



Fish Passage Center

Weekly Report #15–6

April 24, 2015

Summary of Events

Water Supply

Precipitation throughout the Columbia Basin has varied between 23% and 64% of average at individual sub-basins over April. Precipitation above The Dalles has been 51% of average over April. Over the 2015 water year, precipitation has ranged between 63% and 109% of average.

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

Location	Water Year 2015		Water Year 2015	
	April 1–22, 2015		October 1, 2014 to April 22, 2015	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia Above Coulee	1.06	55	25.8	105
Snake River above Ice Harbor	0.74	52	11.9	77
Columbia above The Dalles	0.78	51	16.7	88
Kootenai	1.18	61	26.8	109
Clark Fork	0.40	23	14.3	82
Flathead	0.84	39	23.9	102
Pend Oreille River Basin above Waneta Dam	0.66	34	20.0	93
Salmon River Basin	0.97	52	15.4	81
Upper Snake Tributaries	0.96	55	11.4	63
Clearwater	1.06	41	25.9	90
Willamette River above Portland	2.45	64	45.3	85

Snowpack within the Columbia Basin has been below average. Average snowpack in the Columbia River for basins above the Snake River confluence is 53% of average. For Snake River Basins the average snowpack is 41% of average. For lower Columbia Basins between McNary and Bonneville Dam average snowpack is 3% of average.

Table 2 displays the April 23rd ESP runoff volume forecasts for multiple reservoirs along with the April COE forecasts at Libby and Dworshak. The April 23rd ESP forecast at The Dalles between April and August is 67,636 Kaf (77% of average).

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

Location	April 23, 2015 5-day QPF ESP	
	% Average (1981–2010)	Runoff Volume (Kaf)
The Dalles (Apr–Aug)	77	67,636
Grand Coulee (Apr–Aug)	85	48,203
Libby Res. Inflow, MT (Apr–Aug)	85 99*	5,014 5,808*
Hungry Horse Res. Inflow, MT (Apr–Aug)	87	1,680
Lower Granite Res. Inflow (Apr–July)	62	12,313
Brownlee Res. Inflow (Apr–July)	50	2,739
Dworshak Res. Inflow (Apr–July)	69 70*	1,658 1,709*

* Denotes COE April Forecast

Grand Coulee Reservoir is at 1,251.3 feet (4-23-15) and has drafted 0.6 feet over the last week. Outflows at Grand Coulee have ranged between 80.1 and 97.0 Kcfs over the last week. The April 30th FC Elevation is 1,281.8 feet at Grand Coulee. Grand Coulee is drafted below flood control for drum gate maintenance (1,255 feet).

The Libby Reservoir is currently at elevation 2,419.6 feet (4-23-15) and has drafted 0.4 feet over the previous week. Daily average outflows at Libby Dam have ranged from 8.1 Kcfs to 13.1 Kcfs over the last week. The April 30th FC Elevation at Libby is 2,428.6 feet.

Hungry Horse is currently at an elevation of 3,538.6 feet (4-23-15) and held steady over the last week. Outflows at Hungry Horse have ranged between 5.6 and 6.6 Kcfs over the last week. The April 30th FC Elevation at Hungry Horse is 3,548.4 feet.

Dworshak is currently at an elevation of 1,587.0 feet (4-23-15) and drafted 2.0 feet over the last week. Outflows have been 9.6 Kcfs over the last week. The April 30th FC elevation at Dworshak is 1,590.7 feet.

The Brownlee Reservoir was at an elevation of 2,054.9 feet on April 23, 2015, and has drafted 1.3 feet over the last week. The April 30th FC Elevation is 2,077 feet at Brownlee. Outflow from Hells Canyon have ranged between 7.7 and 9.5 Kcfs.

The Biological Opinion flow period began on April 3rd in the lower Snake River (Lower Granite). According to the April Final Water Supply Forecast (April 8, 2015), the flow objective this spring will be 85 Kcfs at Lower Granite. Flows at Lower Granite Dam have averaged 47.5 Kcfs over the last week and 47.9 Kcfs between April 3 and April 23, 2015.

Based on the April Final Water Supply Forecast, the Spring Biological Opinion Flow Objectives (which began April 10th) will be 220 Kcfs at McNary Dam and 135 Kcfs at Priest Rapids Dam. Over the last week, flows at McNary Dam averaged 158.0 Kcfs and Priest Rapids Dam flows were 106.1 Kcfs. Between April 10 and April 23, flows at McNary Dam averaged 166.5 Kcfs and Priest Rapids Dam flows were 113.1 Kcfs.

Spill

The 2015 fish spill program was implemented at the lower Snake River projects beginning on April 3rd, and beginning April 10th at the middle Columbia River projects.

All of the lower Snake River projects have spilled at the 2015 Fish Operations Plan (FOP) levels over the past week.

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

Since spill began on April 10th, spill for fish passage at the middle Columbia River projects occurred at the following amounts described in the 2015 FOP.

Project	Spill Level Day/Night
McNary	40%/40%
John Day	30%/30%
The Dalles	40%/40%
Bonneville	100 Kcfs/100 Kcfs

Total dissolved gas (TDG) measurements exceeded the waiver limits at some of the forebay monitors. However, it is unlikely that these occurrences are related to spill. TDG at Little Goose forebay exceeded the 115% on 4/21 while, at the time, the upstream gage was measuring about 111% and downstream was measuring 114%. Similarly at Ice Harbor Dam, the forebay gage over the last few days has been measuring higher than the upstream gage and higher than the downstream gage at the project. However, spill was reduced from 31 Kcfs to 28 Kcfs. Also, there were two days this past week when the Bonneville forebay gage was above 115%. **Note:** The State of Oregon and the State of Washington use different methodologies to estimate the 12-hour average TDG. For Oregon, the 12-hour average is based on the 12 highest hourly TDG measurements in a single calendar day (not necessarily consecutive). For Washington, the 12-hour average is based on 12-hour rolling averages. The highest of the rolling averages is what is reported as the 12-hour average for a given day. The location of a TDG monitor will dictate which of these methodologies is used for compliance monitoring. The Washington methodology will apply to all the lower Snake River projects, as well as the middle Columbia River forebay monitors. On any given day the compliance of the tailrace monitors at the middle Columbia River projects will be determined using either the Washington or Oregon methodology, whichever is the most restrictive, and spill will be decreased if needed.

Monitoring for signs of gas bubble trauma (GBT) occurred at Lower Granite, Little Goose, Lower Monumental, McNary and Rock Island dams over the past week. There was one fish in a sample of 99 observed with signs of GBT at Little Goose Dam on April 19th.

Smolt Monitoring

All Smolt Monitoring Program sites continued sampling for 2015 this week.

This week's samples at Bonneville Dam (BON) were dominated by yearling Chinook juveniles. In fact, yearling Chinook passage increased this week when compared to the previous week. This week's daily average passage index for yearling Chinook at BON was about 19,100 per day, whereas that for last week was only about 3,500 per day. Subyearling Chinook passage decreased substantially this week, when compared to last week. This indicates that the subyearling fall Chinook tules from Spring Creek NFH have mostly passed BON. This week's daily average passage index for subyearling Chinook at BON was 12,550 per day. Last week's daily average passage index was nearly 125,000 per day. Coho passage at BON decreased this week, with a daily average passage index of nearly 8,000 fish per day. Last week's daily average passage index for coho was about 10,300 fish per day. Steelhead passage increased slightly this week, with a daily average passage index of nearly 1,900 per day. Sockeye passage remained relatively low this week. Finally, no Pacific lamprey juveniles were encountered at BON this week.

Yearling Chinook continued to dominate this week salmonid collections at John Day Dam (JDA). The daily average passage index for yearling Chinook this week was about 6,300 fish per day, which is an increase over last week's daily average passage index of nearly 4,500. Coho and steelhead passage also increased this week, when compared to last week. This week's daily average passage indices for coho and steelhead were about 500 and 1,100, respectively. Last week's daily average passage indices were about 300 and 330, respectively. Sockeye passage remained low this week, with a daily average passage index of 20 fish per day. No subyearling Chinook fry were encountered in this week's samples. Finally, Pacific lamprey macrophthalmia were encountered every day this week, with a daily average collection of nearly 90 per day, which is a decrease over last week's daily average collection of nearly 200 macrophthalmia per day.

Since McNary Dam (MCN) is no longer a transportation site, sampling is every-other-day for the entire

SMP season. This week's samples at MCN were dominated by yearling Chinook, with a daily average passage index of about 10,200 fish per day. This is an increase over last week's daily average passage index of about 5,100 per day. Steelhead and sockeye passage also increased this week, when compared to the previous week. This week's daily average passage indices for steelhead and sockeye were about 5,100 and 1,070 per day, respectively. Last week's daily average passage indices for these two species were about 1,860 and 80 per day, respectively. Subyearling Chinook fry and coho were also encountered in this week's samples but in relatively low numbers. Finally, Pacific lamprey macrophthalmia were encountered in two of the four samples this week. Including the days when no lamprey were encountered, the daily average collection for Pacific lamprey macrophthalmia was 30.

Yearling Chinook continued to dominate the collections at Lower Granite Dam (LGR) this week. This week's daily average passage index for yearling Chinook at LGR was about 44,450 per day, which is a large increase over last week's daily average passage index of about 11,350 per day. Steelhead passage also increased this week when compared to last week. This week's daily average passage index for steelhead at LGR was about 21,000 per day, whereas that for last week was about 10,175. Passage of subyearling Chinook fry increased this week. This week's daily average passage index for subyearling Chinook fry was about 600 per day. LGR sampled its first coho of the 2015 season on April 20th and coho juveniles have been present in every sample since, with daily passage indices that have ranged from 177 to 524 per day. No sockeye or lamprey juveniles were encountered in this week's samples.

Sampling at Little Goose Dam (LGS) is limited to a 24-hour sample every other day until transportation begins. Yearling Chinook continued to dominate the samples at LGS this week. The daily average passage index for yearling Chinook at LGS was nearly 16,000 fish per day this week, which is an increase over last week's daily average of about 10,200 per day. Steelhead passage also increased this week, when compared to the previous week. This week's daily average passage index for steelhead at LGS was about 12,275 fish per day whereas that of last week was about 6,550 per day. Coho passage remained very low this week and

no subyearling Chinook, sockeye, or lamprey juveniles were encountered in this week's samples.

