



Fish Passage Center Weekly Report #07 - 5

April 06, 2007

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Summary of Events:

Water Supply: Precipitation throughout the Columbia Basin has varied between 35% and 260% of average at individual sub-basins over the first 26-days of March. Precipitation above The Dalles has been 133% of average over the first 26-days of March. Over the entire water year, precipitation has generally been near or above 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 2007 March 1-26		Water Year 2007 October 1, 2006 to March 26, 2007	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	3.05	203	16.55	119
Snake River Above Ice Harbor	0.70	51	8.83	88
Columbia Above The Dalles	2.14	133	15.5	111
Kootenai	3.88	260	18.65	130
Clark Fork	0.86	86	9.60	109
Flathead	1.45	106	12.92	108
Pend Oreille/Spokane	3.14	135	20.56	104
Central Washington	0.39	57	5.78	100
Snake River Plain	0.33	35	4.84	82
Salmon/Boise/Payette	0.66	41	11.10	89
Clearwater	1.96	83	19.51	107
SW Washington Cascades/Cowlitz	7.01	118	57.12	109
Willamette Valley	3.86	72	49.65	112

Snowpack within the Columbia Basin is below average. 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 58% of average, and for lower Columbia Basins between McNary and Bonneville Dam average snowpack is 67% of average.

Table 2 displays the March Final and April Early runoff volume forecasts for multiple reservoirs. Water Supply Forecasts increased between the March Final and April Early forecasts at most Columbia Basins; however, decreased in Snake Basins. The current forecast at The Dalles between January and July is 102000 Kaf (95% of average).

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

Location	March Final		April Early	
	% Average (1971- 2000)	Probable Runoff Volume (Kaf)	% Average (1971- 2000)	Probable Runoff Volume (Kaf)
The Dalles (Jan-July)	93	100000	95	102000
Grand Coulee (Jan-July)	100	63000	106	66700
Libby Res. Inflow, MT (Jan-July)	100	6320	108	6810
Hungry Horse Res. Inflow, MT (Jan-July)	91	2030	91	2020
Lower Granite Res. Inflow (Apr-July)	80	17300	72	15500
Brownlee Res. Inflow (Apr-July)	60	3760	53	3360
Dworshak Res. Inflow (Apr-July), RFC Forecast	96	2530	84	2230
Dworshak Res. Inflow (Apr-July), COE Forecast	82	2192	74 (April Final)	1982 (April Final)

Grand Coulee Reservoir is at 1261.8 feet (4-5-07) and has drafted 6.8 feet in the last week. The estimated April 10th elevation is 1259.2 feet.

Dworshak is currently at an elevation of 1563.1 feet (4-5-07) and refilled 2.4 feet last week. The COE's official forecast has dropped from 82% of average (March final) to 74% of average (April Final), which has caused the end of April Flood Control elevation to increase to 1572.6 feet. As a result Dworshak has reduced outflows to 2.3 Kcfs and is refilling.

The Libby Reservoir is currently at elevation 2395.3 feet (4-5-07) and held steady last week. Outflows at Libby are currently 10.9 Kcfs. The estimated April 10th elevation is 2395.5 feet at Libby.

Hungry Horse is currently at an elevation of 3535.2 feet (4-5-07) and has drafted 0.7 feet last week. Outflows at Hungry Horse are currently 4.9 Kcfs. Hungry Horse's estimated April 10th elevation is 3533.4 feet at Hungry Horse.

The Brownlee Reservoir was at an elevation of 2061.6 feet on April 5th, 2007, refilling 3.7 feet last week. The estimated April 10th elevation is 2059.5 feet at Brownlee Dam. Outflows at Brownlee Dam have been 6.5 to 12.6 Kcfs over the last week.

Spill: In accordance with the Court Order, spill was initiated at the Snake River Projects at 0001 hours on April 3, 2007. The Court Order calls for the following spill levels at the Federal Snake River Projects:

Project	Day/Night Spill
Lower Granite	20Kcfs/20Kcfs
Little Goose	30%/30%
Lower Monumental	Gas Cap/Gas Cap
Ice Harbor	30%/30% vs 45Kcfs/Gas Cap Test

Spill at Lower Granite Dam has averaged an instantaneous 20 Kcfs and spill at Little Goose Dam is achieving the 30% instantaneous level. However, spill at Lower Monumental Dam had been below the gas cap objective. This is due to low river flows and the need to maintain the operation of one unit at the project. Spill at Ice Harbor Dam, other than for a few hours on April 3, has

been equal to all flow in excess of that needed to operate one turbine unit.

Court ordered spill at the lower Columbia projects is scheduled to begin on April 10, 2007. Spill that has occurred at these projects over the past week is excess due to a lack of power load demand.

Total dissolved gas at the federal hydro-projects was well within the waiver limits over the past week. However, gas levels in the Mid Columbia exceeded water quality waiver standards at several sites due to high levels of spill at Wanapum Dam during the week. By week's end the spill and TDG levels decreased to within the standards.

Monitoring for signs of gas bubble trauma in migrating salmonids will begin next week.

Smolt Monitoring: Sampling began at Little Goose, Lower Monumental, Rock Island and John Day dams during the past week. Sampling at Little Goose and Lower Monumental dams is limited to condition sampling; full sampling, in support of transportation will begin in late April or early May at those sites. Sampling at McNary Dam has been delayed due to side screen brush malfunction in the dewatering channel. Fish are being routed via the primary bypass.

Smolt Monitoring at Snake River tributary traps continued this past week, with increasing numbers of yearling Chinook being captured at the Imnaha, and the Salmon River traps. At the Salmon River Trap, operated by IDFG, hatchery yearling Chinook dominated the catch over the past week. Catch of yearling Chinook at the trap peaked at 1,742 on April 3. Over 3 million hatchery Chinook were released into the basin above the trap in the past two weeks. At the Grande Ronde Trap the catch of yearling chinook has declined over the past week, as flows have decreased to well below average in that river. Smolt collection at the Snake River Trap at Lewiston has been slow to date. Flows in the Lower Snake River are very low for this time of year, so it is likely fish are not moving out under these low flow conditions.

Sampling began March 26 at Lower Granite Dam. In the first few days of sampling there a greater number of unclipped yearling Chinook have been captured, while captured steelhead were mainly clipped, hatchery origin fish. PIT-tag detections of wild yearling Chinook suggest fish are arriving from several different sub-basins. Most of the detections were of fall marked fish, with the exception of tags arriving from fish marked this Spring at the Grande Ronde Trap.

Full 24-hour sampling at Little Goose and Lower Monumental dams will begin when transportation begins at those sites. Transportation will begin on a delayed schedule this year similar to 2006.

At Rock Island Dam sampling has begun, but few fish have been captured. At McNary Dam, sampling has not begun as equipment malfunctions in the bypass dewatering system have forced fish to be routed directly back to river.

At John Day Dam, in the first few days of sampling, the collection has been predominantly hatchery origin yearling Chinook. Bonneville Dam continues to sample small numbers of juvenile salmonids.

GBT monitoring will begin at SMP sites over the next week, in conjunction with the start of the spill program.

