



# Fish Passage Center Weekly Report #06 - 9

May 5, 2006

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## Summary of Events:

**Water Supply:** Precipitation throughout the Columbia Basin has varied between 78% and 263% of average at individual sub-basins over the first twenty-four days of April. Precipitation above The Dalles over the first twenty-four days of April has been 161% of average. Over the entire water year, precipitation has been above average at all locations in Table 1.

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

Location	Water Year 2006 Apr 1-24		Water Year 2006 October 1, 2005 to April 24	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	2.18	165	17.73	114
Snake River Above Ice Harbor	2.32	198	15.69	137
Columbia Above The Dalles	2.11	161	18.2	117
Kootenai	1.97	141	18.8	118
Clark Fork	2.61	263	13.43	135
Flathead	2.33	184	17.12	127
Pend Oreille/Spokane	2.49	138	25.28	115
Central Washington	1.08	211	8.73	136
Snake River Plain	1.80	216	9.77	141
Salmon/Boise/Payette	2.56	200	20.74	148
Clearwater	3.28	154	23.5	113
SW Washington Cascades/Cowlitz	3.33	78	60.13	104
Willamette Valley	3.23	83	55.28	112

Snowpack within the Columbia Basin is above average. Average snowpack in the Columbia River for basins above the Snake River confluence is 106% of average, for Snake River Basins the average snowpack is 119% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack 111% of average.

Table 2 displays the March Final, April Final, and May Early runoff volume forecasts for multiple reservoirs. The May Early forecast at The Dalles between January and July is 112000 Kaf (104% of average). Water supply forecasts at all locations in Table 2 have increased between the April Final and May Early forecasts.

**Table 2. March Final, April Final, and May Early Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.**

Location	March Final		April Final		May Early	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	100	107000	100	107000	104	112000
Grand Coulee (Jan-July)	98	61900	96	60600	102	64100
Libby Res. Inflow, MT (Jan-July)	98	6200	96	6030	102	6450
Hungry Horse Res. Inflow, MT (Jan-July)	106	2360	99	2210	103	2280
Lower Granite Res. Inflow (Apr-July)	109	23400	118	25500	130	28000
Brownlee Res. Inflow (Apr-July)	110	6940	133	8380	147	9280
Dworshak Res. Inflow (Apr-July)	99	2620	96	2540	100	2640

Grand Coulee Reservoir is at 1231.3 feet (5-4-06) and has drafted 1.1 feet over the last week.

The Libby Reservoir is currently at elevation 2418.7 feet (5-4-06) and filled 6.8 feet last week. Outflows have been 4 Kcfs over the last week.

Hungry Horse is currently at an elevation of 3516.1 feet (5-4-06) and refilled 0.2 feet last week. Outflows at Hungry Horse have recently dropped to 7.9 Kcfs.

Dworshak is currently at an elevation of 1539.5 feet (5-4-06) and refilled 4.2 feet last week; outflows at Dworshak have been approximately 10 Kcfs over the last several days.

The Brownlee Reservoir was at an elevation of 2033.6 feet on May 4th, 2006 (refilling 8.5 feet last week). Outflows at Brownlee have been as high as 64 Kcfs over the last week.

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite) and on April 10th in the mid (Priest Rapids) and lower (McNary) Columbia River. According to the April Final Water Supply Forecast, the flow objectives this spring are 100 Kcfs at Lower Granite, 260 Kcfs at McNary, and 135 Kcfs at Priest Rapids. Flows at Lower Granite have averaged 127.8 Kcfs over the season and 135.6 Kcfs last week; flows at McNary have averaged 324.9 Kcfs over the season and 334.6 Kcfs last week; and flows at Priest Rapids have averaged 175.9 Kcfs over the season and 181.6 Kcfs last week.

**Spill:** Some involuntary spill is occurring in the system due to continued high flows and at some projects spill is exceeding the voluntary levels set for fish passage. Spill in excess of turbine capacity at Dworshak Dam occurred the first few days of the past week, but outflow was decreased to Powerhouse capacity on May 1. Spill operations for fish passage at the Lower Snake River projects began on April 3, 2006 in accordance with the December 29, 2005 District Court Order and Opinion. Spill at Lower Granite, Little Goose, Lower Monumental and Ice Harbor dams averaged 38%, 22%, 20% and 44% of average daily flow over the past week, respectively. Spill at Lower Granite is exceeding

the objective of the Court Order of 20 Kcfs for 24 hours. Spill at Little Goose Dam is less than the Court's Order of 30% of instantaneous flow for 24 hours, and continues to be limited because total dissolved gas in the Lower Monumental forebay exceeded the waiver criteria. Spill at Lower Monumental Dam is also less than the 40 Kcfs for 24 hours specified in the order and was restricted for TDG exceedences in Ice Harbor forebay. Ice Harbor Dam spill has been meeting, or exceeding, the Court Order.

Spill for fish passage began on April 10 at Lower Columbia River projects. Spill for fish passage McNary, John Day, The Dalles and Bonneville dams was 476%, 40%, 37% and 36% of average daily flow, respectively. McNary Dam has been exceeding the requirements of the Court's Order. John Day Dam is being operated with a limited hydraulic capacity. Spill at The Dalles Dam is significantly less, but closer, than called for in the Court's Order and is being limited to decrease TDG in the Bonneville Dam forebay. Spill at Bonneville Dam has met, or exceeded the Court Order over the past week.

Total dissolved gas levels have exceeded the TDG waiver limits at some locations over the past week. Biological monitoring has not shown that criteria levels have been exceeded. However, a few fish have been showing minor signs of GBT.

**Smolt Monitoring:** Relatively large numbers of migrant yearling Chinook and steelhead continue to be collected at Smolt Monitoring Traps in the Snake River Basin tributaries, although catch at all but the Lewiston Trap, have declined as high early season flows have receded. Passage indices for juvenile spring migrants at all SMP sites at Lower Snake and Lower Columbia dams have continued increasing over the past week.

At the Salmon River Trap daily collection of yearling Chinook averaged around 960 per day the past week which is roughly 350 fish per day fewer than the previous week, while steelhead capture decreased to 130 per day this week. Hatchery origin fish predominate in the collection at this trap. At the Imnaha Trap yearling Chinook collection

declined from 100 per day average last week to 20 per day this week, while steelhead capture decreased more slowly from 430 per day last week to 215 per day this week. At the Grande Ronde Trap yearling Chinook numbers decreased this past week while steelhead capture jumped up in the past few days from just a handful of fish to over 200 per day. At the Lewiston Trap yearling Chinook collection was edging upward over the past 10 days of reported samples, averaging 1000 fish per day, while steelhead numbers were trending downward over the same time period, averaging 150 per day or less.