Sampling at Lower Monumental Dam (LMN) was limited to a 24-hour sample every third day from April 4th to April 10th and then every other day until transportation begins. This week's samples at LMN were dominated by yearling Chinook, with a daily average passage index of about 8,850 fish per day. This represents an increase over last week's daily average passage index of about 2,375 yearling Chinook per day. Steelhead passage at LMN also increased this week when compared to last week. This week's daily average passage index for steelhead at LMN was nearly 3,300 per day, whereas that for last week was about 740 per day. Very few subyearling Chinook and sockeye and no coho were encountered in this week's samples at LMN. Finally, Pacific lamprey macrophthalmia were encountered in the April 17th sample LMN.

This week's samples at Rock Island Dam (RIS) were dominated by yearling Chinook, with a daily average passage index of about 300 fish per day. This is an increase over last week's daily average passage index of only 40 yearling Chinook per day. Passage of subyearling Chinook and sockeye decreased this week. This week's daily average passage indices for subyearling Chinook and sockeye at RIS were about 70 for each species per day. Last week's daily average passage indices for subyearling Chinook and sockeye were about 330 and 150 per day, respectively. Coho passage remained very low this week. Finally, one Pacific lamprey macrophthalmia was encountered in the sample from April 23rd.

The Grande Ronde Trap (GRN) is operated by the Oregon Department of Fish and Wildlife and is located at river kilometer two in the Grande Ronde River. Due to increased collections of subyearling Chinook fry (presumably fall Chinook), sampling at GRN was switched to no-sample mode after the sample on April 21st. This trap will remain in a no-sample mode through the weekend until subyearling Chinook passage can be reassessed on Monday, April 27th. The daily average collection for yearling Chinook for the period of April 17 to April 21 was 18 per day, which is a decrease from last week's daily average collection of 59 per day. Very few steelhead were collected during this same period. One reason for the low collections during

this period is the positioning of the trap. The trap has been positioned in a place where it is less efficient at catching fish, in an effort to reduce handling of listed hatchery Chinook when releases are thought to be passing through the area.

The Salmon River Trap at Whitebird (WTB) is located at river kilometer 103 and operated by Idaho Department of Fish and Game. Sampling at WTB in 2015 has been modified to weekdays only. Due to continued high numbers of hatchery yearling Chinook collections, trapping efforts remained modified this week in an effort to reduce handling of listed hatchery stocks. This reduction in effort involved remaining in an area of the river that is less efficient and reducing the sample period to 8 hours per day instead of the intended 24 hours. In addition, the sample for April 24th will not occur. Yearling Chinook dominated the collections at WTB this week, with a daily average collection of about 970 per day. Of all the yearling Chinook that were collected over this period, approximately 95% were of known hatchery origin. The daily average collection for steelhead this week was about 130 per day. This trap will likely maintain some level of reduced effort over the next week.

The Snake River Trap at Lewiston (LEW) is located at river kilometer 225 and operated by Idaho Department of Fish and Game. Steelhead continued to dominate the collections at the Snake River Trap this week. Catches in the late morning and early afternoon of April 22nd indicated that catch for the April 23rd sample was going to be high. In an effort to reduce handling of listed stocks, trapping for the April 23rd sample was terminated at 1500 on April 22nd. Even with the reduced effort from the April 23rd sample, the daily average collection for steelhead this week was nearly 150 fish per day, which is an increase over last week's daily average collection of about 50 fish per day. Collections of yearling Chinook remained low this week, with an average of 9 per day and a maximum of 15 in the sample from April 21st and 22nd. A few subyearling Chinook fry were encountered in this week's samples at this trap. Trapping at LEW will be terminated over the weekend (April 25 and 26) but will resume on April 26th for the April 27th sample. Catches on April 25th will be assessed to determine if the April 26th sample will be reduced to less than 24 hours.

The Imnaha River Trap (IMN) is located at river kilometer seven and is operated by the Nez Perce Tribe. Sampling at IMN is year-round, however the FPC typically receives data only from early March through June. Due to the remote nature of the trap, the Nez Perce Tribe is able to send collection data to the FPC only periodically. Therefore, data for IMN may be several days behind. To date, we have received data through April 17th. Over the last week of available data (April 11-17), collections at IMN have been dominated by yearling Chinook, with a daily average collection of just over 3,000 fish per day. This is an increase over the daily average collection of about 2,450 from the previous week (April 4–10). Since April 11th, approximately 96% of the yearling Chinook collection at IMN has been of known hatchery origin. Steelhead passage decreased over the April 11 to 17 period, when compared to the previous 7-day period. The average daily collection for steelhead during this time was about 120 per day. The average collection for the previous week (April 4–10) was about 1,550 fish per day.

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. To date, the Fish Passage Center has not received complete preliminary hatchery release data from the Nez Perce Tribe for 2015 releases. Therefore, release estimates discussed for this zone are likely underestimates, as they do not include all releases conducted by the tribe. Release data from the Nez Perce Tribe will be entered into our database as soon as we receive them.

Nearly 184,000 yearling spring Chinook juveniles were scheduled for release to the Yankee Fork of the Salmon River this week. In addition to this new release, the volitional release of approximately 2.5 million yearling spring Chinook from Rapid River Hatchery was scheduled to end this week. The only other releases that were scheduled to begin this week were of summer steelhead juveniles. In all, nearly 2.2 million steelhead juveniles were scheduled for release throughout the Snake River Zone this week. This includes releases both above and below Lower Granite Dam. Releases above Lower Granite Dam

included releases to the Clearwater River (1.42 million), the Pahsimeroi River (192,500), and the Salmon River (477,000). There were two releases below Lower Granite Dam that totaled about 96,000 summer steelhead juveniles. Both of these releases took place on the Tucannon River.

Several volitional releases of summer steelhead that began in previous weeks are scheduled to end over the next 2 weeks. In addition to these older releases, four new releases of summer steelhead juveniles are scheduled for this zone over the next 2 weeks. In all, these four releases are expected to total about 685,400 steelhead juveniles and are scheduled for the Salmon (82%) and Wallowa (18%) rivers. The only other releases that are scheduled to begin over the next 2 weeks are of sockeye. In all, about 420,000 sockeye smolts are scheduled for release into Redfish Lake Creek, beginning on or around May 4th through May 7th.

Mid-Columbia Zone: The Mid-Columbia Zone encompasses the area of the Columbia River and its tributaries from McNary Dam to Chief Joseph Dam. To date, the Fish Passage Center has not received complete preliminary hatchery release data from the Colville Tribe for 2015 releases. Therefore, release estimates discussed for this zone are likely underestimates, as they do not include all releases conducted by the tribe, including releases from the new Chief Joseph Hatchery. Release data from the Colville Tribe will be entered into our database as soon as we receive them.

Three new releases of yearling spring Chinook juveniles were scheduled for this zone this week. These three releases were expected to total about 1.21 million juveniles and were scheduled for Wenatchee (98%) and Methow (2%) rivers. Two new releases of coho to the Methow River were scheduled to begin this week. These two new releases were expected to total about 355,000 coho juveniles. These new coho releases were in addition to the volitional releases that began over the past couple of weeks, which are expected to continue into May and June. Finally, two new releases of summer steelhead were scheduled for this week. Both of these releases were on the Touchet River and were expected to total about 133,000 steelhead juveniles.

Approximately 2.94 million subyearling fall Chinook juveniles are scheduled for release into the Yakima River over the next 2 weeks. Of these, about 42% are scheduled to be unclipped. In addition, about 540,000 yearling spring Chinook juveniles are scheduled for release into the Wenatchee River over the next 2 weeks. Approximately 561,000 coho juveniles are scheduled to be released into the Wenatchee (69%) and Methow (31%) rivers over the next 2 weeks. Finally, nearly 493,000 summer steelhead juveniles are scheduled to be released throughout this zone over the next 2 weeks.

Lower Columbia Zone: The Lower Columbia Zone is defined as the Columbia River and its tributaries from Bonneville Dam to McNary Dam. There were no new releases of juvenile salmonids scheduled to begin this week. Spring Creek NFH is scheduled to release about 4.0 million subyearling fall Chinook tules on April 27th. This release was originally planned for May 4th but was rescheduled to 1 week earlier due to an outbreak of *Hexamita*. Klickitat Hatchery is scheduled to release approximately 1.0 million coho juveniles into the Klickitat River, on or around May 1st. Finally, about 90,000 summer steelhead and 37,500 winter steelhead juveniles are scheduled to be released into this zone over the next 2 weeks. The summer steelhead are scheduled to be released into the Klickitat River while the winter steelhead are scheduled to be released into Hood River.

Adult Passage 4/24/2015

Bonneville Dam uses video counts from January 1st through March 31st and direct counting after this period. Bonneville Dam counts adult salmon and steelhead year-round. Lower Granite Dam uses video counts from March 1st through March 31st and direct counting after this period. Lower Granite Dam counts adult salmon and steelhead through December 30th each year. Willamette Falls also uses video counts and reports adult counts year-round.

Adult counts at Bonneville Dam have been updated through 4/23/15. The 2014 adult spring Chinook count at Bonneville Dam is 72,941, which is about 2.8 times greater than the 2014 count of 25,569 and 4.1 times greater than the 10-year average count of 17,546. The

2015 Bonneville Dam adult steelhead count of 3,915 has 354 more fish than the 2014 count of 3,561 and 727 more fish than the 10-year average count of 3,188.

At Willamette Falls 6,603 adult spring Chinook have been counted so far this season. The 2015 adult spring Chinook count is 3.5 times greater than the 2014 count of 1,887 and 5.1 times greater than the 10-year average count of 1,285. The 2015 Willamette Falls adult steelhead count of 3,999 is about 77.2% of the 2014 count of 5,182 and 68.5% of the 10-year average count of 5,837.

A total of 904 spring chinook have been counted at Lower Granite Dam as of April 23rd. This year's Lower Granite steelhead count of 8,683 is about 1.2 times greater than the 2014 count of 6,899 and about 1.1 times greater than the 10-year average count of 7,989.