Hatchery Release: Snake River Zone: The Snake River Zone encompasses the Snake River and its tributaries from its confluence with the Columbia River to Hells Canyon Dam. Beginning April 2nd, approximately 500,000 yearling fall Chinook were released into the Snake River from Lyons Ferry Hatchery. In addition, approximately 155,000 yearling fall Chinook were scheduled for release into the Snake River at Pittsburg Landing Acclimation Pond on April 5th. Approximately 1.9 million yearling spring Chinook were scheduled for release this week into the Clearwater River. Of these, approximately 55% were released into the south fork, while 45% were released into the north fork. A volitional release of 123,769 yearling spring Chinook began on March 31st from the Imnaha Acclimation Pond into the Imnaha River. This release is expected to run through April 12th.

Approximately, 374,000 yearling spring Chinook were scheduled for release into the Lochsa River on April 2nd. Finally, a volitional release of approximately 197,000 yearling spring Chinook into the Tucannon River was scheduled to begin on April 3rd.

This week marked the end of three releases of summer steelhead (totaling 480,000) into the Salmon River. A release of an additional 170,000 summer steelhead to the Salmon River began on April 5th and is expected to run through April 26th. The Little Salmon River had a release of 40,000 summer steelhead on April 2nd. Finally, a release of about 70,000 summer steelhead into the Tucannon River began on April 3rd and is expected to run through April 15th.

In addition to the yearling fall Chinook releases that started this week, approximately 320,000 yearling fall Chinook are scheduled for release into the Snake River Zone in the next two weeks. Of these, 50% will be released into the Snake River and 50% will be released into the Clearwater River. Releases of approximately 1.19 million yearling spring Chinook are scheduled to begin in the next two weeks. These releases will be spread among the Salmon (83%) and Grande Ronde Rivers (17%). Approximately 985,500 yearling summer Chinook are scheduled for release into the Pahsimeroi River on April 15th. Also scheduled for release on April 15th are about 48,000 sockeye into Redfish Lake on the Salmon River. Finally, releases of summer steelhead (totaling about 6.2 million) are scheduled to begin within the next two weeks.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. Approximately 890,000 Coho were scheduled for release into the Yakama River on April 2nd. These fish were released through both direct releases and from various acclimation facilities. These releases were the first of many releases that are part of a Yakama Tribal Program to re-establish Coho runs into the Yakama, Methow, and Wenatchee basins. Also, on April 3rd 251,915 yearling spring Chinook were released into the South Fork of the Walla Walla River.

Approximately 570,000 sub-yearling fall Chinook are scheduled for release into the Yakama River on April 16th. Also scheduled for release into the Mid-Columbia River zone are approximately 2.5 million yearling spring Chinook. Of these, 66% are scheduled for release into the Wenatchee River, while 16% and 18% are scheduled for the Entiat and Methow Rivers, respectively. In addition, approximately 644,000 yearling summer Chinook are scheduled for release into this zone, with 59% scheduled for release into Okanagon River and 41% scheduled for the Methow River. Approximately 616,000 Coho are scheduled for release into the Wenatchee River on April 17th. These releases are part of the Yakama Tribal program to re-establish Coho runs into the Wenatchee basin. Finally, about 618,000 summer steelhead are scheduled for release into this zone over the next two weeks. Of these, approximately 57% will be released directly into the Columbia River, while 24%, 17%, and 6% will be released into the Touchet, Walla Walla, and Okanagon River, respectively.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. Approximately 4,000 summer steelhead were scheduled for release on April 1st into Lake Billy Chinook on the Deschutes River, above Round Butte Dam. This release was part of a passage study being conducted by PGE. Approximately 2.5 million Coho were released into the Klickitat River from April 2nd through April 6th. Finally, about 235,000 yearling spring Chinook are scheduled for release on April 6th into the Umatilla River, from the Thornhollow Acclimation Pond.

Approximately 4.2 million sub-yearling fall Chinook are scheduled for release from Spring Creek Hatchery, beginning April 16th. Releases totaling about 2.4 million yearling spring Chinook are scheduled to begin within the next two weeks. Approximately 89% of these fish will be released from Carson NFH and Little White Salmon NFH on April 12th. The remaining fish are scheduled for release into Hood River (47,500) and the Umatilla River (210,000). Approximately 750,000 Coho will be released into the Umatilla River beginning April 10th. Finally, approximately 381,000 summer

steelhead and 32,200 winter steelhead are scheduled for release into this zone over the next two weeks.

Adult Fish Passage: Traditional counts at Bonneville Dam began March 15th. Traditional counts allow the comparison of current year counts with historical data. The Dalles and John Day began video counts Feb 20th, while McNary, Ice Harbor, and Lower Granite began video counts on March 1st. Traditional counts for these dams begin April 1st with the exception of Lower Granite Dam which began traditional counts on March 1st. The PUD dams in the Mid-Columbia River traditionally count adult fish beginning April 15th except Wells Dam that starts counting on May 1st. Ice Harbor Dam has not posted April counts yet.

Adult counts at Bonneville Dam have been updated through April 5th. Between April March 15th and April 5th, 84 adult Spring Chinook had passed Bonneville Dam; this compares to 79 Spring Chinook adults over the same period last year. From March 15th through the April 5th Spring Chinook adults have been counted daily except for two days when no adults were counted. Daily passage numbers at Bonneville Dam have ranged between 2 and 11 adult Spring Chinook in the last week. The 2007 spring Chinook count thus far is only about 1% of the 10- year average. However, the count to date is similar to that observed in 2006 when the migration arrived much later than usual. Additionally, 1,086 steelhead had passed the dam which is 1.6 times the 2006 count of 684, but similar to the 10- year average count of 1,016 steelhead.

At upriver sites, adult steelhead continue to move through the hydro system to reach their tributaries and spawning sites. The majority of these fish over-wintered in the pools and will complete their trip to the spawning grounds in March through early May. Daily counts at Lower Granite had ranged between 230 and 472 adult steelhead in the last week of March. The total steelhead count passing at Lower Granite Dam as of March 30th was 6,522 adult steelhead.

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
03/23/07	144.3	0.0	148.3	0.0	155.5	14.6	153.2	3.8	158.6	0.0	166.9	17.9	165.0	6.2
03/24/07	137.8	0.0	155.7	0.0	165.5	25.5	161.7	2.4	166.2	0.0	178.0	35.7	178.8	25.0
03/25/07	100.5	0.0	102.3	0.0	117.7	0.4	124.9	0.0	138.2	0.0	161.9	4.7	171.8	2.6
03/26/07	136.4	0.0	126.2	0.0	133.5	6.6	133.5	0.0	145.8	0.0	143.0	0.0	145.9	0.0
03/27/07	135.5	0.0	143.7	0.0	145.9	10.1	140.3	0.0	147.9	0.0	146.8	0.9	145.1	1.0
03/28/07	158.5	0.0	155.3	0.0	169.9	56.1	164.5	8.7	169.1	0.0	180.0	38.9	178.4	30.8
03/29/07	164.0	0.0	164.2	0.0	175.4	44.1	169.5	9.8	175.2	0.0	199.8	74.7	201.3	60.4
03/30/07	181.6	0.0	179.1	0.0	183.2	38.3	179.0	16.6	185.5	0.0	217.8	121.3	203.5	66.6
03/31/07	150.5	0.0	162.0	0.0	174.9	42.5	175.4	19.7	179.9	0.0	231.6	133.7	229.8	69.6
04/01/07	154.4	0.0	159.0	0.0	163.5	23.7	162.9	7.7	167.3	0.0	139.9	44.4	133.1	20.4
04/02/07	178.3	0.0	170.9	0.0	177.5	41.9	178.0	23.8	179.3	0.0	223.4	103.5	222.6	78.7
04/03/07	183.1	0.0	185.1	0.0	192.4	49.8	195.2	39.1	194.2	0.0	192.7	71.1	191.0	49.8
04/04/07	171.7	0.0	182.8	0.0	187.8	40.7	189.0	32.3	187.2	0.0	211.7	81.3	206.9	55.7
04/05/07	161.0	0.0	162.7	0.0	170.3	31.9	173.4	11.2	174.7	0.0	194.6	72.5	193.9	33.4

