

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. There have been relatively large increases in coho indices at John Day and Bonneville dams the past week.

At the Salmon River Trap, near White Bird, average daily collection of yearling chinook rose from 580 to 1,900. Steelhead showed a similar relative increase from an average of 50 per day to 150. Flows in the Salmon River were up to 16 Kcfs by April 28, which is above the median daily flow for this time of year (based on 92 years of data). Flows in the Grande Ronde River rose above 5.5 Kcfs over the past three days, but remained below average by about 1.5 Kcfs. The catch of yearling chinook averaged just over 100 fish per day at the Grande Ronde Trap while steelhead catch averaged about 50. The numbers captured in the last few days suggest a bump in migration as the average over the last three days of sampling for yearling chinook was 220 and steelhead 100. The Imnaha Trap captured lower numbers of yearling chinook and steelhead this week than last despite above average flows which rose to 1700 cfs on April 27. Traps had not been fished due to low flows and then experienced debris problems when flows increased so that fish capture was hampered.

At the Snake River Trap at Lewiston, the catch of steelhead increased rapidly this past week to nearly 300 per day, while yearling chinook catch remained relatively low at about 10 fish per day. Discharge increased to within 5 to 10 Kcfs of normal levels at 35 Kcfs at the Anatone gage. Normally flows average about 45 Kcfs this time of year. As was the case last week, the Lewiston Trap continued to capture more steelhead than yearling chinook. Most of the steelhead captured there this past week were hatchery origin.

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 118,000 this week compared to 40,000

last week while steelhead indices averaged 88,000 this week compared to 16,000 last week. Because there is no spill and transportation is being maximized relatively small numbers of yearling chinook and steelhead are showing up at Little Goose Dam. Total collection of yearling chinook at Little Goose was 66,000 through April 28 compared to 1.1 million at Lower Granite while steelhead collection showed a similar disparity. Collection efficiency of yearling chinook when not spilling at Lower Granite was roughly 70% in 2001 so it is likely a similar proportion are being removed at the site this year, while for steelhead the percent collected is probably closer to 90%. While at Lower Monumental Dam larger numbers of yearling chinook and steelhead have been collected compared to Little Goose due to hatchery releases from Lyons Ferry Hatchery both directly into the Snake River as well as releases into the Tucannon River.

In the Mid-Columbia, at Rock Island Dam, indices for yearling chinook remained relatively high this past week averaging over 200 per day, but reaching to 476 on April 27. Small but increasing numbers of coho, steelhead, 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 compared to last week with yearling chinook indices reaching 11,200 by April 27, while steelhead indices declined, averaging of 2,000 per day this week compared to 3,000 per day the previous week. Small numbers of coho and sockeye are being captured at the site but the numbers 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 20,000 per day this week compared to 5,000 per day last week, while steelhead and coho averaged 1,600 and 500 this week respectively compared to 700 and 35 per day last week.

At Bonneville Dam, Yearling chinook and coho indices increased significantly this week. The average daily yearling chinook index was 41,000

per day compared to 24,000 per day last week. Coho indices doubled to 15,000 per day average this week while steelhead indices increased to 1,600 per day over the past week. Subyearling chinook indices continued decreasing over the past week as the Spring Creek released fish declined in numbers. Very few fry are showing up in the sample at the site at this stage of the season as well.

Hatchery Releases: Releases of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam are estimated near 83.3 million for the 2005 migration season. Supplemental and planned releases completed during the fall 2004 season are 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 after release from the hatcheries and finalized through the year.

Hatchery Zone Release Report

	Friday 29-Apr-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4656500	12656000	21531037	38843537
Spring Chinook	9047018	4695422	5037552	18779992
Summer Chinook	2348012	3454500		5802512
Coho	825000	244819	5149446	8422565
Sockeye	210716	240459		451175
Summer Steelhead	9084126	1249235	520708	10854069
Winter Steelhead			118300	118300
Total	26171372	24743735	32357043	83272150

Hatchery releases initiated or completed during the past two weeks accounted for about 16.7 million fish liberated in the Columbia/Snake River basin. For the upcoming two weeks, about 13.1 million fish will be released from hatcheries or into streams or released voluntarily through time. 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 most 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 with the majority already released for the 2005 season.

The release of about 9.1 million hatchery Steelhead is currently projected for the Snake River basin. B-Run Steelhead releases in the Clearwater River basin are either completed or nearly so. 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. Most will be completed in the next two weeks.

Mid-Columbia - The CleElum tribal facility began volitional release of about 825,000 yearling spring Chinook in mid-March with about 95% of the fish in-river at this time. Spring Chinook were released from Ringold Hatchery pond in March with most State, Tribal and Federal hatcheries releasing their yearling spring Chinook near April 15 time frame. About 4.7 million spring Chinook were released in the Mid-Columbia this season.