Counting at Priest Rapids Dam began on April 15th. In the first 7 days of counting, 427 spring Chinook and 15 steelhead were observed.

Hatchery Releases Last Two Weeks

Hatchery Release Summary									
From:	4/11/2015		to		04/24/15				
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Colville Tribe	Wells Hatchery	ST	SU	2015	2,000	04-15-15	04-20-15	Aneas Creek	Okanogan River
Colville Tribe	Wells Hatchery	ST	SU	2015	19,984	04-15-15	04-20-15	Omak Creek	Okanogan River
Colville Tribe	Wells Hatchery	ST	SU	2015	24,000	04-15-15	04-20-15	Omak Creek	Okanogan River
Colville Tribe	Wells Hatchery	ST	SU	2015	30,000	04-15-15	04-20-15	Similkameen Acclim Pd	Okanogan River
Colville Tribe	Wells Hatchery	ST	SU	2015	40,000	04-15-15	04-20-15	Salmon Creek (Okanogan)	Okanogan River
Colville Tribe Total					115,984				
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	34,249	04-21-15	04-21-15	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	96,177	04-23-15	04-24-15	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	96,347	04-21-15	04-22-15	Pahsimeroi River	Pahsimeroi River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	189,362	04-10-15	04-14-15	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	192,861	04-24-15	05-04-15	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	383,059	04-13-15	04-20-15	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2015	250,000	04-21-15	04-27-15	Little Salmon River	Salmon River (ID)
Idaho Dept. of Fish and Game	Pahsimeroi Hatchery	CH1	SU	2015	199,520	04-01-15	04-14-15	Pahsimeroi Hatchery	Pahsimeroi River
Idaho Dept. of Fish and Game	Pahsimeroi Hatchery	CH1	SU	2015	631,100	04-01-15	04-14-15	Pahsimeroi Hatchery	Pahsimeroi River
Idaho Dept. of Fish and Game	Rapid River Hatchery	CH1	SP	2015	2,500,000	03-16-15	04-24-15	Rapid River Hatchery	Little Salmon River
Idaho Dept. of Fish and Game	Sawtooth Hatchery	CH1	SP	2015	183,800	04-20-15	04-20-15	Yankee Fk (Salmon R)	Salmon River (ID)
Idaho Dept. of Fish and Game Total					4,756,475				
Nez Perce Tribe	Dworshak NFH	ST	SU	2015	252,000	04-17-15	04-21-15	Lolo Creek	Clearwater River M F
Nez Perce Tribe	Lookingglass Hatchery	CH1	SP	2015	250,000	04-15-15	04-15-15	Lostine Accim Pond	Wallowa River
Nez Perce Tribe Total					502,000				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2015	215,000	03-31-15	04-30-15	L Sheep Acclim Pond	Imnaha River
Oregon Dept. of Fish and Wildlife	Lookingglass Hatchery	CH1	SP	2015	133,778	04-14-15	04-15-15	Imnaha River	Imnaha River
Oregon Dept. of Fish and Wildlife	Opal Springs Hatchery	ST	SU	2015	5,500	04-15-15	04-15-15	Crooked River (OR)	Deschutes River
Oregon Dept. of Fish and Wildlife	Opal Springs Hatchery	ST	SU	2015	8,000	04-15-15	04-15-15	Crooked River (OR)	Deschutes River
Oregon Dept. of Fish and Wildlife	Round Butte Hatchery	CH1	SP	2015	240,000	04-15-15	04-15-15	Deschutes River	Deschutes River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	ST	SU	2015	50,000	04-16-15	04-29-15	Thornhollow Acclim Pond	Umatilla River
Oregon Dept. of Fish and Wildlife	Wizard Falls Hatchery	CH1	SP	2015	5,000	04-15-15	04-15-15	Wychus Creek	Deschutes River
Oregon Dept. of Fish and Wildlife	Wizard Falls Hatchery	CH1	SP	2015	7,000	04-15-15	04-15-15	Metolius River	Deschutes River
Oregon Dept. of Fish and Wildlife	Wizard Falls Hatchery	CH1	SP	2015	7,500	04-15-15	04-15-15	Crooked River (OR)	Deschutes River
Oregon Dept. of Fish and Wildlife Total					671,778				
U.S. Fish and Wildlife Service	Carson NFH	CH1	SP	2015	1,179,871	04-15-15	04-15-15	Carson Hatchery	Wind River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2015	320,000	04-13-15	04-17-15	Clear Creek	Clearwater River M F
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2015	484,000	04-14-15	04-18-15	Redhouse (SfK ClearH20 R)	S Fk Clearwater River
U.S. Fish and Wildlife Service	Dworshak NFH	ST	SU	2015	1,423,000	04-22-15	04-23-15	Dworshak Hatchery	Clearwater River M F
U.S. Fish and Wildlife Service	Entiat Hatchery	CH1	SU	2015	417,995	04-13-15	04-13-15	Entiat Hatchery	Entiat River
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2015	1,347,000	04-06-15	04-30-15	Sawtooth Hatchery	Salmon River (ID)
U.S. Fish and Wildlife Service	Leavenworth NFH	CH1	SP	2015	1,140,000	04-18-15	04-18-15	Icicle Creek	Wenatchee River
U.S. Fish and Wildlife Service	Little White Salmon NFH	CH1	SP	2015	1,000,000	04-16-15	04-16-15	Little White Salmon Hatchery	Little White Salmon River
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2015	6,690,340	04-13-15	04-13-15	Spring Creek Hatchery	L Col R (D/s McN Dam)
U.S. Fish and Wildlife Service	Winthrop NFH	CH1	SP	2015	403,000	04-15-15	04-21-15	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2015	20,000	04-15-15	05-15-15	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service	Winthrop NFH	ST	SU	2015	80,000	04-15-15	05-15-15	Winthrop Hatchery	Methow River
U.S. Fish and Wildlife Service Total					14,505,206				
Umatilla Tribe	Cascade Hatchery	CO	UN	2015	574,000	04-15-15	04-15-15	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2015	106,086	04-02-15	04-15-15	Grande Ronde Acclim Pond	Grande Ronde River
Umatilla Tribe	Lookingglass Hatchery	CH1	SP	2015	146,310	03-19-15	04-15-15	Catherine Cr Acclim Pond	Grande Ronde River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2015	50,000	04-16-15	04-20-15	Minthorn Acclimation Pond	Umatilla River
Umatilla Tribe	Umatilla Hatchery	ST	SU	2015	50,000	04-16-15	04-20-15	Pendelton Acclim Pond	Umatilla River
Umatilla Tribe Total					926,396				

Hatchery Releases Last Two Weeks

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2015	146,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2015	148,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2015	148,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chelan Hatchery	CH1	SU	2015	150,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2015	42,000	04-20-15	05-20-15	Nason Creek	Wenatchee River
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2015	144,000	04-15-15	04-30-15	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2015	48,000	04-20-15	04-20-15	Baileysburg Bridge	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2015	50,000	04-20-15	04-20-15	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2015	85,000	04-20-15	05-31-15	Dayton Acclim Pond	Touchet River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2015	90,000	04-15-15	04-15-15	Walla Walla River	Walla Walla River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2015	100,000	04-15-15	04-15-15	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish and Wildlife	Lyons Ferry Hatchery	ST	SU	2015	205,000	04-05-15	04-20-15	Cottonwood Acclim Pond	Grande Ronde River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2015	30,000	04-20-15	04-30-15	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2015	145,000	04-15-15	04-25-15	Methow Hatchery	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SU	2015	185,000	04-05-15	05-15-15	Carlton Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Methow Hatchery	ST	SU	2015	48,000	04-01-15	04-30-15	Twisp Acclim Pond	Methow River
Washington Dept. of Fish and Wildlife	Ringold Springs Hatchery	ST	SU	2015	197,744	04-09-15	04-20-15	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife	Similkameen Hatchery	CH1	SU	2015	20,000	04-15-15	05-15-15	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish and Wildlife	Tucannon Hatchery	ST	SU	2015	46,000	04-20-15	04-20-15	Tucannon River	Tucannon River
Washington Dept. of Fish and Wildlife	Wells Hatchery	CH1	SU	2015	320,000	04-15-15	05-15-15	Wells Hatchery	Mid-Columbia River
Washington Dept. of Fish and Wildlife Total					2,347,744				
Yakama Tribe	Cascade Hatchery	CO	UN	2015	92,760	04-15-15	04-15-15	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Cascade Hatchery	CO	UN	2015	105,152	04-15-15	04-15-15	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2015	215,311	03-15-15	05-15-15	Easton Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2015	216,338	03-15-15	05-15-15	Clark Flat Acclim Pond	Yakima River
Yakama Tribe	Cle Elem Hatchery	CH1	SP	2015	217,163	03-15-15	05-15-15	Jack Creek Acclim Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2015	98,105	04-15-15	06-01-15	Stiles Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2015	143,770	04-15-15	06-01-15	Holmes Pond	Yakima River
Yakama Tribe	Eagle Creek NFH	CO	UN	2015	236,749	04-15-15	06-01-15	Easton Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2015	71,382	04-15-15	06-01-15	Yakama River	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2015	90,000	04-15-15	06-01-15	Prosser Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2015	100,210	04-15-15	06-01-15	Lost Creek Acclim Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2015	103,375	04-15-15	06-01-15	Stiles Pond	Yakima River
Yakama Tribe	Prosser Acclim. Pond	CO	UN	2015	250,000	04-15-15	06-01-15	Prosser Acclim Pond	Yakima River
Yakama Tribe	Willard Hatchery	CO	UN	2015	88,999	04-20-15	04-20-15	Winthrop Hatchery	Methow River
Yakama Tribe	Willard Hatchery	CO	UN	2015	91,639	04-16-15	04-16-15	Leavenworth Hatchery	Wenatchee River
Yakama Tribe	Winthrop NFH	CO	NO	2015	265,922	04-20-15	04-20-15	Winthrop Hatchery	Methow River
Yakama Tribe Total					2,386,875				
Grand Total					26,212,458				

