



Fish Passage Center

Weekly Report #04 - 3

March 26, 2004

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Summary of Events:

Highlights:

- **Water supply forecasts continue to further decrease.**
- **Major reservoirs continue to be below their flood control elevations.**
- **The Entiat River traps are included with the daily smolt report.**
- **Adult spring chinook counts are lower than last year and the 10-year average.**

Water Supply: Precipitation throughout the Columbia Basin has been generally below average over most of March. Of the sites in Table 1, none recorded precipitation that was greater than average in March. Over the entire water year, precipitation has been slightly 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 2004		Water Year 2004	
	March 1-22		October 1, 2003 to	March 22, 2004
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.08	85	12.96	94
Snake River Above Ice Harbor	0.43	36	8.81	90
Columbia Above The Dalles	0.87	64	13.03	95
Kootenai	0.92	73	13.46	96
Clark Fork	0.54	64	7.27	84
Flathead	0.99	86	10.73	92
Pend Oreille/Spokane	0.83	42	17.49	90
Central Washington	0.23	38	4.98	88
Snake River Plain	0.13	16	4.59	79
Salmon/Boise/Payette	0.38	28	10.49	86
Clearwater	1.40	70	17.68	99
SW Washington Cascades/Cowlitz	2.41	48	46.08	90
Willamette Valley	1.33	29	40.79	94

Snowpack within the Columbia Basin is also slightly below average and has been decreasing (with respect to average) over the last several weeks. Average snowpack in the Columbia River for basins above the Snake River confluence is 82% of average, for Snake River Basins the average snowpack is 84% of aver-

age, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 100% of average.

Water Supply Forecasts have generally decreased over the winter months. If current precipitation and snowpack trends continue, water supply forecasts are expected to further decrease. The current forecast at The Dalles between January and July is 87% of average. Table 2 displays the February Final and March Final runoff volume forecasts for multiple reservoirs.

Table 2. February Final and March Final Runoff Volume Forecasts for various reservoirs within the Columbia and Snake River Basins.

Location	February Final		March Final	
	% Average (1971-2000)	Probable Runoff Volume (Kaf)	% Average (1971-2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	93	100000	87	92900
Grand Coulee (Jan-July)	95	59800	88	55600
Libby Res. Inflow, MT (Jan-July)	95	6000	90	5700
Hungry Horse Res. Inflow, MT (Jan-July)	96	2130	87	1930
Lower Granite Res. Inflow (Apr- July)	97	20800	93	20000
Brownlee Res. Inflow (Apr-July)	71	4510	72	4530
Dworshak Res. Inflow (Apr-July)	112	2970	100	2640

Grand Coulee Reservoir is currently drafted well below its flood control elevations. Grand Coulee ended March 25th at an elevation of 1260.4 feet, this elevation is 15.4 feet below standard BIOP required April 10th elevation (1275.8 feet) and 11.8 feet below the April 10th elevation (1272.2 feet) if a flood control swap occurs between Grand Coulee and Dworshak. Although Grand Coulee has managed to refill 1.0 foot in the last week, it appears unlikely that Grand Coulee will reach its standard April 10th BIOP elevation in 2004. Reaching the April 10 flood control elevations ensures a high probability of both meeting spring flow objectives and refill by June 30.

The Libby Reservoir is also currently well below its flood control elevations. Libby ended March 25th at an elevation of 2398.5 feet, 44.5 feet below its estimated April 10th elevation of 2443 feet. Inflows to Libby over the last week have been close to 4.0 Kcfs; therefore Libby has not needed to draft much water to meet its minimum project outflow of 4.0 Kcfs.

The Hungry Horse Reservoir is currently at an elevation of 3513.1 feet, which is 25.4 feet below its estimated April 10th BIOP elevation. Over the last week, inflows to Hungry Horse have increased, enabling Hungry Horse to refill slightly while still meeting the Columbia Falls minimum flows.

The Dworshak reservoir is currently at an elevation of 1523.1 feet. Inflows to Dworshak have increased over the past week ranging between 7.4 and 11.0 Kcfs, allowing Dworshak to refill approximately seven feet in the last week. If increased inflows persist, Dworshak should meet its April 10th system FC elevation of 1535.5 feet.

The Brownlee Reservoir was at an elevation of 2051.0 on March 25th. Brownlee is only 4.1 feet below its April 10th elevation (2055.1 feet).

Smolt Monitoring: At the Snake River Basin traps the numbers of yearling chinook being captured are increasing. At the Whitebird Trap a weekly high of 1706 yearling chinook were collected on March 24. The trap has seen an increase in the proportion of fish (0.65 to 0.70) captured that were clipped hatchery fish from the 2.8 million Rapid River hatchery fish released voluntarily beginning on March 15. The Lewiston Trap numbers remain low (3 to 31 yearling chinook), but are much higher than the 1-2 fish numbers observed last week. Numbers of yearling chinook at the Grande Ronde Trap have ranged from 182 to 353 fish, and approximately 17% of those fish were of wild origin. The number increased to the 200 to near 300 yearling chinook range at the Imnaha Trap. Steelhead numbers have also increased slightly at this trap. New this week is the addition of the Entiat Trap to the Smolt Monitoring Program reporting. Yearling chinook numbers have ranged between 13 and 53 fish over the past week.