Yearling summer Chinook were released from Wells Hatchery and Eastbank Hatchery complexes into the Okanogan River, mainstem Columbia, and Wenatchee Rivers during the week. 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 end of this week and into the 1st week in May. Steelhead releases are on-going from Wells Hatchery to the Methow and Okanogan rivers with steelhead from Turtle Rock projected to begin next Monday, May 2nd.

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 is ongoing in the Hood River. Another 2+ million yearling spring Chinook were released from Carson NFH and Little White Salmon River NFH last week.

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. The majority of Steelhead are either in-river or should be by early May in various rivers and tributaries. The majority of Tule fall chinook from Spring Creek NFH were released the 27-28th of April (about 3 million subyearling fish). Other subyearling fall chinook releases are scheduled for later in May. 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 Canada fisheries into the Okanogan River basin above Lake Osoyoos has been completed. Information will be forthcoming on that release group.

Adult Fish Passage -At Bonneville Dam, adult spring Chinook counts averaged 3,137 fish/day through the week ending April 28. The 2005 count of adult Chinook is now at 26,308, about 25.8% and 29.7% of the respective 2004 and 10-year average. The peak daily count was 4,149 on April 25. The April 28 count dropped to 2,577. Based on PIT tag detections at Bonneville Dam, the marked fish are from 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. Some river systems have minimal or no PIT tagged fish such as the Klickitat River so it is not possible to assess passage in those river basins. As noted from the Bonneville counts, returns of jack chinook salmon are lagging way behind the 2004 and 10-year average to date.

The adult spring Chinook are moving steadily upstream with 3,640 counted at McNary Dam and nearly 900 into the Snake River at this time. The Priest Rapids count was about 100 to date.

Adult Steelhead continue moving through the hydro system to reach their tributaries and spawning sites, although in reducing numbers each week. Counts at Lower Granite total 4,540 for the season, less than the 2004 and 10-year average to date. Adult Steelhead moving past Bonneville consist of some of the new fish that are Skamania stock heading to the Bonneville pool tributaries.

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
04/15/05	70.6	0.0	73.2	0.0	77.4	6.8	74.5	0.0	75.3	0.0	88.3	0.0	84.6	0.0
04/16/05	59.0	0.0	62.0	0.0	65.4	5.8	60.9	0.0	65.7	0.0	74.9	0.0	67.3	0.0
04/17/05	46.9	0.0	47.9	0.0	52.5	4.6	49.8	0.0	51.4	7.8	65.5	0.0	67.1	0.0
04/18/05	75.2	0.0	74.2	0.0	77.1	6.4	73.4	0.0	75.6	17.9	65.9	0.0	69.7	0.0
04/19/05	83.0	0.0	82.6	0.0	86.8	7.1	83.2	0.0	85.7	18.0	79.3	0.2	70.8	0.0
04/20/05	97.1	0.0	97.4	0.0	101.7	8.6	98.7	0.0	103.0	19.3	83.3	15.7	84.8	9.0
04/21/05	103.3	0.0	103.5	0.0	106.0	8.5	102.0	0.0	104.5	17.6	100.4	21.0	113.7	70.0
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	76.0	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	83.2	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

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

Date	Dworshak		Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/15/05	4.3	0.0	11.5	12.4	39.5	0.0	39.8	0.0	40.8	0.0	41.7	21.6
04/16/05	4.4	0.0	9.3	11.4	35.7	0.0	35.2	0.0	36.1	0.0	35.4	20.7
04/17/05	4.3	0.0	11.6	11.3	37.7	0.0	38.3	0.0	40.7	0.0	42.6	28.1
04/18/05	5.1	0.0	9.8	11.3	45.0	0.0	43.6	0.0	44.3	0.0	47.5	35.7
04/19/05	5.4	0.0	11.9	11.3	43.3	0.0	43.8	0.0	46.0	0.0	46.9	34.6
04/20/05	5.4	0.0	11.9	11.1	43.5	0.0	44.2	0.0	44.3	0.0	46.3	35.4
04/21/05	5.3	0.0	11.2	11.3	41.3	0.0	43.1	0.0	44.2	0.0	44.0	34.8
04/22/05	5.4	0.0	11.2	11.3	39.6	0.0	39.4	0.0	39.7	0.0	41.6	33.2
04/23/05	5.4	0.0	11.0	11.6	39.8	0.0	40.8	0.0	40.4	0.0	43.3	35.8
04/24/05	5.4	0.0	13.6	11.4	41.9	0.0	41.3	0.0	40.4	0.0	41.5	34.4
04/25/05	8.1	0.0	12.7	11.2	45.9	0.0	46.4	0.0	47.2	0.0	49.6	41.8
04/26/05	5.4	0.0	13.8	11.4	47.9	0.0	49.7	0.0	51.1	0.0	53.8	39.0
04/27/05	5.3	0.0	12.8	11.3	52.7	0.0	53.0	0.0	54.2	0.0	54.3	18.4
04/28/05	5.3	0.0	---	---	55.1	0.0	54.9	0.0	55.7	0.0	55.6	18.2

