



Fish Passage Center

Weekly Report #15–5

April 17, 2015

Summary of Events

Water Supply

Precipitation throughout the Columbia Basin has varied between 33% and 94% of average at individual sub-basins over the first half of April. Precipitation above The Dalles has been 71% of average over the first half of April. Over the 2015 water year, precipitation has ranged between 65% and 111% 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 1–15, 2015		October 1, 2014 to April 15, 2015	
	Observed (inches)	% Average	Observed (inches)	% Average
Columbia above Coulee	0.96	73	25.7	108
Sneke River above Ice Harbor	0.73	75	11.9	80
Columbia above The Dalles	0.75	71	16.7	91
Kootenai	1.13	86	26.8	111
Clark Fork	0.39	33	14.3	85
Flathead	0.84	58	23.9	105
Pend Oreille River Basin above Waneta Dam	0.65	50	20.0	96
Salmon River Basin	0.95	75	15.4	84
Upper Snake Tributaries	0.96	80	11.4	65
Clearwater	1.05	59	25.9	93
Willamette River above Portland	2.44	94	45.3	87

Snowpack within the Columbia Basin has been below average. Average snowpack in the Columbia River for basins above the Snake River confluence is 60% of average. For Snake River Basins the average snowpack is 55% of average. For lower Columbia Basins between McNary and Bonneville Dam average snowpack is 13% of average.

Table 2 displays the April 16th ESP runoff volume forecasts for multiple reservoirs along with the April COE forecasts at Libby and Dworshak. The April 16th ESP forecast at The Dalles between April and August is 69,147 Kaf (79% of average).

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

Location	April 16, 2015	
	% Average (1981–2010)	Runoff Volume (Kaf)
The Dalles (Apr–Aug)	79	69,147
Grand Coulee (Apr–Aug)	87	49,133
Libby Res. Inflow, MT (Apr–Aug)	89 99*	5,266 5808*
Hungry Horse Res. Inflow, MT (Apr–Aug)	90	1,748
Lower Granite Res. Inflow (Apr–July)	65	12,829
Brownlee Res. Inflow (Apr–July)	53	2,924
Dworshak Res. Inflow (Apr–July)	72 70*	1,747 1,709*

* Denotes COE April Forecast

Grand Coulee Reservoir is at 1,252.6 feet (4-16-15) and has drafted 0.6 feet over the last week. Outflows at Grand Coulee have ranged between 91.5 and 116.4 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 2,420.4 feet (4-16-15) and has drafted 1.8 feet over the previous week. Daily average outflows at Libby Dam have increased from 4.1 Kcfs to 15.0 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 3,538.7 feet (4-16-15) and drafted 1.3 feet over the last week. Outflows at Hungry Horse have been 6.6 Kcfs over the last week. The end of April 30th FC Elevation at Hungry Horse is 3,548.4 feet.

Dworshak is currently at an elevation of 1,589.4 feet (4-16-15) and refilled 0.9 feet over the last week. Outflows have been 6.0 Kcfs over the last week. The end of April 30th FC elevation at Dworshak is 1,590.7 feet.

The Brownlee Reservoir was at an elevation of 2,056.4 feet on April 16, 2015, and has refilled 1.1 feet over the last week. The end of April 30th FC Elevation is 2,077 feet at Brownlee. Outflow from Hells Canyon is being managed to a minimum of 9.2 Kcfs for fall Chinook spawning (with daily fluctuations to meet energy demand). Over the last 4 days flows have ranged between 9.2 and 15.9 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 48.1 Kcfs between April 3 and April 16, 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. Between April 10 and April 15, flows at McNary Dam averaged 178.1 Kcfs and Priest Rapids Dam flows were 121.1 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

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

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

Total dissolved gas measurements from planned spill did not exceed the waiver limits at any of the projects. **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, and McNary dams over the past week. There was one fish observed with signs of GBT at Little Goose Dam on April 13th. This represents 1% of the sample, which is far below the action criteria of 15%.

Smolt Monitoring

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

This week's samples at Bonneville Dam (BON) were dominated by subyearling Chinook juveniles. On the morning of April 13th, Spring Creek NFH released nearly 6.7 million subyearling fall Chinook tules into Bonneville pool. According to SMP personnel at BON, these subyearling Chinook tules began arriving at the project at about 0630 on Tuesday, April 14th. Peak passage of these subyearling Chinook appears to have occurred with the April 15th sample, which had

a passage index of just over 550,000. The passage index on April 16th was only about 320,000 fish. Coho passage at BON increased again this week, with a daily average passage index of about 10,340 fish per day. Last week's daily average passage index for coho was only about 2,570 fish per day. Yearling Chinook passage also increased this week. This week's daily average passage index for yearling Chinook at BON was about 3,500 fish per day whereas that for last week was 1,730 per day. Passage of sockeye and steelhead at BON remained relatively low this week with daily average passage indices of 38 and 445 fish per day, respectively. Pacific lamprey macrophthalmia were encountered in most of this week's samples, with a daily average collection of nearly 60 per day.

Yearling Chinook continued to dominate this week's salmonid collections at John Day Dam (JDA). The daily average passage index for yearling Chinook this week was about 4,500 fish per day, which is an increase over last week's daily average passage index of about 2,500. At about 330 and 320 per day, this week's daily average passage indices for steelhead and coho, respectively, were similar to those from last week. Sockeye passage remained low this week, with daily average passage index of less than 10 fish per day. Finally, Pacific lamprey macrophthalmia were encountered every day this week, with a daily average collection of nearly 200 per day.

Sampling at McNary Dam (MCN) began on April 8th, with the first sample worked up on April 9th. Since MCN is no longer a transportation site, sampling at MCN is every-other-day for the entire SMP season. Three samples were conducted at MCN this week. These three samples were dominated by yearling Chinook, with a daily average passage index of about 5,170 fish per day. Steelhead were the second most numerous species this week, with a daily average passage index of nearly 1,900 per day. Subyearling Chinook fry, coho, and sockeye were also encountered in this week's samples but in relatively low numbers. Finally, Pacific lamprey macrophthalmia were encountered in all three samples this week, with an average daily collection of about 60 fish.

This week's samples at Lower Granite Dam (LGR) have been dominated by yearling Chinook and steelhead. The daily average passage indices for yearling Chinook and steelhead at LGR this week were

about 11,400 and 10,200 per day, respectively. This week's daily average passage index for yearling Chinook is a slight decrease from last week's daily average passage index while that for steelhead is a slight increase. Passage of subyearling Chinook fry remained low this week and no sockeye or lamprey juveniles were encountered in this week's samples. No coho juveniles have been collected so far this year.