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

Date	Dworshak		Brownlee Canyon		Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill	Inflow	Outflow	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
03/23/07	7.7	0.0	15.3	18.3	55.2	0.0	64.7	0.0	71.5	0.0	64.8	0.0
03/24/07	7.8	0.0	14.9	11.0	45.8	0.0	45.3	0.0	47.9	0.0	49.4	0.0
03/25/07	7.8	0.0	14.1	14.6	46.0	0.0	44.0	0.0	45.7	0.0	44.6	0.0
03/26/07	8.5	0.0	15.0	18.1	56.5	0.0	64.2	0.0	69.3	0.0	66.7	0.0
03/27/07	10.0	0.0	13.8	9.9	65.3	20.3	61.1	9.2	68.5	7.6	69.0	30.5
03/28/07	9.9	0.0	13.7	9.2	58.0	15.6	56.4	7.3	60.0	7.7	65.2	23.7
03/29/07	10.0	0.0	13.4	10.7	54.8	17.7	53.6	8.1	58.7	8.4	58.2	20.0
03/30/07	10.0	0.0	12.7	11.0	55.3	9.6	55.7	3.1	59.5	3.6	57.8	11.2
03/31/07	10.0	0.0	12.8	10.4	50.3	3.4	50.3	0.0	55.6	1.6	52.2	4.9
04/01/07	9.6	0.0	12.6	10.3	39.9	0.0	40.1	0.0	37.2	0.0	39.3	0.0
04/02/07	4.5	0.0	12.6	10.7	51.8	0.0	51.4	0.0	59.3	0.0	62.1	0.0
04/03/07	4.6	0.0	12.6	9.3	42.1	19.9	42.0	12.7	44.1	20.3	45.6	33.6
04/04/07	4.1	0.0	12.6	9.3	38.2	19.8	38.6	12.0	38.9	21.5	40.5	30.1
04/05/07	2.3	0.0	12.6	---	36.6	20.0	35.0	10.8	36.4	23.3	39.1	28.7

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		
03/23/07	224.6	12.8	200.3	2.7	191.1	0.0	184.5	8.0	62.5	103.4
03/24/07	235.0	12.2	236.1	11.6	238.2	0.0	251.7	30.7	95.2	114.4
03/25/07	216.3	5.9	225.4	2.7	227.5	0.0	252.6	31.3	95.3	114.5
03/26/07	238.9	13.5	272.3	61.0	265.3	4.1	286.3	58.2	98.3	117.9
03/27/07	224.0	36.2	215.1	17.1	214.9	18.3	248.7	48.9	84.3	104.0
03/28/07	231.9	39.8	218.4	15.4	219.7	15.6	249.2	49.3	82.9	105.5
03/29/07	256.2	52.3	256.6	48.5	255.3	20.7	278.4	58.4	95.7	114.2
03/30/07	270.4	59.6	273.4	55.1	268.9	7.2	266.0	35.6	96.8	122.0
03/31/07	282.4	71.1	281.9	62.0	276.2	3.3	293.1	55.5	101.0	125.1
04/01/07	254.9	84.1	274.1	53.2	269.0	25.5	279.7	78.5	80.1	109.6
04/02/07	231.4	59.5	225.1	4.7	231.3	0.0	254.0	46.0	79.0	117.5
04/03/07	274.7	98.4	277.0	61.1	265.8	17.2	275.8	51.4	80.2	132.7
04/04/07	236.1	68.2	238.8	31.4	234.8	8.5	252.9	28.6	79.4	133.4
04/05/07	245.9	75.8	250.5	35.0	243.7	0.0	272.3	50.2	79.4	131.2

HATCHERY RELEASE LAST TWO WEEKS

Hatchery Release Summary

From: 3/23/2007 **to** 04/05/07

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2007	134,000	04-02-07	04-02-07	Crooked R Acclim Pond	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2007	374,000	04-04-07	04-04-07	Powell Acclim Pond	Lochsa River
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2007	375,000	04-01-07	04-01-07	Red River Acclim Pond Crooked R Acclim	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	CH1	SP	2007	517,000	04-03-07	04-03-07	Pond	S Fk Clearwater River
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2007	170,000	04-05-07	04-26-07	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2007	239,868	03-29-07	04-04-07	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2007	527,701	03-19-07	03-29-07	Hells Canyon Dam	Snake River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2007	2,498,482	03-15-07	04-27-07	Rapid River	Little Salmon River
Idaho Dept. of Fish and Game Total					4,836,051				
Nez Perce Tribe	Clearwater Hatchery	CH1	SP	2007	269,000	04-01-07	04-01-07	Selway River Hazard Creek/Little	Clearwater River M F
Nez Perce Tribe	Hagerman NFH	ST	SU	2007	40,000	04-02-07	04-02-07	Salmon R	Little Salmon River
Nez Perce Tribe	Hagerman NFH	ST	SU	2007	145,000	03-26-07	04-06-07	Little Salmon River	Salmon River (ID)
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2007	108,000	03-10-07	03-26-07	Lostine Accim Pond	Wallowa River
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2007	136,000	03-28-07	04-17-07	Lostine Accim Pond Pittsburg Landing	Wallowa River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2007	155,000	04-05-07	04-05-07	Acclim Pond	Snake River
Nez Perce Tribe	Nez Perce Tribal Hatchery	CO	UN	2008	30,000	04-01-07	04-30-07	Orofino Creek	Clearwater River M F
Nez Perce Tribe Total					883,000				
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2007	123,769	03-31-07	04-12-07	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2007	308,803	03-21-07	04-12-07	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Oak Springs Hatchery	ST	SU	2007	4,000	04-01-07	04-01-07	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife	Willard Hatchery	CH1	SP	2007	251,915	04-03-07	04-03-07	Walla Walla River	Walla Walla River
Oregon Dept. of Fish and Wildlife Total					688,487				
U.S. Fish and Wildlife Service	Dworshak NFH	CH1	SP	2007	950,000	03-28-07	03-29-07	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	95,000	03-26-07	04-06-07	Little Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Kooskia NFH	CH1	SP	2007	178,500	04-02-07	04-02-07	Kooskia Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Kooskia NFH	CH1	SP	2007	391,500	04-02-07	04-02-07	Kooskia Hatchery Warm Springs	Clearwater River M F
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2007	520,000	03-21-07	04-18-07	Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					2,135,000				
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	32,000	03-22-07	05-04-07	Parkdale Acclim Pond	Hood River
Warm Springs Tribe Total					32,000				
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	FA	2007	500,000	04-02-07	04-06-07	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2007	86,000	04-03-07	04-15-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2007	111,000	04-03-07	04-15-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2007	70,000	04-03-07	04-15-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Washougal Hatchery	CO	NO	2007	2,500,000	04-02-07	04-06-07	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife Total					3,267,000				

