



Fish Passage Center

Weekly Report #05 - 2

March 18, 2005

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has been very low over the first one-half of March. Of the sites in Table 1, none recorded precipitation that was greater than 63% of average over the beginning of March. Over the entire water year, precipitation also has been well below average.

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

Location	Water Year 2005		Water Year 2005	
	March 1-14		October 1, 2004 to March 14, 2005	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	0.28	35	9.85	74
Snake River Above Ice Harbor	0.12	16	6.39	68
Columbia Above The Dalles	0.19	22	8.87	67
Kootenai	0.15	18	9.57	70
Clark Fork	0.34	63	4.26	51
Flathead	0.27	36	8.40	74
Pend Oreille/Spokane	0.07	5	12.69	68
Central Washington	0.00	0	2.88	53
Snake River Plain	0.02	4	4.19	76
Salmon/Boise/Paye tte	0.05	6	6.19	53
Clearwater	0.08	6	10.56	62
SW Washington Cascades/Cowlitz	0.25	8	26.62	54
Willamette Valley	0.05	2	19.58	47

Snowpack within the Columbia Basin is also well below average. Average snowpack in the Columbia River for basins above the Snake River confluence is 40% of average, for Snake River Basins the average snowpack is 55% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 19% of average.

Water Supply Forecasts have been decreasing over the winter months, dropping between eight and thirteen percent of average between the February and March Final Forecasts. Table 2 displays the February Final and March Final runoff volume forecasts for multiple reservoirs along with runoff volumes that actually occurred in 2001 for comparison. The current forecast at The Dalles between January and July is 70700 Kaf (66% of average), still somewhat higher than recorded in the very low runoff year of 2001. At Lower Granite Dam and Brownlee Dam, the current forecasts are lower than the actual runoff observed in 2001. The April-July forecast at Dworshak Dam is identical to the actual runoff volume recorded in 2001. The March Mid-month forecast is expected to be released today (3-18-05) and can be found at the following website: http://www.nwrfc.noaa.gov/water_supply/ws_fcst.cgi.

Table 2. February Final and March 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	February Final		March 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)	77	82400	66	70700	58200
Grand Coulee (Jan-July)	91	57200	79	54700	37400
Libby Res. Inflow, MT (Jan-July)	90	5650	77	4860	3341
Hungry Horse Res. Inflow, MT (Jan-July)	75	1660	67	1480	1300
Lower Granite Res. Inflow (Apr- July)	59	12700	46	9960	10300
Brownlee Res. Inflow (Apr-July)	41	2590	28	1740	1970*
Dworshak Res. Inflow (Apr-July)	66	1750	56	1470	1470

Grand Coulee Reservoir is projected to draft to elevation 1255 feet by the end of March for drum gate maintenance. Grand Coulee is currently at an elevation of 1262.9 feet, and will draft approximately 7.9 feet of reservoir water in the next several weeks. Because of this operation Grand Coulee will be far below its flood control elevations, and will refill heavily during the spring flow period.

The Libby Reservoir is currently well below its flood control elevations. Libby ended March 17th at an elevation of 2412.9 feet, 29.1 feet below its end of March Flood Control elevation of 2442 feet. Libby continues to release its minimum project outflow of 4.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3546.8 feet, which is 8.8 feet below its end of March Flood Control elevation of 3555.6 feet. Hungry Horse has been releasing between 0.5 and 0.7 Kcfs over the past week.

The Dworshak reservoir is currently at an elevation of 1569.4 feet. Dworshak is currently 18.1 feet below its end of March System Flood Control elevation of 1587.5 feet.

The Brownlee Reservoir was at an elevation of 2073.7 on March 17th. Out of all the major storage projects within the Columbia Hydroystem, Brownlee is the closest to its end of March Flood Control elevation (2077 feet).

Spill: The only spill that occurred in the system over the past week was at Bonneville Dam. This spill is part of adult attraction passage enhancement. In spite of the fact that projects are not spilling water, total dissolved gas levels throughout the hydrosystem are elevated. This is likely a result of physical and biological processes.

Smolt Monitoring: The first hatchery releases in the Snake River Basin have begun showing up at SMP traps. At the Salmon River Trap relatively large numbers of yearling chinook were captured this past week, with a high of 991 on March 14, while at the Grande Ronde Trap small numbers of yearling chinook were also captured. These were also likely recent releases from upstream hatcheries.