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		
04/15/05	143.9	44.6	148.2	43.4	145.5	55.7	155.0	14.1	19.9	112.7
04/16/05	122.4	31.1	111.8	31.8	114.1	44.1	124.6	50.2	0.0	62.8
04/17/05	116.7	27.3	117.0	33.5	118.6	46.3	126.0	50.3	0.3	63.8
04/18/05	122.4	24.7	118.9	26.7	117.0	44.5	127.6	50.4	1.3	64.4
04/19/05	119.9	25.5	121.3	26.7	126.3	50.2	144.5	56.3	6.3	70.4
04/20/05	121.2	25.6	128.6	30.8	127.0	49.5	128.5	76.6	0.0	40.4
04/21/05	142.5	45.4	124.1	36.8	119.5	45.8	129.9	75.2	0.0	43.2
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

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											
	04/22/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/24/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/28/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	04/19/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/23/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/26/05	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Rock Island Dam											
	04/21/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	04/25/05	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	04/28/05	Chinook + Steelhead	100	2	2	2.00%	0.00%	2	0	0	0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 4/15/2005 to 04/28/05

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2005	13,232	04-19-05	04-19-05	Omak Creek	Okanogan River
Colville Tribe	Leavenworth NFH	CH1	SP	2005	99,399	04-08-05	04-18-05	Bonaparte Acclimation Pond	Okanogan River
Colville Tribe Total					112,631				
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2005	100,000	04-14-05	04-16-05	Red River Acclim Pond	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2005	150,000	04-19-05	04-21-05	Crooked R Acclim Pond	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2005	260,000	04-19-05	04-21-05	Redhouse (Sfk ClearH2O R)	S Fk Clearwater River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	11,116	04-22-05	04-22-05	East Fk Salmon River	Salmon River (ID)
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	Magic Valley Hatchery	ST	SU	2005	236,818	04-15-05	04-21-05	East Fk Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	244,237	04-18-05	04-22-05	Squaw Creek	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2005	820,667	04-02-05	04-21-05	Pahsimeroi Hatchery	Pahsimeroi River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2005	2,760,000	03-14-05	04-22-05	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game Total					4,803,389				
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2005	25,000	04-21-05	04-25-05	Meadow Creek - CLES	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2005	25,000	04-24-05	04-26-05	Mill Cr Bridge	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2005	50,000	04-26-05	04-28-05	Lolo Creek	Clearwater River M F
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2005	83,000	04-19-05	04-21-05	Crooked R Acclim Pond	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2005	150,000	04-13-05	04-22-05	Red River Acclim Pond	S Fk Clearwater River
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 Total					568,000				
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	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 Total					479,152				
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2005	1,170,000	04-18-05	04-22-05	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	750,000	04-13-05	05-03-05	Sawtooth Hatchery	Salmon River (ID)
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2005	2,928,811	04-27-05	04-28-05	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					4,958,811				
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	50,000	04-20-05	04-30-05	Minthorn Acclimation Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	50,000	04-20-05	04-30-05	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	55,000	04-20-05	04-30-05	Meacham Creek	Umatilla River
Umatilla Tribe Total					155,000				
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	29,800	04-01-05	04-29-05	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					245,100				

HATCHERY RELEASE LAST TWO WEEKS

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	04-22-05	04-22-05	White River	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SP	2005	10,000	04-19-05	05-07-05	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	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	04-17-05	04-30-05	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	124,000	03-21-05	05-20-05	Above Rock Island Dam	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2005	55,706	03-25-05	04-20-05	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2005	60,000	03-25-05	04-20-05	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2005	86,270	03-25-05	04-20-05	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2005	102,029	03-25-05	04-20-05	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2005	104,027	03-25-05	04-20-05	Walla Walla River	Walla Walla 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	110,000	04-25-05	05-06-05	Klickitat River	Klickitat 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	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					3,141,340				
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	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	41,000	04-11-05	04-20-05	Marion Drain	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					2,269,034				
Grand Total					16,732,457				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 4/29/2005 to 5/12/2005