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 about 10,200 fish per day this week, which is an increase over last week's daily average of about 7,300 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 6,550 fish per day whereas that for last week was about 5,450 per day. Only Pacific lamprey macrophthalmia were encountered this week and on only one day (April 10th). The estimated collection for this one day was 72 macrophthalmia.

Sampling at Lower Monumental Dam (LMN) began on April 3rd, with the first sample being worked up on April 4th. Sampling at 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. Three samples were conducted at LMN this week. These three samples were dominated by yearling Chinook, with a daily average passage index of about 2,375 fish per day. The daily average passage index for steelhead at LMN over the past week was about 740 per day. The only other species of salmonid that was encountered in this week's samples was sockeye, but in low numbers and on one day. Finally, no Pacific lamprey were encountered in this week's samples at LMN.

This week's samples at Rock Island Dam (RIS) were dominated by subyearling Chinook fry, with a daily average passage index of about 280 fish per day. When compared to the previous week, sockeye passage at RIS increased this week. This week's daily average passage index for sockeye at RIS was about 130 fish per day. Last week's daily average passage index for sockeye was less than 20 per day. Very few yearling Chinook were collected this week until the sample on April 16th. The passage index for yearling Chinook on April 16th was

200. Prior to this, daily passage indices for yearling Chinook at RIS were less than 10 fish per day. Passage indices for coho and steelhead remained low this week. Finally, no lamprey juveniles were encountered in this week's samples.

The Grande Ronde Trap (GRN) is operated by the Oregon Department of Fish and Wildlife and is located at river kilometer 2 in the Grande Ronde River. Yearling Chinook collections continued to decrease this week, when compared to the previous week. This week's daily average collection for yearling Chinook was about 60 fish, whereas for last week it was about 325 per day. Steelhead collections this week remained relatively low, with a daily average collection of only 14 fish per day. All steelhead collected this week were of known hatchery origin. Finally, a total of 68 subyearling Chinook fry were encountered in this week's samples at GRN.

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. Yearling Chinook continued to dominate the collections at the Salmon River Trap this week. After continued high numbers of hatchery yearling Chinook collections, trapping efforts were further modified this week in an effort to reduce handling of listed hatchery stocks. This reduction in effort included moving the trap to an area of the river that is less efficient as well as reducing the sample period to 8–12 hours instead of 24 hours. For the period of April 13 to 16, daily collections of yearling Chinook ranged from about 400 to 1,850 fish. Of all the yearling Chinook that were collected over this period, approximately 93% were of known hatchery origin. Over the same period, daily steelhead collections ranged from 21 to 124 fish. 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. The daily average collection for steelhead this week was about 50 fish per day, which is similar to last week's daily average collection of about 40 fish per day. Collections of yearling Chinook at this trap remained low this week, with an average of 13 per day and a

maximum of 22 in the sample from April 15th. A few subyearling Chinook fry were encountered in this week's samples at this trap.

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 14th. Over the last week of available data (April 8-14), collections at IMN have been dominated by yearling Chinook, with a daily average collection of about 1,800 fish per day. This is a slight decrease over the daily average collection of about 2,075 from the previous week (April 1–7). Since April 8th, approximately 95% of the yearling Chinook collected at IMN has been of known hatchery origin. Steelhead passage also decreased over the April 8 to 14 period, when compared to the previous 7-day period. The average daily collection for steelhead during this time was about 250 per day. The average collection for the previous week (Apr 1–7) was nearly 1,500 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.

Two new releases of yearling spring Chinook juveniles were scheduled for this zone this week. These two releases were expected to total nearly 384,000 juveniles to the Wallowa (65%) and Imnaha (35%) rivers. The only other releases that were scheduled to begin this week were of summer steelhead juveniles. In all, nearly 1.7 million steelhead juveniles were scheduled for release throughout the Snake River Zone this week. These steelhead releases were scheduled to take place on the Clearwater River

and its tributaries (65%), the Pahsimeroi River (23%), the Grande Ronde River (9%), and directly from Lyons Ferry Hatchery, below Little Goose Dam (6%).

Several volitional releases that began in previous weeks are scheduled to end over the next 2 weeks. In addition to these older releases, there are a few new releases of yearling spring Chinook and summer steelhead to this zone over the next 2 weeks. The first of these releases is a release of about 184,000 yearling spring Chinook to the Yankee Fork of the Salmon River, which is scheduled to occur on or around April 20th. Just over 1.7 million summer steelhead juveniles are scheduled for release to this zone over the next 2 weeks. These steelhead releases are scheduled to occur in the Clearwater (83%) and Salmon (17%) rivers.

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.

Two releases of yearling spring Chinook juveniles were scheduled for this zone this week. These two releases were expected to total about 692,000 juveniles and were scheduled for the Methow (79%) and Wenatchee (21%) rivers. In addition, several releases of yearling summer Chinook were scheduled for this zone this week. In all, these releases were expected to total approximately 1.35 million summer Chinook juveniles. The majority (68%) of these summer Chinook juveniles were going to be released directly into the Columbia River, between Wells and Rocky Reach dams. The remaining 32% were scheduled to be released into the Entiat (31%) and Okanogan (1%) rivers.

Several releases of coho juveniles were scheduled to begin this week. In all, these releases are expected to total nearly 1.4 million coho juveniles that were to be released into the Yakima (79%) and Wenatchee (21%) rivers. These coho juveniles are part of the

Yakama Tribal Program to reintroduce coho to the Yakima, Methow, and Wenatchee rivers. This tribal program is expected to release approximately 2.3 million coho juveniles in 2015. Many of the releases that began this week are volitional and are expected to run through May into early June. Finally, nearly 306,000 summer steelhead juveniles were scheduled for release into this zone this week. These steelhead juveniles were scheduled to be released throughout this river zone, including the Okanogan River (38%), the Methow River (33%), and the Walla Walla River (29%).