In the Lower Columbia, at Bonneville Dam, yearling chinook released from Klickitat River and Umatilla River hatcheries have begun to show up in the sample. Subyearling chinook numbers continue to decrease after the March 2 release of 7.2 million fish from Spring Creek Hatchery. The passage appeared to peak between March 5 and 6 when the passage index was over 600,000 for those days combined. This past week the subyearling index averaged 3,000 per day compared to 114,000 per day the previous week.

Hatchery Releases - The scheduled release of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam for the 2005 migration season is estimated near 83.2 million. Supplemental and planned releases completed during the fall 2004 season are considered to be 2005 migrants. The Zone Release Report below summarizes "planned" hatchery releases from State, federal or Tribal hatcheries or acclimation ponds for the 2005 Migration Season. These totals will be updated after release from the hatcheries and finalized through the year.

Hatchery Zone Release Report

	Friday 18-Mar-2005			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	4,850,000	12,656,000	21,886,441	39,392,441
Spring Chinook	8,970,411	4,681,405	5,038,495	18,690,311
Summer Chinook	2,375,000	3,466,500		5,841,500
Coho	590,000	2,449,119	4,736,992	7,776,111
Sockeye	210,716	240,459		451,175
Summer Steelhead	9,119,500	1,240,151	522,500	10,882,151
Winter Steelhead			118,300	118,300
Total	26,115,627	24,733,634	32,302,728	83,151,989

Due to the drought conditions that presently exist in the Northwest, some hatchery releases will be altered from more normal release dates seen during average flow years. Rivers and streams in some drainages in the Columbia River basin are already at extreme low levels with the snow pack in many basins well below 50% of normal. The spring migrants comprised mainly of yearling Chinook, Coho, Sockeye and Steelhead will likely have near record low flows in 2005.

Hatchery releases completed or initiated during the past two weeks accounted for about 10.1 million fish. These hatchery releases took place in throughout the Columbia/Snake River basin. For the upcoming two weeks, about 9.7 million fish will be released from hatcheries or else initiated during the next two weeks. See the Hatchery Release Summary Tables for details.

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.

Snake River - Direct release of yearling chinook from Rapid River H below Hells Canyon Dam and in the Little Salmon River has been completed with the on-site volitional release from the hatchery on-going through mid-April. In addition, yearling chinook from the acclimation ponds located in the Grande Ronde River at Lostine R, Catherine Creek, and upper Grande Ronde will begin their volitional releases during the next two weeks. About 1.0 million yearling spring/summer chinook from McCall Hatchery will be released during the next 3-days in the S. Fk. Salmon River. The Clearwater River basin should see most of the releases during early April with 400,000 spring Chinook released from the Powell acclimation pond during this week.

About 460,000 yearling Coho salmon were released last week in the Potlatch River and the Mainstem Clearwater River near the mouth of the Potlatch River. Another 93,000 were released near the mouth of Clear Creek. A smaller group of 37,000 Coho were released into Lapwai Creek.

Steelhead releases are beginning in the upper Salmon River as well as the normal scheduled releases into the Snake River below the Hell Canyon Dam. Other releases are commencing in the Little Salmon River with most IDFG facilities starting their hatchery releases about two weeks early in some cases. About 9.2 million steelhead will be released in the Snake River basin.

Mid-Columbia - The CleElum tribal facility began volitional release of about 800,000 yearling spring chinook mid-March and will continue the release through late April. Spring chinook from Ringold Hatchery was initiated on March 11 with all the fish out of the pond by Friday March 18th. Other spring chinook releases will begin in mid-April in the upper Mid-Columbia. Most steelhead releases are scheduled for April and early May. Most of the Coho salmon will also be released during April from the various hatcheries and acclimation ponds.

Lower Columbia - Yearling fall Chinook and Coho salmon were released in late February in the Umatilla River. About 800,000 yearling spring Chinook were released during the past two weeks from Imeques Pond, about 80 River Miles from the Mouth of the Umatilla River. Yearling spring Chinook were released from Klickitat Hatchery on March 1-11 (600,000 total). Warm Springs NFH began a volitional release in the Deschutes River basin from mid-March through early April. Volitional release of spring Chinook will be initiated in the Hood River during the next two weeks. Steelhead and Coho salmon releases will mainly occur during April in the lower river.

Adult Fish Passage - At Bonneville and upstream dams, calendar dates when official counting of adult fish will be initiated varies among the sites. Lower Granite Dam began reporting counts on March 1, Bonneville Dam on March 15th, and at the remaining mainstem COE projects, counting will begin on April 1. The PUD dams in the Mid-Columbia River normally begin counting adult fish near April 15 with Wells Dam starting on May 1. The Bonneville Dam counts from January through March 14 are listed in a small table below the normal Adult Table.