Sampling began on March 3 at Bonneville Dam. A second release of 3.65 million subyearling fall chinook from Spring Creek Hatchery occurred on March 10, with numbers peaking significantly in the sample ending on the morning of March 13. The numbers have decreased steadily from that point, and have been averaging about 6,000 to 7,000 subyearling chinook per day over the past week. Small numbers of yearling chinook, coho and steelhead are also being reported at this project.

Hatchery Releases - The scheduled release of juvenile salmonids from Columbia River Basin hatcheries above Bonneville Dam for the 2004 migration season is estimated near 81.8 million. Supplemental and planned releases completed during the fall 2003 season are mainly considered to be 2004 migrants. The Zone Release Report below summarizes "planned" hatchery releases from State, federal or Tribal hatcheries or acclimation ponds for the 2004 Migration Season. These totals will be updated after release from the hatcheries and finalized through the year.

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 (2004). In the Snake River basin, juvenile sockeye were released in Redfish, Alturas, and Pettit lakes last fall and normally begin their migration in late April and May from the lakes.

Hatchery releases for the past two weeks accounted for about 8.7 million either started or completed during the week. Most of the juvenile fish released were yearling chinook made into the Snake River basin. For the upcoming two weeks, about 16 million fish will be released from hatcheries or else initiated during the weeks. See the Hatchery Release Summary Tables for details.

2004 Hatchery Zone Report

Race/ Species	Friday 26-Mar-2004			
	Snake River	Mid-Columbia	Lower Columbia	Total Release
Fall Chinook	2,610,000	12,430,000	21,730,094	36,770,094
Spring Chinook	10,468,976	3,910,579	5,250,398	19,629,953
Summer Chinook	2,401,322	3,264,000		5,665,322
Coho	1,199,433	1,141,000	5,924,000	8,264,433
Sockeye	62,000	315,790		377,790
Summer Steelhead	9,276,500	1,251,000	457,600	10,985,100
Winter Steelhead			90,000	90,000
Total	26,018,231	22,312,369	33,452,092	81,782,692

Snake River - Release of yearling chinook from McCall Hatchery at the Knox Bridge site on the S. Fork Salmon and at Johnson Creek have been completed for the season. Rapid River H completed specific site releases at Hells Canyon and the Little Salmon River this week with the on-site volitional release from the hatchery about 25% already out of the ponds. In the Grande Ronde basin, yearling chinook were released from the acclimation ponds located in the upper Grande Ronde and Catherine Creek. Volitional release of the Tucannon R yearling chinook began on 3/15 and should continue for about a month.

Trucking of steelhead from Niagara Springs H. to Hells Canyon began on March 22 and will continue through early April. Most steelhead releases fall between April through mid-May.

Mid-Columbia - The only action from the hatcheries located in this stretch of river has been from the Yakima River basin where volitional releases of yearling chinook commenced mid-March and will continue through mid-May.

Lower Columbia - Yearling fall chinook and spring chinook were released in early March in the Umatilla River with a scheduled release of 750,000 coho from Pendleton Acclimation Pond to be completed this week. Yearling chinook from Round Butte H and Warm Springs NFH in to Deschutes River basin began this week with the completion from these hatcheries by early April.

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 Adult Table.

At Bonneville Dam, counts of spring chinook remained at low levels through the end of the count period, April 24. Only 242 adult spring

chinook have been tallied and that compares to 4,713 in 2003 and 915 for the 10-year average. As a point of interest, adult spring chinook returning with PIT tags were from the 2001 and 2002 juvenile migration years. Marked fish (less than 10 total) were from Rapid River Hatchery, Catherine Creek Pond, Dworshak NFH in the Snake River; Leavenworth NFH in the Mid-Columbia River, and Carson NFH in the lower Columbia River. Numbers should start increasing through late April as they begin passage into and through lower Columbia River. So far, the run appears to be at least a week behind a more normal passage year. Based on pre-season projections of spring chinook destined for areas above Bonneville Dam, there should be another 359,000 on the way. That will be a significant increase compared to the early returns here in March.