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	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	140,000	05-09-05	05-11-05	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	750,000	04-13-05	05-03-05	Sawtooth Hatchery	Salmon River (ID)
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2005	300,000	05-12-05	05-12-05	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					1,400,000				
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	50,000	04-20-05	04-30-05	Minthorn Acclimation Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	50,000	04-20-05	04-30-05	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2005	55,000	04-20-05	04-30-05	Meacham Creek	Umatilla River
Umatilla Tribe Total					155,000				
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	29,800	04-01-05	04-29-05	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					245,100				
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	10,000	04-19-05	05-07-05	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	04-17-05	04-30-05	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	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	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	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	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					4,876,808				

HATCHERY RELEASE NEXT TWO WEEKS

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	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					3,998,975				
Grand Total					13,124,335				

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	Hungry H. Dnst			Boundary			Grand Coulee			Grand C. Tlwr			Chief Joseph							
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/15	---	---	---	0	105	106	106	24	105	105	106	24	104	105	106	24	104	104	104	23
4/16	---	---	---	0	106	106	107	24	106	106	107	24	105	106	107	24	104	105	105	24
4/17	---	---	---	0	105	106	106	24	106	107	107	24	105	106	108	24	105	106	107	24
4/18	---	---	---	0	105	106	107	24	106	106	107	24	105	105	106	24	105	105	106	23
4/19	---	---	---	0	105	106	107	24	106	107	108	24	105	105	106	23	105	106	106	24
4/20	---	---	---	0	105	106	106	24	107	107	108	24	105	106	107	23	106	107	107	23
4/21	---	---	---	0	105	106	106	24	106	107	108	24	104	105	106	24	106	106	107	24
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	111	112	114	24	110	111	112	24	106	106	108	24	106	107	107	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	Chief J. Dnst			Wells			Wells Dwnstrm			Rocky Reach			Rocky R. Tlwr							
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/15	105	105	106	24	105	105	106	24	106	107	107	24	107	107	108	24	107	107	107	24
4/16	106	106	107	24	105	106	106	24	107	107	108	24	108	108	108	24	108	108	108	24
4/17	107	107	108	24	105	105	105	24	106	107	107	24	108	108	108	24	108	108	108	24
4/18	106	106	108	22	104	105	106	24	106	107	107	24	107	107	108	24	107	108	108	24
4/19	106	107	108	17	105	106	106	24	107	108	108	24	107	108	108	24	108	108	108	24
4/20	108	108	108	9	106	106	107	24	108	108	108	24	108	108	109	24	108	109	109	24
4/21	107	107	107	24	106	106	106	24	107	108	108	24	107	108	108	24	108	108	108	24
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	108	108	109	24	107	107	108	24	108	109	109	24	109	109	110	24	110	110	110	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	Rock Island			Rock I. Tlwr			Wanapum			Wanapum Tlwr			Priest Rapids							
	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#	24 h	12 h	#					
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High					
4/15	107	107	108	24	108	108	109	24	---	---	---	0	---	---	---	0	---	---	---	0
4/16	107	108	108	24	109	109	110	24	---	---	---	0	---	---	---	0	---	---	---	0
4/17	107	107	107	24	112	113	114	24	105	106	106	24	105	105	106	24	105	105	106	24
4/18	107	107	108	24	113	114	116	24	105	106	106	24	104	104	105	24	104	105	106	24
4/19	107	108	108	24	112	114	115	24	106	107	107	24	106	107	107	24	105	105	106	24
4/20	108	108	108	24	113	114	116	24	108	108	109	24	114	115	119	24	106	107	108	24
4/21	107	108	108	24	113	114	117	24	109	110	110	24	114	116	118	24	111	113	115	24
4/22	108	109	110	24	114	115	117	24	111	113	115	24	115	116	117	24	114	115	117	24
4/23	109	109	110	24	113	114	115	24	112	113	113	24	117	117	118	24	115	115	116	24
4/24	109	109	110	24	114	115	116	24	112	113	114	24	118	119	119	24	115	115	116	24
4/25	109	110	110	24	115	117	119	24	113	115	117	24	116	117	118	24	116	117	117	24
4/26	109	110	111	24	115	117	118	24	113	114	115	24	116	117	118	24	116	116	117	24
4/27	109	110	110	24	115	116	117	24	112	112	113	24	117	118	120	24	115	116	116	24
4/28	108	109	109	24	115	116	118	24	113	114	116	24	116	117	118	24	114	115	116	24