At Bonneville Dam, counts of spring Chinook are still single digits with 5 adult Chinook counted on the 15th and 16th of March. In a normal year, 5-year old spring Chinook or 3-ocean age fish are the first to migrate upstream in the Columbia River followed by the 4-year old fish in April and early May. Expectations are for an excellent spring Chinook run in 2005 so time will tell the story. The first PIT tagged adult spring/summer Chinook from the Snake River basin was from Catherine Creek located in the upper Grande Ronde River. Interesting enough, this fish was a 4-year old that migrated to the ocean in 2003. Also of interest is the fact that another set of PIT tag detectors has been installed in the upper section of the WA shore fish ladder at Bonneville Dam and should assure that near 100% of the PIT tagged fish passing the WA ladder will be interrogated.

As noted at the upriver sites, adult steelhead are beginning to move through the hydro

system to reach their tributaries and spawning sites. The majority of these fish have over-wintered in the pools and will complete their trip to the spawning grounds in March through early May. Counts at Lower Granite exceeded 200 per day for the first time during this week and the total from March 1 was 1,707 adult Steelhead at the project.

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
03/04/05	95.8	0.0	102.1	0.0	111.8	0.0	115.1	0.0	118.5	0.0	120.3	0.0	116.8	0.0
03/05/05	79.6	0.0	77.8	0.0	77.0	0.0	77.5	0.0	79.6	0.0	97.6	0.0	98.7	0.0
03/06/05	54.0	0.0	61.1	0.0	69.9	0.0	73.5	0.0	77.2	0.0	84.4	0.0	82.4	0.0
03/07/05	108.3	0.0	101.6	0.0	94.3	0.0	88.6	0.0	90.9	0.0	76.2	0.0	79.4	0.0
03/08/05	95.8	0.0	95.7	0.0	100.5	0.0	100.8	0.0	104.1	0.0	102.9	0.0	90.3	0.0
03/09/05	97.9	0.0	97.8	0.0	97.1	0.0	93.3	0.0	96.0	0.0	108.3	0.0	121.6	0.0
03/10/05	93.8	0.0	104.2	0.0	109.1	0.0	110.4	0.0	113.0	0.0	118.3	0.0	105.6	0.0
03/11/05	96.0	0.0	92.4	0.0	97.0	0.0	96.0	0.0	98.9	0.0	96.2	0.0	91.9	0.0
03/12/05	70.3	0.0	71.2	0.0	74.9	0.0	74.5	0.0	76.8	0.0	95.5	0.0	97.1	0.0
03/13/05	48.4	0.0	48.1	0.0	49.7	0.0	47.7	0.0	52.5	0.0	78.7	0.0	78.9	0.0
03/14/05	104.4	0.0	102.8	0.0	105.2	0.0	103.6	0.0	105.3	0.4	80.8	0.0	81.4	0.0
03/15/05	104.0	0.0	104.4	0.0	106.8	0.0	105.2	0.0	106.7	0.8	104.4	0.0	101.4	0.0
03/16/05	115.5	0.0	119.4	0.0	122.3	0.0	115.7	0.0	119.4	0.8	126.1	0.0	121.3	0.0
03/17/05	108.7	0.0	106.2	0.0	108.1	0.0	107.2	0.0	109.9	0.6	107.5	0.0	122.9	0.0

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

Date	Dworshak		Hells Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
03/04/05	1.5	0.0	11.0	10.4	14.9	0.0	14.1	0.0	15.0	0.0	13.6	0.0
03/05/05	1.5	0.0	12.2	12.8	19.2	0.0	16.5	0.0	15.0	0.0	15.5	0.0
03/06/05	1.5	0.0	10.5	10.9	20.5	0.0	21.9	0.0	22.6	0.0	21.7	0.0
03/07/05	1.5	0.0	11.0	11.7	21.3	0.0	21.3	0.0	21.3	0.0	22.7	0.0
03/08/05	1.5	0.0	10.9	8.9	22.7	0.0	24.8	0.0	25.7	0.0	25.6	0.0
03/09/05	1.5	0.1	11.3	8.8	18.4	0.0	18.0	0.0	17.9	0.0	16.4	0.0
03/10/05	1.5	0.0	10.2	8.9	25.7	0.0	27.6	0.0	29.9	0.0	31.5	0.0
03/11/05	1.5	0.0	11.3	8.8	16.3	0.0	16.7	0.0	15.9	0.0	15.7	0.0
03/12/05	1.5	0.0	11.5	8.9	19.6	0.0	18.4	0.0	18.6	0.0	18.6	0.0
03/13/05	1.6	0.0	11.2	8.9	20.8	0.0	19.6	0.0	18.9	0.0	17.5	0.0
03/14/05	1.6	0.0	11.6	10.5	22.1	0.0	25.5	0.0	26.4	0.0	27.1	0.0
03/15/05	1.5	0.0	12.1	10.8	23.9	0.0	23.1	0.0	25.4	0.0	25.4	0.0
03/16/05	1.5	0.0	11.2	11.4	26.8	0.0	27.7	0.0	30.0	0.0	30.3	0.0
03/17/05	1.6	0.0	---	---	19.4	0.0	19.0	0.0	20.7	0.0	20.2	0.0