Hatchery Releases Next Two Weeks

Hatchery Release Summary										
From:	4/25/2015		to		5/7/2015					
Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver	
Grant County PUD	Little White Salmon NFH	CH1	SP	2015	65,000	05-01-15	05-07-15	White River	Wenatchee River	
Grant County PUD Total					65,000					
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	192,861	04-24-15	05-04-15	Yankee Fk (Salmon R)	Salmon River (ID)	
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	294,000	04-28-15	05-05-15	Yankee Fk (Salmon R)	Salmon River (ID)	
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2015	210,000	04-27-15	04-30-15	Little Salmon River	Salmon River (ID)	
Idaho Dept. of Fish and Game	Niagara Springs	ST	SU	2015	250,000	04-21-15	04-27-15	Little Salmon River	Salmon River (ID)	
Idaho Dept. of Fish and Game	Oxbow-Oregon	SO	UN	2015	76,000	05-07-15	05-07-15	Redfish Lake Creek	Salmon River (ID)	
Idaho Dept. of Fish and Game	Sawtooth Hatchery	SO	UN	2015	134,000	05-07-15	05-07-15	Redfish Lake Creek	Salmon River (ID)	
Idaho Dept. of Fish and Game	Springfield Hatchery	SO	UN	2015	210,000	05-04-15	05-08-15	Redfish Lake Creek	Salmon River (ID)	
Idaho Dept. of Fish and Game Total					1,366,861					
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2015	120,000	05-04-15	05-04-15	Wallowa Acclim Pond	Wallowa River	
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2015	215,000	03-31-15	04-30-15	L Sheep Acclim Pond	Imnaha River	
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	ST	SU	2015	50,000	04-16-15	04-29-15	Thornhollow Acclim Pond	Umatilla River	
Oregon Dept. of Fish and Wildlife Total					385,000					
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2015	61,400	05-01-15	05-01-15	East Fk Salmon River	Salmon River (ID)	
U.S. Fish and Wildlife Service	Hagerman NFH	ST	SU	2015	1,347,000	04-06-15	04-30-15	Sawtooth Hatchery	Salmon River (ID)	
U.S. Fish and Wildlife Service	Spring Creek NFH	CH0	FA	2015	4,000,000	04-27-15	04-27-15	Spring Creek Hatchery	L Col R (D/s McN Dam)	
U.S. Fish and Wildlife Service Total					5,408,400					
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2015	12,500	04-30-15	04-30-15	Parkdale Acclim Pond	Hood River	
Warm Springs Tribe	Oak Springs Hatchery	ST	WI	2015	25,000	04-30-15	04-30-15	E Fk Irrig Dist Sand Trap	Hood River	
Warm Springs Tribe Total					37,500					
Washington Dept. of Fish and Wildlife	Chiwawa Hatchery	CH1	SP	2015	144,000	04-15-15	04-30-15	Chiwawa Hatchery	Wenatchee River	
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	CH1	SP	2015	475,000	04-30-15	04-30-15	Dryden Acclim Pond	Wenatchee River	
Washington Dept. of Fish and Wildlife	Eastbank Hatchery	ST	SU	2015	238,000	04-25-15	05-01-15	Chiwawa Hatchery	Wenatchee River	
Washington Dept. of Fish and Wildlife	Methow Hatchery	CH1	SP	2015	30,000	04-20-15	04-30-15	Twisp Acclim Pond	Methow River	
Washington Dept. of Fish and Wildlife	Methow Hatchery	ST	SU	2015	48,000	04-01-15	04-30-15	Twisp Acclim Pond	Methow River	
Washington Dept. of Fish and Wildlife	Methow Hatchery	ST	SU	2015	95,000	04-30-15	05-05-15	Methow Hatchery	Methow River	
Washington Dept. of Fish and Wildlife	Skamania Hatchery	ST	SU	2015	90,000	04-25-15	05-01-15	Klickitat River	Klickitat River	
Washington Dept. of Fish and Wildlife	Wells Hatchery	ST	SU	2015	160,000	05-01-15	05-31-15	Wells Hatchery	Mid-Columbia River	
Washington Dept. of Fish and Wildlife Total					1,280,000					
Yakama Tribe	Cascade Hatchery	CO	UN	2015	55,432	05-01-15	05-01-15	Coulter Creek	Wenatchee River	
Yakama Tribe	Cascade Hatchery	CO	UN	2015	101,376	05-01-15	05-01-15	Wenatchee River	Wenatchee River	
Yakama Tribe	Cascade Hatchery	CO	UN	2015	131,335	05-06-15	05-06-15	Butcher Creek Acclim. Pond	Wenatchee River	
Yakama Tribe	Klickitat Hatchery	CO	NO	2015	1,000,000	05-01-15	05-01-15	Klickitat Hatchery	Klickitat River	
Yakama Tribe	Marion Drain Hatchery	CH0	FA	2015	111,000	04-30-15	04-30-15	Nelson Springs	Yakima River	
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2015	480,000	04-30-15	04-30-15	Prosser Acclim Pond	Yakima River	
Yakama Tribe	Prosser Acclim. Pond	CH0	FA	2015	600,000	05-01-15	05-01-15	Prosser Acclim Pond	Yakima River	
Yakama Tribe	Willard Hatchery	CO	UN	2015	42,184	05-06-15	05-06-15	Methow River	Methow River	
Yakama Tribe	Willard Hatchery	CO	UN	2015	48,824	05-06-15	05-06-15	Methow River	Methow River	
Yakama Tribe	Willard Hatchery	CO	UN	2015	82,777	05-06-15	05-06-15	Twisp Acclim Pond	Methow River	
Yakama Tribe	Willard Hatchery	CO	UN	2015	99,123	05-06-15	05-06-15	Rolfings Acclim Pond	Wenatchee River	
Yakama Tribe Total					2,752,051					
Grand Total					11,294,812					

CH = Chinook, ST = Steelhead, CO = Coho, SO = Sockeye, CT = Cutthroat Trout, CM = Chum

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

Date	Grand Coulee		Chief Joseph		Wells		Rocky Reach		Rock Island		Wanapum		Priest Rapids	
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/10/2015	100.2	0.0	108.1	0.0	120.8	10.0	119.7	0.0	125.9	0.0	141.4	0.0	143.4	0.0
04/11/2015	102.2	0.0	103.0	0.0	109.0	10.0	98.7	0.0	108.7	0.0	106.4	0.0	116.0	0.0
04/12/2015	111.6	0.0	106.5	0.0	116.4	9.9	116.8	1.0	121.7	0.0	126.7	0.0	116.8	1.1
04/13/2015	116.4	0.0	107.1	0.0	121.5	9.0	118.3	0.0	123.5	0.0	127.6	0.0	134.1	0.6
04/14/2015	91.5	0.0	89.5	0.0	87.0	6.7	84.2	0.0	88.9	0.1	107.1	0.0	115.8	0.2
04/15/2015	102.9	0.0	106.8	0.0	108.3	8.0	107.9	0.0	110.7	0.0	104.1	0.0	100.7	2.3
04/16/2015	107.6	0.0	111.2	0.0	118.8	9.2	116.6	0.0	121.9	11.0	113.3	0.0	113.6	0.0
04/17/2015	96.2	0.0	92.8	0.0	110.0	8.8	110.6	0.0	116.8	11.5	120.3	0.0	116.1	0.0
04/18/2015	87.5	0.0	85.8	0.0	84.8	6.9	79.7	0.0	83.6	9.8	96.3	0.0	110.1	0.0
04/19/2015	81.6	0.0	84.8	0.0	90.4	7.7	90.5	0.0	95.0	9.8	108.4	10.1	105.8	11.7
04/20/2015	97.0	0.0	98.2	0.0	115.9	8.3	116.2	0.0	121.8	11.6	104.9	18.1	100.2	14.6
04/21/2015	88.7	0.0	88.3	0.0	99.1	7.2	97.3	0.0	104.3	11.3	116.3	18.8	118.4	26.7
04/22/2015	80.1	0.0	80.9	0.0	90.2	7.9	86.3	0.0	90.6	11.4	90.2	18.3	92.2	23.6
04/23/2015	95.2	0.0	95.8	0.0	104.3	7.3	100.0	0.0	104.5	11.0	99.8	18.5	99.8	26.5

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

Date	Dworshak		Brownlee Inflow	Hells Canyon Outflow	Lower Granite		Little Goose		Lower Monumental		Ice Harbor	
	Flow	Spill			Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill
04/10/2015	6.0	0.0	---	11.2	46.6	20.2	44.8	13.4	46.5	30.0	48.9	19.1
04/11/2015	6.0	0.0	---	11.0	45.0	20.1	44.3	13.2	44.0	30.0	45.0	13.4
04/12/2015	6.0	0.0	---	10.7	45.0	20.2	42.4	12.7	45.4	30.0	45.8	13.7
04/13/2015	6.1	0.0	---	11.2	42.7	20.2	39.6	11.9	40.9	26.3	40.4	12.4
04/14/2015	6.1	0.0	---	10.5	43.4	20.3	42.3	12.7	43.8	30.1	45.4	30.5
04/15/2015	6.0	0.0	---	10.6	43.6	20.2	40.8	12.2	43.7	30.6	45.5	35.2
04/16/2015	6.0	0.0	---	10.1	41.2	20.2	38.1	11.4	38.5	26.3	39.1	29.1
04/17/2015	9.6	0.0	---	9.3	43.0	20.2	40.6	12.1	41.1	29.2	43.3	33.3
04/18/2015	9.6	0.0	---	9.3	45.2	20.2	42.3	12.7	44.2	31.0	45.0	35.0
04/19/2015	9.6	0.0	---	9.3	43.2	20.2	43.1	12.9	44.4	29.4	46.0	35.7
04/20/2015	9.6	0.0	---	9.3	47.1	20.2	47.1	14.1	49.0	28.1	50.9	40.7
04/21/2015	9.6	0.0	---	9.3	47.3	20.3	43.5	13.0	45.1	28.0	47.7	37.5
04/22/2015	9.6	0.0	---	9.0	50.8	20.3	48.7	14.6	50.7	28.1	51.0	40.2
04/23/2015	9.6	0.0	---	8.3	56.1	20.4	54.9	16.4	57.1	28.0	58.0	46.2