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

Total Dissolved Gas Saturation Data at Lower Columbia 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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
4/15	---	---	---	0	104	105	105	24	96	97	97	24	100	101	102	24	102	103	105	24
4/16	---	---	---	0	105	105	105	24	97	98	98	24	100	101	102	24	102	103	105	24
4/17	104	104	104	24	104	104	105	24	97	97	98	24	100	100	101	24	102	103	104	24
4/18	103	103	104	24	103	104	105	24	96	97	97	24	99	100	101	23	101	102	103	24
4/19	103	104	104	24	104	105	106	24	96	97	97	24	100	100	101	24	101	102	103	24
4/20	105	106	111	24	105	105	106	24	97	97	98	24	100	100	101	24	101	102	103	24
4/21	114	115	116	24	105	105	106	24	103	110	118	24	100	100	101	24	102	103	104	24
4/22	115	115	117	24	111	114	115	24	104	112	118	24	100	102	102	24	103	104	105	24
4/23	113	114	114	24	113	114	114	24	96	97	98	24	100	100	101	24	102	103	104	24
4/24	112	113	114	24	110	111	111	24	97	97	98	24	100	102	102	24	102	103	105	24
4/25	114	116	116	24	109	110	110	24	97	98	98	24	100	101	102	24	103	105	123	24
4/26	116	117	118	24	111	113	114	24	97	97	98	24	101	102	103	24	102	103	104	23
4/27	116	116	117	24	113	113	114	24	96	97	98	24	100	100	100	24	101	101	102	24
4/28	115	116	116	24	111	112	114	24	97	98	98	24	100	101	102	24	100	101	102	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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
4/15	101	103	104	24	101	102	104	24	101	101	102	24	101	101	101	23	101	101	101	23
4/16	101	103	104	24	102	102	103	24	102	102	103	24	103	103	104	24	102	102	103	24
4/17	101	102	104	24	101	101	102	24	101	101	103	24	102	102	102	24	101	101	102	24
4/18	100	101	101	24	101	101	101	24	101	101	102	24	101	101	102	24	100	101	102	24
4/19	101	102	103	24	102	103	104	24	101	102	103	24	101	101	101	24	100	101	101	24
4/20	101	101	102	7	103	104	106	24	102	103	103	24	101	102	102	24	102	102	102	24
4/21	102	103	104	19	102	103	104	24	101	101	102	24	101	101	103	24	101	101	102	24
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	101	103	104	24	103	103	104	24	102	102	103	24	102	102	103	24	102	103	103	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>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#	<u>24 h</u>		<u>12 h</u>		#
	<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>	
4/15	101	101	101	24	101	102	103	24	103	103	103	24	112	114	115	24	107	108	111	24
4/16	102	102	102	24	102	102	103	24	103	103	103	24	112	114	115	24	107	108	110	24
4/17	101	102	102	24	102	102	102	24	102	102	103	24	112	114	116	24	106	107	108	24
4/18	101	101	101	24	101	101	102	24	102	102	102	24	114	115	116	24	106	107	109	24
4/19	102	102	103	24	102	103	103	24	102	102	102	24	114	115	116	24	106	107	108	24
4/20	102	102	102	24	102	103	103	24	102	103	103	24	114	116	117	24	107	108	109	24
4/21	101	102	102	24	102	102	103	24	102	102	103	24	114	115	116	24	107	108	109	24
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	104	104	104	24	103	104	104	24	103	103	103	24	111	111	112	24	111	112	114	24

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			<u>McNary Tlwr</u>			<u>John Day</u>			<u>John Day Tlwr</u>			<u>The Dalles</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#		
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High	hr	
4/15	106	106	108	24	110	115	115	24	104	104	105	23	111	117	118	24	108	109	112	23
4/16	107	108	109	24	111	114	115	24	105	105	105	23	110	116	118	24	111	114	115	23
4/17	106	107	108	24	109	112	113	24	104	104	105	23	110	116	118	24	108	110	110	23
4/18	106	106	108	24	108	111	113	24	104	104	104	24	109	114	118	24	107	108	109	24
4/19	108	109	110	24	110	112	114	24	104	105	105	24	110	115	118	24	106	107	107	24
4/20	108	109	110	24	110	112	114	24	105	105	106	23	111	116	119	24	108	109	110	23
4/21	108	109	110	24	111	114	117	24	105	106	106	23	111	116	118	24	108	109	110	23
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	23	113	118	119	24	109	111	115	23
4/27	113	113	114	24	116	117	117	24	109	109	110	23	113	118	119	24	111	113	114	23
4/28	111	112	112	24	116	116	116	24	109	110	110	23	114	119	119	24	111	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>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#	<u>24h</u>	<u>12h</u>	#		
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	hr	
4/15	113	113	114	24	110	110	111	23	110	111	113	23	107	109	110	24	---	---	---	0
4/16	113	114	114	24	111	112	113	23	114	115	115	23	109	110	112	24	---	---	---	0
4/17	112	113	114	24	111	112	112	23	114	114	115	23	112	113	113	24	---	---	---	0
4/18	111	112	114	24	109	110	111	24	114	114	115	24	112	113	115	24	111	112	112	24
4/19	111	113	114	24	109	109	109	24	113	113	114	24	113	114	115	24	112	113	117	24
4/20	111	113	114	24	109	109	109	23	115	115	116	23	112	114	115	24	114	114	114	17
4/21	112	113	114	24	108	108	109	23	115	115	116	23	114	115	115	24	114	114	114	17
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	23	114	115	116	19	115	116	117	24	115	115	116	12
4/27	116	117	117	24	111	112	113	23	115	115	116	23	113	115	116	24	115	115	116	17
4/28	115	116	117	24	111	112	113	23	114	114	115	23	112	113	114	24	115	116	117	24