HATCHERY RELEASE LAST TWO WEEKS (con't)

Hatchery Release Summary									
From:	3/23/2007		to		04/05/07				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	281,176	03-15-07	05-15-07	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	287,645	03-15-07	05-15-07	Clark Flat Acclim Pond Jack Creek Acclim	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	291,991	03-15-07	05-15-07	Pond Lost Creek Acclim	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	25,000	04-02-07	04-02-07	Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	25,000	04-02-07	04-02-07	Stiles Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	25,000	04-02-07	04-02-07	Yakama River	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	25,000	04-02-07	04-02-07	Yakama River	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	50,000	04-02-07	04-02-07	Prosser Acclim Pond Lost Creek Acclim	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	150,000	04-02-07	04-02-07	Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	150,000	04-02-07	04-02-07	Stiles Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2007	150,000	04-02-07	04-02-07	Yakama River	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2007	9,199	04-02-07	04-02-07	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2007	30,382	04-02-07	04-02-07	Yakama River	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2007	90,000	04-02-07	04-02-07	Stiles Pond Lost Creek Acclim	Yakima River
Yakama Tribe	Washougal Hatchery	CO	NO	2007	40,000	04-02-07	04-02-07	Pond	Yakima River
Yakama Tribe	Washougal Hatchery	CO	NO	2007	40,000	04-02-07	04-02-07	Stiles Pond	Yakima River
Yakama Tribe	Washougal Hatchery	CO	NO	2007	40,000	04-02-07	04-02-07	Yakama River	Yakima River
Yakama Tribe	Washougal Hatchery	CO	NO	2007	40,000	04-02-07	04-02-07	Yakama River	Yakima River
Yakama Tribe Total					1,750,393				
Grand Total					13,591,931				

HATCHERY RELEASE NEXT TWO WEEKS

Hatchery Release Summary

From: 4/6/2007 to 4/19/2007

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2007	9,000	04-15-07	04-30-07	Omak Creek	Okanogan River
Colville Tribe	Cassimer Bar Hatchery	ST	SU	2007	9,000	04-15-07	04-30-07	Omak Creek	Okanogan River
								Bonaparte Acclimation	
Colville Tribe	Eastbank Hatchery	CH1	SU	2007	98,000	04-16-07	05-01-07	Pond	Okanogan River
Colville Tribe Total					116,000				
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2007	100,000	04-15-07	04-15-07	Red River	S Fk Clearwater River
								Crooked R Acclim	
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2007	151,000	04-15-07	04-15-07	Pond	S Fk Clearwater River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	60,000	04-10-07	04-10-07	Squaw Cr Acclim Pond	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	60,000	04-10-07	04-10-07	Squaw Cr Acclim Pond	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	80,000	04-19-07	04-23-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	130,000	04-13-07	04-17-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	140,000	04-17-07	04-18-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2007	210,000	04-11-07	04-13-07	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2007	170,000	04-05-07	04-26-07	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2007	830,000	04-10-07	04-27-07	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Pahsimeroi Hatchery	CH1	SU	2007	985,500	04-15-07	04-15-07	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2007	2,498,482	03-15-07	04-27-07	Rapid River	Little Salmon River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	CH1	SP	2007	995,000	04-11-07	04-11-07	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					6,409,982				
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	22,500	04-15-07	04-15-07	Mill Cr Bridge	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	28,000	04-15-07	04-15-07	Meadow Creek - CLES	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	54,500	04-15-07	04-15-07	Lolo Creek	Clearwater River M F
								Crooked R Acclim	
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	83,500	04-15-07	04-15-07	Pond	S Fk Clearwater River
Nez Perce Tribe	Clearwater Hatchery	ST	SU	2007	151,000	04-15-07	04-15-07	Red River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	ST	SU	2007	110,000	04-10-07	04-14-07	American River	S Fk Clearwater River
Nez Perce Tribe	Dworshak NFH	ST	SU	2007	110,000	04-10-07	04-14-07	Newsome Creek	S Fk Clearwater River
Nez Perce Tribe	Hagerman NFH	ST	SU	2007	145,000	03-26-07	04-06-07	Little Salmon River	Salmon River (ID)
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2007	136,000	03-28-07	04-17-07	Lostine Accim Pond	Wallowa River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2007	160,000	04-12-07	04-12-07	Cpt John Acclim Pond	Snake River
								Big Canyon (Clearwater	
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2007	160,000	04-13-07	04-13-07	River)	Clearwater River M F
Nez Perce Tribe	Nez Perce Tribal Hatchery	CO	UN	2008	30,000	04-01-07	04-30-07	Orofino Creek	Clearwater River M F
Nez Perce Tribe Total					1,190,500				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	100,000	04-16-07	04-16-07	Big Sheep Creek	Imnaha River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	165,000	04-16-07	04-16-07	Little Sheep Creek	Imnaha River
								Big Canyon Acclim.Pd	
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	200,000	04-16-07	04-16-07	(Grande Ronde)	Grande Ronde River
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2007	400,000	04-09-07	04-09-07	Wallowa Acclim Pond	Wallowa River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2007	123,769	03-31-07	04-12-07	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2007	308,803	03-21-07	04-12-07	Imnaha Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Oxbow-Oregon	SO	UN	2007	48,000	04-15-07	04-15-07	Redfish Lake	Salmon River (ID)
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	ST	SU	2007	162,000	04-08-07	04-08-07	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife Total					1,507,572				

HATCHERY RELEASE NEXT TWO WEEKS (cont'd)