Approximately 2.34 million subyearling fall Chinook juveniles are scheduled for release into the Yakima River over the next 2 weeks. Of these, about 27% are scheduled to be unclipped. In addition, nearly 1.7 million yearling spring Chinook juveniles are scheduled for release into this zone over the next 2 weeks. Of these, approximately 98% are scheduled to be released into the Wenatchee River while the remaining 2% are scheduled to be released into the Methow River and its tributaries. In addition to the releases that began this week on the Yakima and Wenatchee rivers, about 355,000 coho juveniles are scheduled to be released into the Methow River beginning next week. Finally, nearly 582,000 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. Nearly 6.7 million subyearling fall Chinook tules were released from Spring Creek National Fish Hatchery on April 13th. In addition, several releases of yearling spring Chinook were scheduled for this zone this week. In all, these spring Chinook releases were expected to total just over 2.4 million juveniles. Of these, approximately 48% were scheduled to be released from Carson National Fish Hatchery into the Wind River and 41% were scheduled to be released from Little White Salmon National Fish Hatchery into the Little White Salmon River. The remaining 11% were scheduled to be release into the Deschutes River and its tributaries. Approximately 574,000 coho juveniles were scheduled to be released into the Umatilla River this week. Finally, about 163,500 summer steelhead juveniles were scheduled to be released into the Umatilla (92%) and Deschutes (8%) rivers this week.

Approximately 90,000 summer steelhead juveniles are scheduled to be released into the Klickitat River, beginning on or around April 25th. The only other new releases that are schedule for this zone over the next 2 weeks are of winter steelhead. In all, about 37,500 winter steelhead are scheduled to be released into Hood River on or around April 30th.

Adult Passage

Adult counts at Bonneville Dam have been updated through 4/16/15. The 2015 adult spring Chinook count at Bonneville Dam of 16,553 is 1.8 times greater than the 2014 count of 9,236. The 2015 Bonneville Dam adult spring Chinook count is about 2.9 times greater than the 10-year average count of 5,652. At Willamette Falls 2,120 adult spring Chinook have been counted so far this year.

The 2015 Bonneville Dam adult steelhead count of 3,695 is about 1.1 times greater than the 2014 count of 3,310 and 1.3 times greater than the 10-year average count of 2,898. This year's Lower Granite steelhead count of 8,459 is about 1.3 times greater than the 2014 count of 6,660 and about 1.2 times greater than the 10-year average count of 7,356. At Willamette Falls, the 2015 count for steelhead was 3,700 as of April 15th. This year's steelhead count has 1,204 fewer fish than the 2014 count of 4,904, while being 68% of the 10-year average count of 5,417.

Between March 1st and April 12th, a total of 125 steelhead, 4 salmon, and 2 other salmonid species were observed over the separator at the Bonneville Juvenile Monitoring Facility (JMF). 2015 Kelt passage at the Bonneville JMF can be found at: <http://www.fpc.org/adultsalmon/bonkeltcounts.htm>.

Hatchery Releases Last Two Weeks

Hatchery Release Summary									
From:	4/4/2015		to		04/17/15				
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	Clearwater Hatchery	ST	SU	2015	155,081	04-09-15	04-10-15	Newsome Creek	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2015	191,805	04-07-15	04-08-15	Meadow Creek - CLES	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2015	224,544	04-06-15	04-07-15	Redhouse (SFk ClearH20 R)	S Fk Clearwater River
Idaho Dept. of Fish and Game	Clearwater Hatchery	ST	SU	2015	356,183	04-08-15	04-09-15	Meadow Creek - CLES	S Fk Clearwater River
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	157,608	04-06-15	04-08-15	Salmon River (ID)	Salmon River (ID)
Idaho Dept. of Fish and Game	Magic Valley Hatchery	ST	SU	2015	157,809	04-08-15	04-10-15	Shoup Br (Salmon R)	Salmon River (ID)
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	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	414,103	04-02-15	04-10-15	Pahsimeroi River	Pahsimeroi River
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 Total					5,560,174				
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	Lyons Ferry Hatchery	CH1	FA	2015	155,000	04-09-15	04-09-15	Pittsburg Landing Acclim Pond	Snake River
Nez Perce Tribe	Lyons Ferry Hatchery	CH1	FA	2015	155,000	04-10-15	04-10-15	Big Canyon (Clearwater River)	Clearwater River M F
Nez Perce Tribe Total					812,000				
Oregon Dept. of Fish and Wildlife	Irrigon Hatchery Complex	ST	SU	2015	160,000	04-11-15	04-11-15	Big Canyon Acclim.Pd (Grande Ronde)	Grande Ronde 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	Irrigon Hatchery Complex	ST	SU	2015	360,000	04-10-15	04-10-15	Wallowa Acclim Pond	Wallowa 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	Lookingglass Hatchery	CH1	SP	2015	197,925	04-01-15	04-08-15	Imnaha Acclim Pond	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	Round Butte Hatchery	ST	SU	2015	25,028	04-08-15	04-08-15	Wychus Creek	Deschutes River
Oregon Dept. of Fish and Wildlife	Umatilla Hatchery	CH1	SP	2015	147,216	04-08-15	04-08-15	Corporation Guard Station	Umatilla 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					1,561,947				
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	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	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					11,942,206				

Hatchery Releases Last Two Weeks

Agency	Hatchery	Species	Race	MigYr	NumRel	RelStart	RelEnd	RelSite	RelRiver
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				
Warm Springs Tribe	Round Butte Hatchery	CH1	SP	2015	75,000	04-09-15	04-09-15	W Fk Hood River	Hood River
Warm Springs Tribe Total					75,000				
Washington Dept. of Fish & Wildlife	Chelan Hatchery	CH1	SU	2015	146,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish & Wildlife	Chelan Hatchery	CH1	SU	2015	148,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish & Wildlife	Chelan Hatchery	CH1	SU	2015	148,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish & Wildlife	Chelan Hatchery	CH1	SU	2015	150,000	04-15-15	04-15-15	Chelan Falls	Mid-Columbia River
Washington Dept. of Fish & Wildlife	Chiwawa Hatchery	CH1	SP	2015	144,000	04-15-15	04-30-15	Chiwawa Hatchery	Wenatchee River
Washington Dept. of Fish & Wildlife	Lyons Ferry Hatchery	CH1	FA	2015	452,372	04-06-15	04-08-15	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish & 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 & Wildlife	Lyons Ferry Hatchery	ST	SU	2015	100,000	04-15-15	04-15-15	Lyons Ferry Hatchery	Snake River
Washington Dept. of Fish & 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 & Wildlife	Methow Hatchery	CH1	SP	2015	145,000	04-15-15	04-25-15	Methow Hatchery	Methow River
Washington Dept. of Fish & Wildlife	Methow Hatchery	CH1	SU	2015	185,000	04-05-15	05-15-15	Carlton Acclim Pond	Methow River
Washington Dept. of Fish & Wildlife	Methow Hatchery	ST	SU	2015	48,000	04-01-15	04-30-15	Twisp Acclim Pond	Methow River
Washington Dept. of Fish & Wildlife	Ringold Springs Hatchery	ST	SU	2015	180,000	04-09-15	04-15-15	Ringold Springs Hatchery	Mid-Columbia River
Washington Dept. of Fish & Wildlife	Similkameen Hatchery	CH1	SU	2015	20,000	04-15-15	05-15-15	Similkameen Acclim Pd	Okanogan River
Washington Dept. of Fish & Wildlife	Tucannon Hatchery	CH1	SP	2015	240,000	04-10-15	04-10-15	Curl Lake Acclim Pond	Tucannon River
Washington Dept. of Fish & 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					2,721,372				
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	91,639	04-16-15	04-16-15	Leavenworth Hatchery	Wenatchee River
Yakama Tribe Total					2,031,954				
Grand Total					25,747,033				