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
03/12/04	61.3	0.0	67.1	0.0	66.9	0.0	68.3	0.0	72.5	0.0	74.0	0.0	71.6	0.0
03/13/04	49.6	0.0	49.0	0.0	52.6	0.0	52.0	0.0	56.1	0.0	65.2	0.0	71.4	0.0
03/14/04	35.5	0.0	41.2	0.0	39.4	0.0	38.1	0.0	40.4	0.0	61.6	0.0	71.5	0.0
03/15/04	66.4	0.0	60.4	0.0	64.4	0.0	68.8	0.1	73.3	0.0	86.5	1.6	71.4	0.0
03/16/04	73.7	0.0	72.3	0.0	73.5	0.0	73.6	0.0	76.9	0.0	73.1	0.0	71.7	0.0
03/17/04	82.7	0.0	83.8	0.0	82.4	0.0	83.6	0.0	87.5	0.0	63.8	0.0	72.1	0.0
03/18/04	78.9	0.0	80.1	0.0	80.3	0.0	76.9	0.0	82.5	0.0	85.3	0.0	72.0	0.0
03/19/04	67.7	0.0	73.6	0.0	80.3	0.0	83.7	0.0	87.5	0.0	81.4	0.0	79.1	0.0
03/20/04	54.4	0.0	57.7	0.0	58.3	0.0	57.1	0.0	60.4	0.0	65.1	0.0	71.5	0.0
03/21/04	38.4	0.0	37.1	0.0	40.2	0.0	40.1	0.0	44.1	0.0	71.7	0.0	71.3	0.0
03/22/04	67.2	0.0	66.7	0.0	69.8	0.0	72.3	0.0	76.7	0.0	74.7	0.0	71.5	0.0
03/23/04	68.8	0.0	68.1	0.0	71.5	0.0	73.9	0.0	77.2	0.0	72.2	0.0	72.0	0.0
03/24/04	77.9	0.0	79.2	0.0	81.6	0.0	82.2	0.0	87.6	0.0	83.3	0.0	73.4	0.0
03/25/04	76.4	0.0	77.0	0.0	79.7	0.0	81.1	0.0	86.5	0.0	85.2	0.0	84.3	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
03/12/04	1.6	0.0	18.4	16.5	37.1	0.0	38.5	0.0	42.4	0.0	41.0	0.0
03/13/04	1.6	0.0	18.7	16.1	37.6	0.0	36.4	0.0	38.9	0.0	38.1	0.0
03/14/04	1.6	0.0	19.0	8.7	31.4	0.0	31.4	0.0	31.5	0.0	29.9	0.0
03/15/04	1.6	0.0	20.5	17.5	44.2	0.0	46.6	0.0	50.4	0.0	48.8	0.0
03/16/04	1.5	0.0	19.9	20.3	37.3	0.0	42.1	0.0	46.1	0.0	43.1	0.1
03/17/04	1.6	0.0	20.1	21.5	40.9	0.0	34.3	0.0	36.4	0.0	32.9	0.5
03/18/04	1.6	0.0	20.3	23.5	42.2	0.0	43.7	0.0	48.6	0.0	49.4	1.2
03/19/04	1.5	0.0	19.0	19.4	47.7	0.0	47.7	0.0	52.4	0.0	48.9	0.4
03/20/04	1.5	0.0	19.7	20.4	46.7	0.0	46.1	0.0	47.1	0.0	44.9	1.0
03/21/04	1.5	0.0	19.0	18.3	47.3	0.0	47.1	0.0	48.9	0.0	46.7	0.4
03/22/04	1.5	0.0	20.8	22.6	45.4	0.0	52.9	0.0	56.9	0.0	53.9	1.1
03/23/04	1.9	0.0	20.7	21.7	58.8	0.0	67.9	0.0	70.0	0.0	65.5	0.4
03/24/04	1.6	0.0	21.3	22.3	50.2	0.0	42.6	0.0	44.6	0.0	41.3	1.1
03/25/04	1.8	0.0	---	---	56.0	0.0	54.7	0.0	61.0	0.0	59.1	1.0

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		
03/12/04	117.3	0.0	121.1	0.0	129.8	0.0	133.2	2.2	40.5	79.5
03/13/04	114.4	0.0	122.2	0.0	131.9	0.0	144.8	2.2	47.8	83.2
03/14/04	98.7	0.0	99.7	0.0	97.7	0.0	129.7	2.2	34.4	81.6
03/15/04	134.2	0.0	138.2	0.0	144.9	0.0	136.2	2.2	37.9	86.1
03/16/04	131.7	0.0	155.1	0.0	158.8	0.0	170.1	2.2	68.7	92.3
03/17/04	106.4	0.0	117.5	0.0	123.2	0.0	130.2	2.2	38.6	82.4
03/18/04	123.1	0.0	130.3	0.0	141.9	0.0	153.2	2.2	55.1	88.9
03/19/04	130.3	0.0	143.3	0.0	149.7	0.0	170.8	2.3	70.1	91.9
03/20/04	124.9	0.0	133.3	0.0	142.2	0.0	161.0	2.2	64.6	87.4
03/21/04	112.4	0.0	116.3	0.0	122.2	0.0	135.9	2.0	41.9	85.1
03/22/04	136.3	0.0	144.6	0.0	152.3	0.0	159.7	2.0	62.9	87.1
03/23/04	147.7	0.0	134.0	0.0	136.5	0.0	147.6	1.8	61.9	77.1
03/24/04	141.3	0.0	170.0	0.0	183.9	0.0	170.3	2.2	73.6	87.4
03/25/04	201.8	0.0	156.6	0.0	163.0	0.0	158.2	2.2	64.7	84.3

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: **3/12/2004** to **3/25/2004**