U.S. Fish and Wildlife Service	Carson NFH	CH1	SP	2007	1,159,000	04-12-07	04-21-07	Carson Hatchery	Wind River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2007	300,000	04-10-07	04-14-07	Clear Creek	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2007	390,000	04-10-07	04-14-07	S Fk Clearwater River	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2007	1,200,000	04-17-07	04-21-07	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Entiat Hatchery	CH1	SP	2007	400,381	04-13-07	04-13-07	Entiat Hatchery	Entiat River
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	95,000	03-26-07	04-06-07	Little Salmon River	Salmon River (ID)
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2007	756,000	04-09-07	04-27-07	Salmon River (ID)	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2007	1,180,000	04-15-07	04-15-07	Icicle Creek Little White Salmon	Wenatchee River Little White Salmon River
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH1	SP	2007	1,000,000	04-12-07	04-12-07	River	River
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2007	4,200,000	04-16-07	04-17-07	White Salmon River Warm Springs	White Salmon River
U.S. Fish and Wildlife Service	Warm Springs NFH	CH1	SP	2007	520,000	03-21-07	04-18-07	Hatchery	Deschutes River
U.S. Fish and Wildlife Service Total					11,200,381				
Umatilla Tribe	Bonneville Hatchery	CH1	FA	2007	235,000	04-06-07	04-06-07	Thornhollow Acclim Pond	Umatilla River
Umatilla Tribe	Cascade Hatchery	CO	UN	2007	750,000	04-10-07	04-10-07	Umatilla River Grande Ronde Acclim	Umatilla River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2007	22,500	04-15-07	04-15-07	Pond Catherine Cr Acclim	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2007	24,000	04-15-07	04-15-07	Pond Catherine Cr Acclim	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2007	44,000	04-15-07	04-15-07	Pond Grande Ronde Acclim	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2007	108,000	04-15-07	04-15-07	Pond	Grande Ronde River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2007	50,000	04-15-07	04-15-07	Umatilla River Minthorn Acclimation	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2007	50,000	04-16-07	04-16-07	Pond	Umatilla River
Umatilla Tribe	Willard Hatchery	CH1	SP	2007	210,000	04-15-07	04-15-07	Imeques Acclim Pond	Umatilla River
Umatilla Tribe Total					1,493,500				
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2007	9,750	04-19-07	04-25-07	Parkdale Acclim Pond Jones Creek Acclim	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	20,000	04-10-07	04-16-07	Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	27,500	04-10-07	04-16-07	Blackberry Acclim Pond	Hood River
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2007	32,000	03-22-07	05-04-07	Parkdale Acclim Pond	Hood River
Warm Springs Tribe Total					89,250				
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SP	2007	493,000	04-16-07	05-04-07	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SU	2007	279,000	04-16-07	05-01-07	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	CH1	FA	2007	500,000	04-02-07	04-06-07	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	59,000	04-16-07	04-20-07	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	62,000	04-16-07	04-20-07	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	88,000	04-16-07	04-20-07	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	104,000	04-16-07	04-20-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	104,000	04-16-07	04-20-07	Walla Walla River Cottonwood Acclim	Walla Walla River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2007	167,000	04-16-07	04-20-07	Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2007	27,000	04-15-07	04-15-07	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2007	169,000	04-15-07	04-15-07	Methow River	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2007	255,000	04-15-07	04-15-07	Chewuch Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2007	267,000	04-16-07	04-20-07	Methow River Ringold Springs	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2007	349,397	04-17-07	04-17-07	Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	26,684	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2007	92,684	04-15-07	05-10-07	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	WI	2007	22,500	04-15-07	05-10-07	White Salmon River	White Salmon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2007	86,000	04-03-07	04-15-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	CH1	SP	2007	111,000	04-03-07	04-15-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2007	70,000	04-03-07	04-15-07	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Washougal Hatchery	CO	NO	2007	2,500,000	04-02-07	04-06-07	Klickitat River	Klickitat River
Washington Dept. of Fish and Wildlife Total					5,832,265				
Yakama Tribe	Cascade Hatchery	CO	UN	2007	247,189	04-17-07	04-17-07	Icicle Creek	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	281,176	03-15-07	05-15-07	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	287,645	03-15-07	05-15-07	Clark Flat Acclim Pond Jack Creek Acclim	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2007	291,991	03-15-07	05-15-07	Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2007	550,000	04-16-07	04-16-07	Prosser Acclim Pond	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2007	368,576	04-17-07	04-17-07	Icicle Creek	Wenatchee River
Yakama Tribe	Yakama Hatchery	CH0	FA	2007	20,000	04-16-07	04-16-07	Marion Drain	Yakima River
Yakama Tribe Total					2,046,577				
Grand Total					29,886,027				

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

	<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>#</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>Avg</u>	<u>Avg</u>	<u>High</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
3/23	97	97	98	24	108	110	112	24	103	103	104	24	102	103	104	24	---	---	---	0
3/24	98	98	98	23	109	111	113	24	104	104	105	24	103	103	103	24	---	---	---	0
3/25	98	98	98	24	113	117	118	24	104	104	104	24	102	102	103	24	---	---	---	0
3/26	97	97	98	24	115	117	119	24	104	104	105	24	102	103	103	24	103	103	107	8
3/27	98	98	98	24	115	117	118	24	104	104	105	24	102	103	103	24	102	103	103	24
3/28	96	97	97	24	113	116	117	24	103	103	103	24	101	101	101	24	101	101	102	24
3/29	96	96	97	25	115	116	117	25	103	103	104	25	101	101	102	25	101	101	102	25
3/30	97	97	97	24	117	118	118	24	104	105	106	24	102	103	103	24	102	102	102	24
3/31	97	98	98	24	115	116	117	24	105	105	106	24	103	103	103	24	103	103	103	24
4/1	98	98	98	24	116	116	119	24	105	105	106	24	103	103	103	24	103	103	103	24
4/2	97	97	97	24	115	117	117	24	104	105	105	24	103	103	103	24	102	102	102	24
4/3	97	97	97	24	114	116	118	24	104	105	105	24	102	103	103	24	102	102	102	22
4/4	97	97	98	24	115	117	117	24	105	105	106	24	103	103	103	24	102	102	103	24
4/5	96	97	97	24	113	115	116	24	106	107	108	24	103	103	104	24	102	103	103	24

Total Dissolved Gas Saturation Data at Mid Columbia River Sites

<u>Date</u>	<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>#</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>Avg</u>	<u>Avg</u>	<u>High</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
3/23	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/24	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/25	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/26	102	102	103	8	---	---	---	0	---	---	---	0	---	---	---	0	---	---	---	0
3/27	102	102	103	24	---	---	---	0	104	106	109	18	---	---	---	0	---	---	---	0
3/28	100	101	102	23	100	100	100	16	111	115	120	24	---	---	---	0	---	---	---	0
3/29	100	101	102	25	100	101	102	25	110	114	122	25	---	---	---	0	---	---	---	0
3/30	101	102	102	24	102	102	102	24	109	114	122	24	---	---	---	0	---	---	---	0
3/31	102	102	103	24	102	102	102	24	112	118	124	24	---	---	---	0	---	---	---	0
4/1	102	102	103	24	101	102	102	24	107	110	116	24	---	---	---	0	---	---	---	0
4/2	101	102	102	24	101	101	102	24	110	114	124	24	---	---	---	0	---	---	---	0
4/3	101	101	102	22	101	101	102	24	111	114	117	24	---	---	---	0	---	---	---	0
4/4	101	102	102	24	101	101	102	24	109	111	113	24	---	---	---	0	---	---	---	0
4/5	102	102	103	24	101	102	102	24	109	113	117	24	---	---	---	0	---	---	---	0