Hatchery Releases Next Two Weeks

Hatchery Release Summary										
From:	4/18/2015 to 4/30/2015									
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	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	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	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	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					4,240,493					
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 Total					252,000					
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	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					265,000					
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	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	Winthrop NFH	CH1	SP	2015	403,000	04-15-15	04-21-15	Winthrop Hatchery	Methow River	
U.S. Fish and Wildlife Service Total					3,173,000					
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					100,000					
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 & Wildlife	Chiwawa Hatchery	CH1	SP	2015	42,000	04-20-15	05-20-15	Nason Creek	Wenatchee River	
Washington Dept. of Fish & Wildlife	Chiwawa Hatchery	CH1	SP	2015	144,000	04-15-15	04-30-15	Chiwawa Hatchery	Wenatchee River	
Washington Dept. of Fish & Wildlife	Eastbank Hatchery	CH1	SP	2015	475,000	04-30-15	04-30-15	Dryden Acclim Pond	Wenatchee River	
Washington Dept. of Fish & Wildlife	Eastbank Hatchery	ST	SU	2015	238,000	04-25-15	05-01-15	Chiwawa Hatchery	Wenatchee River	
Washington Dept. of Fish & Wildlife	Lyons Ferry Hatchery	ST	SU	2015	48,000	04-20-15	04-20-15	Baileysburg Bridge	Touchet River	
Washington Dept. of Fish & Wildlife	Lyons Ferry Hatchery	ST	SU	2015	50,000	04-20-15	04-20-15	Tucannon River	Tucannon River	
Washington Dept. of Fish & Wildlife	Lyons Ferry Hatchery	ST	SU	2015	85,000	04-20-15	05-31-15	Dayton Acclim Pond	Touchet River	
Washington Dept. of Fish & 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 & Wildlife	Methow Hatchery	CH1	SP	2015	30,000	04-20-15	04-30-15	Twisp Acclim Pond	Methow River	
Washington Dept. of Fish & Wildlife	Methow Hatchery	CH1	SP	2015	145,000	04-15-15	04-25-15	Methow Hatchery	Methow River	
Washington Dept. of Fish & Wildlife	Methow Hatchery	ST	SU	2015	48,000	04-01-15	04-30-15	Twisp Acclim Pond	Methow River	
Washington Dept. of Fish & Wildlife	Methow Hatchery	ST	SU	2015	95,000	04-30-15	05-05-15	Methow Hatchery	Methow River	
Washington Dept. of Fish & Wildlife	Skamania Hatchery	ST	SU	2015	90,000	04-25-15	05-01-15	Klickitat River	Klickitat River	
Washington Dept. of Fish & Wildlife	Tucannon Hatchery	ST	SU	2015	46,000	04-20-15	04-20-15	Tucannon River	Tucannon River	
Washington Dept. of Fish and Wildlife Total					1,741,000					
Yakama Tribe	Marion Drain Hatchery	CH0	FA	2015	53,000	04-25-15	04-25-15	Roza Acclim Pond	Yakima 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	1,700,000	04-25-15	04-25-15	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	Winthrop NFH	CO	NO	2015	265,922	04-20-15	04-20-15	Winthrop Hatchery	Methow River	
Yakama Tribe Total					2,698,921					
Grand Total					12,623,898					

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
04/03/2015	120.7	0.0	124.7	5.1	137.8	0.0	137.9	0.0	147.3	0.0	152.6	0.0	154.7	0.0
04/04/2015	121.6	0.0	126.4	3.9	135.6	0.0	132.9	0.0	142.0	0.0	155.4	0.0	157.4	0.0
04/05/2015	123.1	0.0	123.9	0.0	131.9	0.0	131.5	0.0	141.3	0.0	146.2	0.0	153.0	0.0
04/06/2015	118.7	0.0	123.4	0.0	130.5	0.0	129.7	0.0	138.3	0.0	147.7	0.0	145.0	0.0
04/07/2015	98.1	0.0	98.1	0.0	111.8	0.0	113.1	0.0	122.1	0.0	137.3	0.0	142.4	0.0
04/08/2015	107.7	0.0	112.4	0.0	119.2	0.0	114.3	0.0	119.1	0.0	119.6	0.0	118.2	0.0
04/09/2015	113.5	0.0	119.5	0.0	129.0	9.2	124.2	0.0	130.5	0.0	130.1	0.0	129.5	0.0
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	102.7	0.0	106.4	0.0	118.0	9.4	116.9	0.0	121.3	10.2	116.2	0.0	113.8	0.0

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	Flow	Spill
04/03/2015	9.6	0.0	---	11.2	59.6	20.2	57.1	17.0	58.9	27.9	61.0	46.4	
04/04/2015	6.0	0.0	---	11.4	56.2	20.2	55.1	16.5	56.9	27.9	59.9	47.4	
04/05/2015	6.1	0.0	---	11.4	54.2	20.1	52.8	15.9	50.9	27.9	57.2	43.8	
04/06/2015	6.0	0.0	---	11.9	50.7	20.2	47.7	14.4	49.2	28.0	50.1	40.0	
04/07/2015	6.0	0.0	---	11.3	50.3	20.2	47.4	14.2	50.9	28.0	52.7	41.9	
04/08/2015	6.0	0.0	---	11.4	48.2	20.2	47.7	14.3	49.0	28.0	50.0	38.9	
04/09/2015	6.0	0.0	---	11.9	46.1	20.2	43.0	12.8	44.8	26.1	46.7	36.4	
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	