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		
03/04/05	142.6	0.0	144.6	0.0	140.5	0.0	140.4	0.0	24.3	104.1
03/05/05	129.9	0.0	137.0	0.0	140.8	0.0	142.7	0.0	23.2	109.7
03/06/05	109.3	0.0	100.1	0.0	101.1	0.0	122.1	1.3	11.1	103.1
03/07/05	107.8	0.0	127.6	0.0	127.9	0.0	123.1	1.3	13.4	101.9
03/08/05	111.7	0.0	118.5	0.0	121.3	0.0	121.8	1.3	11.6	102.8
03/09/05	120.6	0.0	109.6	0.0	118.0	0.0	120.4	1.3	6.1	106.9
03/10/05	138.3	0.0	143.0	0.0	136.2	0.0	133.5	1.3	15.5	110.6
03/11/05	122.6	0.0	123.8	0.0	127.7	0.0	143.7	1.3	26.6	109.7
03/12/05	116.3	0.0	117.7	0.0	122.5	0.0	123.2	1.2	13.4	102.5
03/13/05	115.1	0.0	118.4	0.0	122.1	0.0	138.9	1.5	22.3	109.1
03/14/05	105.1	0.0	118.0	0.0	113.9	0.0	122.7	1.2	3.1	112.2
03/15/05	110.4	0.0	110.4	0.0	116.4	0.0	123.1	1.4	0.0	115.6
03/16/05	129.7	0.0	130.5	0.0	135.7	0.3	128.3	1.3	5.8	115.2
03/17/05	137.5	0.0	114.9	0.0	110.9	0.0	125.3	1.4	7.9	110.0

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: **3/4/2005** to **03/17/05**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2005	400,000	03-14-05	03-18-05	Powell Acclim Pond	Lochsa River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	90,000	03-14-05	04-01-05	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	100,000	03-14-05	04-01-05	Squaw Cr Acclim Pond	Salmon River (ID)
Idaho Dept. of Fish and Game	McCall Hatchery	CH1	SU	2005	105,000	03-14-05	03-15-05	Johnson Cr Idaho	South Fork Salmon River
Idaho Dept. of Fish and Game	McCall Hatchery	CH1	SU	2005	1,050,000	03-15-05	03-25-05	Knox Bridge	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2005	525,000	03-14-05	04-08-05	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2005	200,000	03-11-05	03-11-05	Hazard Creek/Little Salmon R	Little Salmon River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2005	300,000	03-08-05	03-10-05	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2005	2,700,000	03-14-05	04-22-05	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game Total					5,470,000				
Nez Perce Tribe	Eagle Creek NFH	CO	UN	2005	37,000	03-10-05	03-10-05	Lapwai Creek	Clearwater River M F
Nez Perce Tribe	Eagle Creek NFH	CO	UN	2005	93,000	03-09-05	03-09-05	Clear Creek	Clearwater River M F
Nez Perce Tribe	Eagle Creek NFH	CO	UN	2005	180,000	03-09-05	03-09-05	Clearwater River	Snake River
Nez Perce Tribe	Eagle Creek NFH	CO	UN	2005	280,000	03-07-05	03-07-05	Potlatch River	Clearwater River M F
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2005	95,400	03-11-05	03-20-05	Lostine Accim Pond	Wallowa River
Nez Perce Tribe Total					685,400				
Oregon Dept. of Fish and Wildlife	Oak Springs Hatchery	ST	SU	2005	30,000	03-15-05	03-15-05	Hood River	Hood River
Oregon Dept. of Fish and Wildlife Total					30,000				
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2005	739,000	03-16-05	04-13-05	Warm Springs Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					739,000				
Umatilla Tribe	Bonneville Hatchery	CH1	FA	2005	211,315	03-08-05	03-11-05	Umatilla River	Umatilla River
Umatilla Tribe	Little White Salmon NFH	CH1	SP	2005	205,490	03-14-05	03-16-05	Imeques Acclim Pond	Umatilla River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2005	130,900	03-14-05	03-27-05	Catherine Cr Acclim Pond	Grande Ronde River
Umatilla Tribe	Umatilla Hatchery	CH1	SP	2005	584,775	03-02-05	03-08-05	Imeques Acclim Pond	Umatilla River
Umatilla Tribe Total					1,132,480				
Washington Dept. of Fish and Wildlife	Klickitat Hatchery	CH1	SP	2005	600,000	03-01-05	03-11-05	Klickitat Hatchery	Klickitat River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH1	SP	2005	440,000	03-11-05	03-18-05	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					1,040,000				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	268,500	03-09-05	04-29-05	Easton Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	274,500	03-09-05	04-29-05	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	284,500	03-09-05	04-29-05	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Yakama Hatchery	CH0	FA	2005	150,000	03-11-05	03-18-05	Stiles Pond	Yakama River
Yakama Tribe Total					977,500				
Grand Total					10,074,380				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 3/18/2005 to 3/31/2005