Daily Average Flow and Spill (in Kcfs) at Lower Columbia Projects

Date	McNary		John Day		The Dalles		Bonneville		PH1	PH2
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill		
04/10/2015	187.9	75.4	178.6	53.4	166.7	66.4	192.9	99.5	0.2	80.8
04/11/2015	180.3	72.5	172.6	51.8	153.5	61.5	180.6	99.9	0.0	68.3
04/12/2015	171.5	69.1	177.3	53.4	164.7	65.9	166.4	100.6	0.0	53.4
04/13/2015	191.8	77.0	199.3	59.6	184.7	73.6	196.1	100.0	0.0	83.8
04/14/2015	182.6	73.3	172.8	51.9	160.7	64.3	187.2	99.0	1.3	74.5
04/15/2015	154.9	62.2	153.4	46.1	137.4	55.0	154.8	99.1	0.0	43.3
04/16/2015	156.3	62.6	159.3	47.9	149.7	59.7	162.8	99.8	0.0	50.6
04/17/2015	148.7	59.7	146.2	43.8	130.0	52.3	148.8	99.7	0.0	36.6
04/18/2015	151.7	60.8	145.6	43.7	131.8	52.8	146.7	100.5	0.0	33.7
04/19/2015	152.7	61.2	153.0	45.7	137.9	55.2	158.3	100.2	0.0	45.8
04/20/2015	162.8	65.4	166.5	50.0	154.1	61.5	185.2	99.5	0.0	73.3
04/21/2015	161.1	64.4	158.6	47.4	148.4	59.2	174.8	99.6	0.0	62.7
04/22/2015	162.3	65.0	159.0	47.8	141.9	56.7	155.7	99.9	0.0	43.4
04/23/2015	166.5	66.4	168.6	50.6	153.6	61.5	164.0	100.6	0.0	51.0

Gas Bubble Trauma Monitoring Results from Representative Sites on the Snake River and Columbia River

Site	Date	Species	Number of Fish	Number w GBT signs	Number w Fin Signs	% Fin GBT	% Severe Fin GBT	Number of Fish with Fin GBT Listed by Highest Rank			
								Rank 1	Rank 2	Rank 3	Rank 4
Lower Granite Dam											
	04/16/15	Chinook + Steelhead	75*	1	1			1	0	0	0
	04/23/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Little Goose Dam											
	04/13/15	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
	04/19/15	Chinook + Steelhead	99*	1	1			0	1	0	0
Lower Monumental Dam											
	04/17/15	Chinook + Steelhead	15*	0	0			0	0	0	0
	04/22/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
McNary Dam											
	04/14/15	Chinook + Steelhead	75*	0	0			0	0	0	0
	04/16/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/20/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/23/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
Bonneville Dam											
	04/21/15	Chinook + Steelhead	59*	0	0			0	0	0	0
Rock Island Dam											
	04/17/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/21/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	0	0	0	0
	04/23/15	Chinook + Steelhead	100	0	0	0.00%	0.00%	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 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>#</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>				
4/10	100.9	101.4	101.6	24	---	---	---	0	106.1	106.4	106.7	24	104.5	105.0	105.2	24	104.7	105.1	105.3	24
4/11	101.3	101.5	101.8	24	---	---	---	0	105.7	106.1	106.4	24	104.8	105.1	105.2	24	104.8	105.0	105.3	24
4/12	99.9	100.2	100.6	24	---	---	---	0	104.4	104.6	104.8	24	103.4	103.6	103.8	24	103.7	103.9	104.0	24
4/13	99.7	100.3	100.4	24	---	---	---	0	105.4	106.0	106.5	24	104.0	104.5	104.7	24	104.6	105.1	105.4	24
4/14	100.1	100.4	100.7	24	---	---	---	0	105.0	105.5	106.1	24	103.7	104.0	104.5	24	104.0	104.4	105.1	24
4/15	98.8	99.1	99.4	24	---	---	---	0	103.7	103.8	104.0	24	102.2	102.5	102.8	24	103.0	103.3	103.5	24
4/16	99.2	99.7	99.9	24	---	---	---	0	104.1	104.5	104.6	24	102.6	103.1	103.5	24	103.2	103.7	104.1	24
4/17	100.0	100.4	100.6	24	---	---	---	0	105.5	106.1	107.0	24	103.5	104.0	104.2	24	104.3	105.0	105.4	24
4/18	100.2	100.5	100.9	24	---	---	---	0	104.8	105.0	105.3	24	103.5	103.8	104.1	24	104.4	104.8	105.0	24
4/19	100.4	100.6	100.7	24	---	---	---	0	105.5	106.0	106.3	24	103.9	104.6	105.0	24	105.2	105.7	106.0	24
4/20	100.5	100.7	101.0	24	---	---	---	0	106.6	106.9	107.1	24	105.0	105.5	105.8	24	106.3	107.0	107.5	24
4/21	101.1	101.6	102.1	24	---	---	---	0	107.3	107.7	108.5	24	105.7	106.3	106.6	24	107.1	107.4	107.6	24
4/22	101.6	102.3	102.8	24	---	---	---	0	107.3	107.6	108.0	24	105.5	105.8	106.3	24	106.8	107.0	107.3	24
4/23	101.6	102.4	103.7	23	---	---	---	0	107.5	107.9	108.3	23	106.1	107.0	108.1	23	106.8	107.0	107.4	23

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>#</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>				
4/10	104.6	105.2	106.3	24	104.6	105.0	105.2	24	106.4	106.8	107.1	24	105.0	105.8	106.5	24	105.5	106.1	107.1	24
4/11	104.8	105.2	105.7	24	104.3	104.7	105.0	24	106.3	106.6	106.9	24	106.2	106.4	106.7	24	106.5	106.7	107.1	24
4/12	103.4	103.7	104.3	24	103.0	103.3	103.6	24	105.3	105.6	105.9	24	105.0	105.2	105.7	24	105.8	106.1	108.1	24
4/13	104.5	105.0	105.5	24	103.9	104.4	104.6	24	105.4	106.2	106.5	24	105.6	106.2	106.7	24	105.9	106.4	106.8	24
4/14	104.3	104.9	105.6	24	103.4	103.8	104.1	24	105.2	105.6	105.8	24	105.0	105.5	106.2	24	105.4	105.8	106.4	24
4/15	103.1	103.8	104.4	24	102.4	102.8	103.2	24	104.5	104.7	105.2	24	103.8	104.0	104.1	24	104.3	104.5	104.7	24
4/16	103.0	103.5	104.1	24	103.5	104.2	104.7	24	105.3	105.9	106.5	24	104.4	105.1	105.5	24	104.8	105.4	105.9	24
4/17	104.4	104.9	105.4	24	104.2	105.0	105.5	24	106.1	106.8	107.4	24	105.7	106.1	106.3	24	105.9	106.2	106.5	24
4/18	104.3	104.8	105.1	24	104.2	104.9	105.4	22	105.8	106.3	107.3	22	106.0	106.3	106.4	24	106.3	106.5	106.8	24
4/19	104.9	105.6	106.7	24	105.5	106.3	106.8	24	107.1	107.6	107.9	24	106.8	107.4	107.7	24	106.8	107.5	107.8	24
4/20	105.6	106.2	106.4	24	106.4	107.1	107.7	24	108.2	108.7	109.3	24	107.9	108.5	108.8	24	108.2	108.8	109.4	24
4/21	106.6	107.2	107.8	24	106.8	107.4	107.8	24	107.9	108.5	108.9	24	108.8	109.0	109.3	24	108.7	109.0	109.1	24
4/22	106.7	107.1	107.7	21	106.1	106.4	106.6	23	107.3	107.5	107.9	23	107.7	108.0	108.5	24	107.7	107.9	108.1	24
4/23	106.5	107.1	107.8	23	106.2	106.7	107.1	21	107.6	108.0	108.3	21	107.5	107.7	107.9	23	107.7	107.9	108.2	23

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>#</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>				
4/10	104.1	104.7	105.0	24	104.1	104.5	104.9	24	105.2	105.6	106.0	24	105.0	105.2	105.6	24	105.0	105.3	105.6	24
4/11	105.2	105.5	105.8	24	105.2	105.3	105.6	24	104.2	104.5	105.1	24	104.3	104.6	105.1	24	103.7	104.0	104.6	24
4/12	104.7	105.1	105.6	24	104.7	105.1	105.5	24	103.3	103.5	103.7	24	103.2	103.4	103.5	24	103.1	103.5	103.8	24
4/13	104.8	105.7	106.3	24	105.1	105.7	106.5	23	104.6	105.3	105.9	24	104.4	105.1	105.4	24	104.0	104.4	105.1	24
4/14	104.1	104.3	105.3	24	104.2	104.5	105.5	24	103.1	103.7	104.8	24	103.2	103.8	104.8	24	102.3	102.8	103.3	24
4/15	103.5	103.9	104.1	24	103.5	103.9	104.0	24	102.5	103.1	103.6	24	102.2	102.6	102.9	24	101.3	102.0	102.4	24
4/16	103.8	104.5	104.9	24	106.5	107.6	108.0	24	103.9	104.8	105.4	24	103.3	103.9	104.2	24	103.0	104.2	104.9	24
4/17	105.1	105.7	106.2	24	107.7	108.6	109.5	24	105.1	105.8	106.9	24	104.6	105.1	105.5	24	104.9	106.3	108.0	24
4/18	105.3	105.9	106.4	24	109.6	111.3	112.7	24	105.8	107.3	108.7	24	104.7	105.4	105.7	24	104.2	105.0	105.4	24
4/19	106.4	106.8	107.1	24	110.1	111.4	113.4	24	108.5	109.8	111.5	24	107.7	109.3	109.7	24	106.0	107.0	107.6	24
4/20	107.2	107.8	108.1	24	110.0	111.0	111.8	24	109.2	110.3	110.6	24	110.5	110.6	110.8	24	108.3	109.6	110.4	24
4/21	107.8	108.3	108.8	24	110.7	111.8	114.7	24	110.2	110.9	111.8	24	111.3	111.6	112.1	24	110.0	110.2	110.4	24
4/22	106.5	106.8	107.4	24	110.9	112.8	115.0	24	106.1	106.6	107.9	24	109.9	110.5	111.2	24	107.1	107.6	109.0	24
4/23	106.8	107.1	107.3	23	110.2	111.5	113.4	23	---	---	---	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	
4/10	104.8	105.1	105.3	24	---	---	---	0	99.6	100.1	100.7	24	101.1	101.9	102.4	24	103.4	104.8	106.4	24
4/11	103.7	104.0	104.4	24	---	---	---	0	99.4	99.7	100.4	24	100.4	100.9	101.4	24	102.4	103.2	104.4	24
4/12	103.2	103.5	104.7	24	---	---	---	0	98.7	99.0	99.5	24	99.8	100.5	101.1	24	102.3	104.0	105.4	24
4/13	104.1	104.5	104.9	24	---	---	---	0	99.4	100.0	100.5	24	100.6	101.6	102.2	24	103.6	105.3	106.9	24
4/14	102.6	103.1	103.7	24	---	---	---	0	99.2	99.6	99.9	24	99.8	100.3	100.9	24	102.2	103.1	104.1	24
4/15	101.8	102.5	105.5	24	---	---	---	0	98.5	98.8	99.2	24	99.5	100.4	101.1	24	102.5	104.4	105.9	24
4/16	102.8	103.6	103.8	24	---	---	---	0	98.9	99.5	100.3	24	100.4	101.5	102.4	24	103.4	105.3	107.2	24
4/17	104.4	105.1	105.3	24	---	---	---	0	95.2	95.6	95.9	24	99.3	100.1	100.6	24	103.1	104.2	107.9	20
4/18	104.3	104.8	105.1	24	---	---	---	0	94.8	95.1	95.5	24	98.7	99.5	100.3	24	103.2	105.0	106.9	24
4/19	107.4	109.0	111.8	24	---	---	---	0	95.0	95.5	95.9	24	99.0	100.0	100.7	24	103.1	105.0	106.6	24
4/20	109.5	112.0	112.3	24	---	---	---	0	96.0	96.5	96.8	24	99.4	100.3	101.1	24	103.3	104.8	106.1	23
4/21	112.4	112.7	113.3	24	---	---	---	0	96.7	97.1	97.6	24	99.6	100.5	101.3	24	101.5	101.5	103.5	12
4/22	110.8	111.2	111.5	24	---	---	---	0	96.3	96.6	96.9	24	98.4	99.0	99.4	24	102.9	103.1	104.3	14
4/23	---	---	---	0	---	---	---	0	97.2	97.8	98.2	23	99.6	100.9	101.3	23	103.9	106.3	108.8	23