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

Date	McNary		John Day		The Dalles		Bonneville			
	Flow	Spill	Flow	Spill	Flow	Spill	Flow	Spill	PH1	PH2
04/03/2015	224.7	62.3	225.2	19.1	216.7	15.7	224.3	1.4	89.6	121.0
04/04/2015	224.5	61.4	224.1	0.0	223.2	0.0	232.1	1.4	93.1	125.2
04/05/2015	227.7	65.1	221.0	0.0	215.7	0.0	233.8	1.4	94.2	125.7
04/06/2015	216.8	58.9	213.0	0.0	207.9	0.0	232.6	1.4	93.8	125.0
04/07/2015	197.0	40.9	212.3	0.0	208.2	0.0	216.8	1.4	82.9	120.0
04/08/2015	190.9	38.3	194.5	0.0	192.8	0.0	208.4	1.4	76.4	118.2
04/09/2015	173.4	16.2	177.9	0.0	175.4	0.0	181.2	1.4	50.3	117.0
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	162.4	64.9	164.6	49.6	154.4	61.6	163.2	99.6	---	---

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											
	04/09/15	Chinook + Steelhead	35*	0	0			0	0	0	0
Little Goose Dam											
Lower Monumental Dam											
	04/13/15	Chinook + Steelhead	100	1	1	1.00%	0.00%	1	0	0	0
McNary Dam											
Bonneville Dam											
Rock Island Dam											