Total Dissolved Gas Saturation at Mid Columbia River Sites

<u>Date</u>	<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>#</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>Avg</u>	<u>Avg</u>	<u>High</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>High</u>	<u>hr</u>	<u>Avg</u>		<u>Avg</u>	<u>High</u>	<u>hr</u>		<u>Avg</u>	<u>Avg</u>	<u>High</u>	<u>hr</u>
3/23	---	---	---	0	---	---	---	0	101	102	102	24	104	105	108	24	103	104	105	24
3/24	---	---	---	0	---	---	---	0	102	103	103	24	108	111	119	24	106	107	113	24
3/25	---	---	---	0	---	---	---	0	102	102	103	24	104	105	114	24	107	108	111	24
3/26	---	---	---	0	---	---	---	0	102	103	104	24	104	105	105	24	104	104	106	24
3/27	---	---	---	0	---	---	---	0	103	104	104	24	105	105	105	24	104	104	104	24
3/28	---	---	---	0	---	---	---	0	103	103	103	24	108	111	118	24	104	106	113	24
3/29	---	---	---	0	---	---	---	0	102	102	102	24	114	120	125	24	110	115	124	24
3/30	---	---	---	0	---	---	---	0	103	104	104	24	126	128	131	24	122	125	127	24
3/31	---	---	---	0	---	---	---	0	103	104	104	24	129	130	133	24	127	129	130	24
4/1	---	---	---	0	---	---	---	0	106	109	109	24	118	123	133	24	126	127	129	24
4/2	---	---	---	0	---	---	---	0	106	107	108	24	122	124	126	24	117	122	125	24
4/3	---	---	---	0	---	---	---	0	104	106	108	24	119	123	125	24	123	124	126	24
4/4	---	---	---	0	---	---	---	0	107	108	108	24	117	119	122	24	117	119	122	24
4/5	---	---	---	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>Clrwtr-Peck</u>			<u>Anatone</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg	Avg	High
3/23	104	104	106	24	107	107	107	1	96	96	97	24	---	---	---	0	---	---	---	0
3/24	107	109	113	24	---	---	---	0	97	97	97	24	---	---	---	0	---	---	---	0
3/25	106	108	110	24	---	---	---	0	96	97	97	20	---	---	---	0	---	---	---	0
3/26	103	104	104	24	105	106	106	24	96	96	97	19	---	---	---	0	---	---	---	0
3/27	103	104	104	24	103	103	104	24	96	96	97	22	---	---	---	0	101	101	102	7
3/28	106	109	115	24	102	103	103	24	95	95	95	1	---	---	---	0	101	102	103	24
3/29	113	118	121	24	106	109	115	25	96	96	96	1	---	---	---	0	102	103	104	24
3/30	121	123	125	24	112	114	115	24	96	96	96	21	---	---	---	0	102	103	104	24
3/31	125	126	127	24	116	117	118	24	96	96	96	24	---	---	---	0	102	102	103	24
4/1	124	124	125	24	117	118	119	23	96	96	98	23	100	101	101	23	102	103	104	23
4/2	119	122	124	24	114	115	116	23	95	96	97	16	100	100	101	23	101	101	102	23
4/3	122	122	123	24	113	116	116	24	97	97	98	15	100	102	103	24	102	103	104	24
4/4	119	120	121	24	116	116	116	24	96	96	97	24	100	101	101	24	101	102	102	24
4/5	---	---	---	0	114	115	115	24	97	97	98	24	101	102	103	24	102	103	104	24

Total Dissolved Gas Saturation Data at Snake River Sites

Date	<u>Clrwtr-Lewiston</u>			<u>Lower Granite</u>			<u>L. Granite Tlwr</u>			<u>Little Goose</u>			<u>L. Goose Tlwr</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg	Avg	High
3/23	---	---	---	0	100	100	101	13	101	101	101	24	102	102	102	13	101	102	102	24
3/24	---	---	---	0	---	---	---	0	101	102	102	24	---	---	---	0	102	102	103	20
3/25	---	---	---	0	---	---	---	0	102	102	102	19	---	---	---	0	102	102	103	23
3/26	---	---	---	0	102	102	103	24	102	103	105	24	102	103	103	24	102	102	103	24
3/27	---	---	---	0	102	102	103	24	112	113	113	24	101	102	102	24	105	105	106	24
3/28	100	100	101	15	99	99	100	24	107	110	111	24	99	100	100	24	102	103	104	24
3/29	100	102	103	25	98	99	100	25	109	111	112	25	99	100	103	25	103	105	107	24
3/30	101	103	104	24	100	100	100	24	106	110	113	24	102	103	106	24	103	104	105	24
3/31	100	101	102	24	100	101	101	24	103	104	110	24	105	107	107	24	105	106	106	24
4/1	101	102	104	23	101	101	102	23	101	102	102	23	106	107	108	23	106	106	106	23
4/2	100	101	102	23	101	102	102	23	102	102	109	23	106	106	107	23	106	106	106	23
4/3	101	103	104	24	100	101	101	24	110	111	112	24	105	105	106	24	111	112	113	24
4/4	101	102	103	24	100	100	100	24	111	111	112	24	104	105	105	24	110	111	112	24
4/5	102	104	106	24	100	100	101	24	112	112	112	24	103	103	104	24	109	109	109	24

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

Date	<u>Lower Mon.</u>			<u>L. Mon. Tlwr</u>			<u>Ice Harbor</u>			<u>Ice Harbor Tlwr</u>			<u>McNary-Oregon</u>							
	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#	<u>24 h</u>	<u>12 h</u>	#					
	Avg	Avg		High	Avg		Avg	High		Avg	Avg		High	Avg		Avg	High	Avg	Avg	High
3/23	102	102	103	3	102	102	104	24	104	105	105	24	104	104	105	24	---	---	---	0
3/24	---	---	---	0	102	102	103	24	104	105	105	18	104	105	105	24	---	---	---	0
3/25	---	---	---	0	102	102	102	24	106	107	137	17	104	104	104	24	---	---	---	0
3/26	102	103	103	24	102	103	104	24	103	104	104	24	103	103	104	24	---	---	---	0
3/27	102	103	103	24	108	109	110	24	102	102	103	24	114	114	115	24	---	---	---	0
3/28	100	100	101	24	106	108	109	24	100	100	101	24	111	114	114	24	---	---	---	0
3/29	100	101	104	25	107	109	109	25	101	102	105	25	109	114	114	25	---	---	---	0
3/30	103	103	104	24	106	108	109	24	104	105	105	24	109	113	114	24	---	---	---	0
3/31	104	104	104	24	104	105	109	24	106	106	106	24	107	109	114	24	---	---	---	0
4/1	104	104	104	23	103	104	104	24	106	106	107	23	106	106	107	23	---	---	---	0
4/2	103	103	103	23	103	104	114	24	104	105	106	23	104	105	105	23	---	---	---	0
4/3	103	103	104	24	114	115	118	24	103	103	103	24	113	115	115	24	---	---	---	0
4/4	104	104	105	24	114	116	116	24	103	103	103	24	113	114	114	24	---	---	---	0
4/5	104	105	105	24	115	116	116	24	102	102	103	24	113	114	114	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>#</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>	<u>24h</u>	<u>AVG</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	AVG	High	hr
3/23	---	---	---	0	107	109	113	18	---	---	---	0	105	105	108	24	---	---	---	0
3/24	---	---	---	0	109	112	113	23	---	---	---	0	107	108	109	24	---	---	---	0
3/25	---	---	---	0	105	105	106	7	---	---	---	0	105	105	107	24	---	---	---	0
3/26	104	105	105	23	108	111	113	24	---	---	---	0	114	119	120	24	---	---	---	0
3/27	104	105	105	24	111	113	113	24	---	---	---	0	108	112	114	24	---	---	---	0
3/28	103	103	104	24	111	112	112	24	102	102	103	13	107	111	113	24	103	103	103	8
3/29	102	104	107	25	112	114	116	25	103	103	104	25	114	115	118	24	104	105	106	25
3/30	105	106	107	24	113	114	115	24	104	104	104	24	115	115	117	24	106	106	107	24
3/31	108	109	110	24	115	115	118	24	104	104	105	24	116	117	117	24	106	106	106	24
4/1	111	112	112	23	116	118	118	23	105	105	106	24	114	118	118	24	107	107	108	24
4/2	111	112	112	23	114	115	117	23	105	105	105	24	106	108	112	24	105	105	107	24
4/3	112	112	112	24	117	118	120	24	105	105	106	24	116	118	119	24	105	106	109	24
4/4	111	111	112	24	115	118	120	24	106	106	106	24	110	115	115	24	107	108	109	24
4/5	113	115	115	24	115	116	116	24	107	108	108	24	114	114	115	24	107	108	108	24