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2005	400,000	03-14-05	03-18-05	Powell Acclim Pond	Lochsa River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	90,000	03-14-05	04-01-05	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2005	100,000	03-14-05	04-01-05	Squaw Cr Acclim Pond	Salmon River (ID)
Idaho Dept. of Fish and Game	McCall Hatchery	CH1	SU	2005	1,050,000	03-15-05	03-25-05	Knox Bridge	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2005	445,000	03-31-05	04-08-05	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2005	525,000	03-14-05	04-08-05	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2005	2,700,000	03-14-05	04-22-05	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game Total					5,310,000				
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2005	69,200	03-28-05	04-14-05	Lostine Accim Pond	Wallowa River
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2005	95,400	03-11-05	03-20-05	Lostine Accim Pond	Wallowa River
Nez Perce Tribe Total					164,600				
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2005	437,000	03-26-05	04-15-05	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife Total					437,000				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	40,000	03-28-05	04-11-05	Hazard Creek/Little Salmon R	Little Salmon River
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	100,000	03-28-05	04-11-05	Little Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2005	160,000	03-28-05	04-11-05	Little Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Kooskia NFH	CH1	SP	2005	620,000	03-21-05	04-04-05	Kooskia Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2005	739,000	03-16-05	04-13-05	Warm Springs Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					1,659,000				
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2005	1,000	03-24-05	04-14-05	Grande Ronde Acclim Pond	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2005	98,500	03-18-05	04-08-05	Lookingglass Hatchery	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2005	104,300	03-24-05	04-14-05	Grande Ronde Acclim Pond	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2005	130,900	03-14-05	03-27-05	Catherine Cr Acclim Pond	Grande Ronde River
Umatilla Tribe Total					334,700				
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	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					136,000				
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	160,000	03-25-05	03-31-05	Cottonwood Acclim Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH1	SP	2005	440,000	03-11-05	03-18-05	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					724,000				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	268,500	03-09-05	04-29-05	Easton Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	274,500	03-09-05	04-29-05	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2005	284,500	03-09-05	04-29-05	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Yakama Hatchery	CH0	FA	2005	150,000	03-11-05	03-18-05	Stiles Pond	Yakama River
Yakama Tribe Total					977,500				
Grand Total					9,742,800				

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

Total Dissolved Gas Saturation Data at Upper Columbia River Sites

Date	<u>Hungry H. Dnst</u>			<u>Boundary</u>			<u>Grand Coulee</u>			<u>Grand C. Tlwr</u>			<u>Chief Joseph</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
3/4	---	---	---	0	103	103	104	24	102	102	102	24	102	103	104	24	---	---	---	0
3/5	---	---	---	0	103	104	104	24	102	102	102	24	102	103	104	24	---	---	---	0
3/6	---	---	---	0	102	103	104	24	102	102	103	24	102	102	103	24	---	---	---	0
3/7	---	---	---	0	103	104	104	24	102	102	103	24	102	103	105	24	---	---	---	0
3/8	---	---	---	0	103	104	104	24	102	103	103	24	102	103	105	24	---	---	---	0
3/9	---	---	---	0	104	105	105	24	102	102	103	23	102	102	104	24	---	---	---	0
3/10	---	---	---	0	103	104	105	24	102	103	103	24	102	103	105	24	---	---	---	0
3/11	---	---	---	0	104	105	105	24	103	104	104	24	103	104	106	24	---	---	---	0
3/12	---	---	---	0	104	104	105	24	103	103	103	24	103	104	104	24	---	---	---	0
3/13	---	---	---	0	103	104	104	24	103	103	103	23	103	104	105	24	---	---	---	0
3/14	---	---	---	0	104	105	106	20	104	104	105	24	104	105	106	20	---	---	---	0
3/15	---	---	---	0	105	106	106	24	105	105	106	24	104	105	107	24	---	---	---	0
3/16	---	---	---	0	105	106	106	24	106	106	106	24	105	106	108	24	---	---	---	0
3/17	---	---	---	0	106	107	108	24	105	105	106	24	105	105	107	24	---	---	---	0