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>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
4/3	98.9	99.3	99.4	24	---	---	---	0	104.5	105.1	105.4	24	103.1	103.6	103.8	24	104.0	104.5	104.6	24
4/4	99.7	99.8	100.0	24	---	---	---	0	104.9	105.2	105.5	24	103.7	103.9	104.1	24	104.6	104.9	105.3	20
4/5	100.2	100.4	100.7	24	---	---	---	0	106.0	106.7	107.0	24	104.3	104.9	105.0	24	105.3	105.5	105.6	16
4/6	100.4	100.6	100.6	24	---	---	---	0	105.5	106.0	106.3	24	104.1	104.4	104.7	24	105.0	105.1	105.3	24
4/7	100.2	100.4	100.6	24	---	---	---	0	105.0	105.3	105.5	24	103.7	104.0	104.2	24	104.4	104.6	104.8	24
4/8	100.4	100.5	100.7	24	---	---	---	0	104.5	104.6	104.8	24	103.2	103.4	103.6	24	104.2	104.3	104.5	24
4/9	100.1	100.3	100.6	24	---	---	---	0	104.8	105.5	106.0	24	103.8	104.9	106.4	24	104.0	104.4	105.3	24
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	99.6	99.9	23	---	---	---	0	104.1	104.4	104.6	23	102.6	103.1	103.5	23	103.2	103.7	104.1	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>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
4/3	105.2	105.7	106.4	24	104.2	104.6	105.1	24	104.2	104.8	105.4	24	104.8	105.2	105.4	24	105.1	105.4	105.7	24
4/4	105.2	106.2	108.3	24	104.2	104.5	105.0	22	104.3	104.7	105.3	22	104.9	105.2	105.4	24	105.2	105.5	105.8	24
4/5	105.2	105.9	106.5	24	105.0	105.5	105.9	24	105.0	105.7	106.1	24	105.4	105.7	105.9	24	105.7	106.0	106.3	24
4/6	105.4	105.9	106.4	24	104.3	104.6	104.9	24	104.3	104.6	104.8	24	105.0	105.3	105.7	24	105.4	105.6	106.1	24
4/7	105.0	105.5	105.9	24	103.8	104.0	104.5	22	103.7	104.1	104.6	22	104.4	104.5	104.7	24	104.8	104.9	105.0	24
4/8	104.6	104.9	105.6	24	103.7	104.0	104.6	24	103.7	104.1	104.7	24	103.9	104.1	104.3	24	104.4	104.6	104.7	24
4/9	103.8	104.1	104.7	24	103.9	104.2	104.5	24	105.4	106.2	106.5	24	103.8	104.1	104.2	24	104.4	104.6	104.9	24
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	23	103.5	104.2	104.7	23	105.3	105.9	106.5	23	104.3	105.0	105.5	23	104.7	105.3	105.9	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>					
	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr	Avg	Avg	High	hr				
4/3	104.6	104.8	104.9	24	104.6	104.8	104.9	24	105.8	106.5	106.8	24	105.6	106.3	106.5	24	104.9	105.2	105.5	24
4/4	104.4	104.8	105.0	24	104.5	104.8	105.0	24	106.3	106.7	107.2	24	106.2	106.3	106.5	24	105.8	106.4	106.8	24
4/5	104.9	105.2	105.4	24	104.9	105.2	105.3	24	106.5	106.7	107.2	24	106.3	106.4	106.5	24	106.6	106.7	107.0	24
4/6	104.5	104.7	105.1	24	104.5	104.8	105.1	24	105.9	106.2	106.9	24	105.7	105.9	106.4	24	105.8	106.0	106.4	24
4/7	104.0	104.2	104.4	24	104.0	104.2	104.3	24	105.0	105.2	105.6	24	104.9	105.1	105.3	24	104.9	105.0	105.2	24
4/8	103.6	103.9	104.0	24	103.6	103.8	103.9	24	104.5	104.9	105.2	24	104.3	104.4	104.5	24	104.6	104.9	105.6	24
4/9	103.4	103.9	104.3	24	103.4	103.9	104.1	24	104.3	104.9	105.3	24	104.1	104.4	104.5	24	104.5	105.2	105.9	24
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	103.7	104.4	104.9	23	106.5	107.6	108.0	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>			<u>hr</u>	<u>Avg</u>	<u>Avg</u>	
4/3	104.8	105.1	105.3	24	---	---	---	0	94.7	95.1	95.3	24	99.5	100.3	100.7	24	103.0	104.1	105.2	24
4/4	105.5	106.0	106.3	24	---	---	---	0	99.0	99.4	99.8	24	100.7	101.2	101.7	24	103.1	104.0	104.9	24
4/5	106.3	106.4	106.5	24	---	---	---	0	99.9	100.4	100.8	24	100.9	101.5	102.0	24	102.9	103.7	104.8	24
4/6	105.6	105.8	106.1	24	---	---	---	0	100.0	100.3	100.6	24	100.5	100.9	101.2	24	102.6	103.4	104.5	24
4/7	104.9	105.1	105.4	24	---	---	---	0	99.7	100.0	100.5	24	101.0	102.1	102.8	24	103.1	104.5	106.2	23
4/8	104.3	104.5	104.7	24	---	---	---	0	99.7	100.2	100.7	24	100.9	101.6	102.3	24	102.7	103.8	105.2	24
4/9	104.0	104.3	104.5	24	---	---	---	0	99.4	99.8	100.4	24	100.9	101.5	102.3	24	102.7	103.8	105.6	24
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	---	---	---	0	---	---	---	0	98.9	99.5	100.3	23	100.4	101.5	102.4	23	103.4	105.3	107.2	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>			<u>hr</u>	<u>Avg</u>	<u>Avg</u>	
4/3	100.1	101.4	102.3	24	100.6	100.9	101.1	24	109.3	110.1	110.5	24	101.6	102.2	102.7	24	108.2	108.8	109.1	24
4/4	100.8	102.0	103.0	24	101.3	101.6	101.9	24	110.3	110.6	110.8	24	102.2	102.5	102.8	24	108.8	109.1	109.3	24
4/5	101.0	102.1	103.3	24	102.8	103.2	103.6	24	110.4	110.7	111.0	24	102.8	103.2	103.4	24	109.6	109.9	110.0	24
4/6	101.0	102.0	103.0	24	103.0	103.2	103.6	24	110.7	111.0	111.4	24	102.8	103.1	103.2	24	109.8	110.0	110.3	24
4/7	101.4	103.1	104.4	24	103.0	103.1	103.3	24	110.6	110.9	111.5	24	105.0	105.8	106.2	24	110.8	111.2	111.4	24
4/8	101.3	102.6	104.0	24	102.2	102.7	103.2	24	110.8	111.0	111.3	24	107.1	107.6	108.0	24	111.2	111.3	111.5	24
4/9	101.3	102.6	103.9	24	101.5	101.6	101.8	24	111.3	111.7	112.2	24	107.4	107.8	108.4	24	111.0	111.4	111.9	24
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	23	100.4	100.9	101.3	23	111.0	111.4	112.3	23	105.9	106.3	107.0	23	110.8	111.2	111.8	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>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>	<u>#</u>	<u>24 h</u>	<u>12 h</u>	<u>High</u>					
	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>		<u>hr</u>	<u>Avg</u>	<u>Avg</u>			<u>hr</u>	<u>Avg</u>	<u>Avg</u>	
4/3	100.9	101.3	101.5	24	116.4	117.2	117.8	24	101.2	101.4	101.5	24	114.5	115.3	115.6	24	---	---	---	0
4/4	101.6	101.8	102.3	24	118.1	119.3	129.5	24	101.6	101.8	102.0	24	115.1	115.6	116.1	24	---	---	---	0
4/5	104.2	105.1	105.6	24	121.2	125.1	129.8	24	105.1	107.2	108.5	24	114.4	114.7	114.9	24	---	---	---	0
4/6	107.0	107.2	107.4	24	117.5	117.7	118.4	24	110.3	111.3	112.1	24	113.6	114.2	114.5	24	---	---	---	0
4/7	107.7	107.9	108.2	24	117.7	118.1	118.9	24	113.0	113.9	114.5	24	113.8	114.7	115.0	24	---	---	---	0
4/8	107.4	107.6	107.9	24	117.6	117.8	118.2	24	112.9	113.2	113.8	24	113.0	113.3	113.7	24	---	---	---	0
4/9	107.2	107.6	108.0	24	117.0	118.2	118.8	24	112.8	113.4	114.1	24	113.2	114.2	114.9	24	---	---	---	0
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	108.1	108.4	23	117.3	118.7	119.0	23	111.8	112.4	112.5	23	112.8	113.3	114.1	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>#</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>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>				
4/3	104.1	104.4	104.8	24	113.1	113.2	113.7	24	104.4	104.8	104.9	24	108.9	112.6	114.5	24	106.3	106.6	107.1	24
4/4	105.8	106.6	107.9	24	113.2	113.4	113.7	24	104.8	105.0	105.3	24	103.8	104.1	104.4	24	104.9	105.3	105.7	24
4/5	107.5	107.6	107.7	24	113.6	113.7	113.9	24	105.6	106.0	106.3	24	104.5	104.9	105.2	24	105.2	105.3	105.5	24
4/6	107.2	107.4	107.5	24	112.9	113.7	113.9	24	105.6	105.8	106.4	24	104.7	105.1	105.6	24	104.9	105.2	105.3	24
4/7	106.9	107.0	107.2	24	111.2	111.4	111.6	24	108.0	109.0	110.0	24	107.2	108.2	108.7	24	106.1	106.4	106.8	24
4/8	105.7	106.0	106.4	24	110.3	110.6	110.9	24	107.7	108.1	108.8	24	107.0	107.4	108.1	24	106.5	106.7	107.3	24
4/9	106.2	106.7	107.2	24	108.2	109.2	109.9	24	107.0	107.5	108.0	24	106.6	107.2	107.5	24	106.1	106.7	107.0	24
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	23	114.1	114.4	114.7	23	104.0	104.5	105.7	23	112.4	112.7	113.1	23	108.2	109.2	109.6	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>#</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>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>				
4/3	108.0	108.4	108.7	24	104.5	105.0	106.5	24	105.5	105.9	106.3	24	105.3	105.8	106.2	24	110.5	111.0	111.5	24
4/4	105.5	105.9	106.8	24	108.1	108.8	109.4	24	108.9	109.8	110.1	24	107.2	109.4	110.5	24	112.2	112.6	113.4	24
4/5	105.4	105.6	105.7	24	107.4	107.9	108.2	24	108.5	109.0	109.3	24	109.0	109.6	110.6	24	112.6	112.9	113.2	24
4/6	105.2	105.3	105.4	24	105.3	105.6	106.0	24	106.3	106.6	106.9	24	106.9	107.4	107.8	24	111.5	111.8	112.2	24
4/7	106.1	106.4	106.5	24	105.1	105.4	105.6	24	106.2	106.5	106.7	24	105.7	106.2	106.7	24	111.1	111.4	111.7	24
4/8	106.5	106.7	106.8	24	104.5	104.7	104.9	24	105.7	106.0	106.4	24	105.2	105.7	106.3	24	110.0	110.8	111.5	24
4/9	106.3	106.8	107.0	24	105.3	106.1	106.5	24	105.9	105.9	106.4	10	106.4	108.0	108.9	24	111.5	111.9	112.5	24
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	23	109.6	110.2	110.6	23	116.2	116.4	116.7	23	115.3	116.7	118.0	23	117.0	117.2	117.5	23