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	McCall Hatchery	CH1	SU	2004	1,089,000	03-22-04	03-26-04	Knox Bridge	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2004	525,000	03-22-04	04-02-04	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2004	300,000	03-18-04	03-18-04	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2004	500,000	03-15-04	03-17-04	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2004	2,763,500	03-15-04	04-23-04	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game Total					5,177,500				
Nez Perce Tribe	Eagle Creek NFH	CO	UN	2004	275,000	03-01-04	03-12-04	Lapwai Creek	Clearwater River M F
Nez Perce Tribe	Eagle Creek NFH	CO	UN	2004	275,000	03-01-04	03-12-04	Potlatch River	Clearwater River M F
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2004	116,000	03-12-04	03-21-04	Lostine Accim Pond	Wallowa River
Nez Perce Tribe	McCall Hatchery	CH1	SU	2004	112,000	03-15-04	03-19-04	Johnson Cr Idaho	South Fork Salmon River
Nez Perce Tribe Total					778,000				
Oregon Dept. of Fish and Wildlife	Cascade Hatchery	CO	UN	2004	750,000	03-08-04	03-26-04	Pendelton Acclim Pond	Umatilla River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2004	320,000	03-20-04	04-08-04	Bel. Pelton Ladder	Deschutes River
Oregon Dept. of Fish and Wildlife Total					1,070,000				
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2004	444,000	03-24-04	04-21-04	Warm Springs Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					444,000				
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2004	53,334	03-19-04	04-08-04	Lookingglass Hatchery	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2004	70,000	03-15-04	03-22-04	Grande Ronde Acclim Pond	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2004	92,000	03-15-04	03-21-04	Catherine Cr Acclim Pond	Grande Ronde River
Umatilla Tribe Total					215,334				
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	SP	2004	45,000	03-15-04	04-18-04	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	SP	2004	125,000	03-15-04	04-18-04	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife Total					170,000				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2004	267,000	03-15-04	05-15-04	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2004	280,000	03-15-04	05-15-04	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2004	291,400	03-15-04	05-15-04	Easton Pond	Yakama River
Yakama Tribe Total					838,400				
Grand Total					8,693,234				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 3/26/2004 to 4/8/2004

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2004	376,000	04-06-04	04-08-04	Powell Acclim Pond	Lochsa River
Idaho Dept. of Fish and Game	McCall Hatchery	CH1	SU	2004	1,089,000	03-22-04	03-26-04	Knox Bridge	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2004	525,000	03-22-04	04-02-04	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2004	2,763,500	03-15-04	04-23-04	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game Total					4,753,500				
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2004	56,000	04-08-04	04-08-04	Papoose Creek	Lochsa River
Nez Perce Tribe	Hagerman NFH	ST	SU	2004	42,000	04-07-04	04-07-04	Hazard Creek/Little Salmon R	Little Salmon River
Nez Perce Tribe	Hagerman NFH	ST	SU	2004	170,000	03-29-04	04-05-04	Little Salmon River	Salmon River (ID)
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2004	150,000	04-05-04	04-05-04	Cpt John Acclim Pond	Snake River
Nez Perce Tribe Total					418,000				
Oregon Dept. of Fish and Wildlife	Cascade Hatchery	CO	UN	2004	750,000	03-08-04	03-26-04	Pendelton Acclim Pond	Umatilla River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2004	320,000	03-20-04	04-08-04	Bel. Pelton Ladder	Deschutes River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	ST	SU	2004	162,000	04-05-04	04-06-04	Bel. Pelton Ladder	Deschutes River
Oregon Dept. of Fish and Wildlife Total					1,232,000				
U.S. Fish and Wildlife Service	Dworshak NFH	CH1	SP	2004	1,050,000	03-30-04	03-31-04	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Kooskia NFH	CH1	SP	2004	50,000	03-29-04	03-29-04	Clear Creek	Clearwater River M F
U.S. Fish and Wildlife Service	Kooskia NFH	CH1	SP	2004	600,000	03-29-04	03-29-04	Kooskia Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2004	3,900,000	04-08-04	04-08-04	Spring Creek Hatchery	L Col R (D/s McN Dan
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2004	444,000	03-24-04	04-21-04	Warm Springs Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					6,044,000				
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2004	53,334	03-19-04	04-08-04	Lookingglass Hatchery	Grande Ronde River
Umatilla Tribe Total					53,334				
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	SP	2004	45,000	03-15-04	04-18-04	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	SP	2004	125,000	03-15-04	04-18-04	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish and Wildlife	Washougal Hatchery	CO	NO	2004	2,500,000	04-01-04	04-08-04	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife Total					2,670,000				
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2004	267,000	03-15-04	05-15-04	Clark Flat Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2004	280,000	03-15-04	05-15-04	Jack Creek Acclim Pond	Yakama River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2004	291,400	03-15-04	05-15-04	Easton Pond	Yakama River
Yakama Tribe Total					838,400				
Grand Total					16,009,234				