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			<u>Bonneville</u>			<u>Warrendale</u>			<u>CamasWashougal</u>			<u>Cascade Island</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>	<u>24h</u>	<u>12h</u>	<u>High</u>	<u>#</u>	
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr
3/23	105	105	107	24	105	106	106	24	106	107	109	23	105	106	107	24	110	110	113	24
3/24	104	104	105	24	107	107	108	23	107	108	108	22	107	107	107	24	111	113	113	23
3/25	104	104	104	24	104	104	105	21	105	105	106	24	106	106	107	24	112	112	112	24
3/26	104	105	106	24	104	104	105	24	106	107	108	24	105	105	105	24	114	116	119	24
3/27	108	109	110	24	103	103	104	24	105	105	107	24	105	105	106	24	112	113	116	24
3/28	103	104	105	24	103	105	105	24	104	105	106	24	103	104	105	24	112	112	113	24
3/29	105	107	110	25	104	105	107	25	106	106	108	25	106	106	107	25	114	115	119	25
3/30	107	107	108	24	106	106	107	24	106	107	108	24	106	107	108	24	114	115	115	24
3/31	106	106	107	24	107	107	108	24	108	108	109	24	107	108	108	24	115	116	116	24
4/1	108	108	109	24	105	105	106	24	108	109	110	24	107	108	109	24	116	118	118	24
4/2	105	106	107	24	105	106	106	24	106	107	107	24	106	107	108	24	112	113	114	24
4/3	106	108	109	24	105	106	106	24	107	108	109	24	106	106	106	24	113	116	119	24
4/4	109	110	110	24	105	105	107	24	105	106	107	24	106	106	107	24	111	113	115	24
4/5	107	108	108	24	108	109	109	24	109	109	110	24	107	108	109	24	114	114	115	24

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/currentsmptsubmitdata.asp>

COMBINED YEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
03/23/2007	460	156	127	6	---	---	---	---	---	---	562
03/24/2007	604	89	55	2	---	---	---	---	---	---	323
03/25/2007	440	350	65	0	---	---	---	---	---	---	607
03/26/2007	631	699	92	0	130	---	---	---	---	---	607
03/27/2007	535	324	181	2	520	---	---	---	---	---	492
03/28/2007	419	956	303	2	591	---	---	---	---	---	313
03/29/2007	607	2,365	396	5	425	---	---	---	---	---	322
03/30/2007	491	725	283	14	351	---	---	---	---	---	479
03/31/2007	559	---	177	4	700	---	---	---	---	---	398
04/01/2007	391	---	121	2	729	---	1	---	---	---	544
04/02/2007 *	654	---	152	0	630	0	0	13	---	---	584
04/03/2007 *	1,742	---	142	5	1,363	0	0	---	0	740	319
04/04/2007 *	328	---	58	0	1,780	4	0	---	---	3,716	347
04/05/2007 *	807	---	53	---	3,888	0	370	---	---	3,588	485
04/06/2007 *	---	---	---	---	---	---	---	---	---	---	---
Total:	8,668	5,664	2,205	42	11,107	4	371	13	0	8,044	6,382
# Days:	14	8	14	13	11	4	5	1	1	3	14
Average:	619	708	158	3	1,010	1	74	13	0	2,681	456
YTD	14,477	6,400	3,599	55	11,107	4	371	13	0	8,044	21,193

COMBINED SUBYEARLING CHINOOK											
	WTB	IMN	GRN	LEW	LGR	LGS	LMN	RIS	MCN	JDA	BO2
Date	(Coll)	(Coll)	(Coll)	(Coll)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)	(INDEX)
03/23/2007	0	0	0	0	---	---	---	---	---	---	554
03/24/2007	0	0	0	1	---	---	---	---	---	---	450
03/25/2007	0	0	0	0	---	---	---	---	---	---	460
03/26/2007	0	0	0	0	0	---	---	---	---	---	666
03/27/2007	0	0	0	4	0	---	---	---	---	---	907
03/28/2007	0	0	0	1	0	---	---	---	---	---	313
03/29/2007	0	0	0	5	0	---	---	---	---	---	341
03/30/2007	0	0	0	0	15	---	---	---	---	---	297
03/31/2007	0	---	0	2	0	---	---	---	---	---	296
04/01/2007	0	---	0	1	32	---	0	---	---	---	253
04/02/2007 *	0	---	0	2	20	0	0	12	---	---	182
04/03/2007 *	0	---	0	0	0	0	0	---	0	0	136
04/04/2007 *	0	---	0	0	42	0	0	---	---	0	186
04/05/2007 *	0	---	0	---	42	0	0	---	---	0	159
04/06/2007 *	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	16	151	0	0	12	0	0	5,200
# Days:	14	8	14	13	11	4	5	1	1	3	14
Average:	0	0	0	1	14	0	0	12	0	0	371
YTD	0	0	0	18	151	0	0	12	0	0	1,076,568

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)
03/23/2007	0	0	0	0	---	---	---	---	---	---	16
03/24/2007	0	0	0	0	---	---	---	---	---	---	0
03/25/2007	0	0	0	1	---	---	---	---	---	---	26
03/26/2007	0	0	0	0	0	---	---	---	---	---	59
03/27/2007	0	0	0	0	22	---	---	---	---	---	77
03/28/2007	0	0	0	0	15	---	---	---	---	---	0
03/29/2007	0	0	0	2	0	---	---	---	---	---	28
03/30/2007	0	0	0	2	15	---	---	---	---	---	48
03/31/2007	0	---	0	0	44	---	---	---	---	---	0
04/01/2007	0	---	0	0	32	---	0	---	---	---	9
04/02/2007	*	0	---	0	0	0	0	0	---	---	19
04/03/2007	*	0	---	0	0	11	0	0	---	0	32
04/04/2007	*	0	---	0	0	0	0	0	---	---	6
04/05/2007	*	0	---	0	---	21	0	0	---	---	12
04/06/2007	*	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	5	160	0	0	0	0	18	612
# Days:	14	8	14	13	11	4	5	1	1	3	14
Average:	0	0	0	0	15	0	0	0	0	6	44
YTD	0	0	0	6	160	0	0	0	0	18	849

		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)
03/23/2007	1	6	0	2	---	---	---	---	---	---	48
03/24/2007	1	5	0	6	---	---	---	---	---	---	21
03/25/2007	0	9	0	2	---	---	---	---	---	---	43
03/26/2007	0	11	0	1	230	---	---	---	---	---	42
03/27/2007	1	9	1	0	498	---	---	---	---	---	87
03/28/2007	1	3	0	1	621	---	---	---	---	---	65
03/29/2007	3	1	0	4	671	---	---	---	---	---	101
03/30/2007	2	2	0	2	571	---	---	---	---	---	96
03/31/2007	3	---	0	3	656	---	---	---	---	---	17
04/01/2007	8	---	0	3	676	---	1	---	---	---	38
04/02/2007	*	34	---	0	520	0	0	0	---	---	38
04/03/2007	*	20	---	0	943	0	0	---	0	150	88
04/04/2007	*	33	---	0	607	41	0	---	---	192	40
04/05/2007	*	56	---	1	873	0	53	---	---	258	76
04/06/2007	*	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	163	46	2	27	6,866	41	54	0	0	600	800
# Days:	14	8	14	13	11	4	5	1	1	3	14
Average:	12	6	0	2	624	10	11	0	0	200	57
YTD	168	141	12	32	6,866	41	54	0	0	600	934