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)
04/15/2005	*	536	496	150	2	20,400	485	7,900	2	1,846	5,609	6,182
04/16/2005	*	---	228	46	---	26,700	444	6,640	0	---	3,786	8,370
04/17/2005		---	83	3	---	19,800	587	9,630	151	2,325	3,654	35,543
04/18/2005	*	1,212	294	29	12	20,150	932	10,150	833	---	6,142	39,705
04/19/2005	*	668	401	66	164	45,425	1,270	12,650	715	2,306	6,217	30,320
04/20/2005	*	289	357	44	10	68,550	2,043	15,050	425	---	7,071	23,701
04/21/2005	*	215	117	16	6	70,000	1,472	9,200	337	4,600	6,117	25,407
04/22/2005	*	222	131	7	9	77,800	1,612	17,800	127	---	11,937	40,329
04/23/2005	*	---	71	23	---	62,389	3,364	25,800	136	5,025	17,798	33,653
04/24/2005	*	---	135	20	---	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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		10,526	2,454	1,100	256	1,099,684	66,216	183,567	3,960	35,186	180,932	453,005
# Days:		9	12	14	10	14	14	14	14	7	14	14
Average:		1,170	205	79	26	78,549	4,730	13,112	283	5,027	12,924	32,358
YTD		31,971	41,087	4,638	314	1,210,337	67,878	224,697	3,974	42,377	235,523	502,343

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)
04/15/2005	*	0	0	1	5	100	0	0	67	44	0	824
04/16/2005	*	---	0	0	---	800	0	0	32	---	0	939
04/17/2005		---	0	1	---	0	0	0	28	27	15	208,379
04/18/2005	*	0	5	3	3	50	0	0	29	---	0	155,570
04/19/2005	*	0	0	0	0	0	0	0	4	6	0	17,687
04/20/2005	*	0	0	1	2	100	0	0	29	---	13	8,180
04/21/2005	*	0	2	3	5	50	0	0	9	64	0	8,423
04/22/2005	*	0	0	3	2	200	0	0	10	---	0	4,305
04/23/2005	*	---	2	9	---	299	4	0	5	89	0	2,612
04/24/2005	*	---	0	10	---	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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	9	154	25	2,944	4	0	299	445	120	416,131
# Days:		9	12	14	10	14	14	14	14	7	14	14
Average:		0	1	11	3	210	0	0	21	64	9	29,724
YTD		0	61	176	130	4,699	8	50	1,188	684	144	1,332,708

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)	
04/15/2005	*	0	0	0	0	300	16	0	0	58	0	6,878
04/16/2005	*	---	0	0	---	200	18	0	0	---	27	8,626
04/17/2005		---	0	0	---	100	32	0	1	54	44	10,008
04/18/2005	*	0	0	0	0	0	46	0	8	---	22	2,527
04/19/2005	*	0	0	0	7	200	34	0	8	76	13	5,053
04/20/2005	*	0	0	0	1	150	92	0	8	---	75	5,453
04/21/2005	*	0	0	0	1	350	120	0	21	174	65	9,942
04/22/2005	*	0	0	0	2	600	144	0	1	---	219	10,240
04/23/2005	*	---	0	0	---	1,344	276	0	9	228	296	12,165
04/24/2005	*	---	0	0	---	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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	22	10,461	1,589	0	130	1,081	3,672	156,050
# Days:		9	12	14	10	14	14	14	14	7	14	14
Average:		0	0	0	2	747	114	0	9	154	262	11,146
YTD		0	0	0	58	13,745	1,654	0	139	1,260	3,992	182,887