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>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>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
3/12	---	---	---	0	102	103	103	24	101	101	102	24	96	97	97	23	---	---	---	0
3/13	---	---	---	0	101	102	102	24	100	100	100	24	98	100	104	18	---	---	---	0
3/14	---	---	---	0	102	103	103	24	101	101	101	24	102	103	105	23	---	---	---	0
3/15	---	---	---	0	101	101	102	12	100	101	101	24	100	100	102	11	---	---	---	0
3/16	---	---	---	0	101	101	102	8	101	101	101	24	99	99	100	7	---	---	---	0
3/17	---	---	---	0	102	102	102	4	102	102	102	24	100	100	100	3	---	---	---	0
3/18	---	---	---	0	103	103	103	4	103	103	103	24	100	100	101	3	---	---	---	0
3/19	---	---	---	0	---	---	---	0	101	101	102	24	---	---	---	0	---	---	---	0
3/20	---	---	---	0	101	102	103	20	100	100	101	24	100	100	102	16	---	---	---	0
3/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/22	---	---	---	0	104	105	106	24	102	103	103	24	101	102	104	23	---	---	---	0
3/23	---	---	---	0	105	106	106	24	103	103	103	24	102	103	106	23	---	---	---	0
3/24	---	---	---	0	104	105	106	24	103	103	103	24	101	102	105	23	---	---	---	0
3/25	---	---	---	0	105	106	106	24	103	103	104	24	102	103	105	23	---	---	---	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>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>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>		
3/12	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/13	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/14	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/15	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/16	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/17	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/18	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/19	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/20	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/22	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0

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>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>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>			<u>Avg</u>	<u>Avg</u>		
3/12	---	---	---	0	---	---	---	0	104	104	105	23	105	105	105	23	104	105	106	23
3/13	---	---	---	0	---	---	---	0	104	104	106	23	104	104	104	23	103	104	104	23
3/14	---	---	---	0	---	---	---	0	104	104	104	23	104	105	105	23	104	104	107	23
3/15	---	---	---	0	---	---	---	0	103	104	104	23	104	105	110	23	103	104	104	23
3/16	---	---	---	0	---	---	---	0	103	104	104	23	104	104	105	23	104	105	107	23
3/17	---	---	---	0	---	---	---	0	104	104	104	23	104	105	105	23	105	105	106	23
3/18	---	---	---	0	---	---	---	0	105	105	106	23	106	106	107	23	105	106	106	23
3/19	---	---	---	0	---	---	---	0	103	104	104	23	104	104	104	23	103	104	104	23
3/20	---	---	---	0	---	---	---	0	103	104	104	23	104	104	104	23	103	103	104	23
3/21	---	---	---	0	---	---	---	0	105	106	107	23	105	105	105	23	104	106	108	23
3/22	---	---	---	0	---	---	---	0	107	108	110	23	106	106	107	23	106	107	109	23
3/23	---	---	---	0	---	---	---	0	106	106	106	23	106	107	107	23	107	107	109	23
3/24	---	---	---	0	---	---	---	0	106	106	106	23	106	106	106	23	106	107	107	23
3/25	---	---	---	0	---	---	---	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	<u>Priest R. Dnst</u>			<u>Pasco</u>			<u>Dworshak</u>			<u>Clwrtr-Peck</u>			<u>Anatone</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
3/12	104	105	105	23	---	---	---	0	106	107	108	24	---	---	---	0	---	---	---	0
3/13	103	104	104	23	---	---	---	0	106	106	108	24	---	---	---	0	---	---	---	0
3/14	104	104	104	23	---	---	---	0	106	107	108	24	---	---	---	0	---	---	---	0
3/15	103	104	104	23	---	---	---	0	105	106	108	24	---	---	---	0	---	---	---	0
3/16	104	104	105	23	---	---	---	0	103	104	105	24	---	---	---	0	---	---	---	0
3/17	104	104	104	10	---	---	---	0	104	104	105	23	---	---	---	0	---	---	---	0
3/18	---	---	---	0	---	---	---	0	104	105	106	24	---	---	---	0	---	---	---	0
3/19	---	---	---	0	---	---	---	0	103	104	104	24	---	---	---	0	---	---	---	0
3/20	---	---	---	0	---	---	---	0	103	104	105	24	---	---	---	0	---	---	---	0
3/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/22	---	---	---	0	---	---	---	0	104	105	107	24	---	---	---	0	107	107	107	1
3/23	---	---	---	0	---	---	---	0	103	105	107	24	101	101	103	13	102	103	103	24
3/24	105	105	106	13	---	---	---	0	104	105	108	24	100	100	101	24	102	102	103	24
3/25	---	---	---	0	---	---	---	0	107	108	109	24	101	102	102	24	102	103	103	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clwrtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
3/12	---	---	---	0	103	103	104	24	102	103	103	24	---	---	---	0	---	---	---	0
3/13	---	---	---	0	103	103	104	24	102	103	103	24	---	---	---	0	---	---	---	0
3/14	---	---	---	0	103	103	104	24	103	103	103	24	---	---	---	0	---	---	---	0
3/15	---	---	---	0	102	103	103	24	102	103	103	24	---	---	---	0	---	---	---	0
3/16	---	---	---	0	102	103	103	24	103	103	104	24	---	---	---	0	---	---	---	0
3/17	---	---	---	0	103	103	103	24	103	103	104	24	---	---	---	0	---	---	---	0
3/18	---	---	---	0	104	104	104	24	104	104	104	24	104	104	107	11	104	104	105	12
3/19	---	---	---	0	102	102	102	24	102	102	103	24	102	102	103	24	102	103	103	24
3/20	---	---	---	0	101	102	103	24	101	101	101	24	102	102	103	24	102	102	102	24
3/21	---	---	---	0	102	102	102	11	102	102	102	11	---	---	---	0	---	---	---	0
3/22	---	---	---	0	103	104	105	24	102	102	103	24	104	105	106	24	104	104	105	24
3/23	102	103	105	15	103	103	104	24	102	102	103	24	103	104	105	24	103	104	104	24
3/24	100	101	101	24	103	103	103	24	103	103	104	24	103	103	103	24	103	103	104	24
3/25	101	102	103	24	104	104	105	24	104	104	105	24	103	104	105	24	103	104	105	24