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	
4/10	101.8	103.4	104.6	24	102.6	102.9	103.4	24	111.0	111.3	111.5	24	108.7	109.4	109.8	24	111.6	111.8	112.0	24
4/11	100.5	101.1	101.7	24	102.6	102.8	103.5	24	111.3	111.5	112.1	24	109.0	109.3	109.5	24	111.5	111.8	112.1	24
4/12	100.6	102.1	103.5	24	101.5	101.7	102.0	24	111.0	111.1	111.3	24	107.7	108.1	108.3	24	111.3	111.6	111.9	24
4/13	101.5	103.1	104.6	24	102.7	103.1	103.2	24	111.5	112.1	113.0	24	109.3	109.8	110.2	24	111.9	112.2	112.4	24
4/14	100.6	101.5	102.6	24	101.7	102.2	102.9	24	111.1	111.4	112.3	24	107.7	108.3	109.5	24	111.0	111.3	111.6	24
4/15	100.5	102.1	103.2	24	99.9	100.2	100.7	24	111.0	111.2	111.4	24	106.0	106.3	106.6	24	110.3	110.7	111.0	24
4/16	101.7	103.7	105.1	24	100.5	101.0	101.4	24	111.1	111.6	112.3	24	105.9	106.3	107.0	24	110.8	111.2	111.8	24
4/17	101.6	103.0	104.2	24	102.0	102.4	103.1	24	111.4	111.6	112.1	24	106.9	107.2	107.4	21	111.3	111.8	112.3	21
4/18	100.8	102.4	103.7	24	101.5	101.7	102.6	24	110.7	111.0	111.3	24	107.0	107.3	107.7	24	111.6	112.0	112.3	24
4/19	100.9	102.6	104.0	24	102.7	103.2	104.0	24	111.2	111.7	112.1	24	109.4	111.3	112.1	24	112.3	112.8	113.2	24
4/20	101.2	102.8	104.2	24	105.4	106.2	106.8	24	111.4	111.6	112.2	24	113.7	114.9	115.1	24	113.2	113.8	114.1	24
4/21	101.3	102.9	104.3	24	105.4	105.7	106.2	24	111.4	111.7	112.2	24	115.8	116.9	118.4	24	113.7	114.2	114.6	24
4/22	100.3	101.4	102.6	24	103.4	103.7	104.2	24	110.8	111.2	111.5	24	113.6	113.8	114.2	24	112.5	113.0	113.4	24
4/23	100.7	102.1	103.2	23	103.6	103.7	103.9	23	110.4	110.7	111.7	23	113.2	113.4	113.6	23	112.0	112.2	112.3	23

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	
4/10	108.8	109.1	109.3	24	118.4	118.9	119.9	24	114.8	115.3	115.7	24	112.6	112.8	113.1	24	---	---	---	0
4/11	109.8	110.0	110.2	24	118.7	119.0	119.8	24	115.0	115.5	115.9	24	112.3	112.6	113.1	24	---	---	---	0
4/12	108.9	109.1	109.2	24	118.3	118.6	118.7	24	113.0	113.1	113.4	24	111.8	112.1	112.6	24	---	---	---	0
4/13	109.7	110.0	110.2	24	118.0	119.1	119.5	24	113.5	113.8	114.0	24	111.9	112.4	112.6	24	---	---	---	0
4/14	108.4	109.0	109.7	24	118.2	118.5	118.7	24	111.8	112.4	113.5	24	112.1	112.7	113.5	24	---	---	---	0
4/15	107.0	107.2	107.4	24	118.2	118.6	118.8	24	110.5	110.9	111.1	24	112.8	113.5	114.2	24	---	---	---	0
4/16	107.8	108.2	108.4	24	117.1	118.7	119.0	24	111.8	112.4	112.5	24	112.8	113.3	114.1	24	---	---	---	0
4/17	108.7	108.9	109.1	24	117.4	119.4	119.7	24	113.0	113.6	114.1	24	113.1	113.5	113.8	24	---	---	---	0
4/18	108.7	109.2	109.8	24	119.0	119.2	119.4	24	114.7	115.5	116.2	24	112.8	113.3	113.7	24	---	---	---	0
4/19	111.2	112.1	112.5	24	118.4	118.9	119.3	24	117.3	118.3	118.6	24	113.3	113.7	114.2	24	---	---	---	0
4/20	112.8	113.0	113.1	24	118.0	118.5	119.1	24	119.0	119.4	119.7	24	113.4	113.9	114.2	24	---	---	---	0
4/21	113.4	113.6	113.8	24	118.4	118.7	119.0	24	120.1	120.3	120.6	24	114.0	114.3	114.9	24	---	---	---	0
4/22	113.3	113.5	113.7	24	118.0	118.2	118.6	24	118.7	119.1	119.7	24	114.0	114.7	115.5	24	---	---	---	0
4/23	114.0	114.1	114.3	23	118.3	118.7	119.3	23	117.7	117.8	118.0	23	115.0	115.6	116.4	23	---	---	---	0

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

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>McNary-Wash</u>			#	<u>McNary Tlwr</u>			#	<u>John Day</u>			#	<u>John Day Tlwr</u>			#	<u>The Dalles</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
4/10	107.5	107.9	108.3	24	113.9	114.9	116.0	24	108.0	108.2	108.8	24	113.9	114.5	116.0	24	107.4	107.7	108.4	24
4/11	107.2	107.5	107.8	24	113.6	114.1	114.8	24	106.9	107.4	107.7	24	113.2	113.5	113.8	24	108.3	108.6	108.8	24
4/12	105.0	105.3	105.7	24	113.4	113.7	115.0	24	105.9	106.1	106.5	24	113.2	113.5	113.8	24	107.6	108.2	109.0	24
4/13	105.8	106.2	106.8	24	113.8	114.4	115.5	24	106.9	107.2	107.6	24	112.8	113.0	113.3	24	109.9	110.3	110.6	24
4/14	104.0	104.4	105.4	24	112.7	113.0	113.6	24	105.0	105.6	106.4	24	112.2	112.6	113.3	24	106.4	107.4	108.6	24
4/15	103.3	103.8	104.6	24	113.6	114.2	114.6	24	103.6	103.8	103.9	24	111.4	111.8	112.0	24	105.6	106.5	106.9	24
4/16	104.5	105.0	106.5	24	114.1	114.4	114.7	24	104.1	104.7	105.7	24	112.3	112.7	113.1	24	108.2	109.3	109.6	24
4/17	105.5	106.3	107.4	24	115.0	115.3	115.5	24	105.4	105.6	106.0	24	112.5	113.5	114.0	24	109.6	110.1	110.6	24
4/18	107.7	108.3	109.3	24	115.7	116.2	116.5	24	105.8	106.6	107.3	24	112.5	112.7	113.1	24	109.0	109.3	109.6	24
4/19	108.6	109.2	110.6	24	116.3	116.5	116.8	24	107.5	107.9	108.4	24	113.5	114.1	114.4	24	110.5	111.4	111.9	24
4/20	109.7	110.1	110.9	24	116.4	116.6	116.8	24	109.0	109.9	111.1	24	113.6	113.9	114.2	24	111.6	112.0	112.4	24
4/21	110.5	110.9	111.5	24	116.3	116.7	117.0	24	110.0	110.5	111.1	24	113.5	113.9	114.4	24	110.7	111.4	111.6	24
4/22	108.7	109.1	109.5	24	115.8	116.3	116.6	24	108.5	108.9	109.2	24	113.3	114.0	114.4	24	107.1	107.4	108.3	24
4/23	109.1	109.3	109.5	23	115.8	116.4	116.6	23	109.3	109.9	110.1	23	113.7	114.0	114.4	23	108.5	109.4	110.0	23