At Lower Granite Dam, yearling Chinook indices averaged roughly 155,000 per day over the past week compared to 50,000 per day the previous week. Steelhead indices averaged 150,000 per day this week compared to 114,000 per day last week. Clipped hatchery origin fish made up over 80% of the steelhead and 90% of yearling Chinook passing the project in the past few days. Sockeye indices at Lower Granite Dam may reflect the passage of what are thought to be small kokanee flushed from Dworshak Reservoir and carried downstream to Lower Granite Dam by the higher than average flows for this time of year. However, May is also the time when sockeye from the Salmon River Basin typically pass through the Snake River, so it may be the fish are a combination of endangered sockeye and kokanee. The reason the passage indices at Little Goose are higher than at Lower Granite this season is that the passage index expands for spill assuming 1 to 1 efficiency of fish passing per percent volume spill. Spill efficiency at Lower Granite is likely much higher than 1 to 1 at 40% spill so that the index does not fully account for the fish passing in spill. In addition, the BGS is also being tested at Lower Granite Dam this year and the effect of that on spill efficiency is not known, but could improve spill efficiency also. In the next week FPC will be adjusting passage indices (especially at Lower Granite Dam) to better reflect known spill efficiency where data are available, using newly summarized research data developed by NOAA for regional modeling efforts.

At Little Goose Dam, collection of fish for transportation began April 24, so that full 24 hour sampling has been conducted since that date. Indices for yearling Chinook reached 335,000 on May 4 with the steelhead index also reaching a season high of 350,000. Lower Monumental began transport on April 29, so that full 24 hour samples began on that date. The passage indices for yearling Chinook averaged 45,000 this past week, while steelhead indices averaged 46,000.

At Rock Island Dam and the Lower Columbia SMP sites, indices for all spring migrants continued to increase over the past two weeks. The only exception was the yearling Chinook index at McNary Dam, which declined from 79,000 per day last week to 64,000 per day this week.

**Adult Fish Passage:** Adult counts at Bonneville Dam have been increasing over the last week, ranging between 750 and 2,602 adult spring Chinook per day. Adult spring Chinook counts this year are still behind 2005 and the ten-year average, being only 38% of the 2005 count and 14% of the ten year average. Between March 15th and May 4th, 15,454 spring Chinook adults had passed Bonneville Dam; this compares to 40,092 spring Chinook adults over the same period last year and 112,069 over the same period on a ten-year average. Daily adult steelhead passage numbers at Bonneville Dam have ranged between 22 and 52 over the last week.

At upriver sites, adult steelhead continue 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. This week at Lower Granite Dam 208 more adult steelhead were counted, making a total of 7,528 adult steelhead passing Lower Granite Dam since January 1; this compares to 4,733 steelhead over the same period last year and 6,145 steelhead over a ten-year average.

**Hatchery Releases: Snake River-** Releases of yearling spring Chinook in the Snake River Basin are basically complete for 2006 migration year. Summer steelhead releases are also nearing completion with trucking of steelhead continuing from the Salmon River Basin from Hagerman NFH. Steelhead releases at Big Canyon acclimation pond in the Grande Ronde River basin are scheduled to continue through May 12. Releases of subyearling Chinook are scheduled for to begin next week at Captain John's Acclimation pond, where 230,000 fish will voluntarily exit over a 2 to 3-week period.

**Mid-Columbia** - Releases of upper Mid-Columbia spring Chinook and steelhead are mostly in-river with steelhead releases either ongoing (Yakima R) or completed (Wenatchee R) during the past week. The large yearling summer Chinook releases from Dryden, Similkameen, and Carlton ponds as well as Wells H should be in-river.

**Lower Columbia** - In the Lower Columbia River, releases of yearling Chinook and steelhead are ongoing from various acclimation facilities in the Umatilla River, with the steelhead releases scheduled to end by the second week of May. In the Hood River releases of steelhead and yearling Chinook are ongoing. Spring Creek NFH is scheduled to release an additional 3.3 million subyearling fall Chinook on May 8.

**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
04/21/06	166.5	0.0	175.2	0.0	185.4	43.7	177.9	14.7	178.6	34.0	186.9	86.2	172.0	103.4
04/22/06	158.5	0.0	163.1	0.0	170.9	32.6	169.4	6.6	173.3	32.0	188.8	70.2	191.2	111.6
04/23/06	156.9	0.0	156.0	0.0	164.2	25.8	155.4	6.9	160.7	29.1	179.4	53.3	186.7	107.5
04/24/06	159.0	0.0	163.4	0.0	170.3	28.8	164.9	10.8	172.7	35.7	175.5	60.0	174.6	100.1
04/25/06	156.4	0.0	164.5	0.0	176.5	32.5	171.2	10.0	174.5	36.5	188.9	52.8	183.2	107.3
04/26/06	135.4	0.0	139.5	0.0	155.3	10.3	155.9	0.5	163.3	34.7	171.7	24.3	178.7	103.1
04/27/06	144.5	0.0	143.9	0.0	151.7	10.0	147.8	0.0	152.5	35.0	164.7	12.7	172.4	98.8
04/28/06	153.8	0.0	161.2	0.0	163.7	14.4	154.5	0.3	159.9	33.3	159.6	29.9	165.1	95.0
04/29/06	155.6	0.0	156.8	0.0	169.0	12.2	167.5	23.9	173.0	34.0	181.1	32.0	172.1	97.2
04/30/06	146.3	0.0	147.7	0.0	162.7	10.0	159.7	21.0	168.2	33.3	179.0	24.9	182.4	102.3
05/01/06	147.9	0.0	155.8	0.0	168.0	19.7	165.3	23.5	172.5	36.0	188.9	50.5	184.0	28.1
05/02/06	170.5	0.0	169.4	0.0	180.3	15.1	180.4	44.6	185.5	36.6	202.1	67.7	195.6	44.9
05/03/06	147.8	0.0	154.3	0.0	178.3	14.2	184.9	43.2	188.2	36.2	198.6	59.3	195.4	52.8
05/04/06	155.0	0.0	154.4	0.0	158.3	10.0	154.4	43.4	158.0	37.0	168.9	13.3	176.9	21.5

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

Date	Dworshak		Brownlee Canyon		Hells Granite		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/21/06	15.0	4.6	66.0	62.3	117.5	31.8	113.4	27.0	116.4	24.9	118.2	51.7	118.2	51.7
04/22/06	14.9	4.5	66.4	56.9	114.8	29.3	114.6	27.6	118.0	25.0	121.2	52.0	121.2	52.0
04/23/06	14.6	4.2	67.8	68.4	119.3	33.7	114.6	27.5	117.0	22.0	120.5	51.9	120.5	51.9
04/24/06	14.2	3.8	70.7	72.1	131.5	45.8	128.5	27.6	131.8	19.3	132.2	52.9	132.2	52.9
04/25/06	14.0	3.6	71.1	72.1	134.1	49.3	132.2	27.6	134.5	21.3	136.9	53.9	136.9	53.9
04/26/06	13.9	3.5	68.5	72.4	132.9	49.1	130.3	27.5	130.6	23.4	133.6	52.3	133.6	52.3
04/27/06	14.1	3.7	65.6	66.3	125.0	39.2	124.3	27.6	125.2	21.5	128.2	51.9	128.2	51.9
04/28/06	14.0	3.5	65.1	63.5	124.7	39.2	123.4	27.6	125.2	23.4	127.8	55.2	127.8	55.2
04/29/06	13.9	3.5	62.7	60.2	127.1	42.2	124.7	27.5	124.1	22.2	123.9	58.5	123.9	58.5
04/30/06	13.8	3.4	64.9	66.2	139.5	56.0	135.9	30.9	138.2	28.1	138.8	58.8	138.8	58.8
05/01/06	10.5	0.1	68.4	64.9	153.1	67.0	152.3	41.4	154.8	39.0	157.8	79.6	157.8	79.6
05/02/06	10.4	0.0	66.1	55.2	142.0	56.4	142.2	33.1	146.4	32.6	150.4	69.9	150.4	69.9
05/03/06	10.4	0.0	62.8	55.3	133.7	50.1	130.7	23.9	131.4	22.8	133.1	59.2	133.1	59.2
05/04/06	10.0	0.0	---	---	129.1	47.6	125.5	23.9	127.4	23.0	131.6	47.7	131.6	47.7