Two-Week Summary of Passage Indices

Date	COMBINED SOCKEYE										
	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
03/23/2007	0	0	0	0	---	---	---	---	---	---	0
03/24/2007	0	0	0	0	---	---	---	---	---	---	0
03/25/2007	0	0	0	0	---	---	---	---	---	---	0
03/26/2007	0	0	0	0	10	---	---	---	---	---	0
03/27/2007	0	0	0	0	11	---	---	---	---	---	0
03/28/2007	0	0	0	0	15	---	---	---	---	---	0
03/29/2007	0	0	0	0	14	---	---	---	---	---	0
03/30/2007	0	0	0	0	0	---	---	---	---	---	0
03/31/2007	0	---	0	0	11	---	---	---	---	---	0
04/01/2007	0	---	0	0	21	---	0	---	---	---	0
04/02/2007 *	0	---	0	0	20	0	0	1	---	---	0
04/03/2007 *	0	---	0	0	34	0	0	---	0	0	0
04/04/2007 *	0	---	0	0	21	0	0	---	---	12	0
04/05/2007 *	0	---	0	---	0	0	3	---	---	0	0
04/06/2007 *	---	---	---	---	---	---	---	---	---	---	---
<hr/>											
Total:	0	0	0	0	157	0	3	1	0	12	0
# Days:	14	8	14	13	11	4	5	1	1	3	14
Average:	0	0	0	0	14	0	1	1	0	4	0
YTD	1	0	0	0	157	0	3	1	0	12	0

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

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

Definitions for Smolt Index Counts

- WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts
- IMN (Collection) = Imnaha River Trap : Collection Counts
- GRN (Collection) = Grande Ronde River Trap : Collection Counts
- LEW (Collection) = Snake River Trap at Lewiston : Collection Counts
- LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$
- MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse Flow} / (\text{Powerhouse Flow} + \text{Spill}) \}$
- BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts
 $\text{Passage Index} = \text{Collection Counts} / \{ \text{Powerhouse 2 Flow} / (\text{Powerhouse 1 \& 2 Flow} + \text{Spill}) \}$

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

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

4/6/07 9:19 AM

03/23/07 TO 04/06/07

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	100	7,420	130	130	5,270	13,050
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	99	7,417	130	130	5,268	13,044
	Sum of Numbertrucked	0	0	0	0	0	0
	Sum of SampleMorts	1	2	0	0	2	5
	Sum of FacilityMorts	0	1	0	0	0	1
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	1	3	0	0	2	6
LGS	Sum of NumberCollected		3			28	31
	Sum of NumberBarged		0			0	0
	Sum of NumberBypassed		3			28	31
	Sum of Numbertrucked		0			0	0
	Sum of SampleMorts		0			0	0
	Sum of FacilityMorts		0			0	0
	Sum of ResearchMorts		0			0	0
	Sum of TotalProjectMorts		0			0	0
LMN	Sum of NumberCollected		148		1	22	171
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		148		1	22	171
	Sum of Numbertrucked		0		0	0	0
	Sum of SampleMorts		0		0	0	0
	Sum of FacilityMorts		0		0	0	0
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		0		0	0	0
Total Sum of NumberCollected		100	7,571	130	131	5,320	13,252
Total Sum of NumberBarged		0	0	0	0	0	0
Total Sum of NumberBypassed		99	7,568	130	131	5,318	13,246
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		1	2	0	0	2	5
Total Sum of FacilityMorts		0	1	0	0	0	1
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		1	3	0	0	2	6

YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/6/07 9:19 AM

TO: 04/06/07

Site	Data	Species					Grand Total	
		CH0	CH1	CO	SO	ST		
LGR	Sum of NumberCollected	100	7,420		130	130	5,270	13,050
	Sum of NumberBarged	0	0		0	0	0	0
	Sum of NumberBypassed	99	7,417		130	130	5,268	13,044
	Sum of NumberTrucked	0	0		0	0	0	0
	Sum of SampleMorts	1	2		0	0	2	5
	Sum of FacilityMorts	0	1		0	0	0	1
	Sum of ResearchMorts	0	0		0	0	0	0
	Sum of TotalProjectMorts	1	3		0	0	2	6
LGS	Sum of NumberCollected			3			28	31
	Sum of NumberBarged			0			0	0
	Sum of NumberBypassed			3			28	31
	Sum of NumberTrucked			0			0	0
	Sum of SampleMorts			0			0	0
	Sum of FacilityMorts			0			0	0
	Sum of ResearchMorts			0			0	0
	Sum of TotalProjectMorts			0			0	0
LMN	Sum of NumberCollected		148			1	22	171
	Sum of NumberBarged		0			0	0	0
	Sum of NumberBypassed		148			1	22	171
	Sum of NumberTrucked		0			0	0	0
	Sum of SampleMorts		0			0	0	0
	Sum of FacilityMorts		0			0	0	0
	Sum of ResearchMorts		0			0	0	0
	Sum of TotalProjectMorts		0			0	0	0
Total Sum of NumberCollected		100	7,571		130	131	5,320	13,252
Total Sum of NumberBarged		0	0		0	0	0	0
Total Sum of NumberBypassed		99	7,568		130	131	5,318	13,246
Total Sum of NumberTrucked		0	0		0	0	0	0
Total Sum of SampleMorts		1	2		0	0	2	5
Total Sum of FacilityMorts		0	1		0	0	0	1
Total Sum of ResearchMorts		0	0		0	0	0	0
Total Sum of TotalProjectMorts		1	3		0	0	2	6

Cumulative Adult Passage at Mainstem Dams Through: 04/05

DAM	EndDate	Spring Chinook						Summer Chinook						Fall Chinook					
		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.		2007		2006		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	04/05	84	0	79	0	8998	17	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/05	10	0	26	-1	2217	4	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/05	16	0	7	-2	1271	0	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/05	-1	0	2	0	464	0	0	0	0	0	0	0	0	0	0	0	0	0
IHR	03/30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/03	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/03	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0
LGR	03/30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD	04/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	04/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL	04/05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	03/31	16	0	23	0	-	-	-	-	-	-	-	-	0	0	0	0	-	-

DAM	Coho						Sockeye			Steelhead			
	2007		2006		10-Yr Avg.		10-Yr			10-Yr			Wild
	Adult	Jack	Adult	Jack	Adult	Jack	2007	2006	Avg.	2007	2006	Avg.	2007
BON	0	0	0	0	0	0	0	0	0	1086	684	1016	333
TDA	0	0	0	0	0	0	0	0	0	608	378	242	206
JDA	0	0	0	0	0	0	0	0	0	672	788	789	214
MCN	0	0	0	0	0	0	0	0	0	535	562	438	128
IHR	0	0	0	0	0	0	0	0	0	0	0	0	0
LMN	0	0	0	0	0	0	0	0	0	28	391	373	6
LGS	0	0	0	0	0	0	0	0	0	108	330	391	44
LGR	0	0	0	0	0	0	0	0	0	6522	3294	3898	1002
PRD	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	2	0	0	0	-	-	0	0	-	4177	4663	-	0

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: 04/06/07

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

Year	Chinook Adult	Chinook Jack	Steelhead	Wild Steelhead
2007	22	0	1,677	517
2006	2	0	2,523	239