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>			<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
3/4	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/5	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/6	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/7	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/8	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/9	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/10	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/11	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/12	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/13	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/14	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/15	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/16	---	---	---	0	---	---	---	0	---	---	---	0	100	100	100	24	99	99	99	24
3/17	---	---	---	0	---	---	---	0	---	---	---	0	103	105	105	24	103	105	106	24

Total Dissolved Gas Saturation at Mid Columbia River Sites

Date	<u>Rock Island</u>			<u>Rock I. Tlwr</u>			<u>Wanapum</u>			<u>Wanapum Tlwr</u>			<u>Priest Rapids</u>			#				
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg			Avg	High		
3/4	99	99	99	24	101	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
3/5	99	99	99	24	101	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
3/6	99	99	99	24	102	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
3/7	99	99	99	24	102	102	102	24	---	---	---	0	---	---	---	0	---	---	---	0
3/8	99	99	99	24	102	102	103	24	---	---	---	0	---	---	---	0	---	---	---	0
3/9	99	99	99	24	102	102	103	24	---	---	---	0	---	---	---	0	---	---	---	0
3/10	99	99	99	24	102	102	103	24	---	---	---	0	---	---	---	0	---	---	---	0
3/11	99	99	99	24	103	103	104	24	---	---	---	0	---	---	---	0	---	---	---	0
3/12	99	99	99	24	102	103	103	24	---	---	---	0	---	---	---	0	---	---	---	0
3/13	99	99	99	24	103	103	103	24	---	---	---	0	---	---	---	0	---	---	---	0
3/14	99	99	99	24	104	104	105	24	---	---	---	0	---	---	---	0	---	---	---	0
3/15	101	103	105	24	104	104	105	15	---	---	---	0	---	---	---	0	---	---	---	0
3/16	105	106	107	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/17	105	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	Priest R. Dnst			#	Pasco			#	Dworshak			#	Clrwrtr-Peck			#	Anatone			#
	24 h	12 h	High		24 h	12 h	High		24 h	12 h	High		24 h	12 h	High		24 h	12 h	High	
	Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr	
3/4	---	---	---	0	---	---	---	0	107	108	110	24	---	---	---	0	---	---	---	0
3/5	---	---	---	0	---	---	---	0	106	107	109	24	---	---	---	0	---	---	---	0
3/6	---	---	---	0	---	---	---	0	103	104	106	24	---	---	---	0	---	---	---	0
3/7	---	---	---	0	---	---	---	0	104	105	106	24	---	---	---	0	---	---	---	0
3/8	---	---	---	0	---	---	---	0	105	105	107	24	---	---	---	0	---	---	---	0
3/9	---	---	---	0	---	---	---	0	105	106	113	24	---	---	---	0	---	---	---	0
3/10	---	---	---	0	---	---	---	0	104	105	106	24	---	---	---	0	---	---	---	0
3/11	---	---	---	0	---	---	---	0	105	106	107	23	---	---	---	0	---	---	---	0
3/12	---	---	---	0	---	---	---	0	104	105	106	24	---	---	---	0	---	---	---	0
3/13	---	---	---	0	---	---	---	0	108	109	110	24	---	---	---	0	---	---	---	0
3/14	---	---	---	0	---	---	---	0	103	104	106	24	---	---	---	0	---	---	---	0
3/15	---	---	---	0	---	---	---	0	105	106	107	24	---	---	---	0	---	---	---	0
3/16	---	---	---	0	---	---	---	0	107	109	110	24	---	---	---	0	---	---	---	0
3/17	---	---	---	0	---	---	---	0	106	109	110	24	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation Data at Snake River Sites