Two-Week Summary of Passage Indices

Source: Fish Passage Center

Updated: 4/17/2015 8:54

* 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											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/03/2015 *	340	5,461	1,310	15	30,056	---	---	7	---	1,938	504
04/04/2015 *	---	1,872	235	11	26,043	5,792	585	6	---	1,284	1,030
04/05/2015 *	---	2,561	117	22	13,218	---	---	6	---	2,225	1,789
04/06/2015 *	5,659	1,271	94	6	11,560	5,956	---	2	---	2,320	1,874
04/07/2015 *	6,373	3,162	137	19	10,078	---	534	4	---	2,720	1,903
04/08/2015 *	2,525	2,636	252	6	8,378	10,101	---	7	---	2,490	2,061
04/09/2015 *	3,107	3,553	125	13	5,187	---	---	4	1,880	4,580	2,927
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	---	17	14	15,724	---	1,238	9	6,722	6,510	6,858
04/16/2015 *	429	---	40	7	16,944	11,191	---	240	---	5,178	4,587
04/17/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	23,563	27,018	2,683	184	183,991	62,660	8,244	316	17,387	49,026	36,660
# Days:	10	12	14	14	14	7	5	14	4	14	14
Average:	2,356	2,252	192	13	13,142	8,951	1,649	23	4,347	3,502	2,619
YTD	33,576	29,439	6,757	270	293,471	64,021	8,244	334	17,387	51,364	61,122

COMBINED SUBYEARLING CHINOOK											
Date	WTB (Coll)	IMN (Coll)	GRN (Coll)	LEW (Coll)	LGR (INDEX)	LGS (INDEX)	LMN (INDEX)	RIS (INDEX)	MCN (INDEX)	JDA (INDEX)	BO2 (INDEX)
04/03/2015 *	0	0	0	0	0	---	---	113	---	0	252
04/04/2015 *	---	2	0	0	0	0	0	93	---	0	555
04/05/2015 *	---	0	1	1	315	---	---	229	---	0	485
04/06/2015 *	0	6	0	4	326	0	---	169	---	0	257
04/07/2015 *	0	7	0	2	0	---	0	124	---	0	285
04/08/2015 *	0	1	1	0	171	0	---	147	---	0	367
04/09/2015 *	0	0	0	3	89	---	---	261	539	0	363
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	0	192	---	0	668	102	0	552,547
04/16/2015 *	0	---	44	1	186	0	---	145	---	0	318,949
04/17/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	28	70	21	2,101	0	0	3,432	1,152	11	876,065
# Days:	10	12	14	14	14	7	5	14	4	14	14
Average:	0	2	5	2	150	0	0	245	288	1	62,576
YTD	1	30	108	273	6,191	20	0	3,808	1,152	11	906,147

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)	
04/03/2015 *	0	0	0	0	0	---	---	1	---	36	1,161	
04/04/2015 *	---	0	0	0	0	0	0	2	---	56	851	
04/05/2015 *	---	0	0	0	0	---	---	0	---	140	1,375	
04/06/2015 *	0	0	0	0	0	0	0	---	---	360	2,133	
04/07/2015 *	0	0	0	0	0	---	0	2	---	300	3,432	
04/08/2015 *	0	0	0	0	0	29	---	1	---	340	4,000	
04/09/2015 *	0	0	0	0	0	---	---	0	365	280	5,044	
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	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	0	---	2	---	275	13,029	
04/15/2015 *	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	---	---	---	---	---	---	---	---	---	---	---	
Total:	0	0	0	0	0	29	0	21	1,684	3,759	90,366	
# Days:	10	12	14	14	14	7	5	14	4	14	14	
Average:	0	0	0	0	0	4	0	2	421	269	6,455	
YTD	0	0	0	0	0	29	0	21	1,684	3,805	93,549	

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)	
04/03/2015 *	1	539	72	60	13,260	---	---	0	---	358	63	
04/04/2015 *	---	2,213	6	93	27,254	3,270	453	1	---	247	63	
04/05/2015 *	---	2,825	17	49	4,091	---	---	6	---	230	117	
04/06/2015 *	24	2,631	2	12	3,908	5,352	---	1	---	360	219	
04/07/2015 *	12	2,002	5	26	4,367	---	704	0	---	420	434	
04/08/2015 *	12	852	35	19	2,736	7,725	---	0	---	510	437	
04/09/2015 *	14	259	11	41	3,309	---	---	3	305	350	358	
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	---	17	96	9,204	---	531	7	1,544	505	73	
04/16/2015 *	43	---	6	49	10,986	7,749	---	10	---	413	1,020	
04/17/2015	---	---	---	---	---	---	---	---	---	---	---	
Total:	332	11,968	247	674	130,142	42,495	3,372	53	5,890	4,792	4,807	
# Days:	10	12	14	14	14	7	5	14	4	14	14	
Average:	33	997	18	48	9,296	6,071	674	4	1,473	342	343	
YTD	346	12,042	404	1,504	160,852	43,437	3,372	60	5,890	5,116	5,109	

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)
04/03/2015 *	0	0	0	0	0	---	---	22	---	5	72
04/04/2015 *	---	0	0	0	0	0	19	19	---	0	134
04/05/2015 *	---	0	0	0	0	---	---	27	---	10	216
04/06/2015 *	0	0	0	0	0	0	---	13	---	8	121
04/07/2015 *	0	0	0	0	0	---	0	11	---	0	107
04/08/2015 *	0	0	0	0	0	0	---	9	---	20	70
04/09/2015 *	0	0	0	0	89	---	---	12	30	0	71
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	245	102	11	0
04/16/2015 *	0	---	0	0	0	0	---	283	---	11	0
04/17/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	89	1	45	1,204	277	79	1,054
# Days:	10	12	14	14	14	7	5	14	4	14	14
Average:	0	0	0	0	6	0	9	86	69	6	75
YTD	0	0	0	0	199	41	45	1,234	277	83	1,168

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)
04/03/2015 *	0	0	0	0	0	---	---	0	---	80	45
04/04/2015 *	---	0	0	0	0	3,030	130	0	---	130	70
04/05/2015 *	---	0	0	0	1	---	---	1	---	140	20
04/06/2015 *	0	0	0	0	0	0	---	0	---	80	38
04/07/2015 *	0	0	0	0	0	---	0	0	---	110	10
04/08/2015 *	0	0	0	0	0	0	---	0	---	120	20
04/09/2015 *	0	0	0	0	0	---	---	2	20	110	44
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	40	224	143
04/16/2015 *	0	---	0	0	0	0	---	0	---	152	143
04/17/2015	---	---	---	---	---	---	---	---	---	---	---
Total:	0	0	0	0	1	3,080	130	3	195	2,131	646
# Days:	10	12	14	14	14	7	5	14	4	14	14
Average:	0	0	0	0	0	440	26	0	49	152	46
YTD	0	1	0	0	10	3,080	130	4	195	2,527	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:

4/17/15 7:14 AM

		Species					
		04/03/15 TO 04/17/15					
Site	Data	CH0	CH1	CO	ST	SO	Grand Total
LGR	Sum of NumberCollected	1,200	116,475		79,560	50	197,285
	Sum of NumberBarged	74	10,511		7,330	0	17,915
	Sum of NumberBypassed	1,124	105,942		72,226	50	179,342
	Sum of Numbertrucked	0	0		0	0	0
	Sum of SampleMorts	2	4		2	0	8
	Sum of FacilityMorts	0	18		2	0	20
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	2	22		4	0	28
LGS	Sum of NumberCollected		43,661	20	29,603	1	73,285
	Sum of NumberBarged		0	0	0	0	0
	Sum of NumberBypassed		43,652	20	29,597	1	73,270
	Sum of Numbertrucked		0	0	0	0	0
	Sum of SampleMorts		5	0	0	0	5
	Sum of FacilityMorts		4	0	6	0	10
	Sum of ResearchMorts		0	0	0	0	0
	Sum of TotalProjectMorts		9	0	6	0	15
LMN	Sum of NumberCollected		2,960		1,270	20	4,250
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		2,948		1,270	20	4,238
	Sum of Numbertrucked		0		0	0	0
	Sum of SampleMorts		1		0	0	1
	Sum of FacilityMorts		1		0	0	1
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		2		0	0	2
Total Sum of NumberCollected		1,200	163,096	20	110,433	71	274,820
Total Sum of NumberBarged		74	10,511	0	7,330	0	17,915
Total Sum of NumberBypassed		1,124	152,542	20	103,093	71	256,850
Total Sum of Numbertrucked		0	0	0	0	0	0
Total Sum of SampleMorts		2	10	0	2	0	14
Total Sum of FacilityMorts		0	23	0	8	0	31
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		2	33	0	10	0	45

YTD Transportation Summary

Source: Fish Passage Center

Updated:

4/17/15 7:14 AM

TO: 04/17/15

		Species					
Site	Data	CH0	CH1	CO	SO	ST	Grand Total
LGR	Sum of NumberCollected	5,290	225,955		160	110,270	341,675
	Sum of NumberBarged	74	10,511		0	7,330	17,915
	Sum of NumberBypassed	5,205	215,405		160	102,934	323,704
	Sum of NumberTrucked	0	0		0	0	0
	Sum of SampleMorts	11	20		0	4	35
	Sum of FacilityMorts	0	19		0	2	21
	Sum of ResearchMorts	0	0		0	0	0
	Sum of TotalProjectMorts	11	39		0	6	56
LGS	Sum of NumberCollected	20	45,022	20	41	30,545	75,648
	Sum of NumberBarged	0	0	0	0	0	0
	Sum of NumberBypassed	20	45,012	20	41	30,537	75,630
	Sum of NumberTrucked	0	0	0	0	0	0
	Sum of SampleMorts	0	5	0	0	0	5
	Sum of FacilityMorts	0	5	0	0	8	13
	Sum of ResearchMorts	0	0	0	0	0	0
	Sum of TotalProjectMorts	0	10	0	0	8	18
LMN	Sum of NumberCollected		2,960		20	1,270	4,250
	Sum of NumberBarged		0		0	0	0
	Sum of NumberBypassed		2,948		20	1,270	4,238
	Sum of NumberTrucked		0		0	0	0
	Sum of SampleMorts		1		0	0	1
	Sum of FacilityMorts		1		0	0	1
	Sum of ResearchMorts		0		0	0	0
	Sum of TotalProjectMorts		2		0	0	2
Total Sum of NumberCollected		5,310	273,937	20	221	142,085	421,573
Total Sum of NumberBarged		74	10,511	0	0	7,330	17,915
Total Sum of NumberBypassed		5,225	263,365	20	221	134,741	403,572
Total Sum of NumberTrucked		0	0	0	0	0	0
Total Sum of SampleMorts		11	26	0	0	4	41
Total Sum of FacilityMorts		0	25	0	0	10	35
Total Sum of ResearchMorts		0	0	0	0	0	0
Total Sum of TotalProjectMorts		11	51	0	0	14	76

Cumulative Adult Passage at Mainstem Dams Through: 04/16

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	04/16	16553	51	9236	41	5652	13	0	0	0	0	0	0	0	0	0	0	0	0
TDA	04/16	6671	86	2693	20	2264	4	0	0	0	0	0	0	0	0	0	0	0	0
JDA	04/16	3836	32	1251	44	1195	9	0	0	0	0	0	0	0	0	0	0	0	0
MCN	04/16	1394	3	389	4	404	1	0	0	0	0	0	0	0	0	0	0	0	0
IHR	04/16	555	2	163	1	153	0	0	0	0	0	0	0	0	0	0	0	0	0
LMN	04/16	356	7	118	1	46	0	0	0	0	0	0	0	0	0	0	0	0	0
LGS	04/16	169	6	49	1	17	0	0	0	0	0	0	0	0	0	0	0	0	0
LGR	04/16	77	0	26	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
PRD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/15	11	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
RRH	04/15	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WEL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/15	2120	25	1130	4	506	0	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.	10-Yr Avg.		Wild 2015	Wild 2014	10-Yr Avg.	2015	2014	10-Yr Avg.	
		Adult	Jack	Adult	Jack	Adult	Jack	2015	2014	Avg.	2015	2014	Avg.	Wild 2015	Wild 2014	Avg.	2015	2014	Avg.
BON	04/16	0	0	5	-2	0	0	1	3	0	3695	3310	2898	2032	1051	861	0	1	0
TDA	04/16	0	0	0	0	0	0	0	0	0	164	214	1912	93	95	751	0	0	0
JDA	04/16	0	0	0	1	0	1	-1	0	0	247	2631	4147	190	1024	1347	1	-1	-1
MCN	04/16	0	0	0	0	1	0	-1	0	0	392	348	4626	235	218	1450	4	1	0
IHR	04/16	0	0	0	0	0	0	0	0	0	666	1095	4178	417	497	1178	1	0	0
LMN	04/16	0	0	0	0	0	0	0	1	0	2708	4346	5490	1339	1137	1488	0	0	0
LGS	04/16	0	0	0	0	0	0	0	0	0	866	770	1855	548	518	773	0	0	0
LGR	04/16	0	0	0	0	0	0	0	0	0	8459	6660	7356	3830	2928	2410	0	0	0
PRD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WAN		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RIS	04/15	0	0	0	0	0	0	0	0	0	16	7	9	0	3	6	0	0	0
RRH	04/15	0	0	0	0	0	0	0	0	0	16	11	39	0	9	29	0	0	0
WEL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WFA	04/15	1	0	9	0	0	0	0	0	0	3700	4904	5417	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.