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

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>							
	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>#</u>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
3/12	---	---	---	0	---	---	---	0	104	104	104	24	104	104	104	24	105	105	106	24
3/13	---	---	---	0	---	---	---	0	103	104	105	24	103	103	103	24	105	106	107	24
3/14	---	---	---	0	---	---	---	0	103	103	104	24	103	103	104	24	105	105	106	24
3/15	---	---	---	0	---	---	---	0	102	103	103	24	102	102	103	16	105	105	106	24
3/16	---	---	---	0	---	---	---	0	103	103	104	24	103	103	104	24	105	106	106	24
3/17	---	---	---	0	---	---	---	0	103	104	104	24	104	104	105	16	105	106	107	24
3/18	---	---	---	0	---	---	---	0	104	105	105	24	105	106	108	24	106	107	108	24
3/19	102	102	103	14	102	102	102	13	102	102	103	24	103	103	104	24	104	104	104	24
3/20	102	102	103	24	101	101	102	24	102	102	104	24	103	104	105	24	104	105	106	24
3/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/22	104	105	107	24	103	104	104	24	104	105	106	24	104	106	107	24	105	107	109	24
3/23	105	105	106	24	104	104	104	24	105	105	105	24	105	105	105	24	104	105	106	24
3/24	104	104	105	24	104	104	104	24	104	104	105	24	105	106	107	24	105	105	106	24
3/25	104	105	106	24	104	104	105	24	105	106	107	24	106	107	108	24	106	106	107	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	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	AVG	High	hr				
3/12	106	106	106	24	105	105	105	24	---	---	---	0	103	103	103	24	103	103	103	24
3/13	105	106	107	24	104	104	104	24	---	---	---	0	102	102	103	24	102	102	103	24
3/14	105	106	106	24	104	105	105	24	---	---	---	0	102	102	103	24	102	103	103	24
3/15	104	105	105	24	104	104	104	24	---	---	---	0	102	102	103	24	102	102	103	24
3/16	104	105	105	24	104	104	105	24	---	---	---	0	103	103	103	24	103	103	103	24
3/17	105	105	105	24	104	105	105	24	---	---	---	0	104	104	104	24	104	104	104	24
3/18	106	106	107	24	105	106	106	24	---	---	---	0	104	105	105	24	104	105	106	24
3/19	103	104	104	24	103	103	104	24	---	---	---	0	103	103	103	24	102	103	103	24
3/20	104	105	105	24	102	103	103	24	---	---	---	0	103	103	104	24	103	103	103	24
3/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/22	107	108	108	24	105	106	106	24	---	---	---	0	105	106	106	24	105	106	106	24
3/23	105	106	106	24	106	106	106	24	---	---	---	0	105	105	105	24	105	106	106	23
3/24	105	105	105	24	105	105	106	24	---	---	---	0	105	105	105	24	105	105	105	24
3/25	106	107	108	24	106	107	107	24	---	---	---	0	105	105	106	24	105	106	106	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/Washugal</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>#</u>			
	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	Avg	Avg	High	hr			
3/12	103	103	103	23	103	104	104	24	106	107	107	24	104	106	106	23
3/13	102	102	103	23	103	103	103	24	106	106	106	24	105	105	106	23
3/14	102	102	103	23	102	102	103	24	106	106	107	24	105	105	106	23
3/15	102	102	102	23	102	102	103	24	105	105	106	24	106	107	108	23
3/16	102	103	103	23	103	103	103	24	103	103	104	24	105	105	106	23
3/17	103	104	104	23	103	104	104	24	104	105	105	24	105	106	107	23
3/18	104	104	105	23	104	104	104	24	104	104	105	24	104	105	106	23
3/19	102	103	103	23	102	102	103	24	102	102	103	24	102	103	104	23
3/20	102	103	103	23	102	102	103	24	102	102	103	24	102	103	103	23
3/21	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/22	105	106	106	23	105	106	106	24	104	105	106	24	105	107	108	23
3/23	105	105	106	23	106	106	106	24	105	105	106	24	105	105	105	11
3/24	105	105	105	23	105	105	106	24	105	105	105	24	106	106	107	23
3/25	105	105	105	23	105	105	106	24	105	106	106	24	104	104	105	23