Date	Clrwrtr-Lewiston			#	Lower Granite			#	L. Granite Tlwr			#	Little Goose			#	L. Goose Tlwr			#
	24 h	12 h	High		24 h	12 h	High		24 h	12 h	High		24 h	12 h	High		24 h	12 h	High	
	Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr	
3/4	---	---	---	0	103	103	104	24	103	103	103	24	---	---	---	0	---	---	---	0
3/5	---	---	---	0	103	104	104	24	103	103	104	24	---	---	---	0	---	---	---	0
3/6	---	---	---	0	104	104	105	24	103	104	104	24	---	---	---	0	---	---	---	0
3/7	---	---	---	0	104	104	105	24	104	104	105	24	---	---	---	0	---	---	---	0
3/8	---	---	---	0	105	106	107	24	104	104	105	24	---	---	---	0	---	---	---	0
3/9	---	---	---	0	105	105	106	24	104	104	105	24	---	---	---	0	---	---	---	0
3/10	---	---	---	0	106	108	109	24	104	104	105	24	---	---	---	0	---	---	---	0
3/11	---	---	---	0	107	108	109	24	106	106	109	24	---	---	---	0	---	---	---	0
3/12	---	---	---	0	105	106	107	24	104	105	106	24	---	---	---	0	---	---	---	0
3/13	---	---	---	0	104	105	105	24	104	104	104	24	---	---	---	0	---	---	---	0
3/14	---	---	---	0	106	108	109	24	105	106	106	24	---	---	---	0	---	---	---	0
3/15	---	---	---	0	107	107	108	24	106	106	107	24	---	---	---	0	---	---	---	0
3/16	---	---	---	0	106	107	107	24	106	106	107	24	---	---	---	0	---	---	---	0
3/17	---	---	---	0	105	105	106	24	105	105	106	24	---	---	---	0	---	---	---	0

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

Date	Lower Mon.			#	L. Mon. Tlwr			#	Ice Harbor			#	Ice Harbor Tlwr			#	McNary-Oregon			#
	24 h	12 h	High		24 h	12 h	High		24 h	12 h	High		24 h	12 h	High		24 h	12 h	High	
	Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr		Avg	Avg	hr	
3/4	---	---	---	0	---	---	---	0	101	102	102	24	102	103	103	24	103	104	106	24
3/5	---	---	---	0	---	---	---	0	101	102	102	24	102	102	103	24	103	104	105	24
3/6	---	---	---	0	---	---	---	0	101	102	103	24	102	102	103	24	104	105	108	24
3/7	---	---	---	0	---	---	---	0	102	103	103	24	103	103	104	24	104	105	106	24
3/8	---	---	---	0	---	---	---	0	103	103	104	24	103	103	104	24	105	106	108	24
3/9	---	---	---	0	---	---	---	0	103	103	104	24	103	104	105	24	105	105	107	24
3/10	---	---	---	0	---	---	---	0	104	104	105	24	104	104	104	24	105	105	106	24
3/11	---	---	---	0	---	---	---	0	106	106	107	24	105	106	107	24	106	108	109	24
3/12	---	---	---	0	---	---	---	0	105	106	106	24	105	106	106	24	105	106	106	24
3/13	---	---	---	0	---	---	---	0	105	105	105	24	105	106	107	24	105	106	107	24
3/14	---	---	---	0	---	---	---	0	106	107	108	24	106	107	107	24	106	108	110	24
3/15	---	---	---	0	---	---	---	0	107	107	108	24	107	108	108	24	107	107	108	24
3/16	---	---	---	0	---	---	---	0	108	108	109	24	107	108	109	24	107	108	109	24
3/17	---	---	---	0	---	---	---	0	107	108	108	24	108	108	109	24	106	107	108	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>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr				
3/4	103	103	103	24	103	103	104	24	---	---	---	0	---	---	---	0	---	---	---	0
3/5	103	103	103	24	103	103	103	24	---	---	---	0	---	---	---	0	---	---	---	0
3/6	104	105	106	24	103	103	104	24	---	---	---	0	---	---	---	0	---	---	---	0
3/7	105	105	106	24	104	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
3/8	104	104	105	24	104	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
3/9	105	105	106	24	104	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0
3/10	105	106	106	24	104	105	105	24	---	---	---	0	---	---	---	0	---	---	---	0
3/11	106	107	108	24	106	106	106	24	---	---	---	0	---	---	---	0	---	---	---	0
3/12	106	107	108	24	105	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
3/13	105	105	106	24	105	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0
3/14	107	108	109	24	106	106	106	24	---	---	---	0	---	---	---	0	---	---	---	0
3/15	107	108	108	24	106	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
3/16	106	107	109	24	106	107	107	24	---	---	---	0	---	---	---	0	---	---	---	0
3/17	106	106	106	24	105	105	106	24	---	---	---	0	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashugal</u>						
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>	<u>24h</u>	<u>12h</u>	<u>#</u>				
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
3/4	---	---	---	0	104	104	104	24	107	108	108	24	106	107	108	23
3/5	---	---	---	0	104	104	105	24	106	107	107	24	107	108	108	23
3/6	---	---	---	0	104	105	105	24	105	106	106	24	106	107	108	23
3/7	---	---	---	0	105	105	105	24	105	106	106	24	106	107	108	23
3/8	---	---	---	0	105	105	106	24	106	106	107	24	106	108	109	23
3/9	---	---	---	0	106	106	106	24	106	107	108	24	107	108	109	23
3/10	---	---	---	0	106	106	107	24	107	108	108	24	107	108	109	23
3/11	---	---	---	0	106	107	107	24	107	108	109	24	107	108	109	23
3/12	---	---	---	0	106	107	107	24	107	107	108	24	107	108	109	23
3/13	---	---	---	0	106	106	106	24	106	107	107	24	107	108	108	23
3/14	---	---	---	0	106	107	107	24	106	107	108	22	107	108	109	23
3/15	---	---	---	0	107	107	107	24	107	107	108	24	108	108	109	23
3/16	---	---	---	0	106	106	107	24	106	106	107	24	107	107	108	23
3/17	---	---	---	0	104	105	105	24	105	105	106	24	105	106	107	23