**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		
04/21/06	305.1	130.6	314.0	97.5	317.8	101.8	334.4	97.8	81.6	143.5
04/22/06	286.7	112.3	295.3	88.8	281.7	101.0	320.1	83.6	81.4	143.7
04/23/06	318.7	145.3	315.7	101.2	308.8	109.8	323.0	83.4	82.2	145.9
04/24/06	335.1	167.9	335.1	172.8	324.1	104.2	325.2	93.4	84.7	135.6
04/25/06	315.7	151.6	301.0	140.3	301.8	97.1	329.8	104.5	83.1	130.8
04/26/06	338.5	164.3	319.2	130.1	309.3	98.6	320.9	103.9	79.3	126.1
04/27/06	326.0	150.3	341.3	133.1	334.2	102.6	343.7	120.1	83.8	128.2
04/28/06	303.5	128.4	299.1	108.9	292.2	99.4	335.8	112.0	83.8	128.6
04/29/06	305.2	126.2	298.9	108.7	292.6	96.6	312.6	100.9	79.2	121.1
04/30/06	316.7	139.6	316.8	106.3	309.9	99.8	318.6	100.5	78.7	127.8
05/01/06	357.2	182.4	337.0	143.2	329.7	117.7	340.1	119.5	81.5	127.6
05/02/06	358.7	181.2	365.9	182.4	361.5	162.9	382.8	159.9	84.2	127.2
05/03/06	354.4	180.7	354.7	162.4	346.5	141.2	378.4	152.2	84.8	129.9
05/04/06	346.2	170.7	347.9	129.7	341.5	126.6	364.5	140.8	83.6	128.7



## HATCHERY RELEASE LAST TWO WEEKS (con't)

Agency	From:		to		MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
	Hatchery	Species	Race	05/04/06						
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2006	201,012	04-17-06	04-30-06	Chiwawa Hatchery	Wenatchee River	
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2006	401,000	04-15-06	05-01-06	Carlton Acclim Pond	Methow River	
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2006	604,066	04-17-06	04-27-06	Similkameen Acclim Pd	Okanogan River	
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2006	50,000	04-15-06	04-30-06	Baileysburg Bridge	Touchet River	
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2006	60,000	04-15-06	04-30-06	Lyons Ferry Hatchery	Snake River	
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2006	85,000	04-15-06	04-30-06	Dayton Acclim Pond	Touchet River	
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2006	100,000	04-15-06	04-30-06	Tucannon River	Tucannon River	
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2006	100,000	04-15-06	04-30-06	Walla Walla River	Walla Walla River	
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2006	160,000	04-15-06	04-30-06	Cottonwood Acclim Pond	Grande Ronde River	
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2006	65,000	04-15-06	05-01-06	Methow River	Methow River	
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2006	99,500	04-15-06	05-01-06	Twisp River	Methow River	
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2006	206,000	04-15-06	05-01-06	Chewuch Acclim Pond	Methow River	
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	CH0	SP	2006	480,000	04-10-06	04-30-06	Ringold Springs Hatchery	Mid-Columbia River	
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2006	280,000	04-10-06	04-30-06	Ringold Springs Hatchery	Mid-Columbia River	
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2006	199,800	04-03-06	04-23-06	Curl Lake Acclim Pond	Tucannon River	
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2006	65,000	04-03-06	04-30-06	Tucannon River	Tucannon River	
<b>Washington Dept. of Fish and Wildlife Total</b>					<b>3,156,378</b>					
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	231,551	03-15-06	05-14-06	Jack Creek Acclim Pond	Yakima River	
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	273,636	03-15-06	05-14-06	Easton Pond	Yakima River	
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	280,667	03-15-06	05-14-06	Clark Flat Acclim Pond	Yakima River	
Yakama Tribe	Leavenworth NFH	CO	UN	2006	34,112	04-26-06	05-15-06	Nason Creek	Wenatchee River	
Yakama Tribe	Leavenworth NFH	CO	UN	2006	108,064	04-26-06	05-15-06	Maher Creek Acclim. Pond	Wenatchee River	
Yakama Tribe	Leavenworth NFH	CO	UN	2006	108,574	04-26-06	05-15-06	Coulter Creek	Wenatchee River	
Yakama Tribe	Wells Hatchery	CO	UN	2006	149,804	04-19-06	04-30-06	Wells Hatchery	Mid-Columbia River	
Yakama Tribe	Winthrop NFH	CO	UN	2006	74,800	04-19-06	04-30-06	Winthrop Hatchery	Methow River	
Yakama Tribe	Winthrop NFH	CO	UN	2006	245,241	03-19-06	04-30-06	Winthrop Hatchery	Methow River	
<b>Yakama Tribe Total</b>					<b>1,506,449</b>					
<b>Grand Total</b>					<b>10,429,677</b>					

# HATCHERY RELEASE NEXT TWO WEEKS

## Hatchery Release Summary

From: **5/5/2006** to **5/18/2006**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
National Marine Fisheries Service	Lyons Ferry Hatchery	CH0	FA	2006	230,000	05-15-06	06-02-06	Cpt John Acclim Pond	Snake River
<b>National Marine Fisheries Service Total</b>					<b>230,000</b>				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2006	100,000	05-02-06	05-12-06	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2006	174,000	04-29-06	05-11-06	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH0	FA	2006	400,000	05-08-06	05-10-06	Hells Canyon Dam	Snake River
<b>Oregon Dept. of Fish and Wildlife Total</b>					<b>674,000</b>				
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2006	100,000	05-08-06	05-12-06	East Fk Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2006	240,000	05-08-06	05-10-06	Yankee Fk (Salmon R)	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2006	850,000	04-14-06	05-05-06	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2006	3,300,000	05-08-06	05-08-06	Spring Creek Hatchery	L Col R (D/s McN Dam)
<b>U.S. Fish and Wildlife Service Total</b>					<b>4,490,000</b>				
Umatilla Tribe	Umatilla Hatchery	ST	SU	2006	45,000	04-30-06	05-15-06	Bonifer Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2006	45,000	04-30-06	05-15-06	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2006	45,000	04-30-06	05-15-06	Thornhollow Acclim Pond	Umatilla River
<b>Umatilla Tribe Total</b>					<b>135,000</b>				
Warm Springs Tribe	Oak Springs Hatchery	ST	SU	2006	2,000	05-10-06	05-11-06	Hood River	Hood River
Warm Springs Tribe	Oak Springs Hatchery	ST	SU	2006	20,000	04-28-06	05-10-06	W Fk Hood River	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2006	1,900	05-08-06	05-09-06	Hood River	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2006	1,900	05-09-06	05-10-06	Hood River	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2006	23,000	04-25-06	05-08-06	W Fk Hood River	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2006	23,000	04-25-06	05-08-06	W Fk Hood River	Hood River
<b>Warm Springs Tribe Total</b>					<b>71,800</b>				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	231,551	03-15-06	05-14-06	Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	273,636	03-15-06	05-14-06	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2006	280,667	03-15-06	05-14-06	Clark Flat Acclim Pond	Yakima River
Yakama Tribe	Leavenworth NFH	CO	UN	2006	34,112	04-26-06	05-15-06	Nason Creek	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2006	108,064	04-26-06	05-15-06	Maher Creek Acclim. Pond	Wenatchee River
Yakama Tribe	Leavenworth NFH	CO	UN	2006	108,574	04-26-06	05-15-06	Coulter Creek	Wenatchee River
<b>Yakama Tribe Total</b>					<b>1,036,604</b>				
<b>Grand Total</b>					<b>6,637,404</b>				



## 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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>
4/21	---	---	---	0	119	119	120	24	107	108	108	24	106	106	107	24	105	105	106	24
4/22	---	---	---	0	117	119	120	24	106	106	107	24	104	105	105	24	104	104	104	15
4/23	---	---	---	0	116	117	120	24	107	108	109	24	105	105	106	24	104	104	104	23
4/24	---	---	---	0	117	120	120	24	108	109	109	24	105	106	106	24	105	105	105	24
4/25	---	---	---	0	118	120	120	24	109	109	109	24	106	106	107	24	105	106	106	24
4/26	---	---	---	0	118	120	121	24	109	109	110	24	106	107	107	24	105	106	106	24
4/27	---	---	---	0	119	119	120	13	108	108	108	24	106	106	106	13	105	105	106	24
4/28	---	---	---	0	119	120	121	24	108	109	111	24	105	106	107	24	106	106	107	24
4/29	---	---	---	0	120	121	121	25	110	111	112	24	107	108	109	25	106	107	107	24
4/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/1	---	---	---	0	122	122	123	24	110	110	110	24	108	108	109	24	106	107	107	24
5/2	---	---	---	0	121	122	122	24	109	109	109	24	107	108	108	24	106	106	106	16
5/3	---	---	---	0	121	122	123	22	110	110	111	22	108	108	109	22	107	107	107	24
5/4	---	---	---	0	121	122	124	24	111	112	113	24	109	110	111	24	107	108	108	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

Date	<u>Chief J. Dnst</u>			<u>Wells</u>			<u>Wells Dwnstrm</u>				<u>Rocky Reach</u>			<u>Rocky R. Tlwr</u>						
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>
4/21	105	105	106	24	104	105	105	24	113	116	126	24	110	111	112	24	111	113	116	24
4/22	104	104	104	14	103	103	103	24	110	115	121	24	111	112	113	24	112	113	115	24
4/23	104	104	105	23	103	103	104	24	108	111	117	24	112	113	115	24	112	114	116	24
4/24	105	105	105	23	104	104	105	24	110	112	118	24	108	109	111	24	108	110	113	24
4/25	105	105	106	23	105	105	105	24	111	112	118	24	111	112	113	24	112	113	115	24
4/26	105	105	106	24	105	105	105	24	107	108	111	24	111	111	111	24	111	112	112	24
4/27	104	105	105	24	104	104	104	24	106	107	107	24	109	110	111	24	109	110	111	24
4/28	105	106	107	24	105	105	106	24	107	108	113	24	107	107	108	24	107	107	108	24
4/29	106	106	107	23	106	106	106	24	109	110	113	25	108	108	109	25	109	111	115	25
4/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/1	106	106	107	22	105	106	106	24	108	109	116	24	107	107	107	24	109	111	114	24
5/2	105	105	106	15	104	105	106	24	107	108	113	24	106	107	109	24	109	111	112	24
5/3	106	106	107	24	106	106	106	24	108	109	114	24	109	109	109	24	111	112	113	24
5/4	107	107	108	24	106	107	108	24	108	109	109	24	109	109	110	24	112	113	114	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	
	<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>
4/21	111	113	114	24	116	117	117	24	115	116	117	23	122	122	122	23	117	118	119	23
4/22	112	113	114	24	116	117	118	24	112	113	113	23	119	120	122	23	117	117	119	23
4/23	111	111	113	24	116	116	116	24	111	112	112	23	117	118	118	23	116	117	119	23
4/24	111	113	114	24	115	115	116	24	113	114	114	23	119	120	122	23	115	116	117	23
4/25	111	113	114	24	116	116	116	24	115	116	118	23	117	120	122	23	118	119	120	23
4/26	110	111	112	24	116	116	116	24	113	114	115	23	115	117	119	23	117	118	119	23
4/27	109	110	111	24	116	116	117	24	113	114	115	23	114	116	117	23	113	114	115	23
4/28	107	108	108	24	116	116	116	24	114	115	118	23	115	117	118	23	114	116	117	23
4/29	108	109	111	25	113	115	116	25	114	115	116	23	116	117	119	15	116	117	119	23
4/30	---	---	---	0	---	---	---	0	109	110	111	23	---	---	---	0	109	110	111	23
5/1	108	110	113	24	115	115	116	24	109	109	110	23	115	117	119	16	110	111	113	23
5/2	110	111	112	24	115	116	116	24	---	---	---	0	---	---	---	0	---	---	---	0
5/3	112	112	112	24	116	116	117	24	---	---	---	0	---	---	---	0	---	---	---	0
5/4	112	113	113	24	109	117	117	24	---	---	---	0	---	---	---	0	---	---	---	0

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

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

Date	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clrwrtr-Peck</u>			<u>Anatone</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>#</u>			
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>				<u>hr</u>	<u>Avg</u>	<u>Avg</u>
4/21	121	122	122	23	115	116	117	24	109	110	111	24	104	105	105	24	108	108	109	24
4/22	121	122	123	23	114	115	116	24	109	109	110	24	104	104	105	24	106	107	107	24
4/23	121	122	122	23	115	115	116	24	109	110	110	24	104	105	105	24	107	109	109	23
4/24	121	121	121	23	114	115	116	24	108	109	109	24	104	104	105	24	109	110	125	23
4/25	122	122	123	23	115	116	116	24	108	108	108	24	104	104	105	24	109	109	111	24
4/26	121	122	122	23	115	116	116	24	108	108	109	24	104	105	105	24	109	110	110	23
4/27	120	120	121	23	115	115	116	24	108	108	108	24	104	104	105	24	108	109	109	23
4/28	120	121	121	23	115	116	117	24	108	108	108	24	104	105	105	24	108	109	109	24
4/29	120	121	122	23	115	116	117	25	108	108	109	24	104	105	105	24	108	108	109	23
4/30	118	118	120	23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/1	113	114	119	23	112	113	114	24	100	101	107	24	102	103	103	24	108	109	111	24
5/2	---	---	---	0	108	110	110	24	99	100	100	24	101	102	103	24	107	108	108	24
5/3	---	---	---	0	112	114	114	24	99	99	100	24	101	102	103	24	107	108	109	21
5/4	---	---	---	0	113	114	114	24	99	100	102	24	101	102	103	24	108	108	109	24

### Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwrtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>#</u>			
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>				<u>hr</u>	<u>Avg</u>	<u>Avg</u>
4/21	103	103	104	24	109	109	110	24	115	117	119	24	114	115	116	24	116	116	117	24
4/22	103	103	104	24	106	107	108	24	114	115	117	24	112	112	113	24	115	115	115	24
4/23	103	104	106	24	105	106	106	24	116	116	118	24	109	109	110	24	115	115	115	24
4/24	103	103	104	24	106	106	106	24	118	119	120	24	108	108	108	24	115	115	115	24
4/25	103	104	105	24	107	107	107	24	119	120	120	24	109	110	111	24	114	115	115	24
4/26	103	104	105	24	107	107	107	24	119	120	120	24	111	111	112	24	115	116	116	24
4/27	103	104	105	24	107	107	107	24	117	117	118	24	112	112	112	24	115	115	115	24
4/28	103	104	106	24	107	107	108	24	117	117	118	24	113	115	115	24	115	116	116	24
4/29	103	104	105	24	108	108	108	24	118	119	120	24	115	115	116	24	116	116	117	24
4/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/1	101	102	103	24	106	106	106	24	123	124	124	24	112	112	113	24	117	118	119	24
5/2	101	102	103	24	105	105	106	24	121	122	124	24	114	115	115	24	117	117	118	24
5/3	101	102	104	24	106	106	107	24	120	120	120	24	116	117	118	24	118	118	119	24
5/4	102	103	104	24	106	107	107	24	119	119	120	24	117	117	117	24	118	118	118	24

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

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>			#				
	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>		<u>#</u>			
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>				<u>hr</u>	<u>Avg</u>	<u>Avg</u>
4/21	118	118	119	24	118	120	123	24	116	117	117	24	118	118	119	24	---	---	---	0
4/22	115	115	116	24	121	122	122	24	115	115	115	24	118	118	118	24	---	---	---	0
4/23	115	115	115	24	120	121	122	24	115	115	115	24	118	118	119	24	---	---	---	0
4/24	114	114	114	24	118	118	119	24	114	114	114	24	118	119	120	24	---	---	---	0
4/25	114	114	114	24	117	118	118	24	113	114	114	24	118	119	119	24	---	---	---	0
4/26	114	114	114	23	119	120	122	23	114	114	114	24	118	119	120	24	---	---	---	0
4/27	114	114	115	24	117	117	118	24	113	113	113	24	118	118	119	24	---	---	---	0
4/28	115	116	116	24	117	118	118	24	114	114	115	24	117	118	119	24	---	---	---	0
4/29	116	117	117	24	117	118	119	24	115	116	116	24	117	118	118	24	---	---	---	0
4/30	114	114	115	24	117	118	119	24	113	113	114	24	118	118	119	24	---	---	---	0
5/1	114	114	114	24	117	118	119	24	113	113	114	24	120	121	122	24	---	---	---	0
5/2	114	115	117	24	116	118	119	24	113	113	114	24	119	120	121	24	---	---	---	0
5/3	117	117	118	24	118	118	119	24	115	115	115	24	118	119	120	24	---	---	---	0
5/4	116	117	117	24	117	117	118	24	115	116	116	24	117	117	117	24	---	---	---	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 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>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/21	116	116	117	24	118	120	120	24	115	115	115	24	119	119	120	24	113	115	116	24
4/22	114	114	115	24	117	119	120	24	114	115	115	24	118	119	119	24	113	114	114	24
4/23	114	115	115	24	118	119	119	24	114	114	114	24	119	120	120	24	114	114	115	24
4/24	114	115	115	24	119	120	122	24	113	113	114	24	121	122	123	24	114	116	120	24
4/25	115	115	116	24	119	120	120	24	113	113	113	24	119	120	121	24	119	120	121	24
4/26	115	115	115	24	120	121	122	24	112	112	113	24	119	119	119	24	113	114	115	24
4/27	114	115	115	24	120	120	120	24	112	113	114	24	119	120	120	24	114	115	116	24
4/28	115	116	117	24	117	118	120	24	115	115	116	23	119	119	119	23	115	116	116	24
4/29	116	116	117	25	116	117	120	25	115	116	116	25	115	118	120	25	114	115	117	25
4/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
5/1	111	112	112	24	119	120	120	24	112	112	113	24	115	116	121	24	112	112	114	24
5/2	111	112	114	24	120	120	121	24	109	110	110	24	119	121	122	24	115	116	119	24
5/3	111	112	112	24	120	120	122	24	110	111	112	24	120	120	120	24	116	117	118	24
5/4	112	114	115	24	119	120	120	24	112	113	114	24	119	119	119	24	114	115	116	24

### Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>				<u>Bonneville</u>				<u>Warrendale</u>				<u>Camas/Washougal</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>		#
	Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr		Avg	Avg	High	hr	
4/21	117	117	118	24	114	115	117	24	115	116	118	24	115	116	116	24	119	119	120	17
4/22	116	117	118	24	114	114	115	24	115	115	116	24	113	114	115	24	122	123	125	17
4/23	117	118	118	24	115	116	116	24	115	115	116	24	114	114	114	24	119	120	125	17
4/24	117	118	119	24	116	117	117	24	116	117	117	24	115	116	116	24	121	121	123	17
4/25	120	121	122	24	117	117	117	24	117	117	117	24	116	117	118	24	119	119	120	17
4/26	116	117	118	24	118	118	119	24	117	118	118	24	115	116	117	24	121	121	123	17
4/27	117	118	118	24	114	114	115	24	116	116	117	24	116	117	117	24	119	120	120	17
4/28	118	118	119	22	116	117	118	24	117	117	117	24	116	117	117	24	119	119	119	17
4/29	121	121	121	1	115	117	117	25	116	117	117	24	115	116	116	25	120	120	121	18
4/30	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	119	120	121	14
5/1	115	115	116	8	111	111	112	24	114	114	115	23	111	112	113	24	121	122	128	17
5/2	119	120	121	24	113	114	117	24	117	117	118	23	114	116	117	24	122	123	124	17
5/3	120	120	120	24	118	119	120	24	120	120	120	23	117	118	119	24	122	122	124	17
5/4	118	119	119	24	119	119	120	24	120	120	120	23	118	119	119	24	124	124	124	17

## Two-Week Summary of Passage Indices

\* One or more of the sites on this date had an incomplete or biased sample.

See Sampling Comments: <http://www.fpc.org/currentDaily/smpcomments.htm>

For clip information see: <http://www.fpc.org/CurrentDaily/catch.htm>

For sockeye and yearling chinook (Snake only) race information see: <http://www.fpc.org/smoltqueries/currentsmpsubmitdata.asp>

<b>COMBINED YEARLING CHINOOK</b>												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
04/21/2006	*	1,232	149	213	772	40,376	60,571	0	320	158,719	14,555	33,594
04/22/2006	*	---	88	342	966	34,400	48,391	871	209	---	24,163	25,135
04/23/2006	*	---	137	414	775	42,298	48,181	0	215	63,106	34,020	30,910
04/24/2006	*	---	84	357	558	47,249	45,625	59	147	---	43,049	41,470
04/25/2006	*	2,077	68	310	927	68,977	61,458	4,520	102	45,855	53,734	38,119
04/26/2006	*	923	71	271	1,272	62,021	126,237	0	188	---	38,465	32,300
04/27/2006	*	955	44	149	1,380	71,195	64,692	0	182	48,300	39,767	28,407
04/28/2006	*	1,559	43	215	1,114	90,137	83,360	34,965	232	---	42,931	39,526
04/29/2006	*	733	---	272	1,001	90,110	94,868	35,606	2,643	59,115	44,511	33,508
04/30/2006	*	577	---	510	1,360	129,835	57,678	27,589	5,228	---	50,872	33,432
05/01/2006	*	---	3	232	533	194,703	104,256	36,196	1,952	65,897	62,283	51,971
05/02/2006	*	---	10	4	---	205,603	157,473	63,998	1,685	---	80,097	52,165
05/03/2006		---	17	160	---	208,816	216,346	59,568	822	68,753	56,952	55,241
05/04/2006	*	---	---	100	---	160,779	335,932	59,084	2,227	---	69,815	43,799
05/05/2006		---	---	---	---	---	---	---	---	---	---	53,051
<hr/>												
<b>Total:</b>		<b>8,056</b>	<b>714</b>	<b>3,549</b>	<b>10,658</b>	<b>1,446,499</b>	<b>1,505,068</b>	<b>322,456</b>	<b>16,152</b>	<b>509,745</b>	<b>655,214</b>	<b>592,628</b>
<b># Days:</b>		<b>7</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>15</b>
<b>Average:</b>		<b>1,151</b>	<b>65</b>	<b>254</b>	<b>969</b>	<b>103,321</b>	<b>107,505</b>	<b>23,033</b>	<b>1,154</b>	<b>72,821</b>	<b>46,801</b>	<b>39,509</b>
<b>YTD</b>		<b>30,145</b>	<b>24,619</b>	<b>10,880</b>	<b>13,913</b>	<b>1,826,177</b>	<b>1,797,438</b>	<b>327,207</b>	<b>18,066</b>	<b>583,379</b>	<b>742,059</b>	<b>999,471</b>

<b>COMBINED SUBYEARLING CHINOOK</b>												
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2	
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	
04/21/2006	*	0	0	0	0	0	0	38	2,491	386	4,152	
04/22/2006	*	---	0	0	2	0	529	0	104	---	2,014	
04/23/2006	*	---	0	0	5	0	2,647	0	75	3,581	1,939	
04/24/2006	*	---	0	0	4	0	1,622	0	22	---	724	
04/25/2006	*	0	0	0	0	0	637	0	14	4,546	1,385	
04/26/2006	*	0	0	1	8	639	1,267	0	29	---	896	
04/27/2006	*	0	0	0	3	0	3,819	0	13	2,191	1,280	
04/28/2006	*	0	0	0	0	0	1,290	181	48	---	2,185	
04/29/2006	*	0	---	0	3	0	773	61	7	2,249	1,185	
04/30/2006	*	0	---	0	15	0	0	0	12	---	505	
05/01/2006	*	---	0	1	0	350	267	0	20	1,215	1,523	
05/02/2006	*	---	0	0	---	0	0	0	10	---	2,488	
05/03/2006		---	1	0	---	0	254	0	5	6,988	1,336	
05/04/2006	*	---	---	0	---	320	0	0	5	---	1,554	
05/05/2006		---	---	---	---	---	---	---	---	---	2,591	
<hr/>												
<b>Total:</b>		<b>0</b>	<b>1</b>	<b>2</b>	<b>40</b>	<b>1,309</b>	<b>13,105</b>	<b>242</b>	<b>402</b>	<b>23,261</b>	<b>10,647</b>	<b>25,757</b>
<b># Days:</b>		<b>7</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>15</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>94</b>	<b>936</b>	<b>17</b>	<b>29</b>	<b>3,323</b>	<b>761</b>	<b>1,717</b>
<b>YTD</b>		<b>3</b>	<b>34</b>	<b>7</b>	<b>55</b>	<b>8,654</b>	<b>13,632</b>	<b>340</b>	<b>1,328</b>	<b>37,107</b>	<b>11,919</b>	<b>1,265,625</b>

## 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)	
04/21/2006	*	0	0	0	3	457	506	0	3	0	172	1,38
04/22/2006	*	---	0	0	4	542	0	0	5	---	71	2,89
04/23/2006	*	---	0	0	2	539	0	0	12	339	292	3,72
04/24/2006	*	---	0	0	0	144	0	0	16	---	293	2,45
04/25/2006	*	0	0	0	2	311	127	0	9	208	0	3,91
04/26/2006	*	0	0	0	1	319	253	0	7	---	551	3,33
04/27/2006	*	0	0	0	0	0	509	0	14	1,493	0	3,07
04/28/2006	*	0	0	0	0	582	1,290	362	13	---	660	5,15
04/29/2006	*	0	---	0	0	585	1,289	123	67	172	318	6,43
04/30/2006	*	0	---	0	2	605	0	121	187	---	1,451	4,99
05/01/2006	*	---	0	0	0	1,051	802	0	38	560	1,079	12,97
05/02/2006	*	---	0	0	---	1,062	272	198	96	---	524	15,85
05/03/2006		---	0	0	---	649	508	122	73	1,851	1,791	18,71
05/04/2006	*	---	---	0	---	2,882	2,451	181	218	---	3,229	13,14
05/05/2006		---	---	---	---	---	---	---	---	---	---	12,54
<hr/>												
<b>Total:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>9,728</b>	<b>8,007</b>	<b>1,107</b>	<b>758</b>	<b>4,623</b>	<b>10,431</b>	<b>110,57</b>
<b># Days:</b>		<b>7</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>1</b>
<b>Average:</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>695</b>	<b>572</b>	<b>79</b>	<b>54</b>	<b>660</b>	<b>745</b>	<b>7,37</b>
<b>YTD</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>	<b>12,200</b>	<b>9,535</b>	<b>1,120</b>	<b>798</b>	<b>4,734</b>	<b>10,872</b>	<b>156,74</b>