Total Dissolved Gas Saturation Data at Lower Columbia River Sites

Date	<u>The Dalles Dnst</u>			#	<u>Bonneville</u>			#	<u>Warrendale</u>			#	<u>Camas\Washougal</u>			#	<u>Cascade Island</u>			#
	<u>24 h</u>	<u>12 h</u>			<u>24 h</u>	<u>12 h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>			<u>24h</u>	<u>12h</u>		
	Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High		Avg	Avg	High	
4/10	112.7	113.9	114.6	24	107.0	107.4	107.8	24	114.3	114.5	115.0	14	108.4	110.3	112.0	24	116.5	116.7	116.9	24
4/11	113.7	114.2	115.0	24	105.9	106.3	106.9	24	113.7	114.0	114.3	24	109.8	110.4	111.1	24	116.2	116.4	117.1	24
4/12	113.6	114.1	114.5	24	108.5	109.4	110.1	24	115.4	116.0	116.5	24	111.6	114.1	115.9	24	116.5	116.7	117.0	24
4/13	114.9	115.6	116.6	24	111.2	111.9	112.4	24	115.7	116.1	116.4	24	112.2	113.6	114.8	24	117.0	117.2	117.5	24
4/14	112.8	113.4	113.9	24	109.4	110.0	111.3	24	114.7	115.0	115.6	24	110.7	111.7	112.8	24	116.5	116.8	117.2	24
4/15	112.1	112.7	113.0	24	108.2	108.6	108.8	24	115.8	116.5	117.0	24	112.5	114.5	115.5	24	116.7	117.0	117.1	24
4/16	113.9	114.9	115.2	24	109.7	110.3	110.6	24	116.2	116.4	116.7	24	115.3	116.7	118.0	24	117.0	117.2	117.5	24
4/17	114.7	115.5	116.1	24	111.6	112.5	112.8	24	116.6	117.2	117.8	24	114.1	115.9	116.9	24	117.2	117.4	117.5	24
4/18	114.5	114.9	115.3	24	113.0	113.9	114.4	24	117.2	117.9	118.5	24	116.5	118.3	119.1	24	117.2	117.4	117.5	24
4/19	115.3	116.2	116.6	24	113.8	114.5	114.8	24	117.5	118.1	118.7	24	118.2	119.4	120.0	24	117.2	117.4	117.5	24
4/20	116.2	116.8	117.2	24	115.3	115.9	116.4	24	117.1	117.7	118.2	24	117.7	118.6	119.0	24	117.0	117.2	117.4	24
4/21	115.7	116.2	116.8	24	114.3	115.3	115.6	24	115.9	116.3	116.6	24	114.4	115.3	117.0	24	116.6	116.7	116.9	24
4/22	113.6	114.1	114.5	24	109.4	109.8	110.7	24	115.1	115.6	116.1	24	112.6	114.2	115.2	24	116.6	116.9	117.2	24
4/23	114.4	115.3	115.8	23	108.6	109.0	109.3	23	115.2	115.4	115.6	23	113.4	114.3	115.2	23	116.6	117.1	117.3	23

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 4/24/2015 7:12

* 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)
04/10/2015 *	2,194	2,115	91	16	5,719	8,538	2,186	6	---	4,110	2,012
04/11/2015 *	---	1,145	48	9	7,940	---	---	2	3,394	3,960	2,735
04/12/2015 *	---	1,301	41	13	8,694	10,830	---	8	---	4,528	2,611
04/13/2015 *	688	1,261	79	11	11,488	---	3,701	6	5,391	3,659	2,881
04/14/2015 *	1,848	680	97	22	12,962	10,252	---	9	---	3,524	2,888
04/15/2015 *	400	501	17	14	15,724	---	1,238	9	6,722	6,510	6,858
04/16/2015 *	429	7,192	40	7	16,944	11,191	---	240	---	5,178	4,587
04/17/2015 *	257	9,112	59	5	17,328	---	1,880	179	3,955	3,661	3,110
04/18/2015 *	---	---	11	2	30,687	11,691	---	75	---	4,861	15,677
04/19/2015 *	---	---	3	12	29,498	---	870	216	6,942	4,638	12,090
04/20/2015 *	721	---	6	9	40,625	16,528	---	179	---	5,438	23,332
04/21/2015 *	870	---	11	15	49,113	---	12,250	298	15,489	5,847	29,730
04/22/2015 *	1,114	---	0	15	49,100	19,380	---	613	---	9,568	21,631
04/23/2015 *	1,165	---	0	4	95,570	---	20,437	504	14,426	10,217	28,485
04/24/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	9,686	23,307	503	154	391,392	88,410	42,562	2,344	56,319	75,699	158,627
# Days:	10	8	14	14	14	7	7	14	7	14	14
Average:	969	2,913	36	11	27,957	12,630	6,080	167	8,046	5,407	11,331
YTD	37,703	46,244	6,847	332	605,392	111,620	43,681	2,398	58,199	95,594	195,177

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)
04/10/2015 *	0	12	0	0	0	0	0	110	---	0	335
04/11/2015 *	---	0	9	2	176	---	---	63	238	0	380
04/12/2015 *	---	0	10	0	555	0	---	80	---	0	337
04/13/2015 *	0	0	1	2	91	---	0	299	273	0	169
04/14/2015 *	0	0	3	6	0	0	---	931	---	11	784
04/15/2015 *	0	1	1	0	192	---	0	668	102	0	552,547
04/16/2015 *	0	0	44	1	186	0	---	145	---	0	318,949
04/17/2015 *	0	3	57	3	608	---	31	51	717	0	50,268
04/18/2015 *	---	---	67	0	365	0	---	81	---	0	16,082
04/19/2015 *	---	---	123	3	540	---	0	22	238	0	9,787
04/20/2015 *	0	---	27	3	378	0	---	34	---	0	4,319
04/21/2015 *	0	---	94	4	177	---	233	50	307	0	3,833
04/22/2015 *	0	---	0	3	1,573	0	---	108	---	0	1,805
04/23/2015 *	0	---	0	2	652	---	0	124	204	0	1,759
04/24/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	16	436	29	5,493	0	264	2,766	2,079	11	961,354
# Days:	10	8	14	14	14	7	7	14	7	14	14
Average:	0	2	31	2	392	0	38	198	297	1	68,668
YTD	1	34	476	291	10,484	20	264	4,278	2,618	11	994,000

Two-Week Summary of Passage Indices

COMBINED COHO												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
04/10/2015 *	0	0	0	0	0	0	0	0	---	191	3,399	
04/11/2015 *	---	0	0	0	0	---	---	0	587	234	7,987	
04/12/2015 *	---	0	0	0	0	---	---	3	---	416	9,769	
04/13/2015 *	0	0	0	0	0	---	0	1	426	373	10,224	
04/14/2015 *	0	0	0	0	0	---	---	2	---	275	13,029	
04/15/2015 *	0	0	0	0	0	---	0	7	306	471	19,299	
04/16/2015 *	0	0	0	0	0	---	---	2	---	287	8,663	
04/17/2015 *	0	0	0	0	0	---	0	3	171	413	6,630	
04/18/2015 *	---	---	0	0	0	143	---	1	---	444	3,071	
04/19/2015 *	---	---	0	0	0	---	0	6	306	472	2,467	
04/20/2015 *	0	---	0	0	378	0	---	2	---	698	4,762	
04/21/2015 *	0	---	0	1	177	---	0	1	341	538	10,102	
04/22/2015 *	0	---	0	0	524	0	---	6	---	574	16,585	
04/23/2015 *	0	---	0	0	326	---	0	2	289	459	12,148	
04/24/2015	---	---	---	---	---	---	---	---	---	---	---	
Total:	0	0	0	1	1,405	143	0	36	2,426	5,845	128,135	
# Days:	10	8	14	14	14	7	7	14	7	14	14	
Average:	0	0	0	0	100	20	0	3	347	418	9,153	
YTD	0	0	0	1	1,405	172	0	42	2,791	7,403	149,314	

COMBINED STEELHEAD												
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)	
04/10/2015 *	21	112	37	109	3,859	5,020	500	5	---	312	286	
04/11/2015 *	---	105	10	21	7,411	---	---	7	1,021	305	496	
04/12/2015 *	---	101	14	60	7,121	2,725	---	3	---	129	449	
04/13/2015 *	30	207	5	20	21,608	---	1,184	5	3,020	115	367	
04/14/2015 *	124	122	10	19	11,028	10,654	---	5	---	538	425	
04/15/2015 *	51	129	17	96	9,204	---	531	7	1,544	505	73	
04/16/2015 *	43	109	6	49	10,986	7,749	---	10	---	413	1,020	
04/17/2015 *	70	55	1	121	13,416	---	1,915	13	1,814	485	206	
04/18/2015 *	---	---	1	35	8,768	12,695	---	10	---	903	970	
04/19/2015 *	---	---	0	271	8,813	---	1,914	24	4,968	859	493	
04/20/2015 *	166	---	0	146	11,337	9,202	---	22	---	1,127	1,273	
04/21/2015 *	141	---	2	126	25,793	---	6,300	21	7,323	898	1,838	
04/22/2015 *	94	---	0	275	32,675	14,929	---	18	---	1,861	3,423	
04/23/2015 *	126	---	0	48	46,317	---	3,027	21	6,403	1,550	5,027	
04/24/2015	---	---	---	---	---	---	---	---	---	---	---	
Total:	866	940	103	1,396	218,336	62,974	15,371	171	26,093	10,000	16,346	
# Days:	10	8	14	14	14	7	7	14	7	14	14	
Average:	87	118	7	100	15,595	8,996	2,196	12	3,728	714	1,168	
YTD	943	12,335	408	2,526	307,971	80,263	16,528	189	26,398	12,799	18,339	