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/04/2005	---	0	---	---	---	---	---	---	---	---	0
03/05/2005	---	0	---	---	---	---	---	---	---	---	0
03/06/2005	---	0	---	---	---	---	---	---	---	---	0
03/07/2005	0	0	---	0	---	---	---	---	---	---	0
03/08/2005	0	0	0	0	---	---	---	---	---	---	0
03/09/2005	0	0	0	0	---	---	---	---	---	---	0
03/10/2005	0	0	0	0	---	---	---	---	---	---	0
03/11/2005	0	0	0	0	---	---	---	---	---	---	0
03/12/2005	---	0	0	---	---	---	---	---	---	---	0
03/13/2005	---	0	0	---	---	---	---	---	---	---	0
03/14/2005	0	0	0	0	---	---	---	---	---	---	0
03/15/2005	0	---	0	0	---	---	---	---	---	---	0
03/16/2005	0	---	0	0	---	---	---	---	---	---	0
03/17/2005	0	---	0	0	---	---	---	---	---	---	0
03/18/2005	---	---	---	---	---	---	---	---	---	---	0

Total:	0	0	0	0	0	0	0	0	0	0	0
# Days:	9	11	10	9	0	0	0	0	0	0	15
Average:	0	0	0	0	0	0	0	0	0	0	0
YTD	0	0	0	0	0	0	0	0	0	0	0

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

Smolt indices, clipped & unclipped or combined, are presented in the following order: yearling chinook (chinook 1's), subyearling chinook (chinook 0's), steelhead, coho, and sockeye. Two classes of fish counts are shown in these tables: collection counts, which account for sample rates but are not adjusted for flow; and passage indices, which are collection counts divided by the proportion of water passing through the sampled powerhouse. Passage indices are not population estimates, but are used to adjust collection counts for daily fluctuations in the site's or project's operations. The classes of counts presented in the report are defined below for each site. Most samples occur over a 24-hr period that spans two calendar days. In this report, the date shown corresponds with the sample end date.

Definitions for Smolt Index Counts

- WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
 - IMN (Collection) = Imnaha River Trap : Collection Counts
 - GRN (Collection) = Grande Ronde River Trap : Collection Counts
 - LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
 - LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
 - MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
 - BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
 - BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 1 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
- JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
 RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
 LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
 LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
 IMN data collected for the FPC by the Nez Perce Tribe. ENT data collected for the FPC by USFWS.

Cumulative Adult Passage at Mainstem Dams Through: 03/16

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	5	0	39	0	188	0	0	0	0	0	0	0	0	0	0	0	0	0
TDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IHR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LMN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LWG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	0	0	0	0	0	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

DAM	Coho						Sockeye			Steelhead			
	2005		2004		10-Yr Avg.		2005	2004	10-Yr Avg.	2005	2004	10-Yr Avg.	Wild 2005
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	0	0	0	0	0	0	0	0	-1	134	101	-17
TDA	0	0	0	0	0	0	0	0	0	0	0	0	0
JDA	0	0	0	0	0	0	0	0	0	0	0	0	0
MCN	0	0	0	0	0	0	0	0	0	0	0	0	0
IHR	0	0	0	0	0	0	0	0	0	0	0	0	0
LMN	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	0	0	0	0	0	0	0	0	0	0	0	0	0
LWG	0	0	0	0	0	0	0	0	0	1,707	2,156	1,856	385
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	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

LGR is through 03/15. BON is through 03/16.

*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: 03/18/05

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