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)	
04/21/2006	*	24	304	36	65	73,743	70,322	0	5	16,997	8,329	1,13
04/22/2006	*	---	351	60	61	74,353	150,432	2,384	13	---	12,524	2,60
04/23/2006	*	---	561	181	79	163,534	59,027	0	28	54,555	14,653	2,01
04/24/2006	*	---	420	301	312	53,895	42,769	59	39	---	16,858	3,53
04/25/2006	*	422	572	67	226	71,624	67,725	4,403	28	51,117	25,492	3,82
04/26/2006	*	171	510	42	194	145,413	82,778	0	52	---	35,268	5,69
04/27/2006	*	145	295	22	113	212,038	89,345	0	63	36,634	43,336	4,94
04/28/2006	*	148	307	38	75	82,577	145,008	54,530	69	---	52,387	6,38
04/29/2006	*	187	---	50	71	129,314	110,585	52,643	164	21,926	42,762	6,60
04/30/2006	*	73	---	156	117	116,821	100,205	44,045	238	---	54,836	15,74
05/01/2006	*	---	155	48	154	127,117	87,915	41,220	126	24,388	66,163	23,30
05/02/2006	*	---	227	1	---	241,345	130,402	50,604	194	---	88,212	12,62
05/03/2006		---	164	224	---	179,961	155,131	38,137	216	17,160	62,319	6,97
05/04/2006	*	---	---	215	---	185,120	349,019	46,670	351	---	53,118	7,77
05/05/2006		---	---	---	---	---	---	---	---	---	---	6,68
<hr/>												
<b>Total:</b>		<b>1,170</b>	<b>3,866</b>	<b>1,441</b>	<b>1,467</b>	<b>1,856,855</b>	<b>1,640,663</b>	<b>334,695</b>	<b>1,586</b>	<b>222,777</b>	<b>576,257</b>	<b>109,85</b>
<b># Days:</b>		<b>7</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>1</b>
<b>Average:</b>		<b>167</b>	<b>351</b>	<b>103</b>	<b>133</b>	<b>132,633</b>	<b>117,190</b>	<b>23,907</b>	<b>113</b>	<b>31,825</b>	<b>41,161</b>	<b>7,32</b>
<b>YTD</b>		<b>1,414</b>	<b>14,642</b>	<b>6,844</b>	<b>1,759</b>	<b>2,286,203</b>	<b>2,097,609</b>	<b>339,983</b>	<b>1,706</b>	<b>240,484</b>	<b>621,969</b>	<b>122,70</b>

## Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/21/2006 *	0	0	0	0	152	1,528	0	35	207	43	0
04/22/2006 *	---	0	0	1	271	1,059	51	18	---	142	0
04/23/2006 *	---	0	0	1	269	1,853	0	55	850	267	0
04/24/2006 *	---	0	0	0	433	976	0	159	---	0	72
04/25/2006 *	0	0	0	1	156	705	0	38	3,522	750	244
04/26/2006 *	0	0	0	0	639	1,393	0	86	---	331	81
04/27/2006 *	0	0	0	0	310	518	0	299	2,492	1,529	84
04/28/2006 *	0	0	0	0	1,454	517	544	478	---	1,430	0
04/29/2006 *	0	---	0	0	878	1,291	245	1,208	4,485	636	254
04/30/2006 *	0	---	0	2	303	5	0	696	---	737	254
05/01/2006 *	---	0	0	0	700	1,339	130	346	11,853	1,293	401
05/02/2006 *	---	0	0	---	708	1,643	924	551	---	2,356	644
05/03/2006	---	0	0	---	649	513	305	259	28,985	2,087	297
05/04/2006 *	---	---	0	---	320	2,969	1,755	488	---	8,761	283
05/05/2006	---	---	---	---	---	---	---	---	---	---	1,091
<b>Total:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>7,242</b>	<b>16,309</b>	<b>3,954</b>	<b>4,716</b>	<b>52,394</b>	<b>20,362</b>	<b>3,705</b>
<b># Days:</b>	<b>7</b>	<b>11</b>	<b>14</b>	<b>11</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>7</b>	<b>14</b>	<b>15</b>
<b>Average:</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>517</b>	<b>1,165</b>	<b>282</b>	<b>337</b>	<b>7,485</b>	<b>1,454</b>	<b>247</b>
<b>YTD</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>14,579</b>	<b>22,644</b>	<b>4,078</b>	<b>4,889</b>	<b>53,163</b>	<b>21,025</b>	<b>4,190</b>

\* 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)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.

RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.

LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.

LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.

IMN data collected for the FPC by the Nez Perce Tribe.

## Two Week Transportation Summary

Source: Fish Passage Center

Updated:

5/5/06 11:35 AM

		04/22/06	TO	05/05/06			
		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	800	910,977	6,200	4,700	1,193,923	2,116,600
	Sum of NumberBarged	786	816,439	6,157	4,563	1,179,899	2,007,844
	Sum of NumberBypassed	0	91,901	0	0	13,705	105,606
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	70	0	3	28	102
	Sum of FacilityMorts	13	2,527	43	134	276	2,993
	Sum of ResearchMorts	0	40	0	0	15	55
	Sum of TotalProjectMorts	14	2,637	43	137	319	3,150
<b>LGS</b>	Sum of NumberCollected	10,151	1,176,642	6,300	12,664	1,281,189	2,486,946
	Sum of NumberBarged	6,474	1,019,076	5,897	8,377	1,033,554	2,073,378
	Sum of NumberBypassed	3,671	155,571	400	4,048	246,684	410,374
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	3	35	0	6	4	48
	Sum of FacilityMorts	3	1,027	3	131	187	1,351
	Sum of ResearchMorts	0	5	0	0	1	6
	Sum of TotalProjectMorts	6	1,067	3	137	192	1,405
<b>LMN</b>	Sum of NumberCollected	199	258,934	897	3,182	269,615	532,827
	Sum of NumberBarged	50	231,154	748	2,641	226,045	460,638
	Sum of NumberBypassed	149	27,501	149	486	43,355	71,640
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	16	0	3	6	25
	Sum of FacilityMorts	0	213	0	52	159	424
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	229	0	55	165	449
<b>MCN</b>	Sum of NumberCollected	11,981	263,549	2,352	26,629	117,750	422,261
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	11,939	263,273	2,350	26,593	117,675	421,830
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	4	24	0	4	8	40
	Sum of FacilityMorts	36	240	2	28	64	370
	Sum of ResearchMorts	2	12	0	4	3	21
	Sum of TotalProjectMorts	42	276	2	36	75	431
<b>Total Sum of NumberCollected</b>		<b>23,131</b>	<b>2,610,102</b>	<b>15,749</b>	<b>47,175</b>	<b>2,862,477</b>	<b>5,558,634</b>
<b>Total Sum of NumberBarged</b>		<b>7,310</b>	<b>2,066,669</b>	<b>12,802</b>	<b>15,581</b>	<b>2,439,498</b>	<b>4,541,860</b>
<b>Total Sum of NumberBypassed</b>		<b>15,759</b>	<b>538,246</b>	<b>2,899</b>	<b>31,127</b>	<b>421,419</b>	<b>1,009,450</b>
<b>Total Sum of Numbertrucked</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Sum of SampleMorts</b>		<b>8</b>	<b>145</b>	<b>0</b>	<b>16</b>	<b>46</b>	<b>215</b>
<b>Total Sum of FacilityMorts</b>		<b>52</b>	<b>4,007</b>	<b>48</b>	<b>345</b>	<b>686</b>	<b>5,138</b>
<b>Total Sum of ResearchMorts</b>		<b>2</b>	<b>57</b>	<b>0</b>	<b>4</b>	<b>19</b>	<b>82</b>
<b>Total Sum of TotalProjectMorts</b>		<b>62</b>	<b>4,209</b>	<b>48</b>	<b>365</b>	<b>751</b>	<b>5,435</b>