Two-Week Summary of Passage Indices

COMBINED SOCKEYE											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/10/2015 *	0	0	0	0	0	0	26	46	---	0	49
04/11/2015 *	---	0	0	0	0	---	---	182	77	0	68
04/12/2015 *	---	0	0	0	0	0	---	155	---	0	28
04/13/2015 *	0	0	0	0	0	---	0	64	68	14	28
04/14/2015 *	0	0	0	0	0	1	---	116	---	0	90
04/15/2015 *	0	0	0	0	0	---	0	245	102	11	0
04/16/2015 *	0	0	0	0	0	0	---	283	---	11	0
04/17/2015 *	0	0	0	0	0	---	31	83	239	19	0
04/18/2015 *	---	---	0	0	0	0	---	66	---	0	0
04/19/2015 *	---	---	0	0	0	---	0	91	306	29	82
04/20/2015 *	0	---	0	0	0	0	---	105	---	54	0
04/21/2015 *	0	---	0	0	0	---	0	43	1,125	19	59
04/22/2015 *	0	---	0	0	0	0	---	49	---	19	23
04/23/2015 *	0	---	0	0	0	---	0	70	2,602	0	84
04/24/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	0	1	57	1,598	4,519	176	511
# Days:	10	8	14	14	14	7	7	14	7	14	14
Average:	0	0	0	0	0	0	8	114	646	13	37
YTD	0	0	0	0	199	41	76	1,741	4,549	223	1,416

COMBINED LAMPREY JUVENILES											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR [†] (Samp)	LGS (Coll)	LMN (Coll)	RIS (Coll)	MCN (Coll)	JDA (Coll)	BO2 (Coll)
04/10/2015 *	0	0	0	0	0	50	0	0	---	175	43
04/11/2015 *	---	0	0	0	0	---	---	0	35	138	20
04/12/2015 *	---	0	0	0	0	0	---	0	---	180	40
04/13/2015 *	0	0	0	0	0	---	0	0	100	140	0
04/14/2015 *	0	0	0	0	0	0	---	0	---	352	10
04/15/2015 *	0	0	0	0	0	---	0	0	40	224	143
04/16/2015 *	0	0	0	0	0	0	---	0	---	152	143
04/17/2015 *	0	0	0	0	0	---	10	0	20	125	0
04/18/2015 *	---	---	0	0	0	0	---	0	---	70	0
04/19/2015 *	---	---	0	0	0	---	0	0	0	40	0
04/20/2015 *	0	---	0	0	0	0	---	0	---	100	0
04/21/2015 *	0	---	0	0	0	---	0	0	0	100	0
04/22/2015 *	0	---	0	0	0	0	---	0	---	25	0
04/23/2015 *	0	---	0	0	0	---	0	1	100	160	0
04/24/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	0	50	10	1	295	1,981	399
# Days:	10	8	14	14	14	7	7	14	7	14	14
Average:	0	0	0	0	0	7	1	0	42	142	29
YTD	0	1	0	0	10	3,080	140	5	315	3,147	2,793

Two-Week Summary of Passage Indices

* 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, sockeye, and lamprey juveniles. Two classes of fish counts are shown in these tables:

Two classes of fish counts are shown in these tables:

Sample counts (Samp) are provided for juvenile lamprey at LGR. See note below for details †.

Collection counts (Coll), which account for sample rates but are not adjusted for flow;

Passage indices (INDEX), 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.

Combined lamprey juvenile collection counts are provided for all sites. Combined lamprey juveniles is a combination of pacific lamprey ammocoetes, brook lamprey ammocoetes, unknown lamprey ammocoetes, pacific lamprey macrophthalmia, and unidentified lamprey species.

† In 2013 it was confirmed that juvenile lamprey can escape the sample tank at LGR which would lead to unreliable estimates of collection. Therefore, only sample counts are provided in this report.

Definitions for Smolt Index Counts

WTB (Collection) = Salmon River Trap at Whitebird : Collection Counts

IMN (Collection) = Imnaha River Trap : Collection Counts

GRN (Collection) = Grande Ronde River Trap : Collection Counts

LEW (Collection) = Snake River Trap at Lewiston : Collection Counts

LGR (Index) = Lower Granite Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LGS (Index) = Little Goose Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

LMN (Index) = Lower Monumental Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

RIS (Index) = Rock Island Dam Second Powerhouse Bypass Trap : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

MCN (Index) = McNary Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

JDA (Index) = John Day Dam Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse Flow / (Powerhouse Flow + Spill)}

BO2 (Index) = Bonneville Dam Second Powerhouse Bypass Collection System : Passage Index Counts

Passage Index = Collection Counts / {Powerhouse 2 Flow / (Powerhouse 1 & 2 Flow + Spill)}

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

RIS data collected for the FPC by Chelan Co. PUD.

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.

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

WTB and LEW data collected for the FPC by Idaho Dept. of Fish and Game.

Two Week Transportation Summary

Source: Fish Passage Center

Updated:

4/24/15 7:09 AM

		04/10/15	TO	04/24/15			
		Species					
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
LGR	Sum of NumberCollected	3,050	220,528	800	122,532		346,910
	Sum of NumberBarged	392	27,182	124	17,362		45,060
	Sum of NumberBypassed	2,655	193,305	676	105,161		301,797
	Sum of Numbertrucked	0	0	0	0		0
	Sum of SampleMorts	3	7	0	3		13
	Sum of FacilityMorts	0	34	0	6		40
	Sum of ResearchMorts	0	0	0	0		0
	Sum of TotalProjectMorts	3	41	0	9		53
LGS	Sum of NumberCollected		61,622	100	43,887	1	105,610
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		61,613	100	43,885	1	105,599
	Sum of Numbertrucked		0	0	0	0	0
	Sum of SampleMorts		4	0	1	0	5
	Sum of FacilityMorts		5	0	1	0	6
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		9	0	2	0	11
LMN	Sum of NumberCollected	110	18,108		6,017	20	24,255
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	110	18,106		6,015	20	24,251
	Sum of Numbertrucked	0	0		0	0	0
	Sum of SampleMorts	0	2		2	0	4
	Sum of FacilityMorts	0	0		0	0	0
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	0	2		2	0	4
Total Sum of NumberCollected		3,160	300,258	900	172,436	21	476,775
Total Sum of NumberBarged		392	27,182	124	17,362	0	45,060
Total Sum of NumberBypassed		2,765	273,024	776	155,061	21	431,647
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		3	13	0	6	0	22
Total Sum of FacilityMorts		0	39	0	7	0	46
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		3	52	0	13	0	68

YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/24/15 7:09 AM

TO: 04/24/15

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	7,690	403,708	800	160	194,292	606,650
	Sum of NumberBarged	392	27,182	124	0	17,362	45,060
	Sum of NumberBypassed	7,285	376,465	676	160	176,918	561,504
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	13	26	0	0	6	45
	Sum of FacilityMorts	0	35	0	0	6	41
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	13	61	0	0	12	86
LGS	Sum of NumberCollected	20	78,203	120	41	56,214	134,598
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	20	78,190	120	41	56,205	134,576
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	7	0	0	1	8
	Sum of FacilityMorts	0	6	0	0	8	14
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	13	0	0	9	22
LMN	Sum of NumberCollected	110	18,638		30	6,547	25,325
	Sum of NumberBarged	0	0		0	0	0
	Sum of NumberBypassed	110	18,625		30	6,545	25,310
	Sum of NumberTrucked	0	0		0	0	0
	Sum of SampleMorts	0	2		0	2	4
	Sum of FacilityMorts	0	1		0	0	1
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	0	3		0	2	5
Total Sum of NumberCollected		7,820	500,549	920	231	257,053	766,573
Total Sum of NumberBarged		392	27,182	124	0	17,362	45,060
Total Sum of NumberBypassed		7,415	473,280	796	231	239,668	721,390
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		13	35	0	0	9	57
Total Sum of FacilityMorts		0	42	0	0	14	56
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		13	77	0	0	23	113

Cumulative Adult Passage at Mainstem Dams Through: 04/23

DAM	END DATE	Spring Chinook						Summer Chinook						Fall Chinook					
		2015		2014		10-Yr Avg.		2015		2014		10-Yr Avg.		2015		2014		10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack
BON	04/23	72941	465	25569	148	17546	103	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/23	49792	396	10161	79	8583	39	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/23	36739	272	5988	83	5947	45	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/23	17465	176	2101	31	2829	17	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/23	8159	10	998	7	1393	3	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/23	3689	59	635	5	699	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/23	1742	21	331	7	384	14	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/23	904	13	174	1	140	1	0	0	0	0	0	0	0	0	0	0	0	0
PRD	04/22	427	3	36	0	114	0	0	0	0	0	0	0	0	0	0	0	0	0
WAN	04/22	133	1	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/22	70	0	2	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	04/22	14	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/20	6603	29	1887	7	1285	4	0	0	0	0	0	0	0	0	0	0	0	0

DAM	END DATE	Coho						Sockeye			Steelhead						Lamprey		
		2015		2014		10-Yr Avg.		2015	2014	10-Yr Avg.	2015	2014	10-Yr Avg.	Wild 2015	Wild 2014	10-Yr Avg.	2015	2014	10-Yr Avg.
		Adult	Jack	Adult	Jack	Adult	Jack												
BON	04/23	0	0	5	-2	0	0	1	3	0	3915	3561	3188	2136	1118	950	0	1	0
TDA	04/23	0	0	0	0	0	0	0	0	0	196	297	2052	133	125	823	0	0	0
JDA	04/23	0	0	0	1	0	1	-1	0	0	366	2711	4431	256	1070	1528	2	0	-1
MCN	04/23	0	0	0	0	1	0	-1	0	0	519	451	4906	331	286	1608	4	3	0
IHR	04/23	0	0	0	0	0	0	0	0	0	803	1275	4560	516	622	1347	2	0	0
LMN	04/23	0	0	0	0	0	0	0	1	0	3029	4600	6024	1566	1313	1790	0	0	0
LGS	04/23	0	0	0	0	0	0	0	0	0	1110	1006	2417	723	679	1056	0	0	0
LGR	04/23	0	0	0	0	0	0	0	0	0	8683	6899	7989	3981	3080	2723	0	0	0
PRD	04/22	0	0	0	0	0	0	0	0	0	15	39	17	0	0	0	3	0	0
WAN	04/22	0	0	0	0	0	0	0	0	0	23	0	47	0	0	0	0	0	0
RIS	04/22	0	0	0	0	0	0	0	0	0	44	124	47	22	77	27	0	0	0
RRH	04/22	0	0	0	0	0	0	0	0	0	51	96	146	29	67	107	0	0	0
WEL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/20	1	0	9	0	0	0	0	0	0	3999	5182	5837	0	0	0	0	0	0

PRD does not post 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.