Two-Week Summary of Passage Indices

Date	COMBINED YEARLING CHINOOK											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/12/2004 *	22	0	104	7	1	---	---	---	---	---	---	1,264
03/13/2004	---	---	95	---	---	---	---	---	---	---	---	465
03/14/2004	---	---	157	---	---	---	---	---	---	---	---	239
03/15/2004	20	71	154	9	0	---	---	---	---	---	---	0
03/16/2004	20	112	117	8	1	---	---	---	---	---	---	0
03/17/2004	30	295	118	9	1	---	---	---	---	---	---	226
03/18/2004 *	34	231	---	17	2	---	---	---	---	---	---	240
03/19/2004	37	1,294	214	40	1	---	---	---	---	---	---	121
03/20/2004	---	---	290	---	---	---	---	---	---	---	---	190
03/21/2004	---	---	271	---	---	---	---	---	---	---	---	290
03/22/2004	52	1,333	267	353	3	---	---	---	---	---	---	187
03/23/2004	47	1,499	240	182	11	---	---	---	---	---	---	171
03/24/2004	53	1,706	184	325	19	---	---	---	---	---	---	248
03/25/2004 *	13	1,417	217	263	31	---	---	---	---	---	---	238
03/26/2004	---	---	---	---	---	---	---	---	---	---	---	---
Total:	328	7,958	2,428	1,213	70	0	0	0	0	0	0	3,879
# Days:	10	10	13	10	10	0	0	0	0	0	0	14
Average:	33	796	187	121	7	0	0	0	0	0	0	277
YTD	470	7,960	2,641	1,230	70	0	0	0	0	0	0	6,918

Date	COMBINED SUBYEARLING CHINOOK											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/12/2004 *	0	0	0	0	0	---	---	---	---	---	---	50,260
03/13/2004	---	---	0	---	---	---	---	---	---	---	---	242,411
03/14/2004	---	---	0	---	---	---	---	---	---	---	---	52,319
03/15/2004	0	0	0	0	0	---	---	---	---	---	---	18,647
03/16/2004	0	0	0	0	0	---	---	---	---	---	---	7,230
03/17/2004	0	0	0	0	0	---	---	---	---	---	---	7,322
03/18/2004 *	10	0	---	0	0	---	---	---	---	---	---	4,644
03/19/2004	0	0	0	0	2	---	---	---	---	---	---	3,829
03/20/2004	---	---	0	---	---	---	---	---	---	---	---	6,186
03/21/2004	---	---	0	---	---	---	---	---	---	---	---	5,976
03/22/2004	1	0	0	0	0	---	---	---	---	---	---	7,240
03/23/2004	7	0	0	0	0	---	---	---	---	---	---	6,490
03/24/2004	1	0	0	0	1	---	---	---	---	---	---	6,011
03/25/2004 *	0	0	0	0	1	---	---	---	---	---	---	7,558
03/26/2004	---	---	---	---	---	---	---	---	---	---	---	---
Total:	19	0	0	0	4	0	0	0	0	0	0	426,123
# Days:	10	10	13	10	10	0	0	0	0	0	0	14
Average:	2	0	0	0	0	0	0	0	0	0	0	30,437
YTD	48	0	18	0	5	0	0	0	0	0	0	794,056

* See sampling comments <http://www.fpc.org/currentDaily/smpcomments.htm>
 this means that one or more of the sites on this date had an incomplete or biased sample.

For clip information see: [Daily Catch Report](#)

For sockeye and yearling chinook (Snake only) race information see: [Current Passage Index Query](#)

If the text appears garbled, please hit the refresh button on your browser

NOTE for 2002 Lower Monumental Data: Due to the non-standard operation of Lower Monumental this year, the passage index reliability is in question and is being looked into.

Fall (post SMP season) trapping at the Imnaha River Fish Trap (IMN) is funded by the Lower Snake River Compensation Program (LSRCP)

Two-Week Summary of Passage Indices

Date	COMBINED COHO											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/12/2004 *	0	0	0	0	0	---	---	---	---	---	---	82
03/13/2004	---	---	0	---	---	---	---	---	---	---	---	78
03/14/2004	---	---	0	---	---	---	---	---	---	---	---	0
03/15/2004	0	0	0	0	0	---	---	---	---	---	---	141
03/16/2004	0	0	0	0	0	---	---	---	---	---	---	0
03/17/2004	0	0	0	0	0	---	---	---	---	---	---	52
03/18/2004 *	0	0	---	0	1	---	---	---	---	---	---	30
03/19/2004	0	0	0	0	0	---	---	---	---	---	---	35
03/20/2004	---	---	0	---	---	---	---	---	---	---	---	81
03/21/2004	---	---	0	---	---	---	---	---	---	---	---	108
03/22/2004	0	0	0	0	0	---	---	---	---	---	---	39
03/23/2004	0	0	0	0	0	---	---	---	---	---	---	45
03/24/2004	0	0	0	0	2	---	---	---	---	---	---	48
03/25/2004 *	0	0	0	0	0	---	---	---	---	---	---	79
03/26/2004	---	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	3	0	0	0	0	0	0	818
# Days:	10	10	13	10	10	0	0	0	0	0	0	14
Average:	0	0	0	0	0	0	0	0	0	0	0	58
YTD	0	0	0	0	3	0	0	0	0	0	0	1,376