**YTD Transportation Summary**

Source: Fish Passage Center

Updated:

5/5/06 11:35 AM

TO: **05/05/06**

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
<b>LGR</b>	Sum of NumberCollected	5,540	1,151,126	7,680	9,640	1,460,643	2,634,629
	Sum of NumberBarged	786	816,439	6,157	4,563	1,179,899	2,007,844
	Sum of NumberBypassed	4,736	331,981	1,479	4,930	280,401	623,527
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	5	132	1	13	45	196
	Sum of FacilityMorts	13	2,528	43	134	276	2,994
	Sum of ResearchMorts	0	46	0	0	22	68
	Sum of TotalProjectMorts	18	2,706	44	147	343	3,258
<b>LGS</b>	Sum of NumberCollected	10,554	1,398,184	7,424	17,424	1,626,305	3,059,891
	Sum of NumberBarged	6,474	1,019,076	5,897	8,377	1,033,554	2,073,378
	Sum of NumberBypassed	4,074	376,265	1,524	8,794	591,497	982,154
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	3	65	0	6	6	80
	Sum of FacilityMorts	3	1,912	3	153	264	2,335
	Sum of ResearchMorts	0	6	0	0	1	7
	Sum of TotalProjectMorts	6	1,983	3	159	271	2,422
<b>LMN</b>	Sum of NumberCollected	269	262,439	907	3,274	273,561	540,450
	Sum of NumberBarged	50	231,154	748	2,641	226,045	460,638
	Sum of NumberBypassed	218	30,998	159	576	47,295	79,246
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	17	0	3	6	27
	Sum of FacilityMorts	0	220	0	54	165	439
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1	237	0	57	171	466
<b>MCN</b>	Sum of NumberCollected	18,878	300,663	2,412	27,005	126,811	475,769
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	18,805	300,343	2,410	26,969	126,734	475,261
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	28	46	0	4	8	86
	Sum of FacilityMorts	43	262	2	28	66	401
	Sum of ResearchMorts	2	12	0	4	3	21
	Sum of TotalProjectMorts	73	320	2	36	77	508
Total Sum of NumberCollected		35,241	3,112,412	18,423	57,343	3,487,320	6,710,739
Total Sum of NumberBarged		7,310	2,066,669	12,802	15,581	2,439,498	4,541,860
Total Sum of NumberBypassed		27,833	1,039,587	5,572	41,269	1,045,927	2,160,188
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		37	260	1	26	65	389
Total Sum of FacilityMorts		59	4,922	48	369	771	6,169
Total Sum of ResearchMorts		2	64	0	4	26	96
Total Sum of TotalProjectMorts		98	5,246	49	399	862	6,654



**Cumulative Adult Passage at Mainstem Dams Through: 05/04**

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2006		2005		10-Yr Avg.		2006		2005		10-Yr Avg.		2006		2005		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	05/04	15,454	84	40,092	346	112,069	2,299	0	0	0	0	0	0	0	0	0	0	0	0
TDA	05/04	3,975	25	27,717	129	68,628	1,099	0	0	0	0	0	0	0	0	0	0	0	0
JDA	05/04	1,584	30	22,405	133	52,614	723	0	0	0	0	0	0	0	0	0	0	0	0
MCN	05/04	253	3	14,955	128	41,913	596	0	0	0	0	0	0	0	0	0	0	0	0
IHR	05/04	97	1	5,871	15	26,840	335	0	0	0	0	0	0	0	0	0	0	0	0
LMN	05/04	44	0	4,071	35	23,099	211	0	0	0	0	0	0	0	0	0	0	0	0
LGS	05/04	37	0	2,147	1	19,682	195	0	0	0	0	0	0	0	0	0	0	0	0
LGR	05/04	18	0	1,522	2	18,256	125	0	0	0	0	0	0	0	0	0	0	0	0
PRD	05/03	31	0	1,465	3	6,299	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	05/03	7	0	42	0	2,833	8	0	0	0	0	0	0	0	0	0	0	0	0
WEL	05/03	0	0	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/29	7,067	6	9,829	148	n/a	n/a	---	---	---	---	---	---	0	0	0	0	n/a	n/a

DAM	Coho						Sockeye			Steelhead			
	2006		2005		10-Yr Avg.		2006	2005	10-Yr Avg.	2006	2005	10-Yr Avg.	Wild 2006
	Adult	Jack	Adult	Jack	Adult	Jack							
BON	0	0	0	0	0	0	0	2	0	1,737	1,239	2473	508
TDA	0	0	-1	0	0	0	0	0	0	987	600	846	333
JDA	0	0	3	-14	0	-1	0	0	0	2,128	898	2711	986
MCN	0	0	0	0	0	0	0	0	0	2,001	882	1354	733
IHR	0	0	0	0	0	0	0	0	0	2,587	1,229	1563	883
LMN	0	0	0	0	0	0	0	0	0	2,601	827	1571	999
LGS	0	0	0	0	0	0	0	0	0	2,593	930	1844	839
LGR	0	0	0	0	0	0	0	0	0	7,528	4,733	6145	2,251
PRD	1	0	0	0	0	0	0	2	0	18	7	1	0
RIS	0	0	1	0	0	0	0	0	0	45	36	21	27
WEL	0	0	0	0	0	0	0	0	0	10	13	9	7
WFA	0	0	0	0	n/a	n/a	0	0	n/a	6,834	6,878	n/a	n/a

BON and LGR have switched to video counts so the data is delayed.

\*PRD is not posting wild steelhead numbers.

These numbers were collected from USACE, Grant PUD, Douglas PUD, Chelan PUD, ODFW and DART.

Wild steelhead numbers are included in the total. Wild Steelhead are defined as unclipped fish.

Historic counts (pre-1996) were obtained from CRITFC and compiled by the FPC.

Historic counts 1997 to present were obtained from the Corps of Engineers.

Page last updated on: 05/05/06

BON counts from January 1, 2006 to March 14, 2006 (our traditional counts begin March 15):

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
1	0	2,516	238

Run Year counts (June 1, 2005 to May 31, 2006) for Lower Granite:

Steelhead
0