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)	
04/15/2005	*	47	5,105	6	75	7,100	396	4,940	1	1,881	633	889
04/16/2005	*	---	3,804	10	---	6,300	486	2,540	0	---	722	854
04/17/2005		---	789	3	---	5,350	678	1,860	1	2,476	751	712
04/18/2005	*	86	3,170	21	7	7,300	546	1,000	12	---	417	1,083
04/19/2005	*	43	2,001	36	38	22,475	630	1,950	22	3,807	583	1,444
04/20/2005	*	40	1,833	32	24	26,600	840	2,200	16	---	1,045	944
04/21/2005	*	31	363	12	164	34,200	1,072	1,950	28	3,890	717	2,209
04/22/2005	*	40	230	5	34	53,600	1,296	1,650	10	---	2,448	535
04/23/2005	*	---	165	12	---	49,851	1,925	1,150	20	2,120	2,114	1,049
04/24/2005	*	---	447	18	---	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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		866	19,053	462	1,509	725,224	38,314	30,447	345	18,241	15,839	17,688
# Days:		9	12	14	10	14	14	14	14	7	14	14
Average:		96	1,588	33	151	51,802	2,737	2,175	25	2,606	1,131	1,263
YTD		1,159	24,885	879	1,991	838,237	43,128	67,937	352	24,101	19,275	25,001

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)	(INDEX)
04/15/2005	*	0	0	0	0	100	2	0	1	1	0	0
04/16/2005	*	---	0	0	---	50	20	90	1	---	0	28
04/17/2005		---	0	0	---	150	24	0	6	0	0	0
04/18/2005	*	0	0	0	0	100	36	0	20	---	0	0
04/19/2005	*	0	0	0	0	125	16	0	12	13	0	0
04/20/2005	*	0	0	0	0	50	28	0	8	---	0	0
04/21/2005	*	0	0	0	0	50	56	50	24	19	0	0
04/22/2005	*	0	0	0	0	0	52	0	0	---	16	49
04/23/2005	*	---	0	0	---	0	40	0	0	67	0	0
04/24/2005	*	---	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		---	---	---	---	---	---	---	---	---	---	---
<hr/>												
Total:		0	0	0	0	1,174	1,095	390	214	277	16	205
# Days:		9	12	14	10	14	14	14	14	7	14	14
Average:		0	0	0	0	84	78	28	15	40	1	15
YTD		0	0	0	1	2,366	1,318	510	215	295	50	248

* 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:

4/29/05 12:10 PM

04/16/05 TO 04/29/05

Site	Data	Species					Grand Total
		CH0	CH1	CO	SO	ST	
LGR	Sum of NumberCollected	2,944	1,099,684	10,461	1,174	725,224	1,839,487
	Sum of NumberBarged	2,940	1,096,849	10,457	1,152	720,950	1,832,348
	Sum of NumberBypassed	0	1,569	0	0	4,179	5,748
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	115	0	1	10	127
	Sum of FacilityMorts	3	1,136	4	21	85	1,249
	Sum of ResearchMorts	0	15	0	0	0	15
	Sum of TotalProjectMorts	4	1,266	4	22	95	1,391
LGS	Sum of NumberCollected	4	66,216	1,589	1,095	38,314	107,218
	Sum of NumberBarged	4	65,484	1,584	1,081	38,230	106,383
	Sum of NumberBypassed	0	621	0	0	0	621
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	32	4	2	8	46
	Sum of FacilityMorts	0	76	1	12	76	165
	Sum of ResearchMorts	0	3	0	0	0	3
	Sum of TotalProjectMorts	0	111	5	14	84	214
LMN	Sum of NumberCollected		183,567		390	30,447	214,404
	Sum of NumberBarged		183,420		387	30,418	214,225
	Sum of NumberBypassed		0		0	0	0
	Sum of Numbertrucked		0		0	0	0
	Sum of SampleMorts		20		2	1	23
	Sum of FacilityMorts		127		1	28	156
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		147		3	29	179
MCN	Sum of NumberCollected	290	23,326	710	177	12,862	37,365
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	286	23,293	709	176	12,849	37,313
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	4	9	1	0	3	17
	Sum of FacilityMorts	0	14	0	1	9	24
	Sum of ResearchMorts	0	11	0	0	1	12
	Sum of TotalProjectMorts	4	34	1	1	13	53
Total Sum of NumberCollected		3,238	1,372,793	12,760	2,836	806,847	2,198,474
Total Sum of NumberBarged		2,944	1,345,753	12,041	2,620	789,598	2,152,956
Total Sum of NumberBypassed		286	25,483	709	176	17,028	43,682
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		5	176	5	5	22	213
Total Sum of FacilityMorts		3	1,353	5	35	198	1,594
Total Sum of ResearchMorts		0	29	0	0	1	30
Total Sum of TotalProjectMorts		8	1,558	10	40	221	1,837

YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/29/05 12:10 PM

TO: 04/29/05

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	4,699	1,210,337	13,745	2,366	838,237	2,069,384
	Sum of NumberBarged	4,207	1,196,868	12,766	1,797	787,900	2,003,538
	Sum of NumberBypassed	71	2,890	92	18	7,186	10,257
	Sum of NumberTrucked	404	8,883	871	487	43,015	53,660
	Sum of SampleMorts	7	143	0	8	11	169
	Sum of FacilityMorts	10	1,538	16	56	125	1,745
	Sum of ResearchMorts	0	15	0	0	0	15
	Sum of TotalProjectMorts	17	1,696	16	64	136	1,929
LGS	Sum of NumberCollected	8	67,878	1,654	1,318	43,128	113,986
	Sum of NumberBarged	4	66,901	1,647	1,275	42,740	112,567
	Sum of NumberBypassed	0	621	0	0	0	621
	Sum of NumberTrucked	4	223	0	27	291	545
	Sum of SampleMorts	0	39	6	2	10	57
	Sum of FacilityMorts	0	91	1	14	87	193
	Sum of ResearchMorts	0	3	0	0	0	3
	Sum of TotalProjectMorts	0	133	7	16	97	253
LMN	Sum of NumberCollected	50	224,697		510	67,937	293,194
	Sum of NumberBarged	50	211,802		446	65,643	277,941
	Sum of NumberBypassed	0	0		0	0	0
	Sum of NumberTrucked	0	12,712		60	2,235	15,007
	Sum of SampleMorts	0	25		2	10	37
	Sum of FacilityMorts	0	158		2	49	209
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	0	183		4	59	246
MCN	Sum of NumberCollected	545	30,754	880	207	18,366	50,752
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	540	30,704	879	206	18,350	50,679
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	5	19	1	0	3	28
	Sum of FacilityMorts	0	21	0	1	12	34
	Sum of ResearchMorts	0	11	0	0	1	12
	Sum of TotalProjectMorts	5	51	1	1	16	74
Total Sum of NumberCollected		5,302	1,533,666	16,279	4,401	967,668	2,527,316
Total Sum of NumberBarged		4,261	1,475,571	14,413	3,518	896,283	2,394,046
Total Sum of NumberBypassed		611	34,215	971	224	25,536	61,557
Total Sum of NumberTrucked		408	21,818	871	574	45,541	69,212
Total Sum of SampleMorts		12	226	7	12	34	291
Total Sum of FacilityMorts		10	1,808	17	73	273	2,181
Total Sum of ResearchMorts		0	29	0	0	1	30
Total Sum of TotalProjectMorts		22	2,063	24	85	308	2,502

Cumulative Adult Passage at Mainstem Dams Through: 04/28

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	26,308	99	101,874	620	88,701	1,102	0	0	0	0	0	0	0	0	0	0	0	0
TDA	15,554	21	68,436	508	51,353	462	0	0	0	0	0	0	0	0	0	0	0	0
JDA	8,941	2	56,469	277	37,485	278	0	0	0	0	0	0	0	0	0	0	0	0
MCN	3,640	37	47,176	578	30,097	231	0	0	0	0	0	0	0	0	0	0	0	0
IHR	894	0	30,199	273	18,837	114	0	0	0	0	0	0	0	0	0	0	0	0
LMN	508	1	23,183	86	16,372	59	0	0	0	0	0	0	0	0	0	0	0	0
LGS	268	1	15,352	19	13,508	74	0	0	0	0	0	0	0	0	0	0	0	0
LWG	98	0	12,554	34	11,945	31	0	0	0	0	0	0	0	0	0	0	0	0
PRD	97	1	2,501	2	3,658	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	4	0	63	0	884	2	0	0	0	0	0	0	0	0	0	0	0	0
RRH	0	0	10	0	115	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	2,060	16	28,268	42	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	2005	2004	Avg.	2005	
BON	0	0	0	0	0	0	2	0	0	1,099	2,934	2,264	375
TDA	-1	0	0	0	0	0	0	0	0	563	1,040	775	315
JDA	2	0	0	0	0	0	0	0	0	829	1,389	2,623	502
MCN	0	0	0	0	0	0	0	0	0	592	1,104	1,284	234
IHR	0	0	0	0	0	0	0	0	0	820	1,685	1,472	439
LMN	0	0	0	0	0	0	0	0	0	675	1,458	1,551	281
LGS	0	0	0	0	0	0	0	0	0	706	1,806	1,791	329
LWG	0	0	0	0	0	0	0	0	0	4,540	7,442	6,017	1,419
PRD	0	0	0	0	0	0	2	0	0	6	6	0	n/a
RIS	0	0	0	0	0	0	0	0	0	23	43	14	22
RRH	0	0	0	0	0	0	0	0	0	213	148	52	207
WEL	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	0	0	0	0	n/a	n/a	0	0	n/a	5,897	16,736	n/a	n/a

WFA is through 04/22.

RIS/RRH are through 04/26.

*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: 04/29/05

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