Date	COMBINED STEELHEAD											
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/12/2004 *	0	0	0	0	0	---	---	---	---	---	---	0
03/13/2004	---	---	3	---	---	---	---	---	---	---	---	0
03/14/2004	---	---	9	---	---	---	---	---	---	---	---	0
03/15/2004	0	0	7	1	1	---	---	---	---	---	---	0
03/16/2004	0	0	3	2	0	---	---	---	---	---	---	0
03/17/2004	1	1	0	0	2	---	---	---	---	---	---	0
03/18/2004 *	1	0	---	0	0	---	---	---	---	---	---	0
03/19/2004	1	1	9	2	2	---	---	---	---	---	---	52
03/20/2004	---	---	13	---	---	---	---	---	---	---	---	36
03/21/2004	---	---	7	---	---	---	---	---	---	---	---	41
03/22/2004	0	0	16	2	1	---	---	---	---	---	---	47
03/23/2004	0	0	14	1	2	---	---	---	---	---	---	36
03/24/2004	1	3	29	3	3	---	---	---	---	---	---	48
03/25/2004 *	0	1	39	2	4	---	---	---	---	---	---	62
03/26/2004	---	---	---	---	---	---	---	---	---	---	---	---
Total:	4	6	149	13	15	0	0	0	0	0	0	322
# Days:	10	10	13	10	10	0	0	0	0	0	0	14
Average:	0	1	11	1	2	0	0	0	0	0	0	23
YTD	6	6	153	13	15	0	0	0	0	0	0	338

* See sampling comments

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE											BO2
	ENT (Coll)	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	
03/12/2004	*	0	0	0	0	0	---	---	---	---	---	0
03/13/2004		---	---	0	---	---	---	---	---	---	---	0
03/14/2004		---	---	0	---	---	---	---	---	---	---	0
03/15/2004		0	0	0	0	0	---	---	---	---	---	0
03/16/2004		0	0	0	0	0	---	---	---	---	---	0
03/17/2004		0	0	0	0	0	---	---	---	---	---	0
03/18/2004	*	0	0	---	0	0	---	---	---	---	---	0
03/19/2004		0	0	0	0	0	---	---	---	---	---	0
03/20/2004		---	---	0	---	---	---	---	---	---	---	0
03/21/2004		---	---	0	---	---	---	---	---	---	---	0
03/22/2004		0	0	0	0	0	---	---	---	---	---	8
03/23/2004		0	0	0	0	0	---	---	---	---	---	0
03/24/2004		0	0	0	0	0	---	---	---	---	---	0
03/25/2004	*	0	0	0	0	0	---	---	---	---	---	9
03/26/2004		---	---	---	---	---	---	---	---	---	---	---
Total:		0	0	0	0	0	0	0	0	0	0	17
# Days:		10	10	13	10	10	0	0	0	0	0	14
Average:		0	0	0	0	0	0	0	0	0	0	1
YTD		0	0	0	0	0	0	0	0	0	0	17

* 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
- ENT (Collection) = Entiat River Trap : Collection Counts
- LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}
- BO1 (Index) = Bonneville Dam First Powerhouse Bypass Collection System : Passage Index Counts
Passage Index = Collection Counts / {Powerhouse 1 Flow / (Powerhouse 1 & 2 Flow + Spill)}

JDA and BO2 data collected for the FPC by Pacific States Marine Fisheries Commission.
 RIS data collected for the FPC by Chelan Co. PUD/Washington Dept. of Fish and Wildlife.
 LGR, LMN, and MCN data collected for the FPC by Washington Dept. of Fish and Wildlife.
 LGS and GRN data collected for the FPC by Oregon Dept. of Fish and Wildlife.
 IMN data collected for the FPC by the Nez Perce Tribe. ENT data collected for the FPC by USFWS.

Cumulative Adult Passage at Mainstem Dams Through: 03/25

DAM	Spring Chinook						Summer Chinook						Fall Chinook					
	2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.		2004		2003		10-Yr Avg.	
	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	242	0	4,713	1	915	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	1	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			
	2004		2003		10-Yr Avg.		10-Yr		2004	2003	10-Yr Avg.	Wild 2004	
	Adult	Jack	Adult	Jack	Adult	Jack	2004	2003					
BON	0	0	0	0	0	0	0	0	688	554	408	96	
TDA	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	
MCN	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	
LMN	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	
LWG	0	0	0	0	0	0	0	0	3,600	11,945	2,851	851	
PRD	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	
RRH	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	

Only LGR and BON (for traditional dates) is currently being reported by the COE.

BON and LGR are through 03/24.

**PRD is not reporting 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.

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: 03/26/04

BON counts from January 1, 2004 to March 14, 2004 (our traditional counts begin March 15)

Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
177	1	1,